

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 January 31, 2012<br/>2 (10:15 a.m.)<br/>3 CHAIRMAN:<br/>4 Q. Good morning. Before we proceed to Mr.<br/>5 Adams, I think there's one preliminary matter<br/>6 that we want to deal with.<br/>7 MS. GLYNN:<br/>8 Q. Another housekeeping item, Mr. Chair. We<br/>9 did want to enter the written letter of<br/>10 comment that we have received onto the<br/>11 record. So we have received a letter of<br/>12 comment from the initials, "YK", which was<br/>13 received on January 16th. On the same date,<br/>14 we received a letter of public comment from<br/>15 "CW". On January 24th, we received comments<br/>16 from "AK", and on January 30th, we received a<br/>17 letter from Mr. George Murphy. So they will<br/>18 now form part of the Board's record. We can<br/>19 turn it right over to Mr. Adams.<br/>20 CHAIRMAN:<br/>21 Q. Okay. Mr. Adams, do you wish to be sworn in,<br/>22 sir? It's entirely up to you.<br/>23 MR. ADAMS:<br/>24 Q. Doesn't matter.</p>                                                                                                         | <p style="text-align: right;">Page 3</p> <p>1 worked after that as an engineer with<br/>2 Newfoundland Hydro for five years in the<br/>3 field of relaying, protection, and substation<br/>4 design. After that, I got into business<br/>5 involved in mostly mechanical equipment,<br/>6 primarily heating systems, and I've worked, I<br/>7 guess, for about thirty years or more<br/>8 primarily with heating and ventilation in a<br/>9 lot of the large institutional buildings and<br/>10 hospitals, schools, and things of that<br/>11 nature. So I got a knowledge of the advances<br/>12 with heating systems for commercial, and in<br/>13 recent years how they've moved and improved<br/>14 and got competitive for residential<br/>15 applications. So I'll just continue on.<br/>16 Newfoundland Power seeks to raise the<br/>17 domestic rate by 7.9 percent. This is on top<br/>18 of the 6.6 percent granted just seven months<br/>19 ago. It seeks to raise profits by 19<br/>20 percent, and the consumer gets what; he gets<br/>21 the latest version of the Energy Conservation<br/>22 Plan. What is the dollar value and benefits<br/>23 of this plan for the average household? We<br/>24 can calculate the dollar cost of the</p>      |
| <p style="text-align: right;">Page 2</p> <p>1 CHAIRMAN:<br/>2 Q. Okay, then, sir, you may proceed.<br/>3 MR. ADAMS:<br/>4 Q. Okay. I start by asking this question here,<br/>5 does anyone at this proceeding have a feeling<br/>6 for what a gigawatt hour of saving means to<br/>7 the average residential consumer, or what<br/>8 will be the impact of accumulative gross<br/>9 saving or aggregate saving of 49 gigawatt<br/>10 hours by the year 2014? Does the size of<br/>11 this saving meet the expectations of the<br/>12 consumer, the consumer advocate, or this<br/>13 Board? I might note that my comments here<br/>14 generally deals with the rate application<br/>15 with respect to the conservation plan. If I<br/>16 could back up a second too, I intended to put<br/>17 a note here on what my background and<br/>18 experience is, and I never got around to<br/>19 doing it, so I'll just state it.<br/>20 CHAIRMAN:<br/>21 Q. Yes, sir.<br/>22 MR. ADAMS:<br/>23 Q. My training, I'm an electrical engineer. I<br/>24 graduated from Nova Scotia Tech in 1971. I</p> | <p style="text-align: right;">Page 4</p> <p>1 increases for average electric heated house<br/>2 using 22,000 kilowatt hours a year. The<br/>3 recent rate increase added \$169.00 a year,<br/>4 and this one another \$194.00. That's \$363.00<br/>5 increase in one year to a \$2,500.00 power<br/>6 bill. So what offset dollar value will the<br/>7 conservation plan bring; does our consumer<br/>8 advocate or this Board know. I suspect<br/>9 Newfoundland Power knows, but there is no<br/>10 evidence or charts that show it. Is the<br/>11 consumer advocate satisfied with this plan?<br/>12 I e-mailed Mr. Johnson with a number of<br/>13 concerns. These are the questions I put to<br/>14 him; is this plan sufficiently funded, are<br/>15 they targeting the right technologies to<br/>16 maximize benefits for the consumers, are the<br/>17 savings getting the proper verification<br/>18 process, are the resources and the results<br/>19 favourable compared to other utilities with<br/>20 serious conservation plans, did you question<br/>21 any concerns with the utilities before the<br/>22 hearing started, are there issues of a<br/>23 technical nature that you sought expert<br/>24 advice from any consultant on energy</p> |

| Page 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Page 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 conservation efficiency. If so, what issues,<br/> 2 what consultant, what advice and what<br/> 3 recommendations were provided. Do you and<br/> 4 the utilities acknowledge that the greatest<br/> 5 potential benefit for both the domestic and<br/> 6 commercial consumer is in cost effective<br/> 7 technology for space heating and hot water as<br/> 8 they comprise 80 percent of their loads. Are<br/> 9 you satisfied that the present plan contains<br/> 10 nothing to address space heating and hot<br/> 11 water? Do you agree that the utilities are<br/> 12 having trouble identifying technologies for<br/> 13 this? Do you wish to see cost effective<br/> 14 space heating technology in operation at<br/> 15 several sites currently being monitored and<br/> 16 producing excellent cost effective results?<br/> 17 Do you intend to question any utility<br/> 18 officials on the conservation plan during<br/> 19 these proceedings; if so, what concerns or<br/> 20 clarifications are you seeking? Mr. Johnson<br/> 21 replied by email, "We intend to ask questions<br/> 22 pertaining to this area". I questioned him<br/> 23 further, "Can you advise the number of phone<br/> 24 calls, e-mails, or letter approximately that</p> | <p>1 program accessibility to reach a broader<br/> 2 scope of customers, not just those with<br/> 3 electric heat. The biggest expansion is in<br/> 4 the small technologies program for<br/> 5 residential consumers to help customers lower<br/> 6 their electricity bills. By the end of 2014,<br/> 7 annual gross energy savings are forecast to<br/> 8 be 49.5 gigawatt hours and 9.5 million annual<br/> 9 avoided cost of fuel at Holyrood. The plan<br/> 10 cost will increase from 3 million to 4.8<br/> 11 million. To put this in perspective, the<br/> 12 break even point on the cost will be two and<br/> 13 a half years. To summarize, we feel that we<br/> 14 have been successful in responding to<br/> 15 consumers primary concerns of reliability and<br/> 16 price. We believe this is reflected in our<br/> 17 annual satisfaction index shown on the<br/> 18 company's evidence, which shows customer<br/> 19 satisfaction has been relatively stable from<br/> 20 2007 to 2011". Later Mr. Johnson, our<br/> 21 consumer advocate, asked Mr. Smith, "The five<br/> 22 year conservation plan for 2012 to 2016, the<br/> 23 insulation program has resulted in the<br/> 24 highest amount of energy savings of all the</p>                |
| Page 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Page 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>1 you received from residential or commercial<br/> 2 customers opposing the rate increase. Does<br/> 3 Newfoundland Power use the cost of Holyrood<br/> 4 oil at 18.9 cents per kilowatt hour or a<br/> 5 lower number to evaluate customer efficiency<br/> 6 options". I asked further, "Is there a date<br/> 7 when the conservation plan will be discussed<br/> 8 at the hearing". Mr. Johnson replied, "I<br/> 9 would expect that Newfoundland Power Vice<br/> 10 President of Operations will testify Thursday<br/> 11 or Friday. Hope this helps". Mr. Johnson<br/> 12 avoided answering my questions and concerns,<br/> 13 but I had hoped he would address these with<br/> 14 Newfoundland Power at the proceedings.<br/> 15 Hereto, I was disappointed. By the courtesy<br/> 16 of the PUB, I have read the testimony on this<br/> 17 subject which I summarize as follows. Mr.<br/> 18 Kelly to Mr. Smith, "Are there examples of<br/> 19 how Newfoundland Power responds to the<br/> 20 evolving customer expectations". Mr. Smith<br/> 21 responds, "They want to conserve energy and<br/> 22 lower their electricity bills. We've<br/> 23 responded to this with energy conservation<br/> 24 programs. The primary change is to improve</p>      | <p>1 programs to upgrade insulation in basements,<br/> 2 attics, and the consumer awareness of it<br/> 3 being the biggest contributor to the total<br/> 4 energy reductions, with total savings over<br/> 5 that period of nearly 33,000 megawatt hours<br/> 6 from 2009 to 2012, at a cost of 4.2 million,<br/> 7 and that 42 percent of the cost of the<br/> 8 program is giving 57 percent on the savings.<br/> 9 Now with new house standards by St. John's,<br/> 10 basement insulation, exterior windows and<br/> 11 that sort of this, is within their<br/> 12 jurisdiction, and the National Building Code<br/> 13 implemented those new standards for homes<br/> 14 built in Canada. So Newfoundland Power and<br/> 15 Newfoundland Hydro no longer has to incent<br/> 16 for new homes covered by codes. I see the<br/> 17 forecast conservation operating cost for 2012<br/> 18 to 2014 is going down from 659 to 589 to<br/> 19 514", and these are all actually in hundreds<br/> 20 of thousands of dollars. I would like you to<br/> 21 comment. It seems to produce these savings<br/> 22 in energy which would most directly impact<br/> 23 people's bills, and we know that you don't<br/> 24 have to spend so much as you need in terms of</p> |

| Page 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Page 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 the new construction, but you still have the</p> <p>2 existing stock out there, and I'm curious as</p> <p>3 to why we will bring down the spending on</p> <p>4 insulation and perhaps not enhance it to</p> <p>5 target the existing housing stock". Mr.</p> <p>6 Smith says, "It's a reflection of we're</p> <p>7 bringing down the numbers". Mr. Johnson</p> <p>8 says, "But in terms of payback, about four to</p> <p>9 five year payback, it seems to me to be a</p> <p>10 pretty good bang for the buck relative to</p> <p>11 some other initiatives". Smith replies,</p> <p>12 "Bang for the buck? I mean, all of the</p> <p>13 programs we do, windows, thermostats, and the</p> <p>14 new programs, they all have a bang for the</p> <p>15 buck, so to speak, or a payback type of</p> <p>16 thing. Insulation is certainly one of them</p> <p>17 that consumers have expressed interest in the</p> <p>18 past, but, you know, the other programs,</p> <p>19 thermostats and windows have also shown", and</p> <p>20 Mr. Johnson says again, "It has been assessed</p> <p>21 as to whether it does, in fact - has it been</p> <p>22 assessed as to whether it does, in fact,</p> <p>23 provide a greater bang for the buck and some</p> <p>24 of the other measures that are put forward as</p> | <p>1 customers interested to reach out beyond</p> <p>2 those that just happen to have electric heat.</p> <p>3 You might say that it's a bit of a fairness</p> <p>4 issue that all customers should have a chance</p> <p>5 to participate, you know, and that's the</p> <p>6 genesis of that program we're doing. It's</p> <p>7 about making a program that qualifies for all</p> <p>8 the customers and, you know, that's the new</p> <p>9 direction we're going in, and that will have</p> <p>10 to be promoted differently and dealt with</p> <p>11 differently, yes". Johnson says, "Are there</p> <p>12 targets for 2012 to 2013 that we want to have</p> <p>13 "x" amount of our customers in the existing</p> <p>14 housing stock, for instance, take advantage</p> <p>15 of the insulation rebate? Is that done like</p> <p>16 that". Smith says, "We have targets for the</p> <p>17 overall impact of the program, but the</p> <p>18 individual level, I just don't remember</p> <p>19 them". Johnson says, "Can you find out if</p> <p>20 there are individual targets for update for</p> <p>21 the residential offerings. Do you see what</p> <p>22 I'm saying". Smith says, "Yes, yes. Not</p> <p>23 just gigawatt hours, you mean the number of</p> <p>24 participants more so". Johnson says, "Yes,</p> |
| Page 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Page 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>1 part of the residential program". Smith</p> <p>2 replies, "Each of these have their own test</p> <p>3 mechanisms to ensure that there is a payback,</p> <p>4 and the insulation has a good payback, yes".</p> <p>5 Johnson asks, "Now that we don't have the new</p> <p>6 housing stock, reaching out to existing</p> <p>7 housing stock, is there any of that done".</p> <p>8 Smith says, "Yes, we reach out in different</p> <p>9 ways, TV advertising, website, gets equal</p> <p>10 billing with windows and thermostats".</p> <p>11 Johnson says, "Ads are good. Is there any</p> <p>12 more direct reach out to individual</p> <p>13 households to say, look, have you considered</p> <p>14 this".</p> <p>15 (10:30 a.m.)</p> <p>16 Johnson(sic) replies, "A way to try to</p> <p>17 answer, I guess, we're trying to appeal to a</p> <p>18 broader group of our customers, not just the</p> <p>19 electric heat customers, and it's in the</p> <p>20 genesis, I guess, of our new small technology</p> <p>21 program going forward that this program will</p> <p>22 have to go through a different type of</p> <p>23 promotion and advertising and things, we're</p> <p>24 going to make a broader group of our</p>                                                                              | <p>1 particularly the insulation and windows.</p> <p>2 That's what I was driving at. Were there any</p> <p>3 such targets". Smith says, "Again I don't</p> <p>4 know of any such targets by program for</p> <p>5 gigawatt hours or for participants, but I</p> <p>6 think we track it by these categories. I</p> <p>7 just don't know it". Johnson says, "If you</p> <p>8 could undertake to provide what the targets</p> <p>9 are, and in terms of the impact that</p> <p>10 customers want conserve energy and lower</p> <p>11 their bills, and from your experience, you</p> <p>12 spoke about the small technologies being</p> <p>13 successful on the aggregate basis and that's</p> <p>14 a good thing. In terms of the ability of the</p> <p>15 consumer to influence his or her own bill the</p> <p>16 most, would it be fair to say that it would</p> <p>17 be the insulation one". Smith says, "I</p> <p>18 guess. Insulation, unlike a CFC light bulb</p> <p>19 where the savings would be smaller, you would</p> <p>20 think insulation would get more benefit. I</p> <p>21 think it's logical with insulation, yes".</p> <p>22 There ended the evidence for the customer</p> <p>23 conservation plan. How enlightening was</p> <p>24 this? It was hard for Mr. Smith to admit</p>                       |

| Page 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 that insulation was superior to the CF</p> <p>2 lights, with answers, “I guess, you would</p> <p>3 think”, and finally, “It is logical”, but eve</p> <p>4 then no admission of how ineffective the CFL</p> <p>5 lights really are for saving electricity in</p> <p>6 our location and climate, and too, regular</p> <p>7 customers know how effective insulation is,</p> <p>8 as does MR. Johnson. So why was it so hard</p> <p>9 for Mr. Smith to admit this. He is an</p> <p>10 electrical engineer, who one might expect</p> <p>11 should readily know and admit this, or is it</p> <p>12 that this power distribution company lacks</p> <p>13 expertise on energy efficiency options for</p> <p>14 the customer. In summary, Mr. Smith</p> <p>15 reluctantly concedes that insulation is</p> <p>16 better than the CFC lights to save customers</p> <p>17 money, and also concedes that new housing</p> <p>18 codes free up program costs for insulation</p> <p>19 that could be redirected to older houses, yet</p> <p>20 Mr. Smith says this will not happen. He says</p> <p>21 we should move from helping owners of</p> <p>22 electrically heated houses to others, all in</p> <p>23 the name of fairness to all customers, and</p> <p>24 that new savings will be made through small</p> | <p>1 behalf of the rate payers. While being</p> <p>2 subjected to high rate increases, the single</p> <p>3 most beneficial aspect of the meagre</p> <p>4 conservation plan, the insulation measure was</p> <p>5 being scaled back 22 percent from 2012, and</p> <p>6 50 percent from 2011, the overall result</p> <p>7 being to leave the customers and the Board</p> <p>8 unenlightened as to what could be possible in</p> <p>9 savings and cost reductions from many</p> <p>10 efficient large technology programs. The new</p> <p>11 direction, in fact, is the same as the old</p> <p>12 direction, only worse. The old plan is a</p> <p>13 genesis for the new one, more near useless</p> <p>14 small technology incentives that ignore</p> <p>15 proven large technology incentives, and they</p> <p>16 ignore verification of savings and it spends</p> <p>17 lots on advertising and planning, it is a</p> <p>18 strategy of small savings for the customer to</p> <p>19 keep energy sales robust. A strategy to</p> <p>20 benefit shareholders of Newfoundland Power’s</p> <p>21 parent company, Fortis, and almost nothing to</p> <p>22 do for the customers, and a strategy to</p> <p>23 justify very expensive new generation and</p> <p>24 distribution assets. “Aggregate savings, a</p> |
| Page 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p>1 technology items through the principle of</p> <p>2 aggregate savings. Yes, aggregate savings,</p> <p>3 as in the old plan, aggregate savings which</p> <p>4 Johnson says is a good thing, there ended the</p> <p>5 full discussion on conservation, not even a</p> <p>6 commitment to target insulation for older</p> <p>7 stock houses. Not a word spoken about the</p> <p>8 new specific small technologies being</p> <p>9 consider. Not a word about concept plans for</p> <p>10 efficient heating. Not a word about air</p> <p>11 infiltration issues, given that we live in</p> <p>12 one of the windiest areas in the world. Not</p> <p>13 a word about the interactive effects in the</p> <p>14 Marbek Report that was used as a guide by</p> <p>15 Newfoundland Power for efficiency savings,</p> <p>16 and which puts to question much, if any,</p> <p>17 benefit of CFC lights. Not a word about</p> <p>18 comparing our achievements with other</p> <p>19 jurisdictions, and not a word about other</p> <p>20 concerns I had raised. In my opinion, this</p> <p>21 was a spectacle, and more joke, a love fest</p> <p>22 between the company and the consumer</p> <p>23 advocate. It was an abandonment of</p> <p>24 responsibility by the consumer advocate on</p>                    | <p>1 good thing”, that’s a question. Those were</p> <p>2 the words of our consumer advocate, Mr. Tom</p> <p>3 Johnson, to Newfoundland Power’s Vice</p> <p>4 President, Mr. Smith, but not as a question,</p> <p>5 but an affirmation in regard to whether small</p> <p>6 technology measures would be evaluated. So</p> <p>7 what is aggregate savings and is it a good</p> <p>8 thing? For a saving measure, for example,</p> <p>9 insulation, it is durable and long lasting.</p> <p>10 Once installed, it can save energy each year</p> <p>11 going forward. Assume a system uses 100</p> <p>12 units of energy per year, and an efficiency</p> <p>13 measure saves just one unit, 1 percent of the</p> <p>14 energy when it’s installed. You save 1</p> <p>15 percent in year one, 1 percent in year two, 1</p> <p>16 percent in year three, and so on. Adding</p> <p>17 these each year gives an aggregate amount.</p> <p>18 So the aggregate amount keeps increasing,</p> <p>19 even if no further saving measure is</p> <p>20 implemented. If further measures are taken,</p> <p>21 then these again are added as making a</p> <p>22 contribution each year. It is clear that</p> <p>23 using this method gives rise to a large</p> <p>24 number in terms of aggregate savings. For</p>         |

| Page 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Page 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 the example shown with a single efficiency<br/> 2 measure of one unit after 100 years, we get<br/> 3 an aggregate saving of 100 units. So in 100<br/> 4 years our aggregate saving of 100 units now<br/> 5 equals our consumption of 100 units. If you<br/> 6 plot it on a chart, it appears the savings<br/> 7 equals the consumption. The savings appear<br/> 8 tremendous. Let's look at the chart on<br/> 9 Appendix A. Can we bring up that? If we<br/> 10 look at that, we're on a time frame on the<br/> 11 bottom line is ten years, and we show<br/> 12 consumption of 10 units on the left hand<br/> 13 side, and at year one, you do a measure that<br/> 14 takes off one unit, which is 10 percent in<br/> 15 this case, and you can see up at the top your<br/> 16 consumption drops down from 10 to 9, and then<br/> 17 continues on after that at a consumption of 9<br/> 18 because there's no further measures taken.<br/> 19 If you look at the bottom, you save your one<br/> 20 unit of energy in year one. In year two, you<br/> 21 save another unit. So in an aggregate sense<br/> 22 in year two, we're now up to two units of<br/> 23 saving. Year three, three units and so on<br/> 24 and you get that ladder effect that just by</p> | <p>1 aggregate consumption. So on that basis, the<br/> 2 1 percent savings holds up, and likewise for<br/> 3 each year. So if we say aggregate savings is<br/> 4 a good thing, so it may be, but it is also<br/> 5 bad in terms of representing the real<br/> 6 progress of savings. To see meaningful<br/> 7 progress in energy savings, we need to see<br/> 8 the incremental savings, the new added<br/> 9 savings in subsequent years. So incremental<br/> 10 savings, not aggregate savings, should be the<br/> 11 yardstick to measure progress and<br/> 12 achievements. To do otherwise is to confuse<br/> 13 and mislead the extent of the achievement. I<br/> 14 submit that aggregate savings as a measure of<br/> 15 success of energy savings is, therefore, a<br/> 16 bad thing, and if one wants to compare apples<br/> 17 with apples, one could compare aggregate<br/> 18 savings with aggregate cost increase for<br/> 19 power. There we would see a \$360.00 increase<br/> 20 in year one gives an aggregate increase of<br/> 21 \$3600.00 over ten years.<br/> 22 (10:45 a.m.)<br/> 23 To see the incremental savings from our 2009<br/> 24 to 2012 conservation plan, we have to</p>                                                             |
| Page 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Page 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>1 year nine, you have aggregate savings of<br/> 2 nine, which takes you up to where your<br/> 3 consumption is, and that just looks<br/> 4 marvellous because you get the impression<br/> 5 that you're saving a lot of energy. You<br/> 6 aggregate savings is now up to your<br/> 7 consumption, and if you keep going a few more<br/> 8 years, your aggregate savings actually<br/> 9 consumes and will continue to exceed your<br/> 10 consumption. So this is the method that's<br/> 11 being used in the analysis to reflect what<br/> 12 savings we're achieving. There's another<br/> 13 method where you look at your incremental<br/> 14 savings, what you do each year, but this is<br/> 15 the method being used and this is the method<br/> 16 that Mr. Johnson refers to as being a good<br/> 17 thing. Of course, we know that in reality we<br/> 18 have saved only 1 percent throughout, and 1<br/> 19 percent is very little. Such is the illusion<br/> 20 of aggregate savings. If instead we plotted<br/> 21 aggregate savings against aggregate<br/> 22 consumption, then the real savings would be<br/> 23 apparent. In year two, we would get two<br/> 24 units of aggregate savings and 200 units of</p>                                   | <p>1 calculate the incremental savings. We get<br/> 2 this. If we look at the aggregate savings<br/> 3 and the incremental for 2009, which was the<br/> 4 first year, and this is in gigawatt hours, we<br/> 5 get 2.6 and the incremental is 2.6. In the<br/> 6 following year, the aggregate is 7.7, but the<br/> 7 incremental is only 5.1. In the third year,<br/> 8 the aggregate is 19.8, and the incremental is<br/> 9 12.1. In the next year, the aggregate is<br/> 10 28.1, the incremental is 8.3. In the next<br/> 11 year, which is 2013, the aggregate is 36.7,<br/> 12 but the incremental is still only 8.7. The<br/> 13 final year, 2014, the aggregate is 49.5, and<br/> 14 the incremental is 12.1. Now we can add up<br/> 15 the total aggregate and the total<br/> 16 incremental, and we see the total aggregate<br/> 17 is 144.4, and the gross incremental is 48.9.<br/> 18 So the 49.5 gigawatt hours referred to by Mr.<br/> 19 Smith as the aggregate amount by 2014 is in<br/> 20 reality for that year 12.1 new incremental<br/> 21 savings, which is the same amount that was<br/> 22 saved in 2011, and the gross aggregate for<br/> 23 the six years is 144, whereas the gross<br/> 24 incremental is 48.9. The incremental is only</p> |

| Page 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Page 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 1/3rd of the value of the aggregate. A key<br/> 2 question is what is the dollar value of an<br/> 3 incremental saving to a residential customer.<br/> 4 We know that a kilowatt hour is 1000 watts<br/> 5 operating for one hour. It is currently<br/> 6 billed at 11.1 cents. A gigawatt hour is a<br/> 7 billion watts operating for one hour. It is<br/> 8 one billion watt hours or one million<br/> 9 kilowatt hours. At a price of 11.17 cents,<br/> 10 the value of one gigawatt hour is<br/> 11 \$111,700.00. For 2013 for new incremental<br/> 12 system saving of 8.7 gigawatt hours, this<br/> 13 will be \$971,790.00 of new savings across the<br/> 14 whole island. With about 270,000 customers,<br/> 15 including commercial, this is an average of<br/> 16 \$3.60 per customer. As most savings are in<br/> 17 residential, an electric heated house uses<br/> 18 more electricity than others, it will give<br/> 19 about \$5.00 in new savings for them, and a<br/> 20 lesser amount for a non-electric heated<br/> 21 house. So new savings for 2013 can be<br/> 22 expected to be \$5.00 for an average electric<br/> 23 heated house. Perhaps now we see why<br/> 24 Newfoundland Power prefers to use the</p>                     | <p>1 submit that an engineer with knowledge of<br/> 2 energy efficiency and efficiency technology<br/> 3 should not sign off on such a proposal. I<br/> 4 would submit that an advocate of the consumer<br/> 5 should never have accepted this plan, and<br/> 6 should have questioned and sought or accepted<br/> 7 advice as to what is going on. I would ask,<br/> 8 is not the consumer advocate aware of what<br/> 9 other jurisdictions are achieving for their<br/> 10 consumers. Let us look at this plan some<br/> 11 more. Energy savings compared to energy<br/> 12 sales. A good and easy way to see and<br/> 13 appreciate the magnitude of the new yearly<br/> 14 incremental savings using gigawatt hours as<br/> 15 the yardstick is to view the savings as a<br/> 16 percentage of the system power sales. These<br/> 17 are residential sales of power in<br/> 18 Newfoundland and the savings are most all<br/> 19 residential. In 2012, the sales were 3,472<br/> 20 gigawatt hours. Our incremental new savings<br/> 21 were 8.3 gigawatt hours. The percentage in<br/> 22 terms of our sales is 2/10ths of 1 percent.<br/> 23 For 2013, the sales are 3,520 gigawatt hours.<br/> 24 The new savings, 8.7. Again it's 2/10ths of</p> |
| Page 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Page 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>1 aggregate kilowatt hours. It just sounds so<br/> 2 huge. Mr. Johnson concurs with Newfoundland<br/> 3 Power saying aggregate savings is a good<br/> 4 thing. Newfoundland Power say their plan is<br/> 5 a reasonable one, and a reasonable response<br/> 6 to the consumer's desire to lower energy<br/> 7 bills. An average electric heated house<br/> 8 using about 22,000 kilowatt hours per year<br/> 9 will see an increase of \$302.00 from last<br/> 10 July to this July. This increase has a built<br/> 11 in conservation offset of \$5.00. This shows<br/> 12 that within one year the cost jumps 60 times<br/> 13 the rate of the new conservation saving. I<br/> 14 believe that \$302.00 is an error that I may<br/> 15 have corrected elsewhere. I think it comes<br/> 16 up to \$363.00, if I'm correct. Does anyone<br/> 17 besides Newfoundland Power, Newfoundland<br/> 18 Hydro, and our consumer advocate, feel that<br/> 19 this is a reasonable and a good plan. Is<br/> 20 this leadership in creating a culture of<br/> 21 conservation. I would submit that this plan<br/> 22 is shameful and shows a disregard for the<br/> 23 consumer, both the residential and the<br/> 24 commercial who are the rate payers. I would</p> | <p>1 1 percent. In 2014, the sales are 3,545.<br/> 2 The incremental is 12.1, so that shows<br/> 3 3/10ths of 1 percent. It should be noted<br/> 4 that the savings are so small that it<br/> 5 produces no net reduction in overall sales.<br/> 6 Instead the sales actually climbs 1 percent<br/> 7 or more per year. By 2014, the savings<br/> 8 includes commercial and industrial. So the<br/> 9 residential alone, the percentage remains at<br/> 10 2/10ths of 1 percent, in part from a<br/> 11 reduction in house insulation measures. Now<br/> 12 let's look at energy spending compared to<br/> 13 energy sale revenue. A good and easy<br/> 14 understood way to appreciate the progress of<br/> 15 the conservation effort is to look at what<br/> 16 percent of the revenue is actually fed back<br/> 17 to the consumer in terms of conservation<br/> 18 spending. We get this. In 2013, sales are<br/> 19 to be 602 million dollars. Conservation<br/> 20 spending, 3.4 million. That is 6/10ths of 1<br/> 21 percent. In 2014, sales to be 619 million.<br/> 22 Conservation plan spending, 4.2 million.<br/> 23 That is 7/10ths of 1 percent. So let's<br/> 24 compare with other utilities that have</p>                               |

| Page 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Page 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 progressive conservation plans. In terms of<br/> 2 spending as a percentage of sales revenue,<br/> 3 many utilities such as Vermont,<br/> 4 Massachusetts, British Columbia, spend in<br/> 5 excess of 3 percent of revenues, with some<br/> 6 exceeding 4 percent. So many other utilities<br/> 7 are spending five to six times more. In<br/> 8 terms of energy savings, many utilities are<br/> 9 saving 2 percent and some are exceeding this<br/> 10 as compared to our 2/10ths of 1 percent.<br/> 11 This is a tenfold or better saving<br/> 12 performance than what we are achieving. Our<br/> 13 performance is far worse on energy savings<br/> 14 than on spending. This suggests much<br/> 15 inefficiencies in program planning,<br/> 16 selection, promoting, delivery, and<br/> 17 verification. So is our program reasonable to<br/> 18 meet customer expectations. This can be<br/> 19 answered in one word; no. It is nothing but<br/> 20 a dismal failure, and who would want to<br/> 21 defend it, and if a \$5.00 per year<br/> 22 conservation saving is not sufficient insult<br/> 23 to the rate payers, consider this; what would<br/> 24 be the effect if for four months of winter a</p> | <p>1 the thermal generation was 9.8 cents per<br/> 2 kilowatt hour, which reflected oil prices.<br/> 3 Program measures that saves sufficient energy<br/> 4 to offset the oil cost could meet the test as<br/> 5 an economic measure. Since then oil costs<br/> 6 have risen to the present level of about 18.9<br/> 7 cents. Technology measures that were<br/> 8 marginally beneficial then, in many cases are<br/> 9 very beneficial now as some technologies have<br/> 10 had substantial reductions in cost. Our oil<br/> 11 consumption now costs in excess of 100<br/> 12 million dollars per year, yet conservation<br/> 13 program spending to offset fuel costs is only<br/> 14 at the 4 to 5 million dollar level. What is<br/> 15 an appropriate level to spend on conservation<br/> 16 and efficiency. Expert advice to our last<br/> 17 plan had findings on this from the Marbek<br/> 18 study. Here is what that study said on page<br/> 19 136, "A review of the US and Canadian<br/> 20 jurisdictions concluded that the annual CDM<br/> 21 expenditures is about 1.5 percent of annual<br/> 22 electricity revenues, and that might be<br/> 23 appropriate for a utility in the early<br/> 24 stages". So right now we've had a five year</p> |
| Page 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Page 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>1 homeowner puts 6 mil plastic over just one 4<br/> 2 by 4 bedroom double paned R-2 window and so<br/> 3 make it R-4. In four months, this saves<br/> 4 about \$18.00 on electricity, almost four<br/> 5 times the conservation plan. Plastic for a<br/> 6 window as small as three foot by two foot<br/> 7 would match the conservation plan. The<br/> 8 Newfoundland plan consumes over a million<br/> 9 dollars per year in engineering, planning,<br/> 10 administration, and advertising.<br/> 11 MS. GLYNN:<br/> 12 Q. Mr. Adams, I don't mean to interrupt you, but<br/> 13 I did forget to mention at the outset that if<br/> 14 you wanted to take a break, you can just let<br/> 15 us know at any time.<br/> 16 MR. ADAMS:<br/> 17 Q. I think I'll continue on, if that's okay.<br/> 18 Let's look at the benefit of the conservation<br/> 19 and energy efficiency plan to rate payers.<br/> 20 The Newfoundland electricity source is about<br/> 21 85 percent low cost hydro generation. About<br/> 22 12 percent is oil fired thermal generation.<br/> 23 In 2008, when the first multi-year<br/> 24 conservation plan was planned, the cost of</p>                                                    | <p>1 plan and we're still into expenditures of<br/> 2 about 6/7ths of 1 percent or 7/10ths of 1<br/> 3 percent. We're still significantly below 1<br/> 4 percent of the revenue spending, but even<br/> 5 back then in this study in 2007, I think it<br/> 6 was, they refer to 1.5 percent being<br/> 7 appropriate for a utility in the early<br/> 8 stages, and in that it takes time to properly<br/> 9 introduce programs into the marketplace, and<br/> 10 that once program delivery experience is<br/> 11 gained, a ramping up to a level of about 3<br/> 12 percent of annual electricity sales is<br/> 13 appropriate, and that higher percentages may<br/> 14 be warranted if rapid growth in electricity<br/> 15 demand is expected or if there's an<br/> 16 increasing gap between demand and supply.<br/> 17 Climate change mitigation measures will<br/> 18 probably also fall into a similar category of<br/> 19 potential measures. Even those states with 3<br/> 20 percent of annual revenues have found that<br/> 21 there were most cost effective CDM<br/> 22 opportunities that could be met by the 3<br/> 23 percent funding. British Columbia Hydro over<br/> 24 the past few years have been at about a 3.3</p>                        |

| Page 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Page 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 percent of electricity revenues. However,</p> <p>2 the results of BC Hydro's recently completed</p> <p>3 study, the conservation potential review of</p> <p>4 2007 identified over 20,000 gigawatt hours of</p> <p>5 remaining cost effective CDM opportunities by</p> <p>6 2026. The magnitude of remaining cost</p> <p>7 effective CDM opportunities combined with the</p> <p>8 aggressive targets set out in British</p> <p>9 Columbia's provincial energy plan suggest</p> <p>10 that BC Hydro's future expenditures are</p> <p>11 likely to increase significantly if the new</p> <p>12 targets are to be met. As to the approach of</p> <p>13 spending levels for conservation and</p> <p>14 efficiency, the key issue is resolving the</p> <p>15 trade off between wanting to procure all cost</p> <p>16 effective measures and the concerns about</p> <p>17 results of short term effect on rates, and</p> <p>18 that based on findings from an integrated</p> <p>19 resource plan, a benefit cost assessment</p> <p>20 tends to accept whatever rate effects are</p> <p>21 necessary to secure the overall resource</p> <p>22 plan, inclusive of the cost effective energy</p> <p>23 efficiency measures.</p> <p>24 (11:00 a.m.)</p>                                    | <p>1 instead of \$5.00 from the proposed plan. My</p> <p>2 analysis shows that savings on yearly bills</p> <p>3 in Newfoundland can be 30 percent, and,</p> <p>4 therefore, higher than in the USA. It is</p> <p>5 clear that our power companies have failed to</p> <p>6 take advantage of efficiency opportunities.</p> <p>7 Funding conservation and efficiency at 5</p> <p>8 million per year, while consuming over 100</p> <p>9 million dollars of oil at Holyrood, attest to</p> <p>10 this failure. We have missed several years</p> <p>11 of opportunities for aggressive measures.</p> <p>12 The analysis attached shows that we have cost</p> <p>13 effective efficiency opportunities to offset</p> <p>14 four times the current production of</p> <p>15 Holyrood. It can be achieved at modest cost</p> <p>16 and at long term reduction in cost for rate</p> <p>17 payers. It requires targeting the large</p> <p>18 scale technologies for space heating, hot</p> <p>19 water, air infiltration, and more efforts in</p> <p>20 insulation and more efficient windows. Small</p> <p>21 technology items envisioned by the present</p> <p>22 plan will be like CFC lights, almost no</p> <p>23 impact to reduce energy costs to rate payers.</p> <p>24 Let us look at the cost effective large scale</p>            |
| Page 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Page 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>1 I'll just restate that last sentence. It</p> <p>2 says, "Regardless of the short term effect on</p> <p>3 rates, as long as the measure is cost</p> <p>4 effective, it is necessary and appropriate to</p> <p>5 go after those opportunities". The large</p> <p>6 scale study in the United States, the</p> <p>7 McKinley Report in 2008 can explain this</p> <p>8 further. They found that energy efficiency</p> <p>9 measures are 1/3rd cheaper than any source of</p> <p>10 new generation, and that it can delay and</p> <p>11 offset new generation sources as well as</p> <p>12 reduce expenses for electrical distribution</p> <p>13 assets, and the key finding was that an 8</p> <p>14 percent increase in rates to fund the 50</p> <p>15 percent rate rebate to customers for</p> <p>16 efficiency improvements would actually save</p> <p>17 customers 24 percent on their energy bills,</p> <p>18 and that is because of reduced energy</p> <p>19 consumption. Since that finding, many more</p> <p>20 jurisdictions have signed onto aggressive</p> <p>21 efficiency plans. Applying the McKinley</p> <p>22 findings to Newfoundland would result in an</p> <p>23 average electric heated home having yearly</p> <p>24 cost reductions of over \$600.00 per year</p> | <p>1 efficiency measures. It is logical that to</p> <p>2 make meaningful gains in energy savings, one</p> <p>3 must assess the opportunities for those</p> <p>4 products that consume energy on a large</p> <p>5 scale. Meaningful savings cannot be achieved</p> <p>6 from thermostats, nor from small energy items</p> <p>7 or efficient appliances like refrigerators or</p> <p>8 CFL lights, which shift most of the savings</p> <p>9 to increase the heating load. The Marbek</p> <p>10 Report calls it an interactive effect, saying</p> <p>11 it reduces the saving by 60 percent, and for</p> <p>12 our climate, in my opinion, probably reduces</p> <p>13 it 90 percent. Can we bring up page 99 of</p> <p>14 the Marbek Report? On the bottom there it</p> <p>15 refers to the interactive effects, and a</p> <p>16 little further down, it says, "Measures that</p> <p>17 reduce the internal heat loads produced by</p> <p>18 lighting and appliances tends to increase the</p> <p>19 need for space heating", and right at the top</p> <p>20 of the page they get into this interaction -</p> <p>21 I think it must be the prior page 98, and</p> <p>22 right at the top of the page, they say, "A</p> <p>23 ratio of 0.6 has been incorporated into the</p> <p>24 model to account for this uncertainty". Now</p> |

| Page 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Page 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 what that .6 factor is, is that it says that<br/> 2 if you put in an efficient compact light or<br/> 3 if you get a refrigerator that uses half the<br/> 4 energy, and your light fixture on the label<br/> 5 will typically show you that you're saving 75<br/> 6 percent energy, but this interaction effect<br/> 7 says that at least 60 percent of that is lost<br/> 8 because it gets transferred, it adds to your<br/> 9 heating requirements. Your baseboard heater<br/> 10 has got to stay on longer to compensate for<br/> 11 the lesser energy that these units are<br/> 12 putting out, and so it's just a shifting of<br/> 13 load from lighting or appliance onto the<br/> 14 heating. It increases your heating load, and<br/> 15 that factor of 60 percent of it being lost, I<br/> 16 would suggest that it's more like 90 percent<br/> 17 being lost, and that it's an almost entirely<br/> 18 useless application for our climate, but it<br/> 19 works great in southern climates where they<br/> 20 have air conditioning problems. You save<br/> 21 most of the energy from appliances and lights<br/> 22 in Florida, but in Newfoundland, with our<br/> 23 heating seasons going 10, sometimes 11<br/> 24 months, most all of the energy from that is</p> | <p>1 be re-evaluated based on the present day<br/> 2 costs, and you've got situations where the<br/> 3 cost has gone up substantially, and some<br/> 4 technologies have gone down quite a bit. So<br/> 5 there's a need to re-evaluate the products<br/> 6 that are being used to assess it on those new<br/> 7 costs, and it would appear to me that those<br/> 8 changes and the impacts would be anything but<br/> 9 modest, as it shows here - as it suggests<br/> 10 here. I guess, that was an opinion that was<br/> 11 made in 2008, I guess. Our large scale<br/> 12 energy users are these. For an electric<br/> 13 heated house, space heating consumes 69<br/> 14 percent of our energy, and hot water 11<br/> 15 percent. Older housing stock has air leakage<br/> 16 of five air changes per hour compared to new<br/> 17 codes having only 1.5. Air leakage is a huge<br/> 18 cost effective efficiency opportunity, and it<br/> 19 is being ignored. It is more significant for<br/> 20 Newfoundland, as we have one of the windiest<br/> 21 - one of the highest average wind areas in<br/> 22 the world. Consider a 1200 square foot house<br/> 23 with a air leakage of 5 air changes per hour.<br/> 24 In winter with 15 degree Fahrenheit outdoor</p> |
| Page 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Page 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>1 lost. While we got that page up, there's<br/> 2 another - there's an issue here on<br/> 3 sensitivity analysis concerning avoided cost,<br/> 4 and the avoided cost is how you assess an<br/> 5 energy saving measure and you compare it to<br/> 6 the cost of oil at Holyrood. So a lot of the<br/> 7 calculations that were done to choose items,<br/> 8 you looked at the cost - which back in<br/> 9 2007/2008, the cost of oil was 9.8 cents. So<br/> 10 if you could offset the cost of oil, it was<br/> 11 an okay measure. Now it refers here to the<br/> 12 development of the DC link, and it says, "The<br/> 13 sensitivity analysis reviewed the scope of<br/> 14 measures that would pass or fail the economic<br/> 15 screen under the changed avoided cost. Based<br/> 16 on the preliminary avoided cost values<br/> 17 assessed, the analysis concluded that any<br/> 18 impacts would be modest". Now I guess you<br/> 19 have to define modest. Since then our oil<br/> 20 cost at Holyrood has gone from 9.8 up to<br/> 21 18.9. The DC link, as I understand it, the<br/> 22 cost will exceed 20 cents. So the avoided<br/> 23 cost when you're looking at what options you<br/> 24 would use for energy savings, this should all</p>                      | <p>1 temperature, and in high winds, it takes 14<br/> 2 kilowatts of heat to warm that cold air. A<br/> 3 reduction to 3 air changes saves 5.6<br/> 4 kilowatts. New generation capacity will cost<br/> 5 about \$15,000.00 per kilowatt. That house<br/> 6 leakage will involve a capital investment of<br/> 7 about \$84,000.00 for new generation. The<br/> 8 Marbek Report in 2008 showed that air sealing<br/> 9 would cost about \$1,000.00 per house. For<br/> 10 peak demand reduction, 100,000 houses with<br/> 11 air sealing gives 570 megawatt reduction.<br/> 12 That's about 25 percent more than the full<br/> 13 capacity of Holyrood generating station.<br/> 14 This is by far the biggest and one of the<br/> 15 lowest cost measures that we are ignoring,<br/> 16 and the savings on energy assets are an<br/> 17 addition to customer energy savings and<br/> 18 improved comfort.<br/> 19 (11:15 a.m.)<br/> 20 What are the opportunities for space heating<br/> 21 savings. Newfoundland Hydro says they may do<br/> 22 a study on ductless heat pump units. For<br/> 23 now, it is in the concept stage. It is not a<br/> 24 part of the present plan filed in these</p>                                                                          |

| Page 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Page 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 hearings. Their previous plan excluded such<br/> 2 a measure. They could find no cost effective<br/> 3 air source units. Their research was rather<br/> 4 narrow. These units were designed and<br/> 5 developed in Japan in the 1970s. Today<br/> 6 almost all residential units in Asia and<br/> 7 Europe use them. They are now being used<br/> 8 more in the USA, with 300,000 installed by<br/> 9 2010, and being used in Canada. What the<br/> 10 research and evidence shows is this, that<br/> 11 mini split heat pump units reduces heating<br/> 12 for our climate on average 65 percent. They<br/> 13 operate down to a -15 Celsius, with some<br/> 14 models down to a -30 Celsius, and can provide<br/> 15 the full heating requirement without backup<br/> 16 supplemental heat. They are very suitable<br/> 17 for new or older houses. They require no<br/> 18 duct work. One or two indoor wall mounted<br/> 19 heating heads per floor gives excellent<br/> 20 performance and almost complete replacement<br/> 21 for the baseboard heaters. They are 1/3rd of<br/> 22 less the cost of ground source heat pumps and<br/> 23 they are very cost effective especially<br/> 24 against Holyrood cost of 18.9 cents per</p>                    | <p>1 generally were over 44 percent. Performance<br/> 2 at part load was remarkable. Spring and fall<br/> 3 conditions allowed part load operation. The<br/> 4 system performed better than the<br/> 5 manufacturer's ratings. Following the early<br/> 6 success, by 2011 over 11,000 units were<br/> 7 installed. In Connecticut and Massachusetts,<br/> 8 a pilot was conducted in 2007 at 144 sites.<br/> 9 Winters there dip below 0 degrees Fahrenheit.<br/> 10 On average during the heating season, they<br/> 11 saved 2500 kilowatt hours a year. They were<br/> 12 not aimed to cover all the zones, as some<br/> 13 installed only a single head in the main<br/> 14 living space. Average savings were 30<br/> 15 percent, but some exceeded 50 percent. Over<br/> 16 85 percent of participants were satisfied.<br/> 17 The interest was so high that they had to use<br/> 18 a lottery method to select the participants.<br/> 19 Based on the result, they developed an<br/> 20 aggressive ductless heat pump policy to<br/> 21 target regular electric resistant heaters.<br/> 22 Their findings were that the DHPs, that is<br/> 23 ductless heat pumps, the DHPs were a viable<br/> 24 cost effective solution. The results may be</p>  |
| Page 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Page 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>1 kilowatt hour. Their contribution to system<br/> 2 peak demand reduction is huge, and a blessing<br/> 3 to assist the power companies with meeting<br/> 4 the winter peak load. They have been used in<br/> 5 Canada for over ten years, and in<br/> 6 Newfoundland for over eight years. There are<br/> 7 at least over 500 residential installations<br/> 8 and a number of Newfoundland Power employees<br/> 9 have installed them, even if their research<br/> 10 department can't find them. The general view<br/> 11 is that they save significant energy. A key<br/> 12 feature is the inverter technology that<br/> 13 allows variable speed which greatly improves<br/> 14 energy savings. Have there been studies done<br/> 15 to improve the effectiveness of these? My<br/> 16 research shows the following. In the North<br/> 17 West USA, the Bonneville Power Administration<br/> 18 launched a small pilot project in 2007 for<br/> 19 single family homes with 14 units installed<br/> 20 in the living areas. The findings were<br/> 21 these. The average decrease for ten sites<br/> 22 was 3,978 kilowatt hours per year. In the<br/> 23 third year, for seven sites the average was<br/> 24 5,109 kilowatts saving per year. Savings</p> | <p>1 conservative as newer units have even better<br/> 2 performance. Peak saving was 0.3 kilowatts,<br/> 3 not that great as their climate is such that<br/> 4 their peak load is in the summer. Overall<br/> 5 satisfaction was very high with 38 out of 40<br/> 6 giving a 4 or 5 on a 1 to 5 scale. Most<br/> 7 prefer them over baseboard heaters. Comfort<br/> 8 and temperature was superior to the baseboard<br/> 9 heaters. Some seniors needed assistance to<br/> 10 use the gadget, the controller. The<br/> 11 realistic savings on heat energy is expected<br/> 12 to be 40 percent. Pay back can be two to<br/> 13 three years due to the higher electricity<br/> 14 cost in Newfoundland. Incentive programs and<br/> 15 tax credits makes them attractive options.<br/> 16 Benefit to cost ratios range from 2.9 to 7.6,<br/> 17 and that represents the simple return on<br/> 18 investment from the participant's<br/> 19 perspective. They can be a cost efficient<br/> 20 measure and targeting high users maximizes<br/> 21 savings and cost effectiveness. In 2011,<br/> 22 incentives of \$1,000.00 were given for a<br/> 23 single head unit, up from \$500.00 given in<br/> 24 2009, and over 200 contractors were involved.</p> |

| Page 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Page 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 For efficient houses, the ductless units can<br/> 2 serve for whole house heating. Now this is<br/> 3 about a Newfoundland pilot study. This<br/> 4 author commenced a pilot study in 2010. To<br/> 5 date, four sites in four housing styles are<br/> 6 being monitored. At location "A" in Bishop's<br/> 7 Cove, a 1,000 square foot slab on grade<br/> 8 house, 25 years old, upgrades were made to<br/> 9 the shell, plus a single head unit to serve<br/> 10 the whole area. The heat pump installed cost<br/> 11 about \$3,600.00 plus \$700.00 for attic<br/> 12 installation. One year heat reduction is<br/> 13 about 70 percent, which is as good as a<br/> 14 ground source system. This, in part, is due<br/> 15 to the enhanced installation method with the<br/> 16 remote unit installed in the attic instead of<br/> 17 outdoors. Improved efficiency comes from the<br/> 18 solar gain. The heat pump load at cold<br/> 19 conditions of -15 C is 1.6 kilowatts. That's<br/> 20 operating at a coefficient performance of<br/> 21 two. So this would give a contribution to<br/> 22 system peak load reduction of 1.6 kilowatts.<br/> 23 Another unit in Upper Island Cove is a five<br/> 24 year old house - sorry, that's a mistake,</p>   | <p>1 reduction. The January saving alone is about<br/> 2 \$165.00 in value. So yearly savings may go<br/> 3 to \$800.00 or more. The heat pump load<br/> 4 measures at a cold condition of -13 C, that<br/> 5 it used 2.3 kilowatts, and at those<br/> 6 conditions it's operating at a coefficient of<br/> 7 performance at about 2, so this gives a<br/> 8 contribution to the system peak load<br/> 9 reduction of 2.3 kilowatts. Location 3 in<br/> 10 Mount Pearl is a five year old R-2000, three<br/> 11 level house. It's got two heads in the<br/> 12 basement and two on the main level, allowing<br/> 13 heat to rise upstairs. Installed cost about<br/> 14 \$7,500.00. The original baseboard load in<br/> 15 that house is 20 kilowatts. The heat<br/> 16 reduction for this winter is about 30<br/> 17 percent, and I should probably point out in<br/> 18 terms of percentage, you will make better<br/> 19 gains on an older house than on an R-2000<br/> 20 house, but these savings are still<br/> 21 significant. An R-2000 house is highly<br/> 22 insulated and air sealed, so the potential in<br/> 23 percentage-wise is not as great for an R-2000<br/> 24 house. The heat pump load at cold conditions</p> |
| Page 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Page 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <p>1 that should read a 55 year old house. It's<br/> 2 an old house, two storey, two single heads<br/> 3 installed on the main level with the heat<br/> 4 rising upstairs. The installed cost<br/> 5 \$4,500.00. The baseboard in that house had a<br/> 6 load of 11.5 kilowatts. The total house<br/> 7 energy use reduction per the Newfoundland<br/> 8 Power bills, with a copy attached, shows 27<br/> 9 percent in October, 37 percent in November,<br/> 10 37.5 percent in December, and 40 percent in<br/> 11 January. Now these are reductions on the<br/> 12 total house billing. So to get that much on<br/> 13 the total house billing, it suggests that the<br/> 14 heating unit is having reductions that are<br/> 15 exceeding 60 percent on the heating load.<br/> 16 Can we bring up that Appendix B, I think.<br/> 17 Okay, Light and Power conveniently displays<br/> 18 last year's consumption with this year's<br/> 19 consumption on the daily basis. So this is<br/> 20 for the most recent month which actually took<br/> 21 it from mid January until mid January. Last<br/> 22 year the consumption was 109 kilowatt hours<br/> 23 per day, and that's down to 65, and if you do<br/> 24 the arithmetic on that, that's a 40 percent</p> | <p>1 of -16 C was 3.1 kilowatt. Other baseboard<br/> 2 totalled 1.5 kilowatts. The garage was not<br/> 3 covered with this system, and another small<br/> 4 room, so there's a small bit of baseboard<br/> 5 still being used. With the heat unit<br/> 6 operating at coefficient of - COP of 2, it<br/> 7 gives a contribution to system peak load<br/> 8 reduction of 2.1 kilowatts. So you can see<br/> 9 this is actually a larger peak load reduction<br/> 10 than what the other houses are doing and it's<br/> 11 because of the size of the house. So while<br/> 12 the percentage in heat of 30 percent is<br/> 13 lower, being a much larger house, the peak<br/> 14 production contribution is actually more than<br/> 15 the other houses. The fourth location in<br/> 16 Petty Harbour is a small 50 year old house<br/> 17 about 600 square feet with one head installed<br/> 18 at a cost of about \$2,700.00.<br/> 19 (11:30 a.m.)<br/> 20 The heat savings is about 30 percent. The<br/> 21 heat pump load at cold conditions was 0.9<br/> 22 kilowatts, and again with a COP of 2, it<br/> 23 gives .9 kilowatt reduction to system peak<br/> 24 load. If we look at in terms of offset</p>                        |

| Page 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Page 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 against new generation capital cost of about<br/>2 \$15,000.00 per kilowatt, when viewed from<br/>3 that perspective, and I show here for each of<br/>4 those houses the peak saving reduction. For<br/>5 house A, it reduces the peak by 1.6. That is<br/>6 a \$24,000.00 saving in view of capital cost<br/>7 for new generation. For the next one at 2.1<br/>8 kilowatt saving, that's a \$34,000.00 value.<br/>9 For the R-2000 house, knocking down peak<br/>10 demand by 3 kilowatts, that's \$46,000.00, and<br/>11 the smaller one is \$13,000.00. Now the<br/>12 offset value is high compared to what the<br/>13 electric benefit avoided cost would be for<br/>14 Connecticut, say, which uses gas turbine<br/>15 generations. Their kilowatt cost for new<br/>16 generation is probably about \$2,000.00 per<br/>17 kilowatt. If we look at BC Hydro's energy<br/>18 conservation plan, we get numerous incentives<br/>19 for residential and commercial customers. In<br/>20 British Columbia, Fortis BC is a sister<br/>21 company of Newfoundland Power, and Fortis is<br/>22 a partner in this plan and gives incentives<br/>23 for these measures. These measures, I'll go<br/>24 through some of them there. For air sealing</p> | <p>1 all of the programs they're using here<br/>2 because they have programs for gas furnaces<br/>3 and for Energy Star windows and other things,<br/>4 and even for solar heating. There's two<br/>5 sheets there. If you could just show the<br/>6 second one. So they have two full sheets of<br/>7 contributions for residential customers for<br/>8 large scale energy efficiency savings, and<br/>9 Fortis BC, their symbol is on the top page of<br/>10 the brochure that's on line, they're a<br/>11 partner in that program. These are most all<br/>12 large energy savers. CFC lights and small<br/>13 technology items are not even considered. In<br/>14 Nova Scotia, the heating revolution, that's<br/>15 what they're calling it, the heating<br/>16 revolution is promoted using these ductless<br/>17 heat pumps. In Nova Scotia, they have turned<br/>18 over the energy - the efficiency and<br/>19 conservation to a non-profit efficiency<br/>20 corporation, and they are now funding it at<br/>21 47 million dollars per year. Now I would<br/>22 assume they're probably twice the size of our<br/>23 jurisdiction, but even so, we're funding at<br/>24 about 5 million dollars a year. These large</p> |
| Page 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Page 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p>1 a house, they will give the homeowner<br/>2 \$500.00. For an Energy Star heat recovery<br/>3 unit, plus air sealing to three air changes<br/>4 per hour, they contribute \$1,000.00. So they<br/>5 have two features here for air sealing. So<br/>6 they see the importance of air sealing. Then<br/>7 they've got several for insulation, and I<br/>8 think Mr. Johnson was quite aware of the<br/>9 value of insulation, and that it may not be<br/>10 wise to cut back on contributions for<br/>11 insulation. BC, for attic insulation, they<br/>12 contribute \$750.00. For wall insulation,<br/>13 \$1,500.00. Basement insulation, \$1,000.00.<br/>14 Crawl space insulation, \$1,000.00. Then we<br/>15 get to the heat pump units. For the type<br/>16 that I've described here, these ductless heat<br/>17 pump units, if you put in a system with two<br/>18 heads, they contribute \$1,000.00. Also<br/>19 electric heat pump water heaters, they will<br/>20 contribute \$500.00. Drain water heat<br/>21 recovery which saves significant energy from<br/>22 showers and waste water, they contribute<br/>23 \$150.00 towards that. Can we put up Appendix<br/>24 D. I think it's two pages. I haven't listed</p>                    | <p>1 scale measures have large peak demand<br/>2 reduction impacts. So we look at the peak<br/>3 demand reductions. Our conservation plan<br/>4 does little to address the peak demand<br/>5 problem. We have a winter peak that is about<br/>6 three times higher than the summer peak. The<br/>7 primary cause is inefficient heating and<br/>8 infiltration in our houses. The consumer<br/>9 doesn't understand that problem, but feels it<br/>10 after a winter outage, and the consumer pays<br/>11 dearly for it in oversized electrical assets<br/>12 and fuel consumption at Holyrood. Our power<br/>13 company's solution is to keep adding new very<br/>14 expensive generation capacity instead of<br/>15 assisting the customer to reduce winter<br/>16 demand. The rate payer pays the shot for the<br/>17 poor efficiency and conservation plans. In a<br/>18 recent energy plan that was by the<br/>19 Government, we undertook to reduce<br/>20 consumption by 20 percent by - it's an error<br/>21 there, it should read by 2020, but we do<br/>22 little to achieve this. One can see the<br/>23 significant contribution that air sealing and<br/>24 efficient heating and insulation can make to</p>        |

| Page 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 demand reductions. An aggressive and</p> <p>2 sustained plan can cut hundreds of megawatts</p> <p>3 from our winter peak load and the benefit to</p> <p>4 consumers over the decades would be in the</p> <p>5 billions of dollars. In Ontario, they pay</p> <p>6 for residential retrofits, \$800.00 per</p> <p>7 kilowatt load reduction. In Quebec,</p> <p>8 \$7,000.00 for residential ground source heat</p> <p>9 pumps. In conclusion, the conservation plan</p> <p>10 as proposed is inappropriate in funding and</p> <p>11 in measures selected, and has no meaningful</p> <p>12 beneficial impact for the rate payer. It</p> <p>13 does little to reduce system peak loads, the</p> <p>14 high cost of which is put on the rate payer.</p> <p>15 The utilities, both Newfoundland Power and</p> <p>16 Newfoundland Hydro, should be replaced by</p> <p>17 others with this mandate. In addition, rates</p> <p>18 that give discounts for more power use should</p> <p>19 be changed, as it discourages conservation,</p> <p>20 and 400 amp residential services also</p> <p>21 discourages efficient heating systems, adding</p> <p>22 to utility asset costs. That concludes my</p> <p>23 piece.</p> <p>24 CHAIRMAN:</p> | <p>1 The difficulty of utilities finding products</p> <p>2 to use especially for efficient heating, and</p> <p>3 either the difficulty or the little attempt</p> <p>4 to find products, there's 19 pages here with</p> <p>5 about 20 different models on each page, and</p> <p>6 there's about, I think, 13 or 14 different</p> <p>7 manufacturers.</p> <p>8 CHAIRMAN:</p> <p>9 Q. Of ductless heat pumps?</p> <p>10 MR. ADAMS:</p> <p>11 Q. And each one probably got 15 or 20 different</p> <p>12 model sizes.</p> <p>13 CHAIRMAN:</p> <p>14 Q. Have you entered that into the record?</p> <p>15 MR. ADAMS:</p> <p>16 Q. I can, yes.</p> <p>17 CHAIRMAN:</p> <p>18 Q. I think you should.</p> <p>19 MR. ADAMS:</p> <p>20 Q. I didn't have it on the list, but I can put</p> <p>21 it as an attachment. Now I'm not - I haven't</p> <p>22 looked at the specifications and performance</p> <p>23 on all of these, but I know at least four or</p> <p>24 five of them that are being used extensively</p>                                                                     |
| Page 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>1 Q. Do you have any questions?</p> <p>2 KELLY, Q.C.:</p> <p>3 Q. No, Mr. Chairman.</p> <p>4 MR. JOHNSON:</p> <p>5 Q. No, Mr. Chairman.</p> <p>6 GREENE, Q.C.:</p> <p>7 Q. No, Mr. Chairman.</p> <p>8 MS. NEWMAN:</p> <p>9 Q. No questions, Mr. Chairman.</p> <p>10 MR. OXFORD:</p> <p>11 Q. No questions.</p> <p>12 CHAIRMAN:</p> <p>13 Q. Well, I'd like to request that Mr. Adams</p> <p>14 report be referred to Newfoundland Power</p> <p>15 because I sure would like some comment on any</p> <p>16 of the points that he raised. I think</p> <p>17 there's some very interesting issues here,</p> <p>18 you know, concerning how this can be done.</p> <p>19 He's used a lot of data, a lot of numbers,</p> <p>20 and I would like - I think it requires some</p> <p>21 kind of an official response. So if there's</p> <p>22 nothing further -</p> <p>23 MR. ADAMS:</p> <p>24 Q. There's only one more thing I might mention.</p>                                                                                                                                                                                                                                                                                           | <p>1 in Canada and in Newfoundland that operate</p> <p>2 down to our conditions, low temperatures,</p> <p>3 they're in here. There may be some models in</p> <p>4 here that would not be appropriate for our</p> <p>5 climate, but this was a part of the</p> <p>6 Bonneville Power Administration, and all</p> <p>7 that's on line too.</p> <p>8 CHAIRMAN:</p> <p>9 Q. So you're talking, say, for a 2000 square</p> <p>10 foot house, a couple of units, about five or</p> <p>11 six thousand dollars in total cost?</p> <p>12 MR. ADAMS:</p> <p>13 Q. Well, the most expensive one to install there</p> <p>14 was for the R-2000 house and that was 3,000</p> <p>15 square feet, and that's about \$7,500.00.</p> <p>16 CHAIRMAN:</p> <p>17 Q. So it operates kind of like a hot air -</p> <p>18 MR. ADAMS:</p> <p>19 Q. \$6,000.00 - I think most of the houses,</p> <p>20 \$6,000.00 would, you know, if you take an</p> <p>21 average house would be -</p> <p>22 CHAIRMAN:</p> <p>23 Q. So it operates almost like a furnace, a hot</p> <p>24 air furnace, does it?</p> |

| Page 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 MR. ADAMS:</p> <p>2 Q. No. I actually brought a sample of the</p> <p>3 indoor unit because I - the Light and Power</p> <p>4 people, if they got trouble finding it, I can</p> <p>5 show them what they look like, but the</p> <p>6 typical unit is about - it would hang on a</p> <p>7 wall just below the ceiling level about 34</p> <p>8 inches long, a foot high, and maybe six</p> <p>9 inches deep, and there's two copper tubes</p> <p>10 that run from that to the remote compressor</p> <p>11 unit, and that unit - so it's the hot gas,</p> <p>12 the Freon hot gas that exchanges from the</p> <p>13 outside to the indoor. So instead of being</p> <p>14 electric coil in the unit, it's a hot gas</p> <p>15 coil, and that size unit - a unit of that</p> <p>16 length, an electric baseboard, say, would put</p> <p>17 out maybe 750 watts. That unit can put out</p> <p>18 2000 watts at a -15 degree temperature. So</p> <p>19 under real cold conditions, it's 2000 watts,</p> <p>20 and when it gets milder, it can put out about</p> <p>21 6000 watts, but you don't really need that</p> <p>22 much heat when it gets that warm.</p> <p>23 (11:45 a.m.)</p> <p>24 So each unit about - so in the R-2000 house</p>                                                                              | <p>1 outdoor unit, and each outdoor unit connects</p> <p>2 to indoor ones. By November month, it was</p> <p>3 thought probably the units were over sized</p> <p>4 because they were only using at about half</p> <p>5 their capacity. I said, well, wait until we</p> <p>6 get to the cold snap, and - because the way</p> <p>7 those units are, they got a lot of - too much</p> <p>8 capacity when it's medium temperatures, but</p> <p>9 you really have to size them to carry the</p> <p>10 load when we get -14 and -15, and so a week</p> <p>11 or so ago we got those conditions, and we got</p> <p>12 recordings there of -16 degree temperature</p> <p>13 and the units were loaded up then to about 90</p> <p>14 percent capacity. So the sizing was good,</p> <p>15 and it's issues like that would be very</p> <p>16 important for programs that give incentives</p> <p>17 for these things, you really need guidelines</p> <p>18 for contractors, for sizing units, because</p> <p>19 contractors too often will take shortcuts,</p> <p>20 under size a unit to save a hundred bucks,</p> <p>21 and lose out on the efficiency for the</p> <p>22 customer, and locate it in a spot that it</p> <p>23 would be more exposed to weather and high</p> <p>24 winds and that sort of thing. So guidelines</p> |
| Page 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Page 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p>1 that was done, there's four indoor units, and</p> <p>2 it's really remarkable, even more so for an</p> <p>3 R-2000 house, that - because you probably</p> <p>4 got, you know, 15 or 20 different baseboard</p> <p>5 heaters, you say can this house be heated</p> <p>6 comfortably with just four of those units,</p> <p>7 but as you - with an R-2000, the heat loss,</p> <p>8 the windows and everything, it's a high</p> <p>9 comfort level in the first place, and so a</p> <p>10 few units gives - which they mention here</p> <p>11 that efficient houses can be - the whole</p> <p>12 house can essentially be covered with a few</p> <p>13 of those units, and he had figured on putting</p> <p>14 some units upstairs, but he's getting 21</p> <p>15 degree temperatures Celsius upstairs with no</p> <p>16 unit up there, the heat from the main level.</p> <p>17 So it's important where you locate the units</p> <p>18 for best effect, and generally bedrooms, the</p> <p>19 doors are usually left ajar some, and you</p> <p>20 don't want to be too warm. A lot of people</p> <p>21 prefer a few degrees colder in the night</p> <p>22 time. So, you know, this generally gives you</p> <p>23 good comfort conditions, and actually with</p> <p>24 four units and the two outdoor - it's a two</p> | <p>1 for installing contractors would be very</p> <p>2 important, but it's very impressive</p> <p>3 technology.</p> <p>4 CHAIRMAN:</p> <p>5 Q. Okay, sir, thank you very much. No further</p> <p>6 matters. I guess we're adjourned until -</p> <p>7 MS. GLYNN:</p> <p>8 Q. Next Friday.</p> <p>9 CHAIRMAN:</p> <p>10 Q. Next Friday. Thank you very much.</p> <p>11 (HEARING CONCLUDED)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## 1 CERTIFICATE

2 I, Judy Moss, hereby certify that the foregoing is a  
3 true and correct transcript of Newfoundland Power  
4 Inc.'s 2013 General Rate Application, heard on the 31st  
5 day of January, A.D., 2013 before the Newfoundland and  
6 Labrador Board of Commissioners of Public Utilities,  
7 120 Torbay Road, St. John's, Newfoundland and Labrador  
8 and was transcribed by me to the best of my ability by  
9 means of a sound apparatus.  
10 Dated at St. John's, Newfoundland and Labrador  
11 this 31st day of January, A.D., 2013  
12 Judy Moss

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>-\$-</b></p> <p><b>\$1,000.00</b> [6] 36:9 40:22<br/>46:4,13,14,18</p> <p><b>\$1,500.00</b> [1] 46:13</p> <p><b>\$111,700.00</b> [1] 21:11</p> <p><b>\$13,000.00</b> [1] 45:11</p> <p><b>\$15,000.00</b> [2] 36:5 45:2</p> <p><b>\$150.00</b> [1] 46:23</p> <p><b>\$165.00</b> [1] 43:2</p> <p><b>\$169.00</b> [1] 4:3</p> <p><b>\$18.00</b> [1] 26:4</p> <p><b>\$194.00</b> [1] 4:4</p> <p><b>\$2,000.00</b> [1] 45:16</p> <p><b>\$2,500.00</b> [1] 4:5</p> <p><b>\$2,700.00</b> [1] 44:18</p> <p><b>\$24,000.00</b> [1] 45:6</p> <p><b>\$3,600.00</b> [1] 41:11</p> <p><b>\$3.60</b> [1] 21:16</p> <p><b>\$302.00</b> [2] 22:9,14</p> <p><b>\$34,000.00</b> [1] 45:8</p> <p><b>\$360.00</b> [1] 19:19</p> <p><b>\$3600.00</b> [1] 19:21</p> <p><b>\$363.00</b> [2] 4:4 22:16</p> <p><b>\$4,500.00</b> [1] 42:5</p> <p><b>\$46,000.00</b> [1] 45:10</p> <p><b>\$5.00</b> [5] 21:19,22 22:11<br/>25:21 31:1</p> <p><b>\$500.00</b> [3] 40:23 46:2<br/>46:20</p> <p><b>\$6,000.00</b> [2] 52:19,20</p> <p><b>\$600.00</b> [1] 30:24</p> <p><b>\$7,000.00</b> [1] 49:8</p> <p><b>\$7,500.00</b> [2] 43:14<br/>52:15</p> <p><b>\$700.00</b> [1] 41:11</p> <p><b>\$750.00</b> [1] 46:12</p> <p><b>\$800.00</b> [2] 43:3 49:6</p> <p><b>\$84,000.00</b> [1] 36:7</p> <p><b>\$971,790.00</b> [1] 21:13</p> <p><b>-'-</b></p> <p><b>'s</b> [1] 57:4</p> <p><b>---</b></p> <p><b>-13</b> [1] 43:4</p> <p><b>-14</b> [1] 55:10</p> <p><b>-15</b> [4] 37:13 41:19 53:18<br/>55:10</p> <p><b>-16</b> [2] 44:1 55:12</p> <p><b>-30</b> [1] 37:14</p> <p><b>-.-</b></p> <p><b>.6</b> [1] 33:1</p> <p><b>.9</b> [1] 44:23</p> <p><b>-0-</b></p> <p><b>0</b> [1] 39:9</p> | <p><b>0.3</b> [1] 40:2</p> <p><b>0.6</b> [1] 32:23</p> <p><b>0.9</b> [1] 44:21</p> <p><b>-1-</b></p> <p><b>1</b> [19] 16:13,14,15,15<br/>18:18,18 19:2 23:22 24:1<br/>24:3,6,10,20,23 25:10<br/>28:2,2,3 40:6</p> <p><b>1,000</b> [1] 41:7</p> <p><b>1.5</b> [4] 27:21 28:6 35:17<br/>44:2</p> <p><b>1.6</b> [3] 41:19,22 45:5</p> <p><b>1/3rd</b> [3] 21:1 30:9 37:21</p> <p><b>10</b> [4] 17:12,14,16 33:23</p> <p><b>100</b> [8] 16:11 17:2,3,3,4<br/>17:5 27:11 31:8</p> <p><b>100,000</b> [1] 36:10</p> <p><b>1000</b> [1] 21:4</p> <p><b>109</b> [1] 42:22</p> <p><b>10:15</b> [1] 1:2</p> <p><b>10:30</b> [1] 10:15</p> <p><b>10:45</b> [1] 19:22</p> <p><b>11</b> [2] 33:23 35:14</p> <p><b>11,000</b> [1] 39:6</p> <p><b>11.1</b> [1] 21:6</p> <p><b>11.17</b> [1] 21:9</p> <p><b>11.5</b> [1] 42:6</p> <p><b>11:00</b> [1] 29:24</p> <p><b>11:15</b> [1] 36:19</p> <p><b>11:30</b> [1] 44:19</p> <p><b>11:45</b> [1] 53:23</p> <p><b>12</b> [1] 26:22</p> <p><b>12.1</b> [4] 20:9,14,20 24:2</p> <p><b>120</b> [1] 57:7</p> <p><b>1200</b> [1] 35:22</p> <p><b>13</b> [1] 51:6</p> <p><b>136</b> [1] 27:19</p> <p><b>14</b> [3] 36:1 38:19 51:6</p> <p><b>144</b> [2] 20:23 39:8</p> <p><b>144.4</b> [1] 20:17</p> <p><b>15</b> [3] 35:24 51:11 54:4</p> <p><b>16th</b> [1] 1:13</p> <p><b>18.9</b> [4] 6:4 27:6 34:21<br/>37:24</p> <p><b>19</b> [2] 3:19 51:4</p> <p><b>19.8</b> [1] 20:8</p> <p><b>1970s</b> [1] 37:5</p> <p><b>1971</b> [1] 2:24</p> <p><b>-2-</b></p> <p><b>2</b> [4] 25:9 43:7 44:6,22</p> <p><b>2.1</b> [2] 44:8 45:7</p> <p><b>2.3</b> [2] 43:5,9</p> <p><b>2.6</b> [2] 20:5,5</p> <p><b>2.9</b> [1] 40:16</p> <p><b>2/10ths</b> [4] 23:22,24<br/>24:10 25:10</p> <p><b>20</b> [6] 34:22 43:15 48:20<br/>51:5,11 54:4</p> | <p><b>20,000</b> [1] 29:4</p> <p><b>200</b> [2] 18:24 40:24</p> <p><b>2000</b> [3] 52:9 53:18,19</p> <p><b>2007</b> [5] 7:20 28:5 29:4<br/>38:18 39:8</p> <p><b>2007/2008</b> [1] 34:9</p> <p><b>2008</b> [4] 26:23 30:7 35:11<br/>36:8</p> <p><b>2009</b> [4] 8:6 19:23 20:3<br/>40:24</p> <p><b>2010</b> [2] 37:9 41:4</p> <p><b>2011</b> [4] 15:6 20:22 39:6<br/>40:21</p> <p><b>2011"</b> [1] 7:20</p> <p><b>2012</b> [8] 1:1 7:22 8:6,17<br/>11:12 15:5 19:24 23:19</p> <p><b>2013</b> [9] 11:12 20:11<br/>21:11,21 23:23 24:18<br/>57:4,5,11</p> <p><b>2014</b> [8] 2:10 7:6 8:18<br/>20:13,19 24:1,7,21</p> <p><b>2016</b> [1] 7:22</p> <p><b>2020</b> [1] 48:21</p> <p><b>2026</b> [1] 29:6</p> <p><b>21</b> [1] 54:14</p> <p><b>22</b> [1] 15:5</p> <p><b>22,000</b> [2] 4:2 22:8</p> <p><b>24</b> [1] 30:17</p> <p><b>24th</b> [1] 1:15</p> <p><b>25</b> [2] 36:12 41:8</p> <p><b>2500</b> [1] 39:11</p> <p><b>27</b> [1] 42:8</p> <p><b>270,000</b> [1] 21:14</p> <p><b>28.1</b> [1] 20:10</p> <p><b>-3-</b></p> <p><b>3</b> [8] 7:10 25:5 28:11,19<br/>28:22 36:3 43:9 45:10</p> <p><b>3,000</b> [1] 52:14</p> <p><b>3,472</b> [1] 23:19</p> <p><b>3,520</b> [1] 23:23</p> <p><b>3,545</b> [1] 24:1</p> <p><b>3,978</b> [1] 38:22</p> <p><b>3.1</b> [1] 44:1</p> <p><b>3.3</b> [1] 28:24</p> <p><b>3.4</b> [1] 24:20</p> <p><b>3/10ths</b> [1] 24:3</p> <p><b>30</b> [5] 31:3 39:14 43:16<br/>44:12,20</p> <p><b>300,000</b> [1] 37:8</p> <p><b>30th</b> [1] 1:16</p> <p><b>31</b> [1] 1:1</p> <p><b>31st</b> [2] 57:4,11</p> <p><b>33,000</b> [1] 8:5</p> <p><b>34</b> [1] 53:7</p> <p><b>36.7</b> [1] 20:11</p> <p><b>37</b> [1] 42:9</p> <p><b>37.5</b> [1] 42:10</p> <p><b>38</b> [1] 40:5</p> | <p><b>-4-</b></p> <p><b>4</b> [5] 25:6 26:1,2 27:14<br/>40:6</p> <p><b>4.2</b> [2] 8:6 24:22</p> <p><b>4.8</b> [1] 7:10</p> <p><b>40</b> [4] 40:5,12 42:10,24</p> <p><b>400</b> [1] 49:20</p> <p><b>42</b> [1] 8:7</p> <p><b>44</b> [1] 39:1</p> <p><b>47</b> [1] 47:21</p> <p><b>48.9</b> [2] 20:17,24</p> <p><b>49</b> [1] 2:9</p> <p><b>49.5</b> [3] 7:8 20:13,18</p> <p><b>-5-</b></p> <p><b>5</b> [6] 27:14 31:7 35:23<br/>40:6,6 47:24</p> <p><b>5,109</b> [1] 38:24</p> <p><b>5.1</b> [1] 20:7</p> <p><b>5.6</b> [1] 36:3</p> <p><b>50</b> [4] 15:6 30:14 39:15<br/>44:16</p> <p><b>500</b> [1] 38:7</p> <p><b>514"</b> [1] 8:19</p> <p><b>55</b> [1] 42:1</p> <p><b>57</b> [1] 8:8</p> <p><b>570</b> [1] 36:11</p> <p><b>589</b> [1] 8:18</p> <p><b>-6-</b></p> <p><b>6</b> [1] 26:1</p> <p><b>6.6</b> [1] 3:18</p> <p><b>6/10ths</b> [1] 24:20</p> <p><b>6/7ths</b> [1] 28:2</p> <p><b>60</b> [5] 22:12 32:11 33:7<br/>33:15 42:15</p> <p><b>600</b> [1] 44:17</p> <p><b>6000</b> [1] 53:21</p> <p><b>602</b> [1] 24:19</p> <p><b>619</b> [1] 24:21</p> <p><b>65</b> [2] 37:12 42:23</p> <p><b>659</b> [1] 8:18</p> <p><b>69</b> [1] 35:13</p> <p><b>-7-</b></p> <p><b>7.6</b> [1] 40:16</p> <p><b>7.7</b> [1] 20:6</p> <p><b>7.9</b> [1] 3:17</p> <p><b>7/10ths</b> [2] 24:23 28:2</p> <p><b>70</b> [1] 41:13</p> <p><b>75</b> [1] 33:5</p> <p><b>750</b> [1] 53:17</p> <p><b>-8-</b></p> <p><b>8</b> [1] 30:13</p> <p><b>8.3</b> [2] 20:10 23:21</p> <p><b>8.7</b> [3] 20:12 21:12 23:24</p> | <p><b>80</b> [1] 5:8</p> <p><b>85</b> [2] 26:21 39:16</p> <p><b>-9-</b></p> <p><b>9</b> [2] 17:16,17</p> <p><b>9.5</b> [1] 7:8</p> <p><b>9.8</b> [3] 27:1 34:9,20</p> <p><b>90</b> [3] 32:13 33:16 55:13</p> <p><b>98</b> [1] 32:21</p> <p><b>99</b> [1] 32:13</p> <p><b>-A-</b></p> <p><b>A.D</b> [2] 57:5,11</p> <p><b>a.m</b> [7] 1:2 10:15 19:22<br/>29:24 36:19 44:19 53:23</p> <p><b>abandonment</b> [1] 14:23</p> <p><b>ability</b> [2] 12:14 57:8</p> <p><b>accept</b> [1] 29:20</p> <p><b>accepted</b> [2] 23:5,6</p> <p><b>accessibility</b> [1] 7:1</p> <p><b>account</b> [1] 32:24</p> <p><b>accumulative</b> [1] 2:8</p> <p><b>achieve</b> [1] 48:22</p> <p><b>achieved</b> [2] 31:15 32:5</p> <p><b>achievement</b> [1] 19:13</p> <p><b>achievements</b> [2] 14:18<br/>19:12</p> <p><b>achieving</b> [3] 18:12 23:9<br/>25:12</p> <p><b>acknowledge</b> [1] 5:4</p> <p><b>Adams</b> [16] 1:5,19,21,23<br/>2:3,22 26:12,16 50:13<br/>50:23 51:10,15,19 52:12<br/>52:18 53:1</p> <p><b>add</b> [1] 20:14</p> <p><b>added</b> [3] 4:3 16:21 19:8</p> <p><b>adding</b> [3] 16:16 48:13<br/>49:21</p> <p><b>addition</b> [2] 36:17 49:17</p> <p><b>address</b> [3] 5:10 6:13<br/>48:4</p> <p><b>adds</b> [1] 33:8</p> <p><b>adjourned</b> [1] 56:6</p> <p><b>administration</b> [3] 26:10 38:17 52:6</p> <p><b>admission</b> [1] 13:4</p> <p><b>admit</b> [3] 12:24 13:9,11</p> <p><b>advances</b> [1] 3:11</p> <p><b>advantage</b> [2] 11:14<br/>31:6</p> <p><b>advertising</b> [4] 10:9,23<br/>15:17 26:10</p> <p><b>advice</b> [4] 4:24 5:2 23:7<br/>27:16</p> <p><b>advise</b> [1] 5:23</p> <p><b>advocate</b> [10] 2:12 4:8<br/>4:11 7:21 14:23,24 16:2<br/>22:18 23:4,8</p> <p><b>affirmation</b> [1] 16:5</p> <p><b>again</b> [4] 9:20 16:21<br/>23:24 44:22</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>against</b> [3] 18:21 37:24 45:1</p> <p><b>aggregate</b> [39] 2:9 12:13 14:2,2,3 16:7,17,18,24 17:3,4,21 18:1,6,8,20,21 18:21,24 19:1,3,10,14 19:17,18,20 20:2,6,8,9 20:11,13,15,16,19,22 21:1 22:1,3</p> <p><b>aggressive</b> [5] 29:8 30:20 31:11 39:20 49:1</p> <p><b>ago</b> [2] 3:19 55:11</p> <p><b>agree</b> [1] 5:11</p> <p><b>aimed</b> [1] 39:12</p> <p><b>air</b> [22] 14:10 31:19 33:20 35:15,16,17,23,23 36:2 36:3,8,11 37:3 43:22 45:24 46:3,3,5,6 48:23 52:17,24</p> <p><b>ajar</b> [1] 54:19</p> <p><b>allowed</b> [1] 39:3</p> <p><b>allowing</b> [1] 43:12</p> <p><b>allows</b> [1] 38:13</p> <p><b>almost</b> [7] 15:21 26:4 31:22 33:17 37:6,20 52:23</p> <p><b>alone</b> [2] 24:9 43:1</p> <p><b>amount</b> [7] 7:24 11:13 16:17,18 20:19,21 21:20</p> <p><b>amp</b> [1] 49:20</p> <p><b>analysis</b> [6] 18:11 31:2 31:12 34:3,13,17</p> <p><b>annual</b> [7] 7:7,8,17 27:20,21 28:12,20</p> <p><b>answer</b> [1] 10:17</p> <p><b>answered</b> [1] 25:19</p> <p><b>answering</b> [1] 6:12</p> <p><b>answers</b> [1] 13:2</p> <p><b>apparatus</b> [1] 57:9</p> <p><b>apparent</b> [1] 18:23</p> <p><b>appeal</b> [1] 10:17</p> <p><b>appear</b> [2] 17:7 35:7</p> <p><b>Appendix</b> [3] 17:9 42:16 46:23</p> <p><b>apples</b> [2] 19:16,17</p> <p><b>appliance</b> [1] 33:13</p> <p><b>appliances</b> [3] 32:7,18 33:21</p> <p><b>application</b> [3] 2:14 33:18 57:4</p> <p><b>applications</b> [1] 3:15</p> <p><b>Applying</b> [1] 30:21</p> <p><b>appreciate</b> [2] 23:13 24:14</p> <p><b>approach</b> [1] 29:12</p> <p><b>appropriate</b> [6] 27:15 27:23 28:7,13 30:4 52:4</p> <p><b>area</b> [1] 41:10</p> <p><b>areas</b> [3] 14:12 35:21 38:20</p> <p><b>area"</b> [1] 5:22</p> <p><b>arithmetic</b> [1] 42:24</p> <p><b>Asia</b> [1] 37:6</p> | <p><b>asks</b> [1] 10:5</p> <p><b>aspect</b> [1] 15:3</p> <p><b>assess</b> [3] 32:3 34:4 35:6</p> <p><b>assessed</b> [3] 9:20,22 34:17</p> <p><b>assessment</b> [1] 29:19</p> <p><b>asset</b> [1] 49:22</p> <p><b>assets</b> [4] 15:24 30:13 36:16 48:11</p> <p><b>assist</b> [1] 38:3</p> <p><b>assistance</b> [1] 40:9</p> <p><b>assisting</b> [1] 48:15</p> <p><b>assume</b> [2] 16:11 47:22</p> <p><b>attached</b> [2] 31:12 42:8</p> <p><b>attachment</b> [1] 51:21</p> <p><b>attempt</b> [1] 51:3</p> <p><b>attest</b> [1] 31:9</p> <p><b>attic</b> [3] 41:11,16 46:11</p> <p><b>attics</b> [1] 8:2</p> <p><b>attractive</b> [1] 40:15</p> <p><b>author</b> [1] 41:4</p> <p><b>average</b> [14] 2:7 3:23 4:1 21:15,22 22:7 30:23 35:21 37:12 38:21,23 39:10,14 52:21</p> <p><b>avoided</b> [8] 6:12 7:9 34:3 34:4,15,16,22 45:13</p> <p><b>aware</b> [2] 23:8 46:8</p> <p><b>awareness</b> [1] 8:2</p> <hr/> <p style="text-align: center;"><b>-B-</b></p> <hr/> <p><b>B</b> [1] 42:16</p> <p><b>background</b> [1] 2:17</p> <p><b>backup</b> [1] 37:15</p> <p><b>bad</b> [2] 19:5,16</p> <p><b>bang</b> [3] 9:10,14,23</p> <p><b>baseboard</b> [10] 33:9 37:21 40:7,8 42:5 43:14 44:1,4 53:16 54:4</p> <p><b>based</b> [4] 29:18 34:15 35:1 39:19</p> <p><b>basement</b> [3] 8:10 43:12 46:13</p> <p><b>basements</b> [1] 8:1</p> <p><b>basis</b> [3] 12:13 19:1 42:19</p> <p><b>BC</b> [6] 29:2,10 45:17,20 46:11 47:9</p> <p><b>bedroom</b> [1] 26:2</p> <p><b>bedrooms</b> [1] 54:18</p> <p><b>behalf</b> [1] 15:1</p> <p><b>below</b> [3] 28:3 39:9 53:7</p> <p><b>beneficial</b> [4] 15:3 27:8 27:9 49:12</p> <p><b>benefit</b> [9] 5:5 12:20 14:17 15:20 26:18 29:19 40:16 45:13 49:3</p> <p><b>benefits</b> [2] 3:22 4:16</p> <p><b>best</b> [2] 54:18 57:8</p> <p><b>better</b> [5] 13:16 25:11 39:4 40:1 43:18</p> | <p><b>between</b> [3] 14:22 28:16 29:15</p> <p><b>beyond</b> [1] 11:1</p> <p><b>biggest</b> [3] 7:3 8:3 36:14</p> <p><b>bill</b> [2] 4:6 12:15</p> <p><b>billed</b> [1] 21:6</p> <p><b>billing</b> [3] 10:10 42:12 42:13</p> <p><b>billion</b> [2] 21:7,8</p> <p><b>billions</b> [1] 49:5</p> <p><b>bills</b> [8] 6:22 7:6 8:23 12:11 22:7 30:17 31:2 42:8</p> <p><b>Bishop's</b> [1] 41:6</p> <p><b>bit</b> [3] 11:3 35:4 44:4</p> <p><b> blessing</b> [1] 38:2</p> <p><b>Board</b> [4] 2:13 4:8 15:7 57:6</p> <p><b>Board's</b> [1] 1:18</p> <p><b>Bonneville</b> [2] 38:17 52:6</p> <p><b>bottom</b> [3] 17:11,19 32:14</p> <p><b>break</b> [2] 7:12 26:14</p> <p><b>bring</b> [5] 4:7 9:3 17:9 32:13 42:16</p> <p><b>bringing</b> [1] 9:7</p> <p><b>British</b> [4] 25:4 28:23 29:8 45:20</p> <p><b>broad</b> [3] 7:1 10:18 10:24</p> <p><b>brochure</b> [1] 47:10</p> <p><b>brought</b> [1] 53:2</p> <p><b>buck</b> [4] 9:10,12,15,23</p> <p><b>bucks</b> [1] 55:20</p> <p><b>Building</b> [1] 8:12</p> <p><b>buildings</b> [1] 3:9</p> <p><b>built</b> [2] 8:14 22:10</p> <p><b>bulb</b> [1] 12:18</p> <p><b>business</b> [1] 3:4</p> <hr/> <p style="text-align: center;"><b>-C-</b></p> <hr/> <p><b>C</b> [3] 41:19 43:4 44:1</p> <p><b>calculate</b> [2] 3:24 20:1</p> <p><b>calculations</b> [1] 34:7</p> <p><b>calls</b> [2] 5:24 32:10</p> <p><b>Canada</b> [4] 8:14 37:9 38:5 52:1</p> <p><b>Canadian</b> [1] 27:19</p> <p><b>cannot</b> [1] 32:5</p> <p><b>capacity</b> [6] 36:4,13 48:14 55:5,8,14</p> <p><b>capital</b> [3] 36:6 45:1,6</p> <p><b>carry</b> [1] 55:9</p> <p><b>case</b> [1] 17:15</p> <p><b>cases</b> [1] 27:8</p> <p><b>categories</b> [1] 12:6</p> <p><b>category</b> [1] 28:18</p> <p><b>CDM</b> [4] 27:20 28:21 29:5,7</p> <p><b>ceiling</b> [1] 53:7</p> | <p><b>Celsius</b> [3] 37:13,14 54:15</p> <p><b>cents</b> [8] 6:4 21:6,9 27:1 27:7 34:9,22 37:24</p> <p><b>certainly</b> [1] 9:16</p> <p><b>CERTIFICATE</b> [1] 57:1</p> <p><b>certify</b> [1] 57:2</p> <p><b>CF</b> [1] 13:1</p> <p><b>CFC</b> [5] 12:18 13:16 14:17 31:22 47:12</p> <p><b>CFL</b> [2] 13:4 32:8</p> <p><b>Chair</b> [1] 1:8</p> <p><b>Chairman</b> [18] 1:3,20 2:1,20 49:24 50:3,5,7,9 50:12 51:8,13,17 52:8 52:16,22 56:4,9</p> <p><b>chance</b> [1] 11:4</p> <p><b>change</b> [2] 6:24 28:17</p> <p><b>changed</b> [2] 34:15 49:19</p> <p><b>changes</b> [5] 35:8,16,23 36:3 46:3</p> <p><b>chart</b> [2] 17:6,8</p> <p><b>charts</b> [1] 4:10</p> <p><b>cheaper</b> [1] 30:9</p> <p><b>choose</b> [1] 34:7</p> <p><b>clarifications</b> [1] 5:20</p> <p><b>clear</b> [2] 16:22 31:5</p> <p><b>climate</b> [7] 13:6 28:17 32:12 33:18 37:12 40:3 52:5</p> <p><b>climates</b> [1] 33:19</p> <p><b>climbs</b> [1] 24:6</p> <p><b>Code</b> [1] 8:12</p> <p><b>codes</b> [3] 8:16 13:18 35:17</p> <p><b>coefficient</b> [3] 41:20 43:6 44:6</p> <p><b>coil</b> [2] 53:14,15</p> <p><b>cold</b> [7] 36:2 41:18 43:4 43:24 44:21 53:19 55:6</p> <p><b>colder</b> [1] 54:21</p> <p><b>Columbia</b> [3] 25:4 28:23 45:20</p> <p><b>Columbia's</b> [1] 29:9</p> <p><b>combined</b> [1] 29:7</p> <p><b>comfort</b> [4] 36:18 40:7 54:9,23</p> <p><b>comfortably</b> [1] 54:6</p> <p><b>commenced</b> [1] 41:4</p> <p><b>comment</b> [5] 1:10,12,14 8:21 50:15</p> <p><b>comments</b> [2] 1:15 2:13</p> <p><b>commercial</b> [7] 3:12 5:6 6:1 21:15 22:24 24:8 45:19</p> <p><b>Commissioners</b> [1] 57:6</p> <p><b>commitment</b> [1] 14:6</p> <p><b>compact</b> [1] 33:2</p> <p><b>companies</b> [2] 31:5 38:3</p> <p><b>company</b> [4] 13:12</p> | <p>14:22 15:21 45:21</p> <p><b>company's</b> [2] 7:18 48:13</p> <p><b>compare</b> [4] 19:16,17 24:24 34:5</p> <p><b>compared</b> [6] 4:19 23:11 24:12 25:10 35:16 45:12</p> <p><b>comparing</b> [1] 14:18</p> <p><b>compensate</b> [1] 33:10</p> <p><b>competitive</b> [1] 3:14</p> <p><b>complete</b> [1] 37:20</p> <p><b>completed</b> [1] 29:2</p> <p><b>compressor</b> [1] 53:10</p> <p><b>comprise</b> [1] 5:8</p> <p><b>concedes</b> [2] 13:15,17</p> <p><b>concept</b> [2] 14:9 36:23</p> <p><b>concerning</b> [2] 34:3 50:18</p> <p><b>concerns</b> [7] 4:13,21 5:19 6:12 7:15 14:20 29:16</p> <p><b>concluded</b> [3] 27:20 34:17 56:11</p> <p><b>concludes</b> [1] 49:22</p> <p><b>conclusion</b> [1] 49:9</p> <p><b>concurs</b> [1] 22:2</p> <p><b>condition</b> [1] 43:4</p> <p><b>conditioning</b> [1] 33:20</p> <p><b>conditions</b> [9] 39:3 41:19 43:6,24 44:21 52:2 53:19 54:23 55:11</p> <p><b>conducted</b> [1] 39:8</p> <p><b>confuse</b> [1] 19:12</p> <p><b>Connecticut</b> [2] 39:7 45:14</p> <p><b>connects</b> [1] 55:1</p> <p><b>conservation</b> [38] 2:15 3:21 4:7,20 5:1,18 6:7 6:23 7:22 8:17 12:23 14:5 15:4 19:24 22:11 22:13,21 24:15,17,19,22 25:1,22 26:5,7,18,24 27:12,15 29:3,13 31:7 45:18 47:19 48:3,17 49:9 49:19</p> <p><b>conservative</b> [1] 40:1</p> <p><b>conserve</b> [2] 6:21 12:10</p> <p><b>consider</b> [3] 14:9 25:23 35:22</p> <p><b>considered</b> [2] 10:13 47:13</p> <p><b>construction</b> [1] 9:1</p> <p><b>consultant</b> [2] 4:24 5:2</p> <p><b>consume</b> [1] 32:4</p> <p><b>consumer</b> [20] 2:7,12 2:12 3:20 4:7,11 5:6 7:21 8:2 12:15 14:22,24 16:2 22:18,23 23:4,8 24:17 48:8,10</p> <p><b>consumer's</b> [1] 22:6</p> <p><b>consumers</b> [6] 4:16 7:5 7:15 9:17 23:10 49:4</p> <p><b>consumes</b> [3] 18:9 26:8 35:13</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>consuming</b> [1] 31:8<br/> <b>consumption</b> [17] 17:5<br/> 17:7,12,16,17 18:3,7,10<br/> 18:22 19:1 27:11 30:19<br/> 42:18,19,22 48:12,20<br/> <b>contains</b> [1] 5:9<br/> <b>continue</b> [3] 3:15 18:9<br/> 26:17<br/> <b>continues</b> [1] 17:17<br/> <b>contractors</b> [4] 40:24<br/> 55:18,19 56:1<br/> <b>contribute</b> [5] 46:4,12<br/> 46:18,20,22<br/> <b>contribution</b> [7] 16:22<br/> 38:1 41:21 43:8 44:7,14<br/> 48:23<br/> <b>contributions</b> [2] 46:10<br/> 47:7<br/> <b>contributor</b> [1] 8:3<br/> <b>controller</b> [1] 40:10<br/> <b>conveniently</b> [1] 42:17<br/> <b>COP</b> [2] 44:6,22<br/> <b>copper</b> [1] 53:9<br/> <b>copy</b> [1] 42:8<br/> <b>corporation</b> [1] 47:20<br/> <b>correct</b> [2] 22:16 57:3<br/> <b>corrected</b> [1] 22:15<br/> <b>cost</b> [65] 3:24 5:6,13,16<br/> 6:3 7:9,10,12 8:6,7,17<br/> 15:9 19:18 22:12 26:21<br/> 26:24 27:4,10 28:21 29:5<br/> 29:6,15,19,22 30:3,24<br/> 31:12,15,16,24 34:3,4,6<br/> 34:8,9,10,15,16,20,22<br/> 34:23 35:3,18 36:4,9,15<br/> 37:2,22,23,24 39:24<br/> 40:14,16,19,21 41:10<br/> 42:4 43:13 44:18 45:1,6<br/> 45:13,15 49:14 52:11<br/> <b>costs</b> [8] 13:18 27:5,11<br/> 27:13 31:23 35:2,7 49:22<br/> <b>couple</b> [1] 52:10<br/> <b>course</b> [1] 18:17<br/> <b>courtesy</b> [1] 6:15<br/> <b>Cove</b> [2] 41:7,23<br/> <b>cover</b> [1] 39:12<br/> <b>covered</b> [3] 8:16 44:3<br/> 54:12<br/> <b>Crawl</b> [1] 46:14<br/> <b>creating</b> [1] 22:20<br/> <b>credits</b> [1] 40:15<br/> <b>culture</b> [1] 22:20<br/> <b>curious</b> [1] 9:2<br/> <b>current</b> [1] 31:14<br/> <b>customer</b> [12] 6:5,20<br/> 7:18 12:22 13:14 15:18<br/> 21:3,16 25:18 36:17<br/> 48:15 55:22<br/> <b>customers</b> [20] 6:2 7:2<br/> 7:5 10:18,19 11:1,4,8,13<br/> 12:10 13:7,16,23 15:7<br/> 15:22 21:14 30:15,17<br/> 45:19 47:7<br/> <b>cut</b> [2] 46:10 49:2</p> | <p style="text-align: center;"><b>-D-</b></p> <p><b>D</b> [1] 46:24<br/> <b>daily</b> [1] 42:19<br/> <b>data</b> [1] 50:19<br/> <b>date</b> [3] 1:13 6:6 41:5<br/> <b>Dated</b> [1] 57:10<br/> <b>DC</b> [2] 34:12,21<br/> <b>deal</b> [1] 1:6<br/> <b>deals</b> [1] 2:14<br/> <b>dealt</b> [1] 11:10<br/> <b>dearly</b> [1] 48:11<br/> <b>decades</b> [1] 49:4<br/> <b>December</b> [1] 42:10<br/> <b>decrease</b> [1] 38:21<br/> <b>deep</b> [1] 53:9<br/> <b>defend</b> [1] 25:21<br/> <b>define</b> [1] 34:19<br/> <b>degree</b> [4] 35:24 53:18<br/> 54:15 55:12<br/> <b>degrees</b> [2] 39:9 54:21<br/> <b>delay</b> [1] 30:10<br/> <b>delivery</b> [2] 25:16 28:10<br/> <b>demand</b> [10] 28:15,16<br/> 36:10 38:2 45:10 48:1,3<br/> 48:4,16 49:1<br/> <b>department</b> [1] 38:10<br/> <b>described</b> [1] 46:16<br/> <b>design</b> [1] 3:4<br/> <b>designed</b> [1] 37:4<br/> <b>desire</b> [1] 22:6<br/> <b>developed</b> [2] 37:5 39:19<br/> <b>development</b> [1] 34:12<br/> <b>DHPs</b> [2] 39:22,23<br/> <b>different</b> [6] 10:8,22<br/> 51:5,6,11 54:4<br/> <b>differently</b> [2] 11:10,11<br/> <b>difficulty</b> [2] 51:1,3<br/> <b>dip</b> [1] 39:9<br/> <b>direct</b> [1] 10:12<br/> <b>direction</b> [3] 11:9 15:11<br/> 15:12<br/> <b>directly</b> [1] 8:22<br/> <b>disappointed</b> [1] 6:15<br/> <b>discounts</b> [1] 49:18<br/> <b>discourages</b> [2] 49:19<br/> 49:21<br/> <b>discussed</b> [1] 6:7<br/> <b>discussion</b> [1] 14:5<br/> <b>dismal</b> [1] 25:20<br/> <b>displays</b> [1] 42:17<br/> <b>disregard</b> [1] 22:22<br/> <b>distribution</b> [3] 13:12<br/> 15:24 30:12<br/> <b>doesn't</b> [2] 1:24 48:9<br/> <b>dollar</b> [5] 3:22,24 4:6<br/> 21:2 27:14<br/> <b>dollars</b> [9] 8:20 24:19<br/> 26:9 27:12 31:9 47:21<br/> 47:24 49:5 52:11</p> | <p><b>domestic</b> [2] 3:17 5:5<br/> <b>done</b> [5] 11:15 34:7 38:14<br/> 50:18 54:1<br/> <b>done"</b> [1] 10:7<br/> <b>doors</b> [1] 54:19<br/> <b>double</b> [1] 26:2<br/> <b>down</b> [11] 8:18 9:3,7<br/> 17:16 32:16 35:4 37:13<br/> 37:14 42:23 45:9 52:2<br/> <b>Drain</b> [1] 46:20<br/> <b>driving</b> [1] 12:2<br/> <b>drops</b> [1] 17:16<br/> <b>duct</b> [1] 37:18<br/> <b>ductless</b> [7] 36:22 39:20<br/> 39:23 41:1 46:16 47:16<br/> 51:9<br/> <b>due</b> [2] 40:13 41:14<br/> <b>durable</b> [1] 16:9<br/> <b>during</b> [2] 5:18 39:10</p> <p style="text-align: center;"><b>-E-</b></p> <p><b>e-mailed</b> [1] 4:12<br/> <b>e-mails</b> [1] 5:24<br/> <b>early</b> [3] 27:23 28:7 39:5<br/> <b>easy</b> [2] 23:12 24:13<br/> <b>economic</b> [2] 27:5 34:14<br/> <b>effect</b> [7] 17:24 25:24<br/> 29:17 30:2 32:10 33:6<br/> 54:18<br/> <b>effective</b> [16] 5:6,13,16<br/> 13:7 28:21 29:5,7,16,22<br/> 30:4 31:13,24 35:18 37:2<br/> 37:23 39:24<br/> <b>effectiveness</b> [2] 38:15<br/> 40:21<br/> <b>effects</b> [3] 14:13 29:20<br/> 32:15<br/> <b>efficiency</b> [26] 5:1 6:5<br/> 13:13 14:15 16:12 17:1<br/> 23:2,2 26:19 27:16 29:14<br/> 29:23 30:8,16,21 31:6,7<br/> 31:13 32:1 35:18 41:17<br/> 47:8,18,19 48:17 55:21<br/> <b>efficient</b> [11] 14:10 15:10<br/> 31:20 32:7 33:2 40:19<br/> 41:1 48:24 49:21 51:2<br/> 54:11<br/> <b>effort</b> [1] 24:15<br/> <b>efforts</b> [1] 31:19<br/> <b>eight</b> [1] 38:6<br/> <b>either</b> [1] 51:3<br/> <b>electric</b> [14] 4:1 7:3<br/> 10:19 11:2 21:17,22 22:7<br/> 30:23 35:12 39:21 45:13<br/> 46:19 53:14,16<br/> <b>electrical</b> [4] 2:23 13:10<br/> 30:12 48:11<br/> <b>electrically</b> [1] 13:22<br/> <b>electricity</b> [11] 6:22 7:6<br/> 13:5 21:18 26:4,20 27:22<br/> 28:12,14 29:1 40:13<br/> <b>elsewhere</b> [1] 22:15<br/> <b>email</b> [1] 5:21</p> | <p><b>employees</b> [1] 38:8<br/> <b>end</b> [1] 7:6<br/> <b>ended</b> [2] 12:22 14:4<br/> <b>energy</b> [60] 3:21 4:24<br/> 6:21,23 7:7,24 8:4,22<br/> 12:10 13:13 15:19 16:10<br/> 16:12,14 17:20 18:5 19:7<br/> 19:15 22:6 23:2,11,11<br/> 24:12,13 25:8,13 26:19<br/> 27:3 29:9,22 30:8,17,18<br/> 31:23 32:2,4,6 33:4,6,11<br/> 33:21,24 34:5,24 35:12<br/> 35:14 36:16,17 38:11,14<br/> 40:11 42:7 45:17 46:2<br/> 46:21 47:3,8,12,18 48:18<br/> <b>engineer</b> [4] 2:23 3:1<br/> 13:10 23:1<br/> <b>engineering</b> [1] 26:9<br/> <b>enhance</b> [1] 9:4<br/> <b>enhanced</b> [1] 41:15<br/> <b>enlightening</b> [1] 12:23<br/> <b>ensure</b> [1] 10:3<br/> <b>enter</b> [1] 1:9<br/> <b>entered</b> [1] 51:14<br/> <b>entirely</b> [2] 1:22 33:17<br/> <b>envisioned</b> [1] 31:21<br/> <b>equal</b> [1] 10:9<br/> <b>equals</b> [2] 17:5,7<br/> <b>equipment</b> [1] 3:5<br/> <b>error</b> [2] 22:14 48:20<br/> <b>especially</b> [2] 37:23 51:2<br/> <b>essentially</b> [1] 54:12<br/> <b>Europe</b> [1] 37:7<br/> <b>evaluate</b> [1] 6:5<br/> <b>evaluated</b> [1] 16:6<br/> <b>eve</b> [1] 13:3<br/> <b>evidence</b> [4] 4:10 7:18<br/> 12:22 37:10<br/> <b>evolving</b> [1] 6:20<br/> <b>example</b> [2] 16:8 17:1<br/> <b>examples</b> [1] 6:18<br/> <b>exceed</b> [2] 18:9 34:22<br/> <b>exceeded</b> [1] 39:15<br/> <b>exceeding</b> [3] 25:6,9<br/> 42:15<br/> <b>excellent</b> [2] 5:16 37:19<br/> <b>excess</b> [2] 25:5 27:11<br/> <b>exchanges</b> [1] 53:12<br/> <b>excluded</b> [1] 37:1<br/> <b>existing</b> [4] 9:2,5 10:6<br/> 11:13<br/> <b>expansion</b> [1] 7:3<br/> <b>expect</b> [2] 6:9 13:10<br/> <b>expectations</b> [2] 2:11<br/> 25:18<br/> <b>expectations"</b> [1] 6:20<br/> <b>expected</b> [3] 21:22 28:15<br/> 40:11<br/> <b>expenditures</b> [3] 27:21<br/> 28:1 29:10<br/> <b>expenses</b> [1] 30:12<br/> <b>expensive</b> [3] 15:23</p> | <p>48:14 52:13<br/> <b>experience</b> [3] 2:18<br/> 12:11 28:10<br/> <b>expert</b> [2] 4:23 27:16<br/> <b>expertise</b> [1] 13:13<br/> <b>explain</b> [1] 30:7<br/> <b>exposed</b> [1] 55:23<br/> <b>expressed</b> [1] 9:17<br/> <b>extensively</b> [1] 51:24<br/> <b>extent</b> [1] 19:13<br/> <b>exterior</b> [1] 8:10</p> <p style="text-align: center;"><b>-F-</b></p> <p><b>fact</b> [3] 9:21,22 15:11<br/> <b>factor</b> [2] 33:1,15<br/> <b>Fahrenheit</b> [2] 35:24<br/> 39:9<br/> <b>fail</b> [1] 34:14<br/> <b>failed</b> [1] 31:5<br/> <b>failure</b> [2] 25:20 31:10<br/> <b>fair</b> [1] 12:16<br/> <b>fairness</b> [2] 11:3 13:23<br/> <b>fall</b> [2] 28:18 39:2<br/> <b>family</b> [1] 38:19<br/> <b>far</b> [2] 25:13 36:14<br/> <b>favourable</b> [1] 4:19<br/> <b>feature</b> [1] 38:12<br/> <b>features</b> [1] 46:5<br/> <b>fed</b> [1] 24:16<br/> <b>feeling</b> [1] 2:5<br/> <b>feels</b> [1] 48:9<br/> <b>feet</b> [2] 44:17 52:15<br/> <b>fest</b> [1] 14:21<br/> <b>few</b> [5] 18:7 28:24 54:10<br/> 54:12,21<br/> <b>field</b> [1] 3:3<br/> <b>figured</b> [1] 54:13<br/> <b>filed</b> [1] 36:24<br/> <b>final</b> [1] 20:13<br/> <b>finally</b> [1] 13:3<br/> <b>finding</b> [4] 30:13,19 51:1<br/> 53:4<br/> <b>findings</b> [5] 27:17 29:18<br/> 30:22 38:20 39:22<br/> <b>fired</b> [1] 26:22<br/> <b>first</b> [3] 20:4 26:23 54:9<br/> <b>five</b> [10] 3:2 7:21 9:9 25:7<br/> 27:24 35:16 41:23 43:10<br/> 51:24 52:10<br/> <b>fixture</b> [1] 33:4<br/> <b>floor</b> [1] 37:19<br/> <b>Florida</b> [1] 33:22<br/> <b>following</b> [3] 20:6 38:16<br/> 39:5<br/> <b>follows</b> [1] 6:17<br/> <b>foot</b> [6] 26:6,6 35:22 41:7<br/> 52:10 53:8<br/> <b>forecast</b> [2] 7:7 8:17<br/> <b>foregoing</b> [1] 57:2<br/> <b>forget</b> [1] 26:13</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>form</b> [1] 1:18<br><b>Fortis</b> [4] 15:21 45:20 45:21 47:9<br><b>forward</b> [3] 9:24 10:21 16:11<br><b>found</b> [2] 28:20 30:8<br><b>four</b> [11] 9:8 25:24 26:3 26:4 31:14 41:5,5 51:23 54:1,6,24<br><b>fourth</b> [1] 44:15<br><b>frame</b> [1] 17:10<br><b>free</b> [1] 13:18<br><b>Freon</b> [1] 53:12<br><b>Friday</b> [3] 6:11 56:8,10<br><b>fuel</b> [3] 7:9 27:13 48:12<br><b>full</b> [4] 14:5 36:12 37:15 47:6<br><b>fund</b> [1] 30:14<br><b>funded</b> [1] 4:14<br><b>funding</b> [5] 28:23 31:7 47:20,23 49:10<br><b>furnace</b> [2] 52:23,24<br><b>furnaces</b> [1] 47:2<br><b>future</b> [1] 29:10<br><hr/> <b>-G-</b><br><hr/> <b>gadget</b> [1] 40:10<br><b>gain</b> [1] 41:18<br><b>gained</b> [1] 28:11<br><b>gains</b> [2] 32:2 43:19<br><b>gap</b> [1] 28:16<br><b>garage</b> [1] 44:2<br><b>gas</b> [5] 45:14 47:2 53:11 53:12,14<br><b>general</b> [2] 38:10 57:4<br><b>generally</b> [4] 2:14 39:1 54:18,22<br><b>generating</b> [1] 36:13<br><b>generation</b> [12] 15:23 26:21,22 27:1 30:10,11 36:4,7 45:1,7,16 48:14<br><b>generations</b> [1] 45:15<br><b>genesis</b> [3] 10:20 11:6 15:13<br><b>George</b> [1] 1:17<br><b>gigawatt</b> [15] 2:6,9 7:8 11:23 12:5 20:4,18 21:6 21:10,12 23:14,20,21,23 29:4<br><b>given</b> [3] 14:11 40:22,23<br><b>giving</b> [2] 8:8 40:6<br><b>GLYNN</b> [3] 1:7 26:11 56:7<br><b>gone</b> [3] 34:20 35:3,4<br><b>good</b> [17] 1:4 9:10 10:4 10:11 12:14 14:4 16:1,7 18:16 19:4 22:3,19 23:12 24:13 41:13 54:23 55:14<br><b>Government</b> [1] 48:19<br><b>grade</b> [1] 41:7<br><b>graduated</b> [1] 2:24<br><b>granted</b> [1] 3:18 | <b>great</b> [3] 33:19 40:3 43:23<br><b>greater</b> [1] 9:23<br><b>greatest</b> [1] 5:4<br><b>greatly</b> [1] 38:13<br><b>GREENE</b> [1] 50:6<br><b>gross</b> [5] 2:8 7:7 20:17 20:22,23<br><b>ground</b> [3] 37:22 41:14 49:8<br><b>group</b> [2] 10:18,24<br><b>growth</b> [1] 28:14<br><b>guess</b> [9] 3:7 10:17,20 12:18 13:2 34:18 35:10 35:11 56:6<br><b>guide</b> [1] 14:14<br><b>guidelines</b> [2] 55:17,24<br><hr/> <b>-H-</b><br><hr/> <b>half</b> [3] 7:13 33:3 55:4<br><b>hand</b> [1] 17:12<br><b>hang</b> [1] 53:6<br><b>Harbour</b> [1] 44:16<br><b>hard</b> [2] 12:24 13:8<br><b>head</b> [4] 39:13 40:23 41:9 44:17<br><b>heads</b> [4] 37:19 42:2 43:11 46:18<br><b>heard</b> [1] 57:4<br><b>hearing</b> [2] 4:22 56:11<br><b>hearings</b> [1] 37:1<br><b>hearing"</b> [1] 6:8<br><b>heat</b> [35] 7:3 10:19 11:2 32:17 36:2,22 37:11,16 37:22 39:20,23 40:11 41:10,12,18 42:3 43:3 43:13,15,24 44:5,12,20 44:21 46:2,15,16,19,20 47:17 49:8 51:9 53:22 54:7,16<br><b>heated</b> [9] 4:1 13:22 21:17,20,23 22:7 30:23 35:13 54:5<br><b>heater</b> [1] 33:9<br><b>heaters</b> [6] 37:21 39:21 40:7,9 46:19 54:5<br><b>heating</b> [29] 3:6,8,12 5:7 5:10,14 14:10 31:18 32:9 33:9,14,14,23 35:13 36:20 37:11,15,19 39:10 41:2 42:14,15 47:4,14 47:15 48:7,24 49:21 51:2<br><b>heating"</b> [1] 32:19<br><b>help</b> [1] 7:5<br><b>helping</b> [1] 13:21<br><b>helps"</b> [1] 6:11<br><b>hereby</b> [1] 57:2<br><b>Hereto</b> [1] 6:15<br><b>high</b> [10] 15:2 36:1 39:17 40:5,20 45:12 49:14 53:8 54:8 55:23<br><b>higher</b> [4] 28:13 31:4 40:13 48:6 | <b>highest</b> [2] 7:24 35:21<br><b>highly</b> [1] 43:21<br><b>holds</b> [1] 19:2<br><b>Holyrood</b> [9] 6:3 7:9 31:9,15 34:6,20 36:13 37:24 48:12<br><b>home</b> [1] 30:23<br><b>homeowner</b> [2] 26:1 46:1<br><b>homes</b> [3] 8:13,16 38:19<br><b>Hope</b> [1] 6:11<br><b>hoped</b> [1] 6:13<br><b>hospitals</b> [1] 3:10<br><b>hot</b> [9] 5:7,10 31:18 35:14 52:17,23 53:11,12,14<br><b>hour</b> [12] 2:6 6:4 21:4,5 21:6,7,10 27:2 35:16,23 38:1 46:4<br><b>hours</b> [21] 2:10 4:2 7:8 8:5 11:23 12:5 20:4,18 21:8,9,12 22:1,8 23:14 23:20,21,23 29:4 38:22 39:11 42:22<br><b>house</b> [39] 4:1 8:9 21:17 21:21,23 22:7 24:11 35:13,22 36:5,9 41:2,8 41:24 42:1,2,5,6,12,13 43:11,15,19,20,21,24 44:11,13,16 45:5,9 46:1 52:10,14,21 53:24 54:3 54:5,12<br><b>household</b> [1] 3:23<br><b>households</b> [1] 10:13<br><b>housekeeping</b> [1] 1:8<br><b>houses</b> [12] 13:19,22 14:7 36:10 37:17 41:1 44:10 44:15 45:4 48:8 52:19 54:11<br><b>housing</b> [7] 9:5 10:6,7 11:14 13:17 35:15 41:5<br><b>huge</b> [3] 22:2 35:17 38:2<br><b>hundred</b> [1] 55:20<br><b>hundreds</b> [2] 8:19 49:2<br><b>hydro</b> [7] 3:2 8:15 22:18 26:21 28:23 36:21 49:16<br><b>Hydro's</b> [3] 29:2,10 45:17<br><hr/> <b>-I-</b><br><hr/> <b>identified</b> [1] 29:4<br><b>identifying</b> [1] 5:12<br><b>ignore</b> [2] 15:14,16<br><b>ignored</b> [1] 35:19<br><b>ignoring</b> [1] 36:15<br><b>illusion</b> [1] 18:19<br><b>impact</b> [6] 2:8 8:22 11:17 12:9 31:23 49:12<br><b>impacts</b> [3] 34:18 35:8 48:2<br><b>implemented</b> [2] 8:13 16:20<br><b>importance</b> [1] 46:6<br><b>important</b> [3] 54:17 55:16 56:2 | <b>impression</b> [1] 18:4<br><b>impressive</b> [1] 56:2<br><b>improve</b> [2] 6:24 38:15<br><b>improved</b> [3] 3:13 36:18 41:17<br><b>improvements</b> [1] 30:16<br><b>improves</b> [1] 38:13<br><b>inappropriate</b> [1] 49:10<br><b>Inc</b> [1] 57:4<br><b>incent</b> [1] 8:15<br><b>Incentive</b> [1] 40:14<br><b>incentives</b> [6] 15:14,15 40:22 45:18,22 55:16<br><b>inches</b> [2] 53:8,9<br><b>includes</b> [1] 24:8<br><b>including</b> [1] 21:15<br><b>inclusive</b> [1] 29:22<br><b>incorporated</b> [1] 32:23<br><b>increase</b> [13] 4:3,5 6:2 7:10 19:18,19,20 22:9 22:10 29:11 30:14 32:9 32:18<br><b>increases</b> [3] 4:1 15:2 33:14<br><b>increasing</b> [2] 16:18 28:16<br><b>incremental</b> [22] 18:13 19:8,9,23 20:1,3,5,7,8 20:10,12,14,16,17,20,24 20:24 21:3,11 23:14,20 24:2<br><b>index</b> [1] 7:17<br><b>individual</b> [3] 10:12 11:18,20<br><b>indoor</b> [5] 37:18 53:3,13 54:1 55:2<br><b>industrial</b> [1] 24:8<br><b>ineffective</b> [1] 13:4<br><b>inefficiencies</b> [1] 25:15<br><b>inefficient</b> [1] 48:7<br><b>infiltration</b> [3] 14:11 31:19 48:8<br><b>influence</b> [1] 12:15<br><b>initials</b> [1] 1:12<br><b>initiatives"</b> [1] 9:11<br><b>install</b> [1] 52:13<br><b>installation</b> [2] 41:12 41:15<br><b>installations</b> [1] 38:7<br><b>installed</b> [13] 16:10,14 37:8 38:9,19 39:7,13 41:10,16 42:3,4 43:13 44:17<br><b>installing</b> [1] 56:1<br><b>instance</b> [1] 11:14<br><b>instead</b> [6] 18:20 24:6 31:1 41:16 48:14 53:13<br><b>institutional</b> [1] 3:9<br><b>insulated</b> [1] 43:22<br><b>insulation</b> [29] 7:23 8:1 8:10 9:4,16 10:4 11:15 12:1,17,18,20,21 13:1,7 | 13:15,18 14:6 15:4 16:9 24:11 31:20 46:7,9,11 46:11,12,13,14 48:24<br><b>insult</b> [1] 25:22<br><b>integrated</b> [1] 29:18<br><b>intend</b> [2] 5:17,21<br><b>intended</b> [1] 2:16<br><b>interaction</b> [2] 32:20 33:6<br><b>interactive</b> [3] 14:13 32:10,15<br><b>interest</b> [2] 9:17 39:17<br><b>interested</b> [1] 11:1<br><b>interesting</b> [1] 50:17<br><b>internal</b> [1] 32:17<br><b>interrupt</b> [1] 26:12<br><b>introduce</b> [1] 28:9<br><b>inverter</b> [1] 38:12<br><b>investment</b> [2] 36:6 40:18<br><b>involve</b> [1] 36:6<br><b>involved</b> [2] 3:5 40:24<br><b>island</b> [2] 21:14 41:23<br><b>issue</b> [3] 11:4 29:14 34:2<br><b>issues</b> [5] 4:22 5:1 14:11 50:17 55:15<br><b>item</b> [1] 1:8<br><b>items</b> [5] 14:1 31:21 32:6 34:7 47:13<br><b>it"</b> [1] 12:7<br><hr/> <b>-J-</b><br><hr/> <b>January</b> [10] 1:1,13,15 1:16 42:11,21,21 43:1 57:5,11<br><b>Japan</b> [1] 37:5<br><b>John's</b> [3] 8:9 57:7,10<br><b>Johnson</b> [21] 4:12 5:20 6:8,11 7:20 9:7,20 10:5 10:11,16 11:11,19,24 12:7 13:8 14:4 16:3 18:16 22:2 46:8 50:4<br><b>joke</b> [1] 14:21<br><b>Judy</b> [2] 57:2,12<br><b>July</b> [2] 22:10,10<br><b>jumps</b> [1] 22:12<br><b>jurisdiction</b> [2] 8:12 47:23<br><b>jurisdictions</b> [4] 14:19 23:9 27:20 30:20<br><b>justify</b> [1] 15:23<br><hr/> <b>-K-</b><br><hr/> <b>keep</b> [3] 15:19 18:7 48:13<br><b>keeps</b> [1] 16:18<br><b>Kelly</b> [2] 6:18 50:2<br><b>key</b> [4] 21:1 29:14 30:13 38:11<br><b>kilowatt</b> [19] 4:2 6:4 21:4,9 22:1,8 27:2 36:5 38:1,22 39:11 42:22 44:1 44:23 45:2,8,15,17 49:7 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>kilowatts</b> [14] 36:2,4<br>38:24 40:2 41:19,22 42:6<br>43:5,9,15 44:2,8,22<br>45:10<br><b>kind</b> [2] 50:21 52:17<br><b>knocking</b> [1] 45:9<br><b>knowledge</b> [2] 3:11 23:1<br><b>knows</b> [1] 4:9<br><hr/> <p style="text-align: center;"><b>-L-</b></p> <hr/> <b>label</b> [1] 33:4<br><b>Labrador</b> [3] 57:6,7,10<br><b>lacks</b> [1] 13:12<br><b>ladder</b> [1] 17:24<br><b>large</b> [13] 3:9 15:10,15<br>16:23 30:5 31:17,24 32:4<br>35:11 47:8,12,24 48:1<br><b>larger</b> [2] 44:9,13<br><b>last</b> [5] 22:9 27:16 30:1<br>42:18,21<br><b>lasting</b> [1] 16:9<br><b>latest</b> [1] 3:21<br><b>launched</b> [1] 38:18<br><b>leadership</b> [1] 22:20<br><b>leakage</b> [4] 35:15,17,23<br>36:6<br><b>least</b> [3] 33:7 38:7 51:23<br><b>leave</b> [1] 15:7<br><b>left</b> [2] 17:12 54:19<br><b>length</b> [1] 53:16<br><b>less</b> [1] 37:22<br><b>lesser</b> [2] 21:20 33:11<br><b>letter</b> [5] 1:9,11,14,17<br>5:24<br><b>level</b> [11] 11:18 27:6,14<br>27:15 28:11 42:3 43:11<br>43:12 53:7 54:9,16<br><b>levels</b> [1] 29:13<br><b>light</b> [5] 12:18 33:2,4<br>42:17 53:3<br><b>lighting</b> [2] 32:18 33:13<br><b>lights</b> [8] 13:2,5,16 14:17<br>31:22 32:8 33:21 47:12<br><b>likely</b> [1] 29:11<br><b>likewise</b> [1] 19:2<br><b>line</b> [3] 17:11 47:10 52:7<br><b>link</b> [2] 34:12,21<br><b>list</b> [1] 51:20<br><b>listed</b> [1] 46:24<br><b>live</b> [1] 14:11<br><b>living</b> [2] 38:20 39:14<br><b>load</b> [22] 32:9 33:13,14<br>38:4 39:2,3 40:4 41:18<br>41:22 42:6,15 43:3,8,14<br>43:24 44:7,9,21,24 49:3<br>49:7 55:10<br><b>loaded</b> [1] 55:13<br><b>loads</b> [3] 5:8 32:17 49:13<br><b>locate</b> [2] 54:17 55:22<br><b>location</b> [4] 13:6 41:6<br>43:9 44:15<br><b>logical</b> [2] 12:21 32:1 | <b>logical</b> [1] 13:3<br><b>longer</b> [2] 8:15 33:10<br><b>look</b> [15] 10:13 17:8,10<br>17:19 18:13 20:2 23:10<br>24:12,15 26:18 31:24<br>44:24 45:17 48:2 53:5<br><b>looked</b> [2] 34:8 51:22<br><b>looking</b> [1] 34:23<br><b>looks</b> [1] 18:3<br><b>lose</b> [1] 55:21<br><b>loss</b> [1] 54:7<br><b>lost</b> [4] 33:7,15,17 34:1<br><b>lots</b> [1] 15:17<br><b>lottery</b> [1] 39:18<br><b>love</b> [1] 14:21<br><b>low</b> [2] 26:21 52:2<br><b>lower</b> [6] 6:5,22 7:5<br>12:10 22:6 44:13<br><b>lowest</b> [1] 36:15<br><hr/> <p style="text-align: center;"><b>-M-</b></p> <hr/> <b>magnitude</b> [2] 23:13<br>29:6<br><b>main</b> [4] 39:13 42:3<br>43:12 54:16<br><b>makes</b> [1] 40:15<br><b>mandate</b> [1] 49:17<br><b>manufacturer's</b> [1]<br>39:5<br><b>manufacturers</b> [1] 51:7<br><b>Marbek</b> [5] 14:14 27:17<br>32:9,14 36:8<br><b>marginally</b> [1] 27:8<br><b>marketplace</b> [1] 28:9<br><b>marvellous</b> [1] 18:4<br><b>Massachusetts</b> [2] 25:4<br>39:7<br><b>match</b> [1] 26:7<br><b>matter</b> [2] 1:5,24<br><b>matters</b> [1] 56:6<br><b>maximize</b> [1] 4:16<br><b>maximizes</b> [1] 40:20<br><b>may</b> [9] 2:2 19:4 22:14<br>28:13 36:21 39:24 43:2<br>46:9 52:3<br><b>McKinley</b> [2] 30:7,21<br><b>meagre</b> [1] 15:3<br><b>mean</b> [3] 9:12 11:23<br>26:12<br><b>meaningful</b> [4] 19:6<br>32:2,5 49:11<br><b>means</b> [2] 2:6 57:9<br><b>measure</b> [14] 15:4 16:8<br>16:13,19 17:2,13 19:11<br>19:14 27:5 30:3 34:5,11<br>37:2 40:20<br><b>measures</b> [21] 9:24 16:6<br>16:20 17:18 24:11 27:3<br>27:7 28:17,19 29:16,23<br>30:9 31:11 32:1 34:14<br>36:15 43:4 45:23,23 48:1<br>49:11 | <b>mechanical</b> [1] 3:5<br><b>mechanisms</b> [1] 10:3<br><b>medium</b> [1] 55:8<br><b>meet</b> [3] 2:11 25:18 27:4<br><b>meeting</b> [1] 38:3<br><b>megawatt</b> [2] 8:5 36:11<br><b>megawatts</b> [1] 49:2<br><b>mention</b> [3] 26:13 50:24<br>54:10<br><b>met</b> [2] 28:22 29:12<br><b>method</b> [7] 16:23 18:10<br>18:13,15,15 39:18 41:15<br><b>mid</b> [2] 42:21,21<br><b>might</b> [5] 2:13 11:3 13:10<br>27:22 50:24<br><b>mil</b> [1] 26:1<br><b>milder</b> [1] 53:20<br><b>million</b> [16] 7:8,10,11<br>8:6 21:8 24:19,20,21,22<br>26:8 27:12,14 31:8,9<br>47:21,24<br><b>mini</b> [1] 37:11<br><b>mislead</b> [1] 19:13<br><b>missed</b> [1] 31:10<br><b>mistake</b> [1] 41:24<br><b>mitigation</b> [1] 28:17<br><b>model</b> [2] 32:24 51:12<br><b>models</b> [3] 37:14 51:5<br>52:3<br><b>modest</b> [3] 31:15 34:19<br>35:9<br><b>modest</b> [1] 34:18<br><b>money</b> [1] 13:17<br><b>monitored</b> [2] 5:15 41:6<br><b>month</b> [2] 42:20 55:2<br><b>months</b> [4] 3:18 25:24<br>26:3 33:24<br><b>morning</b> [1] 1:4<br><b>Moss</b> [2] 57:2,12<br><b>most</b> [14] 8:22 12:16 15:3<br>21:16 23:18 28:21 32:8<br>33:21,24 40:6 42:20<br>47:11 52:13,19<br><b>mostly</b> [1] 3:5<br><b>Mount</b> [1] 43:10<br><b>mounted</b> [1] 37:18<br><b>move</b> [1] 13:21<br><b>moved</b> [1] 3:13<br><b>MS</b> [4] 1:7 26:11 50:8<br>56:7<br><b>multi-year</b> [1] 26:23<br><b>Murphy</b> [1] 1:17<br><b>must</b> [2] 32:3,21<br><hr/> <p style="text-align: center;"><b>-N-</b></p> <hr/> <b>name</b> [1] 13:23<br><b>narrow</b> [1] 37:4<br><b>National</b> [1] 8:12<br><b>nature</b> [2] 3:11 4:23<br><b>near</b> [1] 15:13<br><b>nearly</b> [1] 8:5 | <b>necessary</b> [2] 29:21 30:4<br><b>need</b> [6] 8:24 19:7 32:19<br>35:5 53:21 55:17<br><b>needed</b> [1] 40:9<br><b>net</b> [1] 24:5<br><b>never</b> [2] 2:18 23:5<br><b>new</b> [36] 8:9,13,16 9:1<br>9:14 10:5,20 11:8 13:17<br>13:24 14:8 15:10,13,23<br>19:8 20:20 21:11,13,19<br>21:21 22:13 23:13,20,24<br>29:11 30:10,11 35:6,16<br>36:4,7 37:17 45:1,7,15<br>48:13<br><b>newer</b> [1] 40:1<br><b>Newfoundland</b> [39] 3:2<br>3:16 4:9 6:3,9,14,19 8:14<br>8:15 14:15 15:20 16:3<br>21:24 22:2,4,17,17 23:18<br>26:8,20 30:22 31:3 33:22<br>35:20 36:21 38:6,8 40:14<br>41:3 42:7 45:21 49:15<br>49:16 50:14 52:1 57:3,5<br>57:7,10<br><b>NEWMAN</b> [1] 50:8<br><b>next</b> [5] 20:9,10 45:7 56:8<br>56:10<br><b>night</b> [1] 54:21<br><b>nine</b> [2] 18:1,2<br><b>non-electric</b> [1] 21:20<br><b>non-profit</b> [1] 47:19<br><b>nor</b> [1] 32:6<br><b>North</b> [1] 38:16<br><b>note</b> [2] 2:13,17<br><b>noted</b> [1] 24:3<br><b>nothing</b> [4] 5:10 15:21<br>25:19 50:22<br><b>Nova</b> [3] 2:24 47:14,17<br><b>November</b> [2] 42:9 55:2<br><b>now</b> [22] 1:18 8:9 17:4<br>17:22 18:6 20:14 21:23<br>24:11 27:9,11,24 32:24<br>34:11,18 36:23 37:7 41:2<br>42:11 45:11 47:20,21<br>51:21<br><b>number</b> [6] 4:12 5:23 6:5<br>11:23 16:24 38:8<br><b>numbers</b> [1] 50:19<br><b>numbers</b> [1] 9:7<br><b>numerous</b> [1] 45:18<br><hr/> <p style="text-align: center;"><b>-O-</b></p> <hr/> <b>October</b> [1] 42:9<br><b>off</b> [3] 17:14 23:3 29:15<br><b>offerings</b> [1] 11:21<br><b>official</b> [1] 50:21<br><b>officials</b> [1] 5:18<br><b>offset</b> [9] 4:6 22:11 27:4<br>27:13 30:11 31:13 34:10<br>44:24 45:12<br><b>often</b> [1] 55:19<br><b>oil</b> [11] 6:4 26:22 27:2,4<br>27:5,10 31:9 34:6,9,10<br>34:19 | <b>old</b> [9] 14:3 15:11,12 41:8<br>41:24 42:1,2 43:10 44:16<br><b>older</b> [5] 13:19 14:6<br>35:15 37:17 43:19<br><b>once</b> [2] 16:10 28:10<br><b>one</b> [40] 1:5 4:4,5 9:16<br>13:10 14:12 15:13 16:13<br>16:15 17:2,13,14,19,20<br>19:16,17,20 21:5,7,8,8<br>21:10 22:5,12 25:19 26:1<br>32:2 35:20,21 36:14<br>37:18 41:12 44:17 45:7<br>45:11 47:6 48:22 50:24<br>51:11 52:13<br><b>ones</b> [1] 55:2<br><b>one</b> [1] 12:17<br><b>Ontario</b> [1] 49:5<br><b>onto</b> [3] 1:10 30:20 33:13<br><b>operate</b> [2] 37:13 52:1<br><b>operates</b> [2] 52:17,23<br><b>operating</b> [6] 8:17 21:5<br>21:7 41:20 43:6 44:6<br><b>operation</b> [2] 5:14 39:3<br><b>Operations</b> [1] 6:10<br><b>opinion</b> [3] 14:20 32:12<br>35:10<br><b>opportunities</b> [8] 28:22<br>29:5,7 31:6,11,13 32:3<br>36:20<br><b>opportunities</b> [1] 30:5<br><b>opportunity</b> [1] 35:18<br><b>opposing</b> [1] 6:2<br><b>options</b> [3] 13:13 34:23<br>40:15<br><b>options</b> [1] 6:6<br><b>original</b> [1] 43:14<br><b>otherwise</b> [1] 19:12<br><b>outage</b> [1] 48:10<br><b>outdoor</b> [4] 35:24 54:24<br>55:1,1<br><b>outdoors</b> [1] 41:17<br><b>outset</b> [1] 26:13<br><b>outside</b> [1] 53:13<br><b>overall</b> [5] 11:17 15:6<br>24:5 29:21 40:4<br><b>oversized</b> [1] 48:11<br><b>own</b> [2] 10:2 12:15<br><b>owners</b> [1] 13:21<br><b>OXFORD</b> [1] 50:10<br><hr/> <p style="text-align: center;"><b>-P-</b></p> <hr/> <b>page</b> [8] 27:18 32:13,20<br>32:21,22 34:1 47:9 51:5<br><b>pages</b> [2] 46:24 51:4<br><b>paned</b> [1] 26:2<br><b>parent</b> [1] 15:21<br><b>part</b> [8] 1:18 10:1 24:10<br>36:24 39:2,3 41:14 52:5<br><b>participant's</b> [1] 40:18<br><b>participants</b> [4] 11:24<br>12:5 39:16,18<br><b>participate</b> [1] 11:5 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>particularly</b> [1] 12:1</p> <p><b>partner</b> [2] 45:22 47:11</p> <p><b>pass</b> [1] 34:14</p> <p><b>past</b> [2] 9:18 28:24</p> <p><b>pay</b> [2] 40:12 49:5</p> <p><b>payback</b> [5] 9:8,9,15 10:3,4</p> <p><b>payer</b> [3] 48:16 49:12,14</p> <p><b>payers</b> [6] 15:1 22:24 25:23 26:19 31:17,23</p> <p><b>pays</b> [2] 48:10,16</p> <p><b>peak</b> [21] 36:10 38:2,4 40:2,4 41:22 43:8 44:7,9 44:13,23 45:4,5,9 48:1,2 48:4,5,6 49:3,13</p> <p><b>Pearl</b> [1] 43:10</p> <p><b>people</b> [2] 53:4 54:20</p> <p><b>people's</b> [1] 8:23</p> <p><b>per</b> [26] 6:4 16:12 21:16 22:8 24:7 25:21 26:9 27:1,12 30:24 31:8 35:16 35:23 36:5,9 37:19,24 38:22,24 42:7,23 45:2 45:16 46:4 47:21 49:6</p> <p><b>percent</b> [70] 3:17,18,20 5:8 8:7,8 15:5,6 16:13 16:15,15,16 17:14 18:18 18:19 19:2 23:22 24:1,3 24:6,10,16,21,23 25:5,6 25:9,10 26:21,22 27:21 28:2,3,4,6,12,20,23 29:1 30:14,15,17 31:3 32:11 32:13 33:6,7,15,16 35:14 35:15 36:12 37:12 39:1 39:15,15,16 40:12 41:13 42:9,9,10,10,15,24 43:17 44:12,20 48:20 55:14</p> <p><b>percentage</b> [6] 23:16,21 24:9 25:2 43:18 44:12</p> <p><b>percentage-wise</b> [1] 43:23</p> <p><b>percentages</b> [1] 28:13</p> <p><b>performance</b> [8] 25:12 25:13 37:20 39:1 40:2 41:20 43:7 51:22</p> <p><b>performed</b> [1] 39:4</p> <p><b>perhaps</b> [2] 9:4 21:23</p> <p><b>period</b> [1] 8:5</p> <p><b>perspective</b> [3] 7:11 40:19 45:3</p> <p><b>pertaining</b> [1] 5:22</p> <p><b>Petty</b> [1] 44:16</p> <p><b>phone</b> [1] 5:23</p> <p><b>piece</b> [1] 49:23</p> <p><b>pilot</b> [4] 38:18 39:8 41:3 41:4</p> <p><b>place</b> [1] 54:9</p> <p><b>plan</b> [42] 2:15 3:22,23 4:7 4:11,14 5:9,18 6:7 7:9 7:22 12:23 14:3 15:4,12 19:24 22:4,19,21 23:5 23:10 24:22 26:5,7,8,19 26:24 27:17 28:1 29:9 29:19,22 31:1,22 36:24 37:1 45:18,22 48:3,18 49:2,9</p> | <p><b>planned</b> [1] 26:24</p> <p><b>planning</b> [3] 15:17 25:15 26:9</p> <p><b>plans</b> [5] 4:20 14:9 25:1 30:21 48:17</p> <p><b>plastic</b> [2] 26:1,5</p> <p><b>plot</b> [1] 17:6</p> <p><b>plotted</b> [1] 18:20</p> <p><b>plus</b> [3] 41:9,11 46:3</p> <p><b>point</b> [2] 7:12 43:17</p> <p><b>points</b> [1] 50:16</p> <p><b>policy</b> [1] 39:20</p> <p><b>poor</b> [1] 48:17</p> <p><b>possible</b> [1] 15:8</p> <p><b>potential</b> [4] 5:5 28:19 29:3 43:22</p> <p><b>power</b> [31] 3:16 4:5,9 6:3 6:9,14,19 8:14 13:12 14:15 19:19 21:24 22:3 22:4,17 23:16,17 31:5 38:3,8,17 42:8,17 45:21 48:12 49:15,18 50:14 52:6 53:3 57:3</p> <p><b>Power's</b> [2] 15:20 16:3</p> <p><b>prefer</b> [2] 40:7 54:21</p> <p><b>prefers</b> [1] 21:24</p> <p><b>preliminary</b> [2] 1:5 34:16</p> <p><b>present</b> [5] 5:9 27:6 31:21 35:1 36:24</p> <p><b>President</b> [2] 6:10 16:4</p> <p><b>pretty</b> [1] 9:10</p> <p><b>previous</b> [1] 37:1</p> <p><b>price</b> [2] 7:16 21:9</p> <p><b>prices</b> [1] 27:2</p> <p><b>primarily</b> [2] 3:6,8</p> <p><b>primary</b> [3] 6:24 7:15 48:7</p> <p><b>principle</b> [1] 14:1</p> <p><b>problem</b> [2] 48:5,9</p> <p><b>problems</b> [1] 33:20</p> <p><b>proceed</b> [2] 1:4 2:2</p> <p><b>proceeding</b> [1] 2:5</p> <p><b>proceedings</b> [2] 5:19 6:14</p> <p><b>process</b> [1] 4:18</p> <p><b>procure</b> [1] 29:15</p> <p><b>produce</b> [1] 8:21</p> <p><b>produced</b> [1] 32:17</p> <p><b>produces</b> [1] 24:5</p> <p><b>producing</b> [1] 5:16</p> <p><b>production</b> [2] 31:14 44:14</p> <p><b>products</b> [4] 32:4 35:5 51:1,4</p> <p><b>profits</b> [1] 3:19</p> <p><b>program</b> [17] 7:1,4,23 8:8 10:21,21 11:6,7,17 12:4 13:18 25:15,17 27:3 27:13 28:10 47:11</p> <p><b>programs</b> [11] 6:24 8:1 9:13,14,18 15:10 28:9</p> | <p>40:14 47:1,2 55:16</p> <p><b>program"</b> [1] 10:1</p> <p><b>progress</b> [4] 19:6,7,11 24:14</p> <p><b>progressive</b> [1] 25:1</p> <p><b>project</b> [1] 38:18</p> <p><b>promoted</b> [2] 11:10 47:16</p> <p><b>promoting</b> [1] 25:16</p> <p><b>promotion</b> [1] 10:23</p> <p><b>proper</b> [1] 4:17</p> <p><b>properly</b> [1] 28:8</p> <p><b>proposal</b> [1] 23:3</p> <p><b>proposed</b> [2] 31:1 49:10</p> <p><b>protection</b> [1] 3:3</p> <p><b>proven</b> [1] 15:15</p> <p><b>provide</b> [3] 9:23 12:8 37:14</p> <p><b>provided</b> [1] 5:3</p> <p><b>provincial</b> [1] 29:9</p> <p><b>PUB</b> [1] 6:16</p> <p><b>public</b> [2] 1:14 57:6</p> <p><b>pump</b> [11] 36:22 37:11 39:20 41:10,18 43:3,24 44:21 46:15,17,19</p> <p><b>pumps</b> [5] 37:22 39:23 47:17 49:9 51:9</p> <p><b>put</b> [12] 2:16 4:13 7:11 9:24 33:2 46:17,23 49:14 51:20 53:16,17,20</p> <p><b>puts</b> [2] 14:16 26:1</p> <p><b>putting</b> [2] 33:12 54:13</p>                                                                                        | <p><b>ratings</b> [1] 39:5</p> <p><b>ratio</b> [1] 32:23</p> <p><b>ratios</b> [1] 40:16</p> <p><b>re-evaluate</b> [1] 35:5</p> <p><b>re-evaluated</b> [1] 35:1</p> <p><b>reach</b> [4] 7:1 10:8,12 11:1</p> <p><b>reaching</b> [1] 10:6</p> <p><b>read</b> [3] 6:16 42:1 48:21</p> <p><b>readily</b> [1] 13:11</p> <p><b>real</b> [3] 18:22 19:5 53:19</p> <p><b>realistic</b> [1] 40:11</p> <p><b>reality</b> [2] 18:17 20:20</p> <p><b>really</b> [5] 13:5 53:21 54:2 55:9,17</p> <p><b>reasonable</b> [4] 22:5,5 22:19 25:17</p> <p><b>rebate</b> [2] 11:15 30:15</p> <p><b>received</b> [7] 1:10,11,13 1:14,15,16 6:1</p> <p><b>recent</b> [4] 3:13 4:3 42:20 48:18</p> <p><b>recently</b> [1] 29:2</p> <p><b>recommendations</b> [1] 5:3</p> <p><b>record</b> [3] 1:11,18 51:14</p> <p><b>recordings</b> [1] 55:12</p> <p><b>recovery</b> [2] 46:2,21</p> <p><b>redirected</b> [1] 13:19</p> <p><b>reduce</b> [6] 30:12 31:23 32:17 48:15,19 49:13</p> <p><b>reduced</b> [1] 30:18</p> <p><b>reduces</b> [4] 32:11,12 37:11 45:5</p> <p><b>reduction</b> [19] 24:5,11 31:16 36:3,10,11 38:2 41:12,22 42:7 43:1,9,16 44:8,9,23 45:4 48:2 49:7</p> <p><b>reductions</b> [8] 8:4 15:9 27:10 30:24 42:11,14 48:3 49:1</p> <p><b>refer</b> [1] 28:6</p> <p><b>referred</b> [2] 20:18 50:14</p> <p><b>refers</b> [3] 18:16 32:15 34:11</p> <p><b>reflect</b> [1] 18:11</p> <p><b>reflected</b> [2] 7:16 27:2</p> <p><b>reflection</b> [1] 9:6</p> <p><b>refrigerator</b> [1] 33:3</p> <p><b>refrigerators</b> [1] 32:7</p> <p><b>regard</b> [1] 16:5</p> <p><b>regular</b> [2] 13:6 39:21</p> <p><b>relative</b> [1] 9:10</p> <p><b>relatively</b> [1] 7:19</p> <p><b>relaying</b> [1] 3:3</p> <p><b>reliability</b> [1] 7:15</p> <p><b>reluctantly</b> [1] 13:15</p> <p><b>remaining</b> [2] 29:5,6</p> <p><b>remains</b> [1] 24:9</p> <p><b>remarkable</b> [2] 39:2 54:2</p> | <p><b>remember</b> [1] 11:18</p> <p><b>remote</b> [2] 41:16 53:10</p> <p><b>replaced</b> [1] 49:16</p> <p><b>replacement</b> [1] 37:20</p> <p><b>replied</b> [2] 5:21 6:8</p> <p><b>replies</b> [3] 9:11 10:2,16</p> <p><b>report</b> [6] 14:14 30:7 32:10,14 36:8 50:14</p> <p><b>representing</b> [1] 19:5</p> <p><b>represents</b> [1] 40:17</p> <p><b>request</b> [1] 50:13</p> <p><b>require</b> [1] 37:17</p> <p><b>requirement</b> [1] 37:15</p> <p><b>requirements</b> [1] 33:9</p> <p><b>requires</b> [2] 31:17 50:20</p> <p><b>research</b> [4] 37:3,10 38:9,16</p> <p><b>residential</b> [19] 2:7 3:14 6:1 7:5 10:1 11:21 21:3 21:17 22:23 23:17,19 24:9 37:6 38:7 45:19 47:7 49:6,8,20</p> <p><b>resistant</b> [1] 39:21</p> <p><b>resolving</b> [1] 29:14</p> <p><b>resource</b> [2] 29:19,21</p> <p><b>resources</b> [1] 4:18</p> <p><b>respect</b> [1] 2:15</p> <p><b>responded</b> [1] 6:23</p> <p><b>responding</b> [1] 7:14</p> <p><b>responds</b> [2] 6:19,21</p> <p><b>response</b> [2] 22:5 50:21</p> <p><b>responsibility</b> [1] 14:24</p> <p><b>restate</b> [1] 30:1</p> <p><b>result</b> [3] 15:6 30:22 39:19</p> <p><b>resulted</b> [1] 7:23</p> <p><b>results</b> [5] 4:18 5:16 29:2 29:17 39:24</p> <p><b>retrofits</b> [1] 49:6</p> <p><b>return</b> [1] 40:17</p> <p><b>revenue</b> [4] 24:13,16 25:2 28:4</p> <p><b>revenues</b> [4] 25:5 27:22 28:20 29:1</p> <p><b>review</b> [2] 27:19 29:3</p> <p><b>reviewed</b> [1] 34:13</p> <p><b>revolution</b> [2] 47:14,16</p> <p><b>right</b> [5] 1:19 4:15 27:24 32:19,22</p> <p><b>rise</b> [2] 16:23 43:13</p> <p><b>risen</b> [1] 27:6</p> <p><b>rising</b> [1] 42:4</p> <p><b>Road</b> [1] 57:7</p> <p><b>robust</b> [1] 15:19</p> <p><b>room</b> [1] 44:4</p> <p><b>run</b> [1] 53:10</p> |
| -Q-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>Q.C</b> [2] 50:2,6</p> <p><b>qualifies</b> [1] 11:7</p> <p><b>Quebec</b> [1] 49:7</p> <p><b>questioned</b> [2] 5:22 23:6</p> <p><b>questions</b> [6] 4:13 5:21 6:12 50:1,9,11</p> <p><b>quite</b> [2] 35:4 46:8</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>R-2</b> [1] 26:2</p> <p><b>R-2000</b> [9] 43:10,19,21 43:23 45:9 52:14 53:24 54:3,7</p> <p><b>R-4</b> [1] 26:3</p> <p><b>raise</b> [2] 3:16,19</p> <p><b>raised</b> [2] 14:20 50:16</p> <p><b>ramping</b> [1] 28:11</p> <p><b>range</b> [1] 40:16</p> <p><b>rapid</b> [1] 28:14</p> <p><b>rate</b> [18] 2:14 3:17 4:3 6:2 15:1,2 22:13,24 25:23 26:19 29:20 30:15 31:16,23 48:16 49:12,14 57:4</p> <p><b>rates</b> [4] 29:17 30:3,14 49:17</p> <p><b>rather</b> [1] 37:3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p><b>re</b> [1] 26:2</p> <p><b>re-2000</b> [9] 43:10,19,21 43:23 45:9 52:14 53:24 54:3,7</p> <p><b>re-4</b> [1] 26:3</p> <p><b>re-raise</b> [2] 3:16,19</p> <p><b>re-raised</b> [2] 14:20 50:16</p> <p><b>re-ramping</b> [1] 28:11</p> <p><b>re-range</b> [1] 40:16</p> <p><b>re-rapid</b> [1] 28:14</p> <p><b>re-rate</b> [18] 2:14 3:17 4:3 6:2 15:1,2 22:13,24 25:23 26:19 29:20 30:15 31:16,23 48:16 49:12,14 57:4</p> <p><b>re-rates</b> [4] 29:17 30:3,14 49:17</p> <p><b>re-rather</b> [1] 37:3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p><b>re-reduce</b> [6] 30:12 31:23 32:17 48:15,19 49:13</p> <p><b>re-reduced</b> [1] 30:18</p> <p><b>re-reduces</b> [4] 32:11,12 37:11 45:5</p> <p><b>re-reduction</b> [19] 24:5,11 31:16 36:3,10,11 38:2 41:12,22 42:7 43:1,9,16 44:8,9,23 45:4 48:2 49:7</p> <p><b>re-reductions</b> [8] 8:4 15:9 27:10 30:24 42:11,14 48:3 49:1</p> <p><b>re-refer</b> [1] 28:6</p> <p><b>re-referred</b> [2] 20:18 50:14</p> <p><b>re-refers</b> [3] 18:16 32:15 34:11</p> <p><b>re-reflect</b> [1] 18:11</p> <p><b>re-reflected</b> [2] 7:16 27:2</p> <p><b>re-reflection</b> [1] 9:6</p> <p><b>re-refrigerator</b> [1] 33:3</p> <p><b>re-refrigerators</b> [1] 32:7</p> <p><b>re-regard</b> [1] 16:5</p> <p><b>re-regular</b> [2] 13:6 39:21</p> <p><b>re-relative</b> [1] 9:10</p> <p><b>re-relatively</b> [1] 7:19</p> <p><b>re-relaying</b> [1] 3:3</p> <p><b>re-reliability</b> [1] 7:15</p> <p><b>re-reluctantly</b> [1] 13:15</p> <p><b>re-remaining</b> [2] 29:5,6</p> <p><b>re-remains</b> [1] 24:9</p> <p><b>re-remarkable</b> [2] 39:2 54:2</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p><b>re-representing</b> [1] 19:5</p> <p><b>re-represents</b> [1] 40:17</p> <p><b>re-request</b> [1] 50:13</p> <p><b>re-require</b> [1] 37:17</p> <p><b>re-requirement</b> [1] 37:15</p> <p><b>re-requirements</b> [1] 33:9</p> <p><b>re-requires</b> [2] 31:17 50:20</p> <p><b>re-research</b> [4] 37:3,10 38:9,16</p> <p><b>re-residential</b> [19] 2:7 3:14 6:1 7:5 10:1 11:21 21:3 21:17 22:23 23:17,19 24:9 37:6 38:7 45:19 47:7 49:6,8,20</p> <p><b>re-resistant</b> [1] 39:21</p> <p><b>re-resolving</b> [1] 29:14</p> <p><b>re-resource</b> [2] 29:19,21</p> <p><b>re-resources</b> [1] 4:18</p> <p><b>re-respect</b> [1] 2:15</p> <p><b>re-responded</b> [1] 6:23</p> <p><b>re-responding</b> [1] 7:14</p> <p><b>re-responds</b> [2] 6:19,21</p> <p><b>re-response</b> [2] 22:5 50:21</p> <p><b>re-responsibility</b> [1] 14:24</p> <p><b>re-restate</b> [1] 30:1</p> <p><b>re-result</b> [3] 15:6 30:22 39:19</p> <p><b>re-resulted</b> [1] 7:23</p> <p><b>re-results</b> [5] 4:18 5:16 29:2 29:17 39:24</p> <p><b>re-retrofits</b> [1] 49:6</p> <p><b>re-return</b> [1] 40:17</p> <p><b>re-revenue</b> [4] 24:13,16 25:2 28:4</p> <p><b>re-revenues</b> [4] 25:5 27:22 28:20 29:1</p> <p><b>re-review</b> [2] 27:19 29:3</p> <p><b>re-reviewed</b> [1] 34:13</p> <p><b>re-revolution</b> [2] 47:14,16</p> <p><b>re-right</b> [5] 1:19 4:15 27:24 32:19,22</p> <p><b>re-rise</b> [2] 16:23 43:13</p> <p><b>re-risen</b> [1] 27:6</p> <p><b>re-rising</b> [1] 42:4</p> <p><b>re-Road</b> [1] 57:7</p> <p><b>re-robust</b> [1] 15:19</p> <p><b>re-room</b> [1] 44:4</p> <p><b>re-run</b> [1] 53:10</p>                                                                                                                                                            |
| -R-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>R-2</b> [1] 26:2</p> <p><b>R-2000</b> [9] 43:10,19,21 43:23 45:9 52:14 53:24 54:3,7</p> <p><b>R-4</b> [1] 26:3</p> <p><b>raise</b> [2] 3:16,19</p> <p><b>raised</b> [2] 14:20 50:16</p> <p><b>ramping</b> [1] 28:11</p> <p><b>range</b> [1] 40:16</p> <p><b>rapid</b> [1] 28:14</p> <p><b>rate</b> [18] 2:14 3:17 4:3 6:2 15:1,2 22:13,24 25:23 26:19 29:20 30:15 31:16,23 48:16 49:12,14 57:4</p> <p><b>rates</b> [4] 29:17 30:3,14 49:17</p> <p><b>rather</b> [1] 37:3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>re</b> [1] 26:2</p> <p><b>re-2000</b> [9] 43:10,19,21 43:23 45:9 52:14 53:24 54:3,7</p> <p><b>re-4</b> [1] 26:3</p> <p><b>re-raise</b> [2] 3:16,19</p> <p><b>re-raised</b> [2] 14:20 50:16</p> <p><b>re-ramping</b> [1] 28:11</p> <p><b>re-range</b> [1] 40:16</p> <p><b>re-rapid</b> [1] 28:14</p> <p><b>re-rate</b> [18] 2:14 3:17 4:3 6:2 15:1,2 22:13,24 25:23 26:19 29:20 30:15 31:16,23 48:16 49:12,14 57:4</p> <p><b>re-rates</b> [4] 29:17 30:3,14 49:17</p> <p><b>re-rather</b> [1] 37:3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p><b>re-reduce</b> [6] 30:12 31:23 32:17 48:15,19 49:13</p> <p><b>re-reduced</b> [1] 30:18</p> <p><b>re-reduces</b> [4] 32:11,12 37:11 45:5</p> <p><b>re-reduction</b> [19] 24:5,11 31:16 36:3,10,11 38:2 41:12,22 42:7 43:1,9,16 44:8,9,23 45:4 48:2 49:7</p> <p><b>re-reductions</b> [8] 8:4 15:9 27:10 30:24 42:11,14 48:3 49:1</p> <p><b>re-refer</b> [1] 28:6</p> <p><b>re-referred</b> [2] 20:18 50:14</p> <p><b>re-refers</b> [3] 18:16 32:15 34:11</p> <p><b>re-reflect</b> [1] 18:11</p> <p><b>re-reflected</b> [2] 7:16 27:2</p> <p><b>re-reflection</b> [1] 9:6</p> <p><b>re-refrigerator</b> [1] 33:3</p> <p><b>re-refrigerators</b> [1] 32:7</p> <p><b>re-regard</b> [1] 16:5</p> <p><b>re-regular</b> [2] 13:6 39:21</p> <p><b>re-relative</b> [1] 9:10</p> <p><b>re-relatively</b> [1] 7:19</p> <p><b>re-relaying</b> [1] 3:3</p> <p><b>re-reliability</b> [1] 7:15</p> <p><b>re-reluctantly</b> [1] 13:15</p> <p><b>re-remaining</b> [2] 29:5,6</p> <p><b>re-remains</b> [1] 24:9</p> <p><b>re-remarkable</b> [2] 39:2 54:2</p> | <p><b>re-representing</b> [1] 19:5</p> <p><b>re-represents</b> [1] 40:17</p> <p><b>re-request</b> [1] 50:13</p> <p><b>re-require</b> [1] 37:17</p> <p><b>re-requirement</b> [1] 37:15</p> <p><b>re-requirements</b> [1] 33:9</p> <p><b>re-requires</b> [2] 31:17 50:20</p> <p><b>re-research</b> [4] 37:3,10 38:9,16</p> <p><b>re-residential</b> [19] 2:7 3:14 6:1 7:5 10:1 11:21 21:3 21:17 22:23 23:17,19 24:9 37:6 38:7 45:19 47:7 49:6,8,20</p> <p><b>re-resistant</b> [1] 39:21</p> <p><b>re-resolving</b> [1] 29:14</p> <p><b>re-resource</b> [2] 29:19,21</p> <p><b>re-resources</b> [1] 4:18</p> <p><b>re-respect</b> [1] 2:15</p> <p><b>re-responded</b> [1] 6:23</p> <p><b>re-responding</b> [1] 7:14</p> <p><b>re-responds</b> [2] 6:19,21</p> <p><b>re-response</b> [2] 22:5 50:21</p> <p><b>re-responsibility</b> [1] 14:24</p> <p><b>re-restate</b> [1] 30:1</p> <p><b>re-result</b> [3] 15:6 30:22 39:19</p> <p><b>re-resulted</b> [1] 7:23</p> <p><b>re-results</b> [5] 4:18 5:16 29:2 29:17 39:24</p> <p><b>re-retrofits</b> [1] 49:6</p> <p><b>re-return</b> [1] 40:17</p> <p><b>re-revenue</b> [4] 24:13,16 25:2 28:4</p> <p><b>re-revenues</b> [4] 25:5 27:22 28:20 29:1</p> <p><b>re-review</b> [2] 27:19 29:3</p> <p><b>re-reviewed</b> [1] 34:13</p> <p><b>re-revolution</b> [2] 47:14,16</p> <p><b>re-right</b> [5] 1:19 4:15 27:24 32:19,22</p> <p><b>re-rise</b> [2] 16:23 43:13</p> <p><b>re-risen</b> [1] 27:6</p> <p><b>re-rising</b> [1] 42:4</p> <p><b>re-Road</b> [1] 57:7</p> <p><b>re-robust</b> [1] 15:19</p> <p><b>re-room</b> [1] 44:4</p> <p><b>re-run</b> [1] 53:10</p>                                                                                                                                                                                                                                                               | <p><b>re</b> [1] 26:2</p> <p><b>re-2000</b> [9] 43:10,19,21 43:23 45:9 52:14 53:24 54:3,7</p> <p><b>re-4</b> [1] 26:3</p> <p><b>re-raise</b> [2] 3:16,19</p> <p><b>re-raised</b> [2] 14:20 50:16</p> <p><b>re-ramping</b> [1] 28:11</p> <p><b>re-range</b> [1] 40:16</p> <p><b>re-rapid</b> [1] 28:14</p> <p><b>re-rate</b> [18] 2:14 3:17 4:3 6:2 15:1,2 22:13,24 25:23 26:19 29:20 30:15 31:16,23 48:16 49:12,14 57:4</p> <p><b>re-rates</b> [4] 29:17 30:3,14 49:17</p> <p><b>re-rather</b> [1] 37:3</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -S-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p><b>sale</b> [1] 24:13</p> <p><b>sales</b> [14] 15:19 23:12,16 23:17,19,22,23 24:1,5,6</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>24:18,21 25:2 28:12<br/> <b>sample</b> [1] 53:2<br/> <b>satisfaction</b> [3] 7:17,19 40:5<br/> <b>satisfied</b> [3] 4:11 5:9 39:16<br/> <b>save</b> [9] 13:16 16:10,14 17:19,21 30:16 33:20 38:11 55:20<br/> <b>saved</b> [3] 18:18 20:22 39:11<br/> <b>savers</b> [1] 47:12<br/> <b>saves</b> [5] 16:13 26:3 27:3 36:3 46:21<br/> <b>saving</b> [26] 2:6,9,11 13:5 16:8,19 17:3,4,23 18:5 21:3,12 22:13 25:9 25:11,22 32:11 33:5 34:5 38:24 40:2 43:1 45:4,6,8<br/> <b>savings</b> [76] 4:17 7:7,24 8:4,8,21 12:19 13:24 14:2,2,3,15 15:9,16,18 15:24 16:7,24 17:6,7 18:1,6,8,12,14,20,21,22 18:24 19:2,3,6,7,8,9,10 19:10,14,15,18,23 20:1 20:2,21 21:13,16,19,21 22:3 23:11,14,15,18,20 23:24 24:4,7 25:8,13 31:2 32:2,5,8 34:24 36:16,17,21 38:14,24 39:14 40:11,21 43:2,20 44:20 47:8<br/> <b>saying</b> [1] 11:22<br/> <b>says</b> [22] 9:6,8,20 10:8 10:11 11:11,16,19,22,24 12:3,7,17 13:20,20 14:4 30:2 32:16 33:1,7 34:12 36:21<br/> <b>scale</b> [8] 30:6 31:18,24 32:5 35:11 40:6 47:8 48:1<br/> <b>scaled</b> [1] 15:5<br/> <b>schools</b> [1] 3:10<br/> <b>scope</b> [2] 7:2 34:13<br/> <b>Scotia</b> [3] 2:24 47:14,17<br/> <b>screen</b> [1] 34:15<br/> <b>sealed</b> [1] 43:22<br/> <b>sealing</b> [7] 36:8,11 45:24 46:3,5,6 48:23<br/> <b>season</b> [1] 39:10<br/> <b>seasons</b> [1] 33:23<br/> <b>second</b> [2] 2:16 47:6<br/> <b>secure</b> [1] 29:21<br/> <b>see</b> [15] 5:13 8:16 11:21 17:15 19:6,7,19,23 20:16 21:23 22:9 23:12 44:8 46:6 48:22<br/> <b>seeking</b> [1] 5:20<br/> <b>seeks</b> [2] 3:16,19<br/> <b>select</b> [1] 39:18<br/> <b>selected</b> [1] 49:11<br/> <b>selection</b> [1] 25:16<br/> <b>seniors</b> [1] 40:9<br/> <b>sense</b> [1] 17:21</p> | <p><b>sensitivity</b> [2] 34:3,13<br/> <b>sentence</b> [1] 30:1<br/> <b>serious</b> [1] 4:20<br/> <b>serve</b> [2] 41:2,9<br/> <b>services</b> [1] 49:20<br/> <b>set</b> [1] 29:8<br/> <b>seven</b> [2] 3:18 38:23<br/> <b>several</b> [3] 5:15 31:10 46:7<br/> <b>shameful</b> [1] 22:22<br/> <b>shareholders</b> [1] 15:20<br/> <b>sheets</b> [2] 47:5,6<br/> <b>shell</b> [1] 41:9<br/> <b>shift</b> [1] 32:8<br/> <b>shifting</b> [1] 33:12<br/> <b>short</b> [2] 29:17 30:2<br/> <b>shortcuts</b> [1] 55:19<br/> <b>shot</b> [1] 48:16<br/> <b>show</b> [6] 4:10 17:11 33:5 45:3 47:5 53:5<br/> <b>showed</b> [1] 36:8<br/> <b>showers</b> [1] 46:22<br/> <b>shown</b> [2] 7:17 17:1<br/> <b>shown</b> [1] 9:19<br/> <b>shows</b> [10] 7:18 22:11,22 24:2 31:2,12 35:9 37:10 38:16 42:8<br/> <b>sic</b> [1] 10:16<br/> <b>side</b> [1] 17:13<br/> <b>sign</b> [1] 23:3<br/> <b>signed</b> [1] 30:20<br/> <b>significant</b> [5] 35:19 38:11 43:21 46:21 48:23<br/> <b>significantly</b> [2] 28:3 29:11<br/> <b>similar</b> [1] 28:18<br/> <b>simple</b> [1] 40:17<br/> <b>single</b> [7] 15:2 17:1 38:19 39:13 40:23 41:9 42:2<br/> <b>sister</b> [1] 45:20<br/> <b>sites</b> [5] 5:15 38:21,23 39:8 41:5<br/> <b>situations</b> [1] 35:2<br/> <b>six</b> [4] 20:23 25:7 52:11 53:8<br/> <b>size</b> [6] 2:10 44:11 47:22 53:15 55:9,20<br/> <b>sized</b> [1] 55:3<br/> <b>sizes</b> [1] 51:12<br/> <b>sizing</b> [2] 55:14,18<br/> <b>slab</b> [1] 41:7<br/> <b>small</b> [17] 7:4 10:20 12:12 13:24 14:8 15:14 15:18 16:5 24:4 26:6 31:20 32:6 38:18 44:3,4 44:16 47:12<br/> <b>smaller</b> [2] 12:19 45:11<br/> <b>Smith</b> [17] 6:18,20 7:21 9:6,11 10:1,8 11:16,22 12:3,17,24 13:9,14,20 16:4 20:19<br/> <b>snap</b> [1] 55:6</p> | <p><b>solar</b> [2] 41:18 47:4<br/> <b>solution</b> [2] 39:24 48:13<br/> <b>sometimes</b> [1] 33:23<br/> <b>sorry</b> [1] 41:24<br/> <b>sort</b> [2] 8:11 55:24<br/> <b>sought</b> [2] 4:23 23:6<br/> <b>sound</b> [1] 57:9<br/> <b>sounds</b> [1] 22:1<br/> <b>source</b> [6] 26:20 30:9 37:3,22 41:14 49:8<br/> <b>sources</b> [1] 30:11<br/> <b>southern</b> [1] 33:19<br/> <b>so</b> [1] 11:24<br/> <b>space</b> [9] 5:7,10,14 31:18 32:19 35:13 36:20 39:14 46:14<br/> <b>speak</b> [1] 9:15<br/> <b>specific</b> [1] 14:8<br/> <b>specifications</b> [1] 51:22<br/> <b>spectacle</b> [1] 14:21<br/> <b>speed</b> [1] 38:13<br/> <b>spend</b> [3] 8:24 25:4 27:15<br/> <b>spending</b> [11] 9:3 24:12 24:18,20,22 25:2,7,14 27:13 28:4 29:13<br/> <b>spends</b> [1] 15:16<br/> <b>split</b> [1] 37:11<br/> <b>spoke</b> [1] 12:12<br/> <b>spoken</b> [1] 14:7<br/> <b>spot</b> [1] 55:22<br/> <b>Spring</b> [1] 39:2<br/> <b>square</b> [5] 35:22 41:7 44:17 52:9,15<br/> <b>St</b> [3] 8:9 57:7,10<br/> <b>stable</b> [1] 7:19<br/> <b>stage</b> [1] 36:23<br/> <b>stages</b> [1] 28:8<br/> <b>stages</b> [1] 27:24<br/> <b>standards</b> [2] 8:9,13<br/> <b>Star</b> [2] 46:2 47:3<br/> <b>start</b> [1] 2:4<br/> <b>started</b> [1] 4:22<br/> <b>state</b> [1] 2:19<br/> <b>states</b> [2] 28:19 30:6<br/> <b>station</b> [1] 36:13<br/> <b>stay</b> [1] 33:10<br/> <b>still</b> [6] 9:1 20:12 28:1,3 43:20 44:5<br/> <b>stock</b> [6] 9:2 10:6,7 11:14 14:7 35:15<br/> <b>stock</b> [1] 9:5<br/> <b>storey</b> [1] 42:2<br/> <b>strategy</b> [3] 15:18,19,22<br/> <b>studies</b> [1] 38:14<br/> <b>study</b> [8] 27:18,18 28:5 29:3 30:6 36:22 41:3,4<br/> <b>styles</b> [1] 41:5<br/> <b>subject</b> [1] 6:17<br/> <b>subjected</b> [1] 15:2<br/> <b>submit</b> [4] 19:14 22:21</p> | <p>23:1,4<br/> <b>subsequent</b> [1] 19:9<br/> <b>substantial</b> [1] 27:10<br/> <b>substantially</b> [1] 35:3<br/> <b>substation</b> [1] 3:3<br/> <b>success</b> [2] 19:15 39:6<br/> <b>successful</b> [2] 7:14 12:13<br/> <b>such</b> [7] 12:3,4 18:19 23:3 25:3 37:1 40:3<br/> <b>sufficient</b> [2] 25:22 27:3<br/> <b>sufficiently</b> [1] 4:14<br/> <b>suggest</b> [2] 29:9 33:16<br/> <b>suggests</b> [3] 25:14 35:9 42:13<br/> <b>suitable</b> [1] 37:16<br/> <b>summarize</b> [2] 6:17 7:13<br/> <b>summary</b> [1] 13:14<br/> <b>summer</b> [2] 40:4 48:6<br/> <b>superior</b> [2] 13:1 40:8<br/> <b>supplemental</b> [1] 37:16<br/> <b>supply</b> [1] 28:16<br/> <b>suspect</b> [1] 4:8<br/> <b>sustained</b> [1] 49:2<br/> <b>sworn</b> [1] 1:21<br/> <b>symbol</b> [1] 47:9<br/> <b>system</b> [13] 16:11 21:12 23:16 38:1 39:4 41:14 41:22 43:8 44:3,7,23 46:17 49:13<br/> <b>systems</b> [3] 3:6,12 49:21</p> <hr/> <p style="text-align: center;"><b>-T-</b></p> <p><b>t</b> [1] 25:17<br/> <b>takes</b> [4] 17:14 18:2 28:8 36:1<br/> <b>target</b> [3] 9:5 14:6 39:21<br/> <b>targeting</b> [3] 4:15 31:17 40:20<br/> <b>targets</b> [7] 11:12,16,20 12:4,8 29:8,12<br/> <b>targets</b> [1] 12:3<br/> <b>tax</b> [1] 40:15<br/> <b>Tech</b> [1] 2:24<br/> <b>technical</b> [1] 4:23<br/> <b>technologies</b> [8] 4:15 5:12 7:4 12:12 14:8 27:9 31:18 35:4<br/> <b>technology</b> [14] 5:7,14 10:20 14:1 15:10,14,15 16:6 23:2 27:7 31:21 38:12 47:13 56:3<br/> <b>temperature</b> [4] 36:1 40:8 53:18 55:12<br/> <b>temperatures</b> [3] 52:2 54:15 55:8<br/> <b>ten</b> [4] 17:11 19:21 38:5 38:21<br/> <b>tends</b> [2] 29:20 32:18<br/> <b>tenfold</b> [1] 25:11<br/> <b>term</b> [3] 29:17 30:2 31:16<br/> <b>terms</b> [12] 8:24 9:8 12:9</p> | <p>12:14 16:24 19:5 23:22 24:17 25:1,8 43:18 44:24<br/> <b>test</b> [2] 10:2 27:4<br/> <b>testify</b> [1] 6:10<br/> <b>testimony</b> [1] 6:16<br/> <b>thank</b> [2] 56:5,10<br/> <b>that</b> [1] 11:16<br/> <b>them</b> [1] 11:19<br/> <b>therefore</b> [2] 19:15 31:4<br/> <b>thermal</b> [2] 26:22 27:1<br/> <b>thermostats</b> [3] 9:13,19 32:6<br/> <b>thermostats</b> [1] 10:10<br/> <b>they've</b> [2] 3:13 46:7<br/> <b>thing</b> [1] 16:1<br/> <b>think</b> [1] 13:3<br/> <b>third</b> [2] 20:7 38:23<br/> <b>thirty</b> [1] 3:7<br/> <b>this</b> [1] 10:14<br/> <b>thought</b> [1] 55:3<br/> <b>thousand</b> [1] 52:11<br/> <b>thousands</b> [1] 8:20<br/> <b>three</b> [8] 16:16 17:23,23 26:6 40:13 43:10 46:3 48:6<br/> <b>through</b> [4] 10:22 13:24 14:1 45:24<br/> <b>throughout</b> [1] 18:18<br/> <b>Thursday</b> [1] 6:10<br/> <b>times</b> [5] 22:12 25:7 26:5 31:14 48:6<br/> <b>Today</b> [1] 37:5<br/> <b>Tom</b> [1] 16:2<br/> <b>too</b> [6] 2:16 13:6 52:7 54:20 55:7,19<br/> <b>took</b> [1] 42:20<br/> <b>top</b> [5] 3:17 17:15 32:19 32:22 47:9<br/> <b>Torbay</b> [1] 57:7<br/> <b>total</b> [9] 8:3,4 20:15,15 20:16 42:6,12,13 52:11<br/> <b>totalled</b> [1] 44:2<br/> <b>towards</b> [1] 46:23<br/> <b>track</b> [1] 12:6<br/> <b>trade</b> [1] 29:15<br/> <b>training</b> [1] 2:23<br/> <b>transcribed</b> [1] 57:8<br/> <b>transcript</b> [1] 57:3<br/> <b>transferred</b> [1] 33:8<br/> <b>tremendous</b> [1] 17:8<br/> <b>trouble</b> [2] 5:12 53:4<br/> <b>true</b> [1] 57:3<br/> <b>try</b> [1] 10:16<br/> <b>trying</b> [1] 10:17<br/> <b>tubes</b> [1] 53:9<br/> <b>turbine</b> [1] 45:14<br/> <b>turn</b> [1] 1:19<br/> <b>turned</b> [1] 47:17<br/> <b>TV</b> [1] 10:9<br/> <b>twice</b> [1] 47:22</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <p><b>two</b> [23] 7:12 16:15 17:20 17:22,22 18:23,23 26:6 37:18 40:12 41:21 42:2 42:2 43:11,12 46:5,17 46:24 47:4,6 53:9 54:24 54:24</p> <p><b>type</b> [3] 9:15 10:22 46:15</p> <p><b>typical</b> [1] 53:6</p> <p><b>typically</b> [1] 33:5</p> <hr/> <p style="text-align: center;"><b>-U-</b></p> <hr/> <p><b>uncertainty</b> [1] 32:24</p> <p><b>under</b> [3] 34:15 53:19 55:20</p> <p><b>understand</b> [2] 34:21 48:9</p> <p><b>understood</b> [1] 24:14</p> <p><b>undertake</b> [1] 12:8</p> <p><b>undertook</b> [1] 48:19</p> <p><b>unenlightened</b> [1] 15:8</p> <p><b>unit</b> [25] 16:13 17:2,14 17:20,21 40:23 41:9,16 41:23 42:14 44:5 46:3 53:3,6,11,11,14,15,15 53:17,24 54:16 55:1,1 55:20</p> <p><b>United</b> [1] 30:6</p> <p><b>units</b> [33] 16:12 17:3,4,5 17:12,22,23 18:24,24 33:11 36:22 37:3,4,6,11 38:19 39:6 40:1 41:1 46:15,17 52:10 54:1,6 54:10,13,14,17,24 55:3 55:7,13,18</p> <p><b>unlike</b> [1] 12:18</p> <p><b>up</b> [21] 1:22 2:16 13:18 17:9,15,22 18:2,6 19:2 20:14 22:16 28:11 32:13 34:1,20 35:3 40:23 42:16 46:23 54:16 55:13</p> <p><b>update</b> [1] 11:20</p> <p><b>upgrade</b> [1] 8:1</p> <p><b>upgrades</b> [1] 41:8</p> <p><b>Upper</b> [1] 41:23</p> <p><b>upstairs</b> [4] 42:4 43:13 54:14,15</p> <p><b>USA</b> [3] 31:4 37:8 38:17</p> <p><b>used</b> [11] 14:14 18:11,15 35:6 37:7,9 38:4 43:5 44:5 50:19 51:24</p> <p><b>useless</b> [2] 15:13 33:18</p> <p><b>users</b> [2] 35:12 40:20</p> <p><b>uses</b> [4] 16:11 21:17 33:3 45:14</p> <p><b>using</b> [7] 4:2 16:23 22:8 23:14 47:1,16 55:4</p> <p><b>usually</b> [1] 54:19</p> <p><b>utilities</b> [11] 4:19,21 5:4 5:11 24:24 25:3,6,8 49:15 51:1 57:6</p> <p><b>utility</b> [4] 5:17 27:23 28:7 49:22</p> <hr/> <p style="text-align: center;"><b>-V-</b></p> <hr/> | <p><b>value</b> [9] 3:22 4:6 21:1,2 21:10 43:2 45:8,12 46:9</p> <p><b>values</b> [1] 34:16</p> <p><b>variable</b> [1] 38:13</p> <p><b>ventilation</b> [1] 3:8</p> <p><b>verification</b> [3] 4:17 15:16 25:17</p> <p><b>Vermont</b> [1] 25:3</p> <p><b>version</b> [1] 3:21</p> <p><b>viable</b> [1] 39:23</p> <p><b>Vice</b> [2] 6:9 16:3</p> <p><b>view</b> [3] 23:15 38:10 45:6</p> <p><b>viewed</b> [1] 45:2</p> <hr/> <p style="text-align: center;"><b>-W-</b></p> <hr/> <p><b>wait</b> [1] 55:5</p> <p><b>wall</b> [3] 37:18 46:12 53:7</p> <p><b>wanting</b> [1] 29:15</p> <p><b>wants</b> [1] 19:16</p> <p><b>warm</b> [3] 36:2 53:22 54:20</p> <p><b>warranted</b> [1] 28:14</p> <p><b>waste</b> [1] 46:22</p> <p><b>water</b> [7] 5:7,11 31:19 35:14 46:19,20,22</p> <p><b>watt</b> [1] 21:8</p> <p><b>watts</b> [6] 21:4,7 53:17 53:18,19,21</p> <p><b>ways</b> [1] 10:9</p> <p><b>weather</b> [1] 55:23</p> <p><b>website</b> [1] 10:9</p> <p><b>week</b> [1] 55:10</p> <p><b>West</b> [1] 38:17</p> <p><b>whereas</b> [1] 20:23</p> <p><b>whole</b> [4] 21:14 41:2,10 54:11</p> <p><b>wind</b> [1] 35:21</p> <p><b>windiest</b> [2] 14:12 35:20</p> <p><b>window</b> [2] 26:2,6</p> <p><b>windows</b> [8] 8:10 9:13 9:19 10:10 12:1 31:20 47:3 54:8</p> <p><b>winds</b> [2] 36:1 55:24</p> <p><b>winter</b> [8] 25:24 35:24 38:4 43:16 48:5,10,15 49:3</p> <p><b>Winters</b> [1] 39:9</p> <p><b>wise</b> [1] 46:10</p> <p><b>wish</b> [2] 1:21 5:13</p> <p><b>within</b> [2] 8:11 22:12</p> <p><b>without</b> [1] 37:15</p> <p><b>word</b> [7] 14:7,9,10,13,17 14:19 25:19</p> <p><b>words</b> [1] 16:2</p> <p><b>worked</b> [2] 3:1,6</p> <p><b>works</b> [1] 33:19</p> <p><b>world</b> [2] 14:12 35:22</p> <p><b>worse</b> [2] 15:12 25:13</p> <p><b>written</b> [1] 1:9</p> | <hr/> <p style="text-align: center;"><b>-Y-</b></p> <hr/> <p><b>yardstick</b> [2] 19:11 23:15</p> <p><b>year</b> [51] 2:10 4:2,3,5 7:22 9:9 16:10,12,15,15 16:16,17,22 17:13,20,20 17:22,23 18:1,14,23 19:3 19:20 20:4,6,7,9,11,13 20:20 22:8,12 24:7 25:21 26:9 27:12,24 30:24 31:8 38:22,23,24 39:11 41:12 41:24 42:1,22 43:10 44:16 47:21,24</p> <p><b>year's</b> [2] 42:18,18</p> <p><b>yearly</b> [4] 23:13 30:23 31:2 43:2</p> <p><b>years</b> [17] 3:2,7,13 7:13 17:2,4,11 18:8 19:9,21 20:23 28:24 31:10 38:5 38:6 40:13 41:8</p> <p><b>yes</b> [3] 10:4 11:11 12:21</p> <p><b>yet</b> [2] 13:19 27:12</p> <hr/> <p style="text-align: center;"><b>-Z-</b></p> <hr/> <p><b>zones</b> [1] 39:12</p> <hr/> <p style="text-align: center;"><b>-“-</b></p> <hr/> <p><b>“A</b> [3] 10:16 27:19 32:22</p> <p><b>“Ads</b> [1] 10:11</p> <p><b>“Again</b> [1] 12:3</p> <p><b>“Aggregate</b> [1] 15:24</p> <p><b>“AK”</b> [1] 1:16</p> <p><b>“Are</b> [2] 6:18 11:11</p> <p><b>“A”</b> [1] 41:6</p> <p><b>“Bang</b> [1] 9:12</p> <p><b>“But</b> [1] 9:8</p> <p><b>“Can</b> [2] 5:23 11:19</p> <p><b>“CW”</b> [1] 1:15</p> <p><b>“Each</b> [1] 10:2</p> <p><b>“I</b> [3] 6:8 12:17 13:2</p> <p><b>“If</b> [1] 12:7</p> <p><b>“Is</b> [1] 6:6</p> <p><b>“It</b> [2] 9:20 13:3</p> <p><b>“It's</b> [1] 9:6</p> <p><b>“Measures</b> [1] 32:16</p> <p><b>“Now</b> [1] 10:5</p> <p><b>“Regardless</b> [1] 30:2</p> <p><b>“The</b> [2] 7:21 34:12</p> <p><b>“They</b> [1] 6:21</p> <p><b>“We</b> [2] 5:21 11:16</p> <p><b>“x”</b> [1] 11:13</p> <p><b>“Yes</b> [3] 10:8 11:22,24</p> <p><b>“YK”</b> [1] 1:12</p> |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|