

1 Q. Re: NP-NLH-069 (Revision 1, Dec 3-14): Please provide Holyrood conversion factor
2 projection calculations in Microsoft Excel format (with all formulae intact).

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5 A. The Holyrood conversion factor projection calculations are provided in Microsoft
6 Excel format (with all formulae intact) in IC-NLH-160 Attachment 1.

Year	Month	Avg Unit Load (kWc)	Heat Content (BTUs/gal)	Actual Bbl/Hour	2009-2014 Linear Regression (Gross)	Month	Year	Avg Unit Load (kWc)	Heat Content (BTUs/gal)	Actual kWh/Bbl	2009-2014 Linear Regression (Gross)
Feb	2013	116,354	152,966	180.11	178.6	Feb	2013	116354	152966	646.00	651.47
Jan	2013	114,417	151,528	176.69	177.2	Jan	2013	114417	151528	647.54	645.76
Feb	2014	108,111	151,743	169.89	167.9	Feb	2014	108111	151743	636.37	643.73
Dec	2013	101,525	152,493	156.79	157.8	Dec	2013	101525	152493	647.52	643.37
Mar	2014	98,353	150,900	153.54	154.8	Mar	2014	98353	150900	640.57	635.53
Jan	2014	93,026	150,413	152.00	147.6	Jan	2014	93026	150413	612.01	630.33
Dec	2012	92,417	154,699	145.22	142.7	Dec	2012	92417	154699	636.39	647.74
Mar	2013	88,437	153,627	139.27	138.0	Mar	2013	88437	153627	635.02	640.93
Mar	2012	88,363	154,738	136.37	136.8	Mar	2012	88363	154738	647.95	645.79
Nov	2012	87,972	154,232	135.92	136.7	Nov	2012	87972	154232	647.24	643.32
Feb	2012	85,815	155,043	131.60	132.9	Feb	2012	85815	155043	652.07	645.75
Feb	2011	85,344	153,401	131.93	133.8	Feb	2011	85344	153401	646.89	638.02
May	2014	84,570	149,898	137.76	136.0	May	2014	84570	149898	613.91	622.06
Jan	2012	84,168	155,071	130.83	130.5	Jan	2012	84168	155071	643.35	644.93
Mar	2011	84,075	155,008	129.93	130.4	Mar	2011	84075	155008	647.07	644.58
Apr	2013	83,883	153,192	134.14	131.9	Apr	2013	83883	153192	625.35	636.12
Apr	2014	83,670	148,228	134.08	136.2	Apr	2014	83670	148228	624.01	614.15
Apr	2012	82,420	154,956	129.15	128.1	Apr	2012	82420	154956	638.17	643.35
Feb	2010	82,415	152,868	127.17	130.1	Feb	2010	82415	152868	648.09	633.63
Jan	2010	81,906	152,392	128.28	129.8	Jan	2010	81906	152392	638.50	631.07
Nov	2011	81,673	153,938	126.10	128.0	Nov	2011	81673	153938	647.69	638.08
Jun	2012	80,683	153,380	128.73	127.1	Jun	2012	80683	153380	626.75	634.77
Dec	2011	80,565	154,179	122.57	126.2	Dec	2011	80565	154179	657.28	638.47
May	2012	79,936	153,499	128.49	125.9	May	2012	79936	153499	622.11	634.80
Nov	2013	79,103	153,368	124.18	124.9	Nov	2013	79103	153368	636.99	633.57
Dec	2009	78,024	154,415	118.61	122.3	Dec	2009	78024	154415	657.80	637.86
May	2013	77,727	153,476	125.39	122.8	May	2013	77727	153476	619.88	633.06
Jan	2011	77,676	153,232	121.70	122.9	Jan	2011	77676	153232	638.24	631.84
Apr	2010	76,985	151,798	121.57	123.3	Apr	2010	76985	151798	633.24	624.39
Mar	2010	75,749	151,918	119.98	121.4	Mar	2010	75749	151918	631.33	623.90
Nov	2009	75,700	155,105	115.04	118.3	Nov	2009	75700	155105	658.01	639.67
Apr	2011	75,640	156,505	117.20	116.9	Apr	2011	75640	156505	645.38	646.84
Oct	2009	75,298	154,237	116.99	118.6	Oct	2009	75298	154237	643.62	634.98
Dec	2010	74,294	152,722	119.28	118.6	Dec	2010	74294	152722	622.84	626.57
Nov	2010	73,847	152,752	115.36	117.9	Nov	2010	73847	152752	640.17	626.34
Jun	2013	73,148	153,388	122.56	116.3	Jun	2013	73148	153388	596.82	628.95
May	2011	72,994	155,126	115.79	114.4	May	2011	72994	155126	630.42	637.80
May	2010	72,920	150,544	118.91	118.7	May	2010	72920	150544	613.22	614.56
Oct	2011	71,770	153,824	111.49	113.9	Oct	2011	71770	153824	643.75	630.02
Jun	2011	71,342	153,958	113.94	113.2	Jun	2011	71342	153958	626.15	630.35
Jun	2009	71,091	154,143	116.45	112.6	Jun	2009	71091	154143	610.49	631.11
Oct	2010	70,184	150,011	113.65	115.2	Oct	2010	70184	150011	617.56	609.05
Oct	2012	68,480	153,380	111.50	109.6	Oct	2012	68480	153380	614.19	624.69
Oct	2013	66,210	153,662	108.32	106.1	Oct	2013	66210	153662	611.25	624.01

2009-2014 Linear Regression (Gross)

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.988878326
R Square	0.977880344
Adjusted R Squar	0.976774361
Standard Error	2.302958699
Observations	43

ANOVA

	df	SS	MS	F	Significance F
Regression	2	9378.635	4689.317556	884.1731958	7.86262E-34
Residual	40	212.1448	5.303618769		
Total	42	9590.78			

	Coefficients	andard Err	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	155.9173291	33.80783	4.611869974	4.04168E-05	87.58915015	224.245508	87.58915015	224.245508
116354.1667	0.001432727	3.6E-05	39.81644854	8.42579E-34	0.001360002	0.001505452	0.001360002	0.001505452
152965.8333	-0.000941508	0.000216	-4.366112663	8.69122E-05	-0.001377332	-0.000505683	-0.001377332	-0.000505683

RESIDUAL OUTPUT

Observation	cted 180.11480906	Residuals
1	177.181124	-0.48649
2	167.9436022	1.943673
3	157.8013959	-1.01161
4	154.7574043	-1.21695
5	147.5826883	4.41787
6	142.6749084	2.545458
7	137.98221	1.283703
8	136.8305602	-0.45685
9	136.7469191	-0.82822
10	132.8929084	-1.2883
11	133.7640421	-1.83422
12	135.9531161	1.803791
13	130.5060312	0.32092
14	130.4336374	-0.50122
15	131.8682991	2.270116
16	136.2358783	-2.15193
17	128.1113007	1.040019
18	130.0687089	-2.90285
19	129.787687	-1.50963
20	127.997846	-1.89946
21	127.106101	1.626806
22	126.1834224	-3.61083
23	125.9226883	2.568532
24	124.8528254	-0.6704
25	122.3216045	-3.70795
26	122.7808774	2.610248
27	122.936712	-1.23364
28	123.2978389	-1.72408
29	121.4131831	-1.42943
30	118.3428935	-3.29834
31	116.9384734	0.264147
32	118.5838408	-1.59241
33	118.5719047	0.710927
34	117.9030318	-2.54777
35	116.3028327	6.260874
36	114.4452498	1.34061
37	118.6531357	0.259955
38	113.9172716	-2.43016
39	113.1775789	0.759514
40	112.6438516	3.804832
41	115.2356781	-1.58822
42	109.6223377	1.874449
43	106.1049135	2.214516

