Q. Re 2011 Capital Plan

At page 6 the Capital Plan refers to a Project Prioritization methodology. Please provide any materials or documentation Hydro has developed so as to explain how potential projects are to be evaluated using this methodology.

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A.

The prioritization method is both a quantitative and qualitative approach to ranking the importance of capital projects. Project prioritization has a two-level approach. First, consideration is given to whether the project is required to correct an extreme safety issue, meet mandatory demands (e.g. legislative) or satisfy system load. If any of these three factors exist, the project is considered high priority and is placed at the top of the prioritization list. For all other projects, 12 criteria have been determined to prioritize the projects. Each criterion is given a maximum weighting of a number of points out of a total of 1,000 points for all the criteria. For each criterion, a number of factors have been identified and assigned a weighting relative to the maximum weighting of the criterion. These factors represent the impact level of that particular criterion on the project being evaluated. After determining the impact, consideration is given to the probability of or the confidence level in the impact occurring if the project does not proceed. (Probability or confidence level is used depending on its appropriateness to the criteria). The ranking score for each project is obtained through the sum of the products of impact multiplied by probability/confidence level. A project with a higher score is considered more important than a project with a lower score. The table below presents the criteria and the assigned weights. Also, please see Pages 2 and 3, and Attachment 1 which provide a description of the prioritization criteria.

CA-NLH-4
NLH 2011 Capital Budget Application

Page 2 of 3

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	Criteria	Factors	Factor
<u> </u>	T		Weights
1	Work Classification	Normal	5
	(maximum weight = 85)	Justifiable: Payback (70)	15
		Justifiable: Payback (40)	45
		Justifiable: Payback (10)	85
2	Net Present Value	NPV (\$0)	0
	(maximum weight = 85)	NPV (<\$100K)	5
		NPV (<\$500K)	15
		NPV (<\$1M)	45
		NPV (>\$1M)	85
		, , ,	
3	Goal 1: Safety	Minor	10
	(maximum weight = 100)	Treatment	50
		Lost Time	80
		Disability	100
4	Goal 2: Environment	None	10
	(maximum weight = 100)	Minor	50
	(maximam weight 100)	Moderate	80
		Significant	100
5	Goal 3-5: Alignment	None	15
	(maximum weight = 65)	Maps but no documentation	40
		Maps but with documentation	65
6	Schedule Risk	External and internal conflicts	10
	(maximum weight = 65)	Externals affecting completion	20
	,	No external but internal conflicts	40
		No conflicts	65
	Continue comice to suctions		20
7	Continue service to customers	Can	20
	(maximum weight = 70)	Can but with high costs	50
		Cannot	70
8	Number of customers impacted	< 100	10
	(maximum weight = 70)	< 1000	30
		< 10,000	50
		> 10,000	70
9	System Impact: Critical to	None specific	5
	(maximum weight = 90)	System with standby unit	50
	(Plant or station	70
		Entire system	90
		Little System	50

CA-NLH-4
NLH 2011 Capital Budget Application

Page 3 of 3

	Criteria	Factors	Factor Weights
10	Impact intensity (maximum weight = 90)	Minor Moderate Significant High	5 40 70 90
11	Loss type: Loss of (maximum weight = 90)	No type Equipment Facility Production Customer delivery	5 40 50 70 90
12	Loss mitigation (maximum weight = 90)	Redundant unit Backup option Nothing	30 60 90

1	PRIORITIZATION EXPLANATIONS
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3	A. <u>Level 1</u>
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5	Immediate HIGH Priority Projects
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7	Extreme Safety
8	The project is required to prevent an incident that could cause a fatality or correct a condition
9	that otherwise left unattended may lead to a fatality.
10	
11	Mandatory
12	A capital expenditure that Hydro is obliged to carry out as a result of Legislation, Board Order,
13	Environmental or Safety risk.
14	
15	• Load Driven
16	The project is needed to meet load requirements determined by Hydro's latest load forecasts.
17	Without the project, Hydro's firm load and/or reliability criteria will be compromised.
18 10	
19	P. Lovol 2
20 21	B. <u>Level 2</u>
22	1. Work Classification
23	1. Work Classification
23 24	Normal
25	A capital expenditure which is required based on an identified need or historical patterns of
26	repair and replacement.
27	repair and replacement.
28	Justifiable
29	A capital expenditure which is justified based on a positive cost savings for Hydro. A cost-
30	benefit analysis is required for the project.
31	
32	Payback (70)
33	A cost-benefit analysis indicates that the payback period for the project is within 70
34	percent of the anticipated life of the project.
35	
36	Payback (40)
37	A cost-benefit analysis indicates that the payback period for the project is within 40
38	percent of the anticipated life of the project.
39	
40	Payback (10)
41	A cost-benefit analysis indicates that the payback period for the project is within 10
42	percent of the anticipated life of the project.

2.	Net	Present	Value

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NPV (\$0)

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The capital proposal generates \$0 cost savings to Hydro.

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NPV (<\$100K)

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A cost-benefit analysis indicates that the capital proposal generates a positive cost savings of less than \$100K for Hydro.

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NPV (<\$500K)

11 12 A cost-benefit analysis indicates that the capital proposal generates a positive cost savings of less than \$500K for Hydro.

13 14

• NPV (<\$1M)

15 *i* 16 l

A cost-benefit analysis indicates that the capital proposal generates a positive cost savings of less than \$1M for Hydro.

17 18

• NPV (>\$1M)

19 /

A cost-benefit analysis indicates that the capital proposal generates a positive cost savings of more than \$1M for Hydro.

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3. Goal 1: Safety

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• Minor

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The project has no or minor safety issues that are insignificant in impact.

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• Treatment

29 30 The project is required to prevent an incident or correct a condition that otherwise left unattended may result in the need for medical treatment.

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Lost Time

The project is required to prevent an incident or correct a condition that otherwise left unattended may result in worker(s) incurring lost time for a short duration.

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Disability

The project is required to prevent an incident or correct a condition that otherwise left unattended may result in worker(s) incurring long time leave due to inability to continue working on the job.

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4.	Goal	2:	Environment

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None

4 The project has no environmental issues.

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• Minor

7 The project is required to prevent an incident or correct a condition that otherwise left 8 unattended may result in an environmental impact that:

- o Is irreversible within 2 years; and/or
- Will cost more than \$10,000 to mitigate; and/or
- o Has aspects observed on Hydro's property (at point of impact); and/or
- o Is perceived as in conflict with specific individuals in the local community.

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Moderate

The project is required to prevent an incident or correct a condition that otherwise left unattended may result in an environmental impact that:

- o Is irreversible within 4 years; and/or
- Will cost more than \$25,000 to mitigate; and/or
- Has aspects observed within a 1 km radius of Hydro's property (from point of impact); and/or
- o Is perceived as in conflict with the local community or other industries.

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Significant

The project is required to prevent an incident or correct a condition that otherwise left unattended may result in an environmental impact that:

- o Is irreversible within the foreseeable future; and/or
- Will cost more than \$50,000 to mitigate and/or
- Has aspects observed at more than 5 km radius of Hydro's property (from point of impact); and/or
- o Is perceived as in conflict with the local community and the general public and other industries.

32 33

5. Goals 3-5 Alignment

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None

This project does not align with or support any department or corporate goals or objectives.

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Maps but no Documentation

This project does align with or support a department or corporate goal or objective but no documentation exists to describe how it maps to the goal or objective.

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Maps but with Documentation

This project does align with or support a department or corporate goal or objective and there is documentation that clearly describes how.

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6. Schedule Risk

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Externals and Internal Conflicts

The project has external (to Hydro) dependencies that affect the completion of the project on time and on budget and has major interfaces with other internal initiatives. Examples of external dependencies are: non-Hydro projects that interfere with Hydro proceeding with its project; unavailability of external contractors.

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Externals Affecting Completion

The project has only external dependencies that affect the completion of the project on time and on budget.

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NO Externals but Internal Conflicts

The project conflicts with other internal initiatives that affect the completion of the project on time and on budget.

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NO Conflicts

The project will not encounter any external or internal conflicts that affect its completion.

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7. Continue Service to Customers

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• Can

Service to customers can continue whether or not this project proceeds. Customers can be defined as either internal or external to Hydro.

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• Can but with High Costs

Service to customers can continue whether or not this project proceeds but a delay in the project will result in Hydro incurring costs. Customers can be defined as either internal or external to Hydro.

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Cannot

Service to customers cannot continue without this project. Customers can be defined as either internal or external to Hydro.

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3	• <100
4	The project will impact up to 100 customers.
5	
6	• <1000
7	The project will impact up to 1000 customers.
8	
9	• <10000
10	The project will impact up to 10,000 customers.
11	
12	• >10000
13	The project will impact more than 10,000 customers.
14	
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16	9. System Impact: Critical to
17	
18	None Specific
19	The project is not critical to any particular system.
20	
21	System with Standby Unit
22	The project is critical to a system that has a standby unit which could be used to maintain
23	operation or support continued service in the event of failure.
24 25	North or Chat's a
25 26	Plant or Station The project is critical to the proper encycling of a generating plant or a terminal station.
26 27	The project is critical to the proper operation of a generating plant or a terminal station.
27 28	Entire System
20 29	The project is critical to ensure the reliable operation of the Hydro system.
30	The project is critical to ensure the reliable operation of the right of system.
31	
32	10. Impact Intensity
33	10. Impact intensity
34	Minor
35	If this project does not proceed, the repair time is <i>less than half</i> the Maximum Acceptable
36	Downtime (MAD) of 830 MWh of unsupplied energy or 2 days (whichever comes first).
37	, , , , , , , , , , , , , , , , , , , ,
38	Moderate
39	If this project does not proceed, the repair time is greater than the half but less than 90% of
40	the Maximum Acceptable Downtime (MAD) of 830 MWh of unsupplied energy or 2 days

(whichever is comes first).

1 8. # Customers Impacted

•	Significa	nt
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If this project does not proceed, the repair time is **within plus or minus 10%** of the Maximum Acceptable Downtime (MAD) of 830 MWh of unsupplied energy or 2 days (whichever is comes first).

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High

If this project does not proceed, the repair time *exceeds by more than 10%* the Maximum Acceptable Downtime (MAD) of 830 MWh of unsupplied energy or 2 days (whichever is comes first).

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11. Loss Type: Loss of.....

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No Type

If the project does not proceed, no loss is expected.

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• Equipment

If the project does not proceed, there exists a risk of the loss of some equipment.

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Facility

If the project does not proceed, there exists a risk of the loss of a facility.

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Production

If the project does not proceed, there exists a risk of the loss of production at a Hydro generating plant.

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Customer Delivery

If the project does not proceed, there exists a risk of being unable to deliver power to Hydro customer(s).

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12. Loss Mitigation

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• Redundant Unit

If the project does not proceed the expected loss will be mitigated by a redundant unit present on the system.

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• Back-up Option

If the project does not proceed the expected loss will be mitigated by a back-up option which ensures that service continues.

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Nothing

This project is required because there is no available means to mitigate the expected loss.

1 **PROBABILITY** 2 3 4 Not Likely 5 The risk of the impact is very low if the project does not proceed. It would be surprising that 6 there is an impact. 7 8 Low Likelihood 9 The risk of the impact is low if the project does not proceed. There is about 30 percent chance of the impact in the proposal year. It's less likely to happen than not. 10 11 12 Likely The risk of the impact is possible if the project does not proceed. There is about 50 percent 13 14 chance of the impact in the proposal year. It's as likely to happen as not. 15 16 Highly Likely The risk of the impact is considerable if the project does not proceed. There is about 75 17 18 percent chance of the impact in the proposal year. It's more likely to happen than not. 19 20 **Near Certain** 21 The risk of the impact is almost certain if the project does not proceed. There is more than 90 22 percent chance of the impact in the proposal year. It would be surprising if the impact did not 23 occur. 24 25 26 **CONFIDENCE LEVEL** 27 28 29 Low 30 The confidence in the assessment of the impact is low. There are some uncertainties that 31 could significantly change the assessment. The projects risks are not well defined. 32 33 Medium 34 The confidence in the assessment of the impact is uncertain but most likely correct. There are 35 some uncertainties that might moderately change the assessment. The project risks are 36 defined but with some uncertainty. 37 38 High 39 The confidence in the assessment of the impact is very high. The uncertainties won't 40 measurably change the assessment. The project risks are well defined and well controlled. 41 42 Date: September 20, 2010