

1    Q.    **Re 2011 Capital Plan**

2            With reference to the Project Prioritization methodology referred to at p. 6 of the  
3            2011 Capital Plan, it states that 'information is used in the project prioritization  
4            process to compare its overall importance against competing potential projects'.  
5            Using this process, can Hydro provide a ranking of the importance of the projects  
6            put forward in the 2011 CBA?

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9    A.    Please see the following table which shows the ranking of Hydro's 2011 capital  
10          projects. Rank 1 indicates the projects of the highest importance and in 2011, no  
11          projects with a ranking of more than 53 were included in the Application. It is  
12          merely incidental that the lowest ranking was 53, as the total of projects to be  
13          included is determined based on balancing unit load, overall budget, and other  
14          logistical considerations. Projects that received the same score through the  
15          prioritization process have the same ranking. The 19 projects which are Rank 1 are  
16          considered high priority projects required to address either safety, mandatory or  
17          system load issues. Please note the non-prioritized projects in the table are either  
18          multi-year projects or necessary programs.

**CA-NLH-5**  
**NLH 2011 Capital Budget Application**

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<b>2011 Capital Budget and Five Year Plan 2011 Project Prioritization</b>	<b>Cost (\$000)</b>	<b>Rank</b>	<b>Cumulative Project Costs (\$000)</b>
<b>PROJECT DESCRIPTION</b>			
Multi-Year Projects (2011 is 2 <sup>nd</sup> or 3 <sup>rd</sup> Year) (Non Prioritized)	16,796.6	*****	16,797
TRO Service Extensions and Upgrades (Non Prioritized)	5,884.0	*****	22,681
Transportation (Non Prioritized)	4,014.4	*****	26,695
Tools & Equipment (less that \$50,000) (Non Prioritized)	885.1	*****	27,580
BDE - Upgrade Intake Gate Controls	352.3	1	27,932
VAR - Upgrade Public Safety Around Dams and Waterways	49.4	1	27,982
HRD - Refurbish Fuel Storage Facility	2,637.9	1	30,620
HRD - Replace Boiler Blow Down Tanks	749.6	1	31,369
HRD - Upgrade Unit 3 Relay Panels	277.1	1	31,646
HRD - Install Weatherhoods for Vent Fans	208.2	1	31,855
VAR - Replace Instrument Transformers	199.1	1	32,054
VAR - Perform Grounding Upgrades	321.2	1	32,375
SSD - Replace 230 KV Circuit Breaker	41.3	1	32,416
STA - Replace 69 KV SF6 Breaker B1T1 at Airport	489.8	1	32,906
CRV - Install Voltage Regulator	147.8	1	33,054
LAL - Install Voltage Regulator	144.8	1	33,199
VAR - Perform Arc Flash Remediation	429.5	1	33,628
FRS - Replace Fuel Storage Tank	131.3	1	33,759
MSH - Upgrade Plant Overhead Crane Lifting System	46.6	1	33,806
NOB - Upgrade Fuel Storage	113.8	1	33,920
VAR - Install Fall Protection Equipment at Hydro Facilities	198.4	1	34,118
VAR - Install Waste Oil Storage Tanks	78.5	1	34,197
VAR - Remove Safety Hazards	252.4	1	34,449
HRD - Upgrade Hydrogen Systems	1,191.9	2	35,641
RWC - Replace Mini Hydro Turbine	86.8	3	35,728
HRD - Replace Forced Draft Fan Ductwork - Units 1, 2 & 3	843.0	4	36,571
VAR - Install Automated Meter Reading	451.2	5	37,022
VAR - Install Hydrometeorological Stations	113.2	6	37,135
HRD - Complete Condition Assessment, Phase 2	1,672.0	7	38,807
VAR - Perform Wood Pole Line Management Program	2,019.4	8	40,827

<b>2011 Capital Budget and Five Year Plan 2011 Project Prioritization</b>	<b>Cost (\$000)</b>	<b>Rank</b>	<b>Cumulative Project Costs (\$000)</b>
<b>PROJECT DESCRIPTION</b>			
VAR - Replace Recloser Control Panels	231.9	<b>9</b>	41,059
VAR - Upgrade Power Transformers	865.9	<b>10</b>	41,924
VAR - Replace Surge Arrestors	74.5	<b>11</b>	41,999
VAR - Replace Disconnects	295.0	<b>12</b>	42,294
VAR - Replace Insulators	401.3	<b>13</b>	42,695
VAR - Upgrade Air Blast Circuit Breakers	333.5	<b>14</b>	43,029
VAR - Survey Hydro's Primary Right of Ways	78.7	<b>15</b>	43,107
HYP - Upgrade Iseries V4R5 to V6.1 and Replace I Series	437.2	<b>16</b>	43,545
HYP - Continue PC Replacement	403.5	<b>16</b>	43,948
HYP - Replace Peripheral Infrastructure	258.2	<b>16</b>	44,206
HYP - Upgrade Enterprise Storage Capacity	154.1	<b>16</b>	44,360
HYP - Upgrade Server Technology Program	142.4	<b>16</b>	44,503
HYP - Develop Learning Management System Courses	83.9	<b>17</b>	44,587
HYP - Perform Minor Enhancements	82.1	<b>18</b>	44,669
VAR - Replace Battery Banks and Chargers	978.4	<b>19</b>	45,647
VAR - Replace Radomes	195.9	<b>20</b>	45,843
VAR - Replace Network Communications Equipment	737.0	<b>21</b>	46,580
VAR - Install Tower Protection	293.9	<b>22</b>	46,874
VAR - Upgrade Site Facilities	47.7	<b>23</b>	46,922
HYP - Replace Humidifiers in Air Handling Units	75.6	<b>24</b>	46,997
HRD - Upgrade Electrical Equipment	188.0	<b>25</b>	47,185
VAR - Replace MDR 6000 Microwave Radio (West)	72.0	<b>26</b>	47,257
RIG - Replace Poles and Rebuild Section of Line	73.3	<b>27</b>	47,331
POV - Upgrade Fuel Storage	2,007.0	<b>27</b>	49,338
BUR - Upgrade Substation at Burgeo	127.5	<b>28</b>	49,465
HVY - Upgrade Distribution Feeder L8	553.5	<b>29</b>	50,019
DLK - Refurbish Microwave Site	207.2	<b>30</b>	50,226
WAB - Upgrade Substation	459.3	<b>31</b>	50,685
FHD - Replace 50 Poles on L4, L5, & L6	339.6	<b>32</b>	51,025
GBK - Replace Poles	286.4	<b>32</b>	51,311

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<b>PROJECT DESCRIPTION</b>	<b>Cost (\$000)</b>	<b>Rank</b>	<b>Cumulative Project Costs (\$000)</b>
WEP - Replace Poles at Westport West	256.4	<b>32</b>	51,568
FRS - Upgrade Distribution System	440.9	<b>33</b>	52,008
BDE - Upgrade Burnt Spillway	257.8	<b>34</b>	52,266
USL - Replace Static Excitation System	1,214.3	<b>35</b>	53,481
CBF - Replace Compressor, Dryer & Air Piping Header System	280.2	<b>36</b>	53,761
BDE - Upgrade Compressed Air System	83.9	<b>37</b>	53,845
HBV - Replace Oil Filled Br'ker B1L21, Structures & Disconnects	687.4	<b>37</b>	54,532
BDE, HLK - Replace Automatic Transfer Switches	155.9	<b>38</b>	54,688
TL215 - Replace Guy Wires	288.8	<b>39</b>	54,977
CAT - Upgrade Generating Station Service Water System	360.4	<b>40</b>	55,337
HRD - Replace Steam Seal Regulator - Unit 2	175.0	<b>41</b>	55,512
RHR - Upgrade Station Reliability and Safety	434.8	<b>42</b>	55,947
HRD - Upgrade Stack Breaching (Units 2, 1 and 3)	3,553.4	<b>43</b>	59,500
VAR - Replace Telephone Keypad	79.5	<b>44</b>	59,580
STV - Upgrade G.T. Operator Console	71.7	<b>45</b>	59,652
VAR - Construct Transmission Line Equipment Off-Loading Areas, C	314.8	<b>45</b>	59,966
VAR - Construct Transmission Line Equipment Off-Loading Areas, N	476.2	<b>45</b>	60,443
USL - Install Compressor for Frazil Ice Removal	69.1	<b>46</b>	60,512
STB, MDR - Install Alternate Station Services	86.0	<b>47</b>	60,598
BDE - Purchase Spare Disconnects	175.6	<b>48</b>	60,773
HRD - Purchase Laser Alignment	78.6	<b>48</b>	60,852
BDE - Replace Digital Fault Recorder	168.6	<b>48</b>	61,020
VAR - Install Sequence of Events Monitor in Diesel Plants	154.8	<b>49</b>	61,175
HRD - Modify Unit 3 Synchronous Condenser	483.5	<b>50</b>	61,659
HLK - Replace Fire Alarm System	109.1	<b>51</b>	61,768
BDE - Upgrade Burnt Dam Access Road - Phase 2	998.4	<b>52</b>	62,766
HRD - Overhaul Gas Turbine	1,291.4	<b>53</b>	64,058