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1 Q. **Tab B; Volume I: Capital Budget Summary With Multi Year Projects Separated**

2 Page B-6 Multi-year Projects Commencing in 2016 states the project “*Upgrade*  
3 *Circuit Breakers – Various Sites (2016-2020)*” has expenditures concluding in 2018.

4 In Hydro’s 2016 Capital Budget Application this project had budgeted expenditures  
5 yearly until 2020. Please update the table on page B-6 to reflect yearly  
6 expenditures for this previously approved project.

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9 A. Please see PUB-NLH-002, attachment 1, for Tab B; Volume I: Capital Budget

10 Summary With Multi Year Projects Separated.

**NEWFOUNDLAND AND LABRADOR HYDRO**  
**2017 CAPITAL BUDGET**  
**PROJECTS OVER \$50,000**  
**MULTI-YEAR PROJECTS**  
**(\$000)**

*Multi-year Projects Commencing in 2016*

PROJECT DESCRIPTION	Expended						Total
	to 2016	2017	2018	2019	2020	2021	
Upgrade Circuit Breakers - Various Sites (2016-2020)	6,969.1	10,808.7	15,408.6	15,247.3	13,026.8		61,460.5
Construct 230 kV Transmission Line - Soldiers Pond to Hardwoods	3,699.0	17,489.8	5,372.1				26,560.9
Replace Site Facilities - Bay d'Espoir	928.3	4,736.3	6,316.7				11,981.3
Upgrade Distribution Systems - Various Sites (2016-2017)	285.6	6,350.3					6,635.9
Upgrade Powerhouse Building Envelope - Holyrood	2,723.8	2,969.9	784.1				6,477.8
Additions for Load Growth - L'Anse au Loup and Postville	883.4	4,746.0					5,629.4
Install Fire Protection Systems - Nain and Cartwright	3,030.7	1,376.4					4,407.1
Replace Vehicles and Aerial Devices - Various Sites (2016-2017)	1,443.3	534.2					1,977.5
Replace Disconnect Switches - Various Sites (2016-2017)	646.9	1,320.9					1,967.8
Upgrade Work - Cat Arm	558.3	1,353.0					1,911.3
Replace Protective Relays - Various Sites	700.6	1,156.4					1,857.0
Replace Aircraft Markers at Grand Lake Crossing - TL228	589.6	978.3					1,567.9
Replace Diesel Units - Charlottetown	1,384.9	46.1					1,431.0
Upgrade Microsoft Office Products - Hydro Place	366.6	511.2	513.3				1,391.1
Replace MDR 4000 Microwave Radio East - Various Sites	77.4	1,093.1					1,170.5
Rehabilitate Shoreline Protection - Cat Arm	112.2	1,030.7					1,142.9
Install Automated Meter Reading - Labrador West	433.8	533.4					967.2
Replace Battery Banks and Chargers - Various Sites (2016-2017)	425.0	456.6					881.6
Replace Powerline Carrier - Various Sites	73.4	763.4					836.8
Install Fire Protection in 230 kV Stations - Bay d'Espoir	200.0	566.0					766.0
Upgrade Telecontrol Facilities - Sandy Brook Hill	101.6	462.4					564.0
Purchase Vehicles and Aerial Devices - Various Sites	382.5	172.7					555.2
Upgrade Digital Fault Recorders - Various Sites	197.9	304.6					502.5
Upgrade Terminal Station for Mobile Substation - Cow Head	40.0	444.7					484.7
Replace Human Machine Interface - Various Sites	114.0	320.0					434.0
Replace Powerhouse 1 Station Service Transformer - Bay d'Espoir	46.7	354.5					401.2
Replace Spherical By-Pass Valves Units 1 and 2 - Bay d'Espoir	183.6	167.9					351.5
Replace Fuel Piping - Hardwoods and Stephenville	44.8	267.0					311.8
Upgrade Data Alarm Systems - Stony Brook	74.4	234.1					308.5
Refurbish Station Water System - Upper Salmon	96.6	197.6					294.2
Install Breaker Failure Protection - Various Sites	65.7	211.3					277.0
Replace Air Conditioning Units 8 and 14 - Hydro Place	34.6	229.5					264.1
Replace Surge Arrestors - Various Sites	144.4	53.0					197.4
Upgrade Warehouse Lighting - Bishop's Falls	15.2	180.4					195.6
Replace Air Conditioners - Massey Drive and Happy Valley	39.9	152.0					191.9
Install Variable Frequency Drives - Grey River	46.9	123.0					169.9
Replace Control Room/Communications Room Air Conditioning - Hinds Lake	41.3	53.0					94.3
<b>Total Multi-Year Projects over \$50,000 commencing in 2016</b>	<b>27,202.0</b>	<b>62,748.4</b>	<b>28,394.8</b>	<b>15,247.3</b>	<b>13,026.8</b>	<b>0.0</b>	<b>146,619.3</b>

*Multi-year Projects Commencing before 2016*

PROJECT DESCRIPTION	Expended						Total
	to 2016	2017	2018	2019	2020	2021	
Construct 230 kV Transmission Line - Bay d'Espoir to Western Avalon	87,444.6	149,895.7	54,317.7				291,658.0
Replace Instrument Transformers - Various Sites	3,196.1	471.9					3,668.0
Refurbish Anchors and Footings TL202 and TL206 - Bay d'Espoir to Sunnyside	1,278.3	901.6					2,179.9
Replace Programmable Logic Controllers - Various Sites	712.9	245.1					958.0
<b>Total Multi-Year Projects over \$50,000 commencing before 2016</b>	<b>92,631.9</b>	<b>151,514.3</b>	<b>54,317.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>298,463.9</b>