

Appendix A

Summary of Development Capital Projects in Excess of \$3 Million

Table 2
Inter-Area Network Transfer Capability: Summary of Development Capital Projects in Excess of \$3 Million

Item#	Investment Description	Classification as per OEB Filing Guideline	Capital Project Category	EA Status	Section 92 Status	Gross Cash Flow (\$ Millions)						Gross Total Cost ¹	Capital Contribution ²	Net Total Cost ³	In-Service Years
						Historical			Bridge	Test	Test				
						2009	2010	2011	2012	2013	2014				
D01	New 500 kV Bruce to Milton Double Circuit Transmission Line	Development, Non-Discretionary	Category 1	Completed	Completed	150.0	173.2	204.1	98.4	9.3	7.3	709.0	0.0	709.0	Q2 2012
D34	Northwest Reactors for Area Voltage Control	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.0	0.7	5.5	5.0	11.2	0.0	11.2	Q4 2014
D02	Installation of Shunt Capacitor Banks at Cherrywood TS Phase 1	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.0	0.3	6.0	1.0	7.3	0.0	7.3	Q4 2014
D03	Installation of Shunt Capacitor Banks at Cherrywood TS Phase 2	Development, Non-Discretionary	Category 3	Not Required	Not Required	0.0	0.0	0.0	0.3	3.0	3.0	7.3	0.0	7.3	Q2 2015
D04	Clarington TS: Build new 500/230kV Station	Development, Non-Discretionary	Category 3	Required	Not Required	0.0	0.0	0.0	5.0	70.0	105.0	270.0	0.0	270.0	Q2 2015
D05	Installation of Static Var Compensator at Milton SS	Development, Non-Discretionary	Category 3	Required	Not Required	0.0	0.0	0.0	0.0	30.0	40.0	100.0	0.0	100.0	Q2 2015
D06	Reconductor the Lambton TS to Longwood TS 230kV Circuits	Development, Non-Discretionary	Category 4	Required	Required	0.0	0.1	1.6	1.5	17.0	18.0	40.0	0.0	40.0	Q4 2014
	Other Capital Projects (<\$3M) with 2013-14 Cashflows⁴					0.0	0.0	0.1	5.3	7.7	5.6	733.0 ⁶	0.0	733.0	
	Other Historical Projects (pre-2013)⁵					194.0	219.5	63.5	3.2	0.0	0.0	766.1	3.0	763.1	
	Total					344.0	392.8	269.3	114.7	148.5	184.9				

Notes

Note 1: Gross Total Cost: of the plan cost, including the sum of the cash flows in the years before 2013 and after 2014 and the amount of customer contribution where applicable.

Note 2: Customer Contribution: the sum of the cash flows that is paid by the customer (where applicable). The capital contribution amounts indicated herein are considered preliminary, since they are yet to be finalized, based on the signed CCRA and the actual project cost.

Note 3: Net Total Cost: Gross Total Cost minus Customer Contribution.

Note 4: The cash flows shown in “**Other Capital Projects**” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “**Other Historical Projects**” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Note 6: The Gross Total Cost consists of several major multi-year projects under consideration for beyond 2014, which have some minimal cashflow in 2013 and/or 2014 in order to perform preliminary studies and engineering.

Table 3
Local Area Supply Adequacy: Summary of Development Capital Projects in Excess of \$3 Million

Item#	Investment Description	Classification as per OEB Filing Guideline	Capital Project Category	EA Status	Section 92 Status	Gross Cash Flow (\$ Millions)							In-Service Years		
						Historical			Bridge	Test	Test	Gross Total Cost ¹		Capital Contribution ²	Net Total Cost ³
						2009	2010	2011							
D07	Toronto Area Station Upgrades for Short Circuit Capability: Leaside TS Equipment Uprate	Development, Non-Discretionary	Category 1	Not Required	Not Required	0.0	0.0	6.7	7.7	5.6	5.8	26.6	0.0	26.6	Q4 2014
D08	Toronto Area Station Upgrades for Short Circuit Capability: Manby TS Equipment Uprate	Development, Non-Discretionary	Category 1	Not Required	Not Required	0.0	0.1	0.2	3.6	6.4	4.2	17.5	0.0	17.5	Q4 2014
D09	Toronto Area Station Upgrades for Short Circuit Capability: Re-build Hearn SS	Development, Non-Discretionary	Category 1	Completed	Not Required	0.3	1.6	3.6	35.0	59.4	4.0	103.9	0.0	103.9	Q4 2013
D10	Midtown Transmission Reinforcement Plan	Development, Non-Discretionary	Category 1	Completed	Completed	0.9	2.7	13.1	34.9	33.7	29.2	114.8	46.2	68.6	Q3 2014
D11	Preston TS Transformation	Development, Non-Discretionary	Category 3	Not Required	Not Required	0.0	0.0	0.0	0.0	0.0	6.0	20.0	0.0	20.0	Q2 2016
D12	Guelph Area Transmission Reinforcement	Development, Non-Discretionary	Category 4	Required	Required	0.2	0.4	0.1	1.0	3.0	20.0	65.0	0.0	65.0	Q2 2016
	Other Capital Projects (<\$3M) with 2013-14 Cashflows⁴					2.5	21.8	18.3	25.3	6.4	7.7	379.7	5.3	374.4	
	Other Historical Projects (pre-2013)⁵					89.8	32.2	22.0	13.0	0.0	0.0	364.3	15.6	348.7	
	Total					93.7	58.8	64.0	120.5	114.5	76.9				

Notes

Note 1: Gross Total Cost: of the plan cost, including the sum of the cash flows in the years before 2013 and after 2014 and the amount of customer contribution where applicable.

Note 2: Customer Contribution: the sum of the cash flows that is paid by the customer (where applicable). The capital contribution amounts indicated herein are considered preliminary, since they are yet to be finalized, based on the signed CCRA and the actual project cost.

Note 3: Net Total Cost: Gross Total Cost minus Customer Contribution.

Note 4: The cash flows shown in “Other Capital Projects” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “Other Historical Projects” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Note 6: The Gross Total Cost consists of several major multi-year projects under consideration for beyond 2014, which have some minimal cashflow in 2013 and/or 2014 in order to perform preliminary studies and engineering.

Table 4
Load Customer Connection: Summary of Development Capital Projects in Excess of \$3 Million

Item#	Investment Description	Classification as per OEB Filing Guideline	Capital Project Category	EA Status	Section 92 Status	Gross Cash Flow (\$ Millions)						Gross Total Cost ¹	Capital Contribution ²	Net Total Cost ³	In-Service Years
						Historical			Bridge	Test	Test				
						2009	2010	2011	2012	2013	2014				
D13	Tremaine TS: Build New Transformer Station	Development, Non-Discretionary	Category 1	Completed	Not Required	0.3	0.9	3.6	19.2	6.3	0.0	30.5	11.7	18.8	Q1 2013
D14	Barwick TS: Build new Transformer Station	Development, Non-Discretionary	Category 1	Completed	Not Required	0.4	0.4	2.6	4.3	16.1	0.0	23.8	0.0	23.8	Q4 2013
D15	Nebo TS: Increase Capacity of 230/27.6kV DESN	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.2	7.0	12.0	0.0	19.2	9.2	10.0	Q4 2013
D16	Orleans TS: Build new Transformer Station	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.1	3.1	11.3	19.0	33.4	20.2	13.2	Q2 2014
D17	Bremner TS: Build Line Connection for Toronto Hydro	Development, Non-Discretionary	Category 2	Completed	Not Required	0.0	0.0	0.2	2.6	20.2	37.0	60.0	60.0	0.0	Q4 2014
D18	Chalk River CTS: Build 115kV Switching Facilities and connect new Customer Station	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.0	1.0	4.0	5.0	10.0	10.0	0.0	Q2 2014
D19	Nelson TS: Replace T1/T2 DESN with new DESN	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.3	2.0	12.0	15.5	29.8	14.8	15.0	Q4 2014
	Other Capital Projects (<\$3M) with 2013-14 Cashflows⁴					0.9	1.0	11.5	23.8	20.0	18.9	369.7 ⁶	143.4	226.3	
	Other Historical Projects (pre-2013)⁵					69.2	42.3	49.6	37.1	0.0	0.0	321.5	63.7	257.8	
	Total					70.8	44.6	68.1	100.1	101.9	95.4				

Notes

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Note 2: Customer Contribution: the sum of the cash flows that is paid by the customer (where applicable). The capital contribution amounts indicated herein are considered preliminary, since they are yet to be finalized, based on the signed CCRA and the actual project cost.

Note 3: Net Total Cost: Gross Total Cost minus Customer Contribution.

Note 4: The cash flows shown in “**Other Capital Projects**” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “**Other Historical Projects**” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Note 6: The Gross Total Cost consists of several major multi-year projects under consideration for beyond 2014, which have some minimal cashflow in 2013 and/or 2014 in order to perform preliminary studies and engineering.

Table 5
Generation Customer Connection: Summary of Development Capital Projects in Excess of \$3 Million

Item#	Investment Description	Classification as per OEB Filing Guideline	Capital Project Category	EA Status	Section 92 Status	Gross Cash Flow (\$ Millions)							In-Service Years		
						Historical			Bridge	Test	Test	Gross Total Cost ¹		Capital Contribution ²	Net Total Cost ³
						2009	2010	2011							
D20	Samsung South Kent Wind Farm (270 MW) (Formerly Chatham Wind Generation Connection)	Development, Non-Discretionary	Category 2	Not Required	Not Required	0.0	0.0	0.2	6.5	4.1	0.0	10.7	10.7	0.0	Q2 2013
D21	Lower Mattagami Generation Connections	Development, Non-Discretionary	Category 2	Completed	Completed	0.1	0.1	0.8	11.1	15.9	2.4	30.9	29.3	1.7	Q4 2013
D22	Niagara Region Wind Corporation Generation Connection (230 MW)	Development, Non-Discretionary	Category 2	Required	Not Required	0.0	0.0	0.0	1.0	25.0	25.0	51.0	51.0	0.0	Q2 2014
D23	Armow Wind Generation Connection (180 MW)	Development, Non-Discretionary	Category 2	Required	Not Required	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	0.0	Q2 2014
D24	K2 Wind Generator Connection (270 MW)	Development, Non-Discretionary	Category 2	Required	Not Required	0.0	0.0	0.0	10.0	20.0	25.0	55.0	55.0	0.0	Q4 2014
D25	Adelaide/Bornish/Jericho Wind Energy Centres (284 MW)	Development, Non-Discretionary	Category 2	Required	Not Required	0.0	0.0	0.0	10.0	25.0	20.0	55.0	55.0	0.0	Q4 2014
	Provision for Unforeseen Projects	Development, Non-Discretionary	Category 2	Required	Not Required	0.0	0.0	0.0	2.0	10.0	10.0	56.0	56.0	0.0	
	Other Capital Projects (<\$3M) with 2013-14 Cashflows⁴					0.0	0.1	0.9	16.0	45.4	26.1	94.7	94.3	0.4	
	Other Historical Projects (pre-2013)⁵					9.6	6.8	9.4	0.0	0.0	0.0	125.7	51.3	74.3	
	Total					9.7	7.0	11.3	56.6	146.4	109.5				

Notes

Note 1: Gross Total Cost: of the plan cost, including the sum of the cash flows in the years before 2013 and after 2014 and the amount of customer contribution where applicable.

Note 2: Customer Contribution: the sum of the cash flows that is paid by the customer (where applicable). The capital contribution amounts indicated herein are considered preliminary, since they are yet to be finalized, based on the signed CCRA and the actual project cost.

Note 3: Net Total Cost: Gross Total Cost minus Customer Contribution.

Note 4: The cash flows shown in “**Other Capital Projects**” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “**Other Historical Projects**” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Table 6
Protection and Control Modifications for Enablement of Distribution Connected Generation
Summary of Development Capital Projects in Excess of \$3 Million

Item #	Investment Description	Classification as per OEB Filing Guideline	Cash Flow (\$ Millions)					
			Historical			Bridge	Test	Test
			2009	2010	2011	2012	2013	2014
D26	Transfer Trip Signaling Enhancement	Development Non-Discretionary	0	0	0	2.0	5.0	8.0
D27	Transmission Station P&C Upgrades for DG	Development Non-Discretionary	2.4	6.1	12.1	37.6	18.5	20.5
	Other Capital Projects (<\$3M) With 2013-14 Cashflows⁴		0	0	0	0	0	0
	Other Historical Projects (pre-2013)⁵		0.9	0.3	2.0	0.0	0.0	0.0
	Total Gross Capital		3.3	6.4	14.1	39.6	23.5	28.5
	<i>Capital Contributions</i>		<i>2.4</i>	<i>4.2</i>	<i>11.1</i>	<i>39.6</i>	<i>23.5</i>	<i>28.5</i>
	Total Net Capital		0.9	2.1	3.1	0.0	0.0	0.0

Notes

Note 4: The cash flows shown in “**Other Capital Projects**” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “**Other Historical Projects**” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Table 7
Protection and Control Modifications for Consequences of Connected Distribution Generation
Summary of Development Capital Projects in Excess of \$3 Million

Item #	Investment Description	Classification as per OEB Filing Guideline	Cash Flow (\$ Millions)					
			Historical			Bridge	Test	Test
			2009	2010	2011	2012	2013	2014
D28	Transmission Work to Mitigate Distance Limitation	Development Non-Discretionary	0	0	0	1.2	2.8	3.0
D29	UFLS and Load Rejection Modification	Development Non-Discretionary	0	0	0	0.0	0.0	5.0
	Other Capital Projects (<\$3M) With 2013-14 Cashflows⁴		0	0	0	0.2	0.0	3.0
	Other Historical Projects (pre-2013)⁵		0	0	0	0.0	0.0	0.0
	Total Gross Capital		0	0	0	1.4	2.8	11.0
	<i>Capital Contributions</i>		<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
	Total Net Capital		0	0	0	1.4	2.8	11.0

Notes

Note 4: The cash flows shown in “**Other Capital Projects**” comprise accumulated gross cash flows for projects that require non-zero expenditures of less than \$3 million in either 2013 or 2014.

Note 5: The cash flows shown in “**Other Historical Projects**” comprise accumulated gross cash flows in Historical and Bridge years for projects that do not have any expenditure in 2013 or 2014.

Table 8
Smart Grid: Summary of Development Capital Programs

Item #	Investment Description	Classification as per OEB Filing Guideline	Gross Cash Flow (\$ Millions)					
			Historical			Bridge	Test	Test
			2009	2010	2011	2012	2013	2014
	Smart Grid	Development Non-Discretionary	0.0	0.0	5.8	7.0	2.0	2.0
	Total		0.0	0.0	5.8	7.0	2.0	2.0

Table 9
Performance Enhancement: Summary of Development Capital Programs

Item #	Investment Description	Classification as per OEB Filing Guideline	Gross Cash Flow (\$ Millions)					
			Historical			Bridge	Test	Test
			2009	2010	2011	2012	2013	2014
	Various lines and TSs outliers-inliers	Development Non-Discretionary	2.2	1.4	1.2	5.3	2.5	2.5
	Total		2.2	1.4	1.2	5.3	2.5	2.5

Table 10
Risk Mitigation: Summary of Development Capital Programs

Item #	Investment Description	Classification as per OEB Filing Guideline	Gross Cash Flow (\$ Millions)						In-Service Years
			Historical			Bridge	Test	Test	
			2009	2010	2011	2012	2013	2014	
D30	Hawthorne TS: Uprate Short Circuit Capability	Development, Non-Discretionary	0.0	0.0	0.2	3.0	7.7	1.0	Q4 2013
D31	Allanburg TS: Uprate Short Circuit Capability	Development, Non-Discretionary	0.0	0.0	1.9	3.7	11.4	2.0	Q4 2013
D32	Basin TS: Add Reactors	Development, Non-Discretionary	0.0	0.0	0.0	2.0	4.0	0.0	Q4 2013
D33	Main TS: Add Breakers	Development, Non-Discretionary	0.0	0.0	0.0	2.0	4.7	0.0	Q4 2013
	Other Capital Projects (<\$3M) With 2013-14 Cashflows⁴		0.0	0.0	0.2	1.9	4.8	4.8	
	Other Historical Projects (pre-2013)⁵		17.0	18.7	15.6	3.0	0.0	0.0	
	Total Gross Capital		17.0	18.7	17.9	15.6	32.6	7.8	
	<i>Capital Contributions</i>		0.0	0.0	0.0	1.1	2.5	2.8	
	Total Net Capital		17.0	18.7	17.9	14.5	30.1	5.0	

Notes

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Table 11
 Station Equipment Upgrades & Additions to Facilitate Renewables

Item#	Investment Description	Classification as per OEB Filing Guideline	Gross Cash Flow (\$ Millions)									In-Service Years
			Historical			Bridge	Test	Test	Gross Total Cost ¹	Capital Contribution ²	Net Total Cost ³	
			2009	2010	2011	2012	2013	2014				
D35	Summerhaven SS: Build New In-Line Breaker Station	Development, Non-Discretionary	0.0	0.0	9.7	7.9	4.9	0	22.5	2.1	20.4	Q3 2013
D36	Sandusk SS: Build New In-Line Breaker Station	Development, Non-Discretionary	0.0	0.0	2.6	6.5	14.7	0	23.8	1.9	21.9	Q4 2013
	Other Capital Projects (<\$3M) with 2013-14 Cashflows⁴		0	0	0	0	0	0	0	0	0	
	Other Historical Projects (pre-2013)⁵		0.2	13.8	3.7	0	0	0	17.6	4.6	13.0	
	Total		0.2	13.8	16.0	14.4	19.6	0				

Notes

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