API Model for Dubreuilville (2019 Application)

Version 1.00

Utility Name	Algoma Power Inc. for Dubreuilville
Assigned EB Number	EB-2018-0271
Name and Title	
Phone Number	
Email Address	
Date	
Last COS Re-based Year	

Note: Drop-down lists are shaded blue; Input cells are shaded green.

While this model has been provided in Excel format and is required to be filed with the applications, the onus remains on the applicant to ensure the accuracy of the data and the results. The use of any models and spreadsheets does not automatically imply Board approval. The onus is on the distributor to prepare, document and support its application. Board-issued Excel models and spreadsheets are offered to assist parties in providing the necessary information so as to facilitate an expeditious review of an application. The onus remains on the applicant to ensure the accuracy of the data and the results.

Distributors must enter all incremental costs related to their smart meter program and all revenues recovered to date in the applicable tabs except for those costs (and associated revenues) for which the Board has approved on a final basis, i.e. capital costs have been included in rate base and OM&A costs in revenue requirement.

For 2014, distributors that have completed their deployments by the end of 2013 are not expected to enter any capital costs. However, for OM&A, regardless of whether a distributor has deployments in 2014, distributors should enter the forecasted OM&A for 2014 for all smart meters in service.

Smart Meter Capital Cost and Operational Expense Data

1 Capital Costs

	Asset Type Asset type must be selected to enable calculations	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	Total
		Audited Actual	Audited Actual	Forecast	Forecast	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
		Audited Actual	Audited Actual	Forecast	Forecast	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
Meter Replacements	Smart Meter			118,140												$ 118,140
Poles and Conductor	Poles & Conductor		149,108	124,138	252,000											$ 525,246
Transformers and Underground Assets	Transformers & U/g			33,859	250,000											$ 283,859
Other																$ -
Total Capital Costs		$ -	$ 149,108	$ 276,137	$ 502,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 927,245

2 OM&A Expenses

	Audited Actual	Audited Actual	Forecast	Forecast	Audited Actual	Audited Actual	Audited Actual	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
Ongoing OM&A Costs (operations, meter reading, billing, customer service, etc.) **2017 at 50%** - Note: OM&A amounts are net of any offsetting revenue recorded in the deferral account		80,448	85,274	18,292											$ 184,014
															$ -
Total Incremental OM&A Costs	$ -	$ 80,448	$ 85,274	$ 18,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 184,014

3 Aggregate Smart Meter Costs by Category

3.1	**Capital**															
3.1.1	Smart Meter	$ -	$ -	$ 118,140	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 118,140
3.1.2	Poles & Conductor	$ -	$ 149,108	$ 124,138	$ 252,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 525,246
3.1.3	Transformers & U/g	$ -	$ -	$ 33,859	$ 250,000	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 283,859
3.1.4	Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.5	Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.6	Applications Software	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3.1.7	**Total Capital Costs**	**$ -**	**$ 149,108**	**$ 276,137**	**$ 502,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 927,245**
3.2	**OM&A Costs**															
3.2.1	**Total OM&A Costs**	**$ -**	**$ 80,448**	**$ 85,274**	**$ 18,292**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 184,014**

API Model for Dubreuilville (2019 Application)

	2016	2017	2018	2019	2020	2021	2022	2023	2024
Cost of Capital									
Capital Structure[1]									
Deemed Short-term Debt Capitalization	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%	4.0%
Deemed Long-term Debt Capitalization	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%	56.0%
Deemed Equity Capitalization	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%
Preferred Shares									
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Cost of Capital Parameters									
Deemed Short-term Debt Rate			2.16%	2.16%	2.16%	2.16%	2.16%	2.16%	2.16%
Long-term Debt Rate (actual/embedded/deemed)[2]	5.15%	5.15%	5.15%	5.15%	5.15%	5.15%	5.15%	5.15%	5.15%
Target Return on Equity (ROE)	9.3%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%	9.30%
Return on Preferred Shares									
WACC	6.60%	6.60%	6.69%	6.69%	6.69%	6.69%	6.69%	6.69%	6.69%
Working Capital Allowance									
Working Capital Allowance Rate	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
(% of the sum of Cost of Power + controllable expenses)									
Taxes/PILs									
Aggregate Corporate Income Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Capital Tax (until July 1st, 2010)	0.00%	0.000%	0.000%	0.000%	0.000%	0.00%	0.00%	0.00%	0.00%

Depreciation Rates
(expressed as expected useful life in years)

Smart Meters	- years	15	15	15	15	15	15	15	15	15
	- rate (%)	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%	6.67%
Poles & Conductor	- years	45	45	45	45	45	45	45	45	45
	- rate (%)	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%	2.22%
Transformers & U/g	- years	40	40	40	40	40	40	40	40	40
	- rate (%)	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
Not Used					10	10	10	10	10	10
	- rate (%)	0.00%	0.00%	0.00%	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Not Used						10	10	10	10	10
	- rate (%)	0.00%	0.00%	0.00%	0.00%	10.00%	10.00%	10.00%	10.00%	10.00%

CCA Rates

Smart Meters - CCA Class	8	8	8	8	8	8	8	8	8
Smart Meters - CCA Rate	20%	20%	20%	20%	20%	20%	20%	20%	20%
Poles & Conductor - CCA Class	47	47	47	47	47	47	47	47	47
Poles & Conductor - CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%
Transformers & U/g - CCA Class	47	47	47	47	47	47	47	47	47
Transformers & U/g - CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%
Not Used	47	47	47	47	47	47	47	47	47
Not Used	8%	8%	8%	8%	8%	8%	8%	8%	8%

Assumptions

[1] *Planned smart meter installations occur evenly throughout the year.*
[2] *Fiscal calendar year (January 1 to December 31) used.*
3 *Amortization is done on a striaght line basis and has the "half-year" rule applied.*

API Model for Dubreuilville
(2019 Application)

	2016	2017	2018	2019	2020	2021	2022	2023	2024
Net Fixed Assets - Smart Meters									
Gross Book Value									
Opening Balance		$ -	$ -	$ 118,140	$ 118,140	$ 118,140	$ 118,140	$ 118,140	$ 118,140
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ 118,140	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)									
Closing Balance	$ -	$ -	$ 118,140	$ 118,140	$ 118,140	$ 118,140	$ 118,140	$ 118,140	$ 118,140
Accumulated Depreciation									
Opening Balance		$ -	$ -	-$ 3,938	-$ 11,814	-$ 19,690	-$ 27,566	-$ 35,442	-$ 43,318
Amortization expense during year	$ -	$ -	-$ 3,938	-$ 7,876	-$ 7,876	-$ 7,876	-$ 7,876	-$ 7,876	-$ 7,876
Retirements/Removals (if applicable)									
Closing Balance	$ -	$ -	-$ 3,938	-$ 11,814	-$ 19,690	-$ 27,566	-$ 35,442	-$ 43,318	-$ 51,194
Net Book Value									
Opening Balance	$ -	$ -	$ -	$ 114,202	$ 106,326	$ 98,450	$ 90,574	$ 82,698	$ 74,822
Closing Balance	$ -	$ -	$ 114,202	$ 106,326	$ 98,450	$ 90,574	$ 82,698	$ 74,822	$ 66,946
Average Net Book Value	$ -	$ -	$ 57,101	$ 110,264	$ 102,388	$ 94,512	$ 86,636	$ 78,760	$ 70,884
Net Fixed Assets - Poles & Conductor									
Gross Book Value									
Opening Balance		$ -	$ 149,108	$ 273,246	$ 525,246	$ 525,246	$ 525,246	$ 525,246	$ 525,246
Capital Additions during year (from Smart Meter Costs)	$ -	$ 149,108	$ 124,138	$ 252,000	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)									
Closing Balance	$ -	$ 149,108	$ 273,246	$ 525,246	$ 525,246	$ 525,246	$ 525,246	$ 525,246	$ 525,246
Accumulated Depreciation									
Opening Balance	$ -	$ -	-$ 1,657	-$ 6,350	-$ 15,222	-$ 26,894	-$ 38,566	-$ 50,238	-$ 61,910
Amortization expense during year	$ -	-$ 1,657	-$ 4,693	-$ 8,872	-$ 11,672	-$ 11,672	-$ 11,672	-$ 11,672	-$ 11,672
Retirements/Removals (if applicable)									
Closing Balance	$ -	-$ 1,657	-$ 6,350	-$ 15,222	-$ 26,894	-$ 38,566	-$ 50,238	-$ 61,910	-$ 73,582
Net Book Value									
Opening Balance	$ -	$ -	$ 147,451	$ 266,896	$ 510,024	$ 498,352	$ 486,680	$ 475,008	$ 463,336
Closing Balance	$ -	$ 147,451	$ 266,896	$ 510,024	$ 498,352	$ 486,680	$ 475,008	$ 463,336	$ 451,664
Average Net Book Value	$ -	$ 73,726	$ 207,174	$ 388,460	$ 504,188	$ 492,516	$ 480,844	$ 469,172	$ 457,500

Net Fixed Assets - Transformers & U/g

Gross Book Value									
Opening Balance		$ -	$ -	$ 33,859	$ 283,859	$ 283,859	$ 283,859	$ 283,859	$ 283,859
Capital Additions during year (from Smart Meter Costs)	$ -	$ -	$ 33,859	$ 250,000	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)									
Closing Balance	$ -	$ -	$ 33,859	$ 283,859	$ 283,859	$ 283,859	$ 283,859	$ 283,859	$ 283,859
Accumulated Depreciation									
Opening Balance	$ -	$ -	$ -	-$ 423	-$ 4,395	-$ 11,491	-$ 18,588	-$ 25,684	-$ 32,781
Amortization expense during year	$ -	$ -	-$ 423	-$ 3,971	-$ 7,096	-$ 7,096	-$ 7,096	-$ 7,096	-$ 7,096
Retirements/Removals (if applicable)									
Closing Balance	$ -	$ -	-$ 423	-$ 4,395	-$ 11,491	-$ 18,588	-$ 25,684	-$ 32,781	-$ 39,877
Net Book Value									
Opening Balance	$ -	$ -	$ -	$ 33,436	$ 279,464	$ 272,368	$ 265,271	$ 258,175	$ 251,078
Closing Balance	$ -	$ -	$ 33,436	$ 279,464	$ 272,368	$ 265,271	$ 258,175	$ 251,078	$ 243,982
Average Net Book Value	$ -	$ -	$ 16,718	$ 156,450	$ 275,916	$ 268,820	$ 261,723	$ 254,627	$ 247,530

API Model for Dubreuilville (2019 Application)

	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Average Net Fixed Asset Values (from Sheet 4)														
Smart Meters	$ -	$ -	$ 57,101	$ 110,264	$ 102,388	$ 94,512	$ 86,636	$ 78,760	$ 70,884	$ 63,008	$ 55,132	$ 47,256	$ 39,380	$ 31,504
Poles & Conductor	$ -	$ 73,726	$ 207,174	$ 388,460	$ 504,188	$ 492,516	$ 480,844	$ 469,172	$ 457,500	$ 445,828	$ 434,155	$ 422,483	$ 410,811	$ 399,139
Transformers & U/g	$ -	$ -	$ 16,718	$ 156,450	$ 275,916	$ 268,820	$ 261,723	$ 254,627	$ 247,530	$ 240,434	$ 233,337	$ 226,241	$ 219,144	$ 212,048
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Net Fixed Assets	**$ -**	**$ 73,726**	**$ 280,993**	**$ 655,174**	**$ 882,492**	**$ 855,848**	**$ 829,203**	**$ 802,558**	**$ 775,914**	**$ 749,269**	**$ 722,625**	**$ 695,980**	**$ 669,335**	**$ 642,691**
Working Capital														
Operating Expenses (from Sheet 2)	$ -	$ 80,448	$ 85,274	$ 18,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Working Capital Factor (from Sheet 3)	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Working Capital Allowance	$ -	$ 8,045	$ 8,527	$ 1,829	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Incremental Smart Meter Rate Base	**$ -**	**$ 81,770**	**$ 289,520**	**$ 657,004**	**$ 882,492**	**$ 855,848**	**$ 829,203**	**$ 802,558**	**$ 775,914**	**$ 749,269**	**$ 722,625**	**$ 695,980**	**$ 669,335**	**$ 642,691**
Return on Rate Base														
Capital Structure														
Deemed Short Term Debt	$ -	$ 3,271	$ 11,581	$ 26,280	$ 35,300	$ 34,234	$ 33,168	$ 32,102	$ 31,037	$ 29,971	$ 28,905	$ 27,839	$ 26,773	$ 25,708
Deemed Long Term Debt	$ -	$ 45,791	$ 162,131	$ 367,922	$ 494,196	$ 479,275	$ 464,354	$ 449,433	$ 434,512	$ 419,591	$ 404,670	$ 389,749	$ 374,828	$ 359,907
Equity	$ -	$ 32,708	$ 115,808	$ 262,801	$ 352,997	$ 342,339	$ 331,681	$ 321,023	$ 310,366	$ 299,708	$ 289,050	$ 278,392	$ 267,734	$ 257,076
Preferred Shares	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Capitalization	$ -	$ 81,770	$ 289,520	$ 657,004	$ 882,492	$ 855,848	$ 829,203	$ 802,558	$ 775,914	$ 749,269	$ 722,625	$ 695,980	$ 669,335	$ 642,691
Return on														
Deemed Short Term Debt	$ -	$ -	$ 250	$ 568	$ 762	$ 739	$ 716	$ 693	$ 670	$ 647	$ 624	$ 601	$ 578	$ 555
Deemed Long Term Debt	$ -	$ 2,358	$ 8,350	$ 18,948	$ 25,451	$ 24,683	$ 23,914	$ 23,146	$ 22,377	$ 21,609	$ 20,840	$ 20,072	$ 19,304	$ 18,535
Equity	$ -	$ 3,042	$ 10,770	$ 24,441	$ 32,829	$ 31,838	$ 30,846	$ 29,855	$ 28,864	$ 27,873	$ 26,882	$ 25,890	$ 24,899	$ 23,908
Preferred Shares	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Return on Capital	$ -	$ 5,400	$ 19,370	$ 43,956	Formulas removed for these years to prevent costs from carrying to other tabs. API's proposal is to bring the NBV of these assets into rate base as part of its 2020 COS application.									
Operating Expenses	$ -	$ 80,448	$ 85,274	$ 18,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Amortization Expenses (from Sheet 4)														
Smart Meters	$ -	$ -	$ 3,938	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876	$ 7,876
Computer Hardware	$ -	$ 1,657	$ 4,693	$ 8,872	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672	$ 11,672
Computer Software	$ -	$ -	$ 423	$ 3,971	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096	$ 7,096
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Amortization Expense in Year	$ -	$ 1,657	$ 9,054	$ 20,720	Formulas removed for these years to prevent costs from carrying to other tabs. API's proposal is to bring the NBV of these assets into rate base as part of its 2020 COS application.									
Incremental Revenue Requirement before Taxes/PILs	$ -	$ 87,504	$ 113,698	$ 82,968	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Calculation of Taxable Income														
Incremental Operating Expenses	$ -	$ 80,448	$ 85,274	$ 18,292	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Amortization Expense	$ -	$ 1,657	$ 9,054	$ 20,720	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Interest Expense	$ -	$ 2,358	$ 8,600	$ 19,516	$ 26,214	$ 25,422	$ 24,631	$ 23,839	$ 23,048	$ 22,256	$ 21,465	$ 20,673	$ 19,882	$ 19,090
Net Income for Taxes/PILs	$ -	$ 3,042	$ 10,770	$ 24,441	-$ 26,214	-$ 25,422	-$ 24,631	-$ 23,839	-$ 23,048	-$ 22,256	-$ 21,465	-$ 20,673	-$ 19,882	-$ 19,090
Grossed-up Taxes/PILs (from Sheet 7)	$ -	-$ 456.34	-$ 3,519.33	-$ 6,797.92	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Revenue Requirement, including Grossed-up Taxes/PILs	$ -	$ 87,048	$ 110,179	$ 76,170	Formulas removed for these years to prevent costs from carrying to other tabs. API's proposal is to bring the NBV of these assets into rate base as part of its 2020 COS application.									
													#DIV/0!	

For PILs Calculation

UCC - Meters (CCA Class 8)

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast
Opening UCC	$ -	$ -	$ -	$ 106,326.00	$ 85,060.80	$ 68,048.64	$ 54,438.91	$ 43,551.13	$ 34,840.90	$ 27,872.72	$ 22,298.18	$ 17,838.54	$ 14,270.83	$ 11,416.67
Capital Additions	$ -	$ -	$ 118,140.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)														
UCC Before Half Year Rule	$ -	$ -	$ 118,140.00	$ 106,326.00	$ 85,060.80	$ 68,048.64	$ 54,438.91	$ 43,551.13	$ 34,840.90	$ 27,872.72	$ 22,298.18	$ 17,838.54	$ 14,270.83	$ 11,416.67
Half Year Rule (1/2 Additions - Disposals)	$ -	$ -	$ 59,070.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Reduced UCC	$ -	$ -	$ 59,070.00	$ 106,326.00	$ 85,060.80	$ 68,048.64	$ 54,438.91	$ 43,551.13	$ 34,840.90	$ 27,872.72	$ 22,298.18	$ 17,838.54	$ 14,270.83	$ 11,416.67
CCA Rate Class	8	8	8	8	8	8	8	8	8	8	8	8	8	8
CCA Rate	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
CCA	$ -	$ -	$ 11,814.00	$ 21,265.20	$ 17,012.16	$ 13,609.73	$ 10,887.78	$ 8,710.23	$ 6,968.18	$ 5,574.54	$ 4,459.64	$ 3,567.71	$ 2,854.17	$ 2,283.33
Closing UCC	$ -	$ -	$ 106,326.00	$ 85,060.80		Formulas removed for these years to prevent costs from carrying to other tabs. API's proposal is to bring the NBV of these assets into rate base as part of its 2020 COS application.								

UCC - CCA Class 47

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast
Opening UCC	$ -	$ -	$ 143,143.68	$ 283,369.31	$ 742,619.76	$ 683,210.18	$ 628,553.37	$ 578,269.10	$ 532,007.57	$ 489,446.96	$ 450,291.21	$ 414,267.91	$ 381,126.48	$ 350,636.36
Capital Additions Poles & Conductor	$ -	$ 149,108.00	$ 124,138.00	$ 252,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions Transformers & U/g	$ -	$ -	$ 33,859.00	$ 250,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)														
UCC Before Half Year Rule	$ -	$ 149,108.00	$ 301,140.68	$ 785,369.31	$ 742,619.76	$ 683,210.18	$ 628,553.37	$ 578,269.10	$ 532,007.57	$ 489,446.96	$ 450,291.21	$ 414,267.91	$ 381,126.48	$ 350,636.36
Half Year Rule (1/2 Additions - Disposals)	$ -	$ 74,554.00	$ 78,998.50	$ 251,000.00	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Reduced UCC	$ -	$ 74,554.00	$ 222,142.18	$ 534,369.31	$ 742,619.76	$ 683,210.18	$ 628,553.37	$ 578,269.10	$ 532,007.57	$ 489,446.96	$ 450,291.21	$ 414,267.91	$ 381,126.48	$ 350,636.36
CCA Rate Class	47	47	47	47	47	47	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
CCA	$ -	$ 5,964.32	$ 17,771.37	$ 42,749.54	$ 59,409.58	$ 54,656.81	$ 50,284.27	$ 46,261.53	$ 42,560.61	$ 39,155.76	$ 36,023.30	$ 33,141.43	$ 30,490.12	$ 28,050.91
Closing UCC	$ -	$ 143,143.68	$ 283,369.31	$ 742,619.76		Formulas removed for these years to prevent costs from carrying to other tabs. API's proposal is to bring the NBV of these assets into rate base as part of its 2020 COS application.								

UCC - Not Used

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast
Opening UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)														
UCC Before Half Year Rule	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Half Year Rule (1/2 Additions - Disposals)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Reduced UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CCA Rate Class	47	47	47	47	47	47	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
CCA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Closing UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

UCC - Not Used

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast	2025 Forecast	2026 Forecast	2027 Forecast	2028 Forecast	2029 Forecast
Opening UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Capital Additions Applications Software	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Retirements/Removals (if applicable)														
UCC Before Half Year Rule	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Half Year Rule (1/2 Additions - Disposals)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Reduced UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CCA Rate Class	47	47	47	47	47	47	47	47	47	47	47	47	47	47
CCA Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
CCA	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Closing UCC	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

PILs Calculation

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast
INCOME TAX									
Net Income	$ -	$ 3,041.86	$ 10,770.15	$ 24,440.53	-$ 26,213.55	-$ 25,422.10	-$ 24,630.65	-$ 23,839.20	-$ 23,047.74
Amortization	$ -	$ 1,656.76	$ 9,054.06	$ 20,719.61	$ -	$ -	$ -	$ -	$ -
CCA - Smart Meters	$ -	$ -	-$ 11,814.00	-$ 21,265.20	-$ 17,012.16	-$ 13,609.73	-$ 10,887.78	-$ 8,710.23	-$ 6,968.18
CCA - Distribution System Assets	$ -	-$ 5,964.32	-$ 17,771.37	-$ 42,749.54	-$ 59,409.58	-$ 54,656.81	-$ 50,284.27	-$ 46,261.53	-$ 42,560.61
CCA - Applications Software	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
CCA - Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Change in taxable income	$ -	-$ 1,265.71	-$ 9,761.17	-$ 18,854.60	-$ 102,635.29	-$ 93,688.64	-$ 85,802.70	-$ 78,810.95	-$ 72,576.53
Tax Rate (from Sheet 3)	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Income Taxes Payable	$ -	-$ 335.41	-$ 2,586.71	-$ 4,996.47	-$ 27,198.35	-$ 24,827.49	-$ 22,737.72	-$ 20,884.90	-$ 19,232.78
ONTARIO CAPITAL TAX									
Smart Meters	$ -	$ -	$ 114,202.00	$ 106,326.00	$ 98,450.00	$ 90,574.00	$ 82,698.00	$ 74,822.00	$ 66,946.00
Computer Hardware	$ -	$ 147,451.24	$ 266,896.42	$ 510,024.29	$ 498,352.16	$ 486,680.02	$ 475,007.89	$ 463,335.76	$ 451,663.62
Computer Software (Including Application Software)	$ -	$ -	$ 33,435.76	$ 279,464.29	$ 272,367.81	$ 265,271.34	$ 258,174.86	$ 251,078.39	$ 243,981.91
Tools & Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Other Equipment	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rate Base	$ -	$ 147,451.24	$ 414,534.18	$ 895,814.58	$ 869,169.97	$ 842,525.36	$ 815,880.75	$ 789,236.14	$ 762,591.53
Less: Exemption									
Deemed Taxable Capital	$ -	$ 147,451.24	$ 414,534.18	$ 895,814.58	$ 869,169.97	$ 842,525.36	$ 815,880.75	$ 789,236.14	$ 762,591.53
Ontario Capital Tax Rate (from Sheet 3)	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
Net Amount (Taxable Capital x Rate)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Change in Income Taxes Payable	$ -	-$ 335.41	-$ 2,586.71	-$ 4,996.47	-$ 27,198.35	-$ 24,827.49	-$ 22,737.72	-$ 20,884.90	-$ 19,232.78
Change in OCT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PILs	$ -	-$ 335.41	-$ 2,586.71	-$ 4,996.47	-$ 27,198.35	-$ 24,827.49	-$ 22,737.72	-$ 20,884.90	-$ 19,232.78

Gross Up PILs

	2016 Audited Actual	2017 Audited Actual	2018 Forecast	2019 Forecast	2020 Audited Actual	2021 Audited Actual	2022 Audited Actual	2023 Forecast	2024 Forecast
Tax Rate	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%	26.50%
Change in Income Taxes Payable	$ -	-$ 456.34	-$ 3,519.33	-$ 6,797.92	-$ 37,004.56	-$ 33,778.90	-$ 30,935.67	-$ 28,414.83	-$ 26,167.05
Change in OCT	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
PILs	$ -	-$ 456.34	-$ 3,519.33	-$ 6,797.92		**Formulas removed for these years to prevent costs from carrying to other tabs. API's propos**			

Year	Average Annual Prescribed Interest Rate	OM&A Expenses Included in Model	Amortization / Depreciation Expense	Cumulative OM&A and Amortization Expense Included in Model	Average Net Cumulative OM&A and Amortization Expense Included in Model	Simple Interest on Expenses	Revenue from Rate Riders	Cumulative Revenue from Rate Riders	Average Cumulative Revenue from Rate Riders	Simple Interest on Revenue	Net Interest
2017	1.233%	80,447.50	1,656.76	82,104.26	41,052.13	379.73	-	-	-	-	379.73
2018	1.793%	85,274.00	9,054.06	176,432.32	129,268.29	2,317.13	-	-	-	-	2,317.13
2019	1.793%	18,292.00	20,719.61	215,443.92	195,938.12	3,512.19	47,273.76	47,273.76	23,636.88	423.69	3,088.50
2020	1.793%	-	-	215,443.92	215,443.92	3,861.83	47,273.76	94,547.52	70,910.64	1,271.07	2,590.76
2021	1.793%	-	-	215,443.92	215,443.92	3,861.83	47,273.76	141,821.28	118,184.40	2,118.46	1,743.38
2022	1.793%	-	-	215,443.92	215,443.92	3,861.83	47,273.76	189,095.04	165,458.16	2,965.84	895.99
2023	1.793%	-	-	215,443.92	215,443.92	3,861.83	47,273.76	236,368.80	212,731.92	3,813.22	48.61
2024	1.793%	-	-	215,443.92	215,443.92	3,861.83	47,273.76	283,642.56	260,005.68	4,660.60	- 798.77

Notes

2017 includes Apr-Dec only - used average of Q2-Q4 interest rates; multiplied simple interest calculation by 9/12 to reflect that interest is for 9 months only

OM&A Expenses Included in Model include distribution revenue net of cost of power

API Model for Dubreuilville
(2019 Application)

This worksheet calculates the Smart Meter Disposition Rider and the Smart Meter Incremental Revenue Requirement Rate Rider, if applicable. This worksheet also calculates any new Smart Meter Funding Adder that a distributor may wish to request. However, please note that in many 2011 IRM decisions, the Board noted that current funding adders will cease on April 30, 2011 and that the Board's expectation is that distributors will file for a final review of prudence at the earliest opportunity. The Board also noted that the SMFA is a tool designed to provide advance funding and to mitigate the anticipated rate impact of smart meter costs when recovery of those costs is approved by the Board. The Board observed that the SMFA was not intended to be compensatory (return on and of capital) on a cumulative basis over the term the SMFA was in effect. The SMFA was initially designed to fund future investment, and not fully fund prior capital investment. Distributors that seek a new SMFA should provide evidence to support its proposal. This would include documentation of where the distributor is with respect to its smart meter deployment program, and reasons as to why the distributor's circumstances are such that continuation of the SMFA is warranted. Press the "UPDATE WORKSHEET" button after choosing the applicable adders/riders.

Check if applicable	
	Smart Meter Funding Adder (SMFA)
X	Smart Meter Disposition Rider (SMDR)
	Smart Meter Incremental Revenue Requirement Rate Rider (SMIRR)

		2016		**2017**		**2018**		**2019**		**2020**		**2021**		**2022**		**2023**		**2024**		**Total**
Deferred and forecasted Smart Meter Incremental Revenue Requirement (from Sheet 5)	$	-	$	87,048.03	$	110,178.78	$	76,169.86	$	-	$	-	$	-	$	-	$	-	$	273,396.67
Net Interest (From Sheet 8)	$	-	$	379.73	$	2,317.13	$	3,088.50	$	2,590.76	$	1,743.38	$	895.99	$	48.61	-	798.77	$	10,265.34
Net Deferred Revenue Requirement	$	-	$	87,427.76	$	112,495.92	$	79,258.36	$	2,590.76	$	1,743.38	$	895.99	$	48.61	-$	798.77	$	283,662.01
Number of Metered Customers (average for 2014 test year)																		353		

- Number of metered customers for which smart meter were deployed as part of program). Residential and GS < 50 kW customer classes and any other metered classes involved (e.g. GS 50 to 4999 kW for which interval meters were upgraded to utilize AMI and ODS assets)

Calculation of Smart Meter Disposition Rider (per metered customer per month)

Years for collection or refunding			6
Deferred Incremental Revenue Requirement from 2006 to December 31, 2013 plus Interest on OM&A and Amortization		$	283,662.01
SMFA Revenues collected from 2006 to 2014 test year (inclusive) Plus Simple Interest on SMFA Revenues		$	-
Net Deferred Revenue Requirement		$	283,662.01
SMDR	January 1, 2019 to December 31, 2024	$	11.16
Check: Forecasted SMDR Revenues		$	283,642.56
Check: Forecasted SMIRR Revenues		$	-

Match

API Model for Dubreuilville (2019 Application)

This worksheet calculates the class-specific SMDRs according to accepted practice. A distributor may choose to use its own methodology, but should provide analogous support for its allocation and derivation of class-specific SMDRs and SMIRRs.

Class-specific SMDRs

Revenue Requirement for Historical Years	2016	2017	2018	2019	2020	2021	2022	2023	2024	Total 2016 to 2024	**Explanation / Allocator**	Residential	GS < 50 kW	GS 50 to 4999 kW	Other (please specify)	Total
											Check Row if SMDR/SMIRR apply to class	X	X			2
												%	%	%	%	
											Weighted Meter Cost - Capital	87.54%	12.46%	0.00%	0.00%	100%
Return on Capital	$ -	$ 5,400.12	$ 19,370.05	$ 43,956.17	$ -	$ -	$ -	$ -	$ -	$ 68,726.34	Allocated per class	$ 60,159.88	$ 8,566.46	$ -	$ -	
Depreciation/Amortization expense and related interest	$ -	$ 1,656.76	$ 9,054.06	$ 20,719.61	$ -	$ -	$ -	$ -	$ -							
	$ -	$ 7.66	$ 140.67	$ 450.57	$ 377.96	$ 254.34	$ 130.71	$ 7.09	-$ 116.53		Weighted Meter Cost - Capital	88%	12%	0%	0%	100%
	$ -	$ 1,664.42	$ 9,194.73	$ 21,170.18	$ 377.96	$ 254.34	$ 130.71	$ 7.09	-$ 116.53	$ 32,682.89	Allocated per class	$ 28,609.11	$ 4,073.79	$ -	$ -	
Operating Expenses and related interest	$ -	$ 80,447.50	$ 85,274.00	$ 18,292.00	$ -	$ -	$ -	$ -	$ -		Number of Smart Meters installed by Class	#	#	#	#	
	$ -	$ 372.07	$ 2,176.47	$ 2,637.93	$ 2,212.80	$ 1,489.04	$ 765.28	$ 41.52	-$ 682.24			309	44			
	$ -	$ 80,819.57	$ 87,450.47	$ 20,929.93	$ 2,212.80	$ 1,489.04	$ 765.28	$ 41.52	-$ 682.24	$ 193,026.37	Allocated per class	$ 168,966.43	$ 24,059.94	0	0	
Revenue Requirement before Taxes/PILs										$ 294,435.60		$ 257,735.41	$ 36,700.19	$ -	$ -	$ -
											Revenue Requirement before PILs	87.54%	12.46%	0.00%	0.00%	100%
Grossed-up Taxes/PILs	$ -	-$ 456.34	-$ 3,519.33	-$ 6,797.92	$ -	$ -	$ -	$ -	$ -	-$ 10,773.59		-$ 9,430.71	-$ 1,342.88	$ -	$ -	
Total Revenue Requirement plus interest on OM&A and depreciation expense										$ 283,662.01		$ 248,304.70	$ 35,357.30	$ -	$ -	
											Percentage of costs allocated to each cla	87.54%	12.46%	0.00%	0.00%	
										$ -	Percentage of costs for classes with SMDR/SMIRR	87.54%	12.46%	0.00%	0.00%	
												87.54%	12.46%	0.00%	0.00%	

		Residential	GS < 50 kW	GS 50 to 4999 kW	Other (please specify)	Total
		%	%	%	%	
SMFA Revenues directly attributable to class						0%
		0.00%	0.00%	0.00%	0.00%	0.00%
Residual SMFA Revenues (from other metered classes) attributed evenly		50.00%	50.00%	0.00%	0.00%	
Total		50.00%	50.00%	0.00%	0.00%	
SMFA Revenues plus interest expense	$ -	$ -	$ -	$ -	$ -	
Net Deferred Revenue Requirement to be recovered via SMDR	$ 283,662.01	$ 248,304.70	$ 35,357.30	$ -	$ -	
Average number of metered customers by class (2014), for customer classes with smart meters deployed	Average number of customers (2014)	309	44	0	0	
Number of Years for SMDR recovery	6 years	6	6	6	6	
Smart Meter Disposition Rider ($/month per metered customer in the customer class)		$ 11.16	$ 11.16			
Estimated SMDR Revenues	$ 283,642.56	$ 248,287.68	$ 35,354.88	$ -	$ -	
	$ 19.45					