

Fred James

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February 14, 2019

Mr. Patrick Wruck Commission Secretary and Manager Regulatory Support British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, BC V6Z 2N3

Dear Mr. Wruck:

RE: British Columbia Utilities Commission (BCUC or Commission)
British Columbia Hydro and Power Authority (BC Hydro)
F2017 Fully Allocated Cost of Service (FACOS) Study

BC Hydro writes to file our F2017 FACOS study reflecting fiscal 2017 actual results pursuant to Commission Directive No. 2 of the 2007 Rate Design Application (2007 RDA) Decision¹.

BC Hydro filed our last annual FACOS study on March 15, 2018, based on fiscal 2016 actual revenue and load data. BC Hydro is now filing our F2017 FACOS study based on actual fiscal 2017 revenue and load data. This filing is being made for information only.

BC Hydro's fully allocated cost of service study methodology was the subject of a Negotiated Settlement Process Regarding BC Hydro's F2016 Cost of Service Study, included as Appendix A to Commission Order No. G-47-16 (**NSA**). This compliance filing incorporates changes to methodology described in the settlement to the NSA, as did our prior FACOS filing of March 15, 2018.

BC Hydro has undertaken further examination of the topic areas raised in the NSA. BC Hydro will file a Cost of Service Study Application before March 31, 2019, presenting this further examination and proposing changes to the methodology as applicable, for use in future FACOS filings.

The table below shows Revenue-to-Cost (**R/C**) ratios for all rate classes as compared to prior results. The F2014 FACOS were based on actual revenue and customer load data. The F2015 FACOS was not completed due to BC Hydro's 2015 Rate Design Application being underway. BC Hydro's 2015 Rate Design Application relied on an F2016 Forecast FACOS, and therefore two results are presented for fiscal 2016. The F2016 Forecast

https://www.bcuc.com/Documents/Proceedings/2007/DOC 17004 10-26 BCHydro-Rate-Design-Phase-1-Decision.pdf

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Mr. Patrick Wruck
Commission Secretary and Manager
Regulatory Support
British Columbia Utilities Commission
F2017 Fully Allocated Cost of Service (FACOS) Study



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cost of service study was based on forecast revenue and load data and was the subject of the NSA. The F2016 FACOS was based on actual revenue and load data and incorporates the methodology changes agreed to in the NSA. The F2017 FACOS is also based on actual revenue and load data, and uses the same methodology as was used in the F2016 FACOS.

			Revenue to Cost	Ratios	
Rate Class	F2014 Actual (%)	F2016 Forecast	F2016 Actual (%)	F2017 Actual (%)	Percentage Point Change (F2016 Actual to F2017 Actual) (%)
Residential	92.9	93.3	90.8	93.2	2.4
GS < 35 kW	123.5	111.9	122.6	123.6	1.0
MGS	119.5	117.2	123.5	115.1	-8.4
LGS	101.5	101.3	103.9	103.9	0.0
Irrigation	90.3	87.6	95.1	89.5	-5.6
Street Lighting – BC Hydro Owned	129.4	173.6	183.6	198.4	14.8
Street Lighting – Customer Owned		104.8	101.8	95.1	-6.7
Transmission	97.3	102.6	98.8	95.4	-3.4
Total	100.0	100.0	100.0	100.0	100.0

There are a number of factors giving rise to the variances between F2017 Actual results and results of prior years, including:

- Residential Rate Class revenues were higher in fiscal 2017 largely because the
 winter of fiscal 2017 was colder than the winters of the other years presented above.
 For example, in fiscal 2017, seven per cent of days were below zero degrees
 Celsius, compare to an average of three per cent for fiscal 2014 and fiscal 2016. All
 else being equal, higher revenues from a rate class will increase its Revenue to Cost
 Ratio. Increased revenues due to the colder winter were a contributing factor to the
 change in the Residential Rate Class R/C ratio in fiscal 2017 relative to fiscal 2016;
- Cost of energy was higher in fiscal 2017 than in fiscal 2016. The increase in cost of
 energy was due to an increase in load as well as reductions in offsets to energy
 related generation functionalized costs such as surplus sales and other utility
 revenue. All else being equal, an increase in cost of energy without a corresponding
 increase in revenue will lower the R/C ratio for an individual rate class. Increased
 cost of energy, combined with little change to revenues, were the main reasons for

February 14, 2019 Mr. Patrick Wruck Commission Secretary and Manager Regulatory Support British Columbia Utilities Commission F2017 Fully Allocated Cost of Service (FACOS) Study



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the change in the Transmission Rate Class R/C ratio in fiscal 2017 relative to fiscal 2016;

- A slight decrease in revenue and moderate increase of cost allocated to the MGS Rate Class resulted in a lower R/C ratio in fiscal 2017 relative to fiscal 2016 and;
- Improvements to the quality of load data collection on the Street Lighting and Irrigation Rate Classes resulted in an increase in demand related costs being assigned to Street Lighting Customer Owned and Irrigation Rate Classes, and a decrease in demand related cost allocated to Street Lighting BC Hydro Owned Rate Class. Although these changes in demand related costs were small in absolute value, they resulted in meaningful changes to the R/C ratios for these three rate classes. Variability in the R/C ratios is to be expected for smaller rate classes.

For further information, please contact Anthea Jubb at 604-623-3545 or by email at bchydro.com.

Yours sincerely,

Fred James

Chief Regulatory Officer

aj/rh

Enclosure

Copy to: BCUC Project No. 3698781 (2015 RDA) Registered Intervener Distribution List.

F2017 Cost of Service - Actual Cost

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Note: All costs are in \$ X 1 million unless otherwise noted.

F2017 Cost of Service - Actual Cost Functionalization Details

Revenue Requirement Schedule (F2017 Actual) ¹

Cost of Energy		F2017 Revenue Requirement	Generation	Transmission	Distribution	Customer Care
Sched 4, L37 + L99	IPPs and Long-term Purchases commitment	1,286.0	1,286.0	0.0	0.0	0.0
Sched 4, L 41	Domestic Transmission (Non-Heritage)	0.0	0.0	0.0	0.0	0.0
Sched 4, L 39	NIA Generation	25.0	25.0	0.0	0.0	0.0
Sched 4, L 40	Gas Transportation	11.7	11.7	0.0	0.0	0.0
Sched 4, L 26 + L36	Water Rentals	387.0	387.0	0.0	0.0	0.0
Sched 4, L 28 + L35 + L27	Market Purchases	3.4	3.4	0.0	0.0	0.0
Sched 4, L 29	Natural gas for thermal generation	9.5	9.5	0.0	0.0	0.0
Sched 4, L 30	Domestic Transmission (Heritage)	50.8	0.0	50.8	0.0	0.0
Sched 4, L 31	Non-treaty storage agreement	-23.3	-23.3	0.0	0.0	0.0
Sched 4, L 32 +L 33	Other and Surplus Sales	-174.1	-174.1	0.0	0.0	0.0
Sched 4, L 42	Net purchases (sales) from Powerex	2.3	2.3	0.0	0.0	0.0
Sched 4, L 46	HDA Additions	31.0	31.0	0.0	0.0	0.0
Sched 4, L 47	NHDA Additions	17.2	17.2	0.0	0.0	0.0
Sched 4, L 52	Deferred Operating HDA	-0.1	-0.1	0.0	0.0	0.0
Sched 4, L 53	Deferred Operating NHDA	-8.9	-8.9	0.0	0.0	0.0
Sched 4, L 54	Deferred Amortization NHDA	-3.3	-3.3	0.0	0.0	0.0
Sched 4, L 55	Deferred Taxes NHDA	-0.4	-0.4	0.0	0.0	0.0
Sched 4, L 57	Heritage Deferral Account Recoveries	-4.7	-4.7	0.0	0.0	0.0
Sched 4, L 58 Total	Non-Heritage Deferral Account Recoveries	179.4 1,788.6	179.4 1,737.8	0.0 50.8	0.0	0.0
O M & A Expenses	(undeted eccording to organization etructure change in E2017)					
Sched 5.0, L132	(updated according to organization structure change in F2017) Training, Development and Generation	163.5	140.0	10.1	11.6	1.8
Sched 5.0, L133 to 134	Transmission, Distribution and Customer Services	672.2	35.3	248.8	269.9	118.3
Sched 5.0, L136	Capital Infrastructure Project Delivery	90.7	64.4	50.1	-25.7	1.9
Sched 5.0, L137+ L139, - Sched 5.1, L22.	Operations Support	36.4	-49.8	39.4	28.4	18.4
Total	Ореганото очррот	962.8	189.9	348.3	284.1	140.4
Depreciation & Amortization						
Sched 7, L 61	Generation	276.0	276.0	0.0	0.0	0.0
Sched 7, L 62	Transmission	211.3	0.0	211.3	0.0	0.0
Sched 7.0, L 63	Distribution	189.4	0.0	0.0	189.4	0.0
Sched 7.0, L 64 - L23	Customer Care	0.0	0.0	0.0	0.0	0.0
Sched 7, L57	Business Support	167.1	35.1	108.6 319.9	23.4	0.0
Total		843.8	311.1	319.9	212.8	0.0
Taxes						
Sched 6, L 32	Generation	40.5	40.5	0.0	0.0	0.0
Sched 6, L 33	Transmission	137.9	0.0	137.9	0.0	0.0
Sched 6, L34	Distribution	26.8	0.0	0.0	26.8	0.0
Sched 6, L 35 less L12	Customer Care	0.0	0.0	0.0	0.0	0.0
Sched 6, L 36 Total	Business Support	15.7 220.9	3.1 43.6	10.5 148.4	2.0 28.8	0.0
Total		220.9	43.0	140.4	20.0	0.0
Finance Charges						
Sched 8,	Generation	300.2	300.2	0.0	0.0	0.0
Sched 8,	Transmission	256.1	0.0	256.1	0.0	0.0
Sched 8,	Distribution	165.8	0.0	0.0	165.8	0.0
Sched 8,	Customer Care	0.0	0.0	0.0	0.0	0.0
	Business Support	0.0		0.0	0.0	0.0
Sched 8.0, L 31	Interest on Regulatory Accounts	-75.3	-54.2	-5.3	-15.8	0.0
	Regulatory Account Recoveries	-167.9	-69.8	-59.5	-38.6	0.0
Total		478.9	176.2	191.2	111.5	0.0
Allowed Net Income						
Sched 9, L 65	Generation	284.2	284.2	0.0	0.0	0.0
Sched 9, L 66	Transmission	242.4	0.0	242.4	0.0	0.0
Sched 9, L 67	Distribution	157.0	0.0	0.0	157.0	0.0
Sched 9, L 68	Customer Care	0.0	0.0	0.0	0.0	0.0
Sched 9, L 69	Business Support	0.0	0.0	0.0	0.0	0.0
Total	·	683.5	284.2	242.4	157.0	0.0
Miscellaneous Revenues						
Sched 15, L 5, 13, 17, 25	Non Tariff Revenue (Functionalized)	-123.6	-2.3	-44.1	-52.7	-24.6
Sched 15, L 32	Corporate Miscellaneous Revenue	-19.5	-0.4	-6.9	-8.3	-3.9
Sched 15, L36 Total	Regulatory Account Additions	-0.3 -143.4	0.0 -2.6	-51.0	-61.0	-0.3 -28.7
			0	21.0	2.10	
Revenue Offsets & Other Sched 1, L17	Subsidiary Not Income	60.4	.60 4	0.0	0.0	0.0
Sched 1, L17 Sched 1.0, L24	Subsidiary Net Income Other Utility Revenue	-68.4 -13.0	-68.4 -13.0	0.0 0.0	0.0 0.0	0.0 0.0
Sched 3.0, L80	liquefied Natural Gas Revenue	-0.4	-0.4	0.0	0.0	0.0
Sched 1.0, L21	Deferral Rider Revenue	-223.7	-223.7	0.0	0.0	0.0
Sched 1.0, L8 Sched 3.4, L11 (L9, L10)	Intersegment revenues Internal Allocations (GRTA, SDA)	-56.9 0.0	-3.0 43.3	-53.9 -168.9	0.0 125.6	0.0 0.0
Total	IIII AIIOCAUOIIS (GRIA, SDA)	-362.4	-265.2	-222.8	125.6	0.0
Total Payonia Paguinamant		4,472.6	2,474.9	1,027.3	858.7	111.7
Total Revenue Requirement		4,412.0	2,414.9	1,027.3	000.7	111.7

^{1.} As included in Attachment 2 of Section 6 of BC Hydro's Annual Financial Report to Commission dated September 14, 2017.

Classification of Generation Function

(Functionalized Costs from Schedule 1.0)

	Functionalized Costs	Demand Related	Energy Related	Demand Costs	Energy Costs
Cost of Energy					
IPPs and Long-term Purchases commitment Domestic Transmission (Non-Heritage)	1,286.0	7.00% 0.00%	93.00% 100.00%	90.02	1,195.94
NIA Generation	25.0	0.00%	100.00%	-	24.97
Gas Transportation	11.7	0.00%	100.00%	-	11.68
Water Rentals	387.0	10.00%	90.00%	38.70	348.34
Market Purchases Natural gas for thermal generation	3.4 9.5	0.00% 0.00%	100.00% 100.00%		3.39 9.51
Domestic Transmission (Heritage)	-	100.00%	0.00%	_	-
Non-treaty storage agreement	(23.3)	0.00%	100.00%	0.0	(23.32
Other and Surplus Sales	(174.1)	0.00%	100.00%	-	(174.07
Net purchases (sales) from Powerex HDA Additions	2.3 31.0	0.00% 8.43%	100.00%	2.62	2.32 28.43
NHDA Additions	17.2	8.43%	91.57% 91.57%	1.45	15.71
Deferred Operating HDA	(0.1)	8.43%	91.57%	(0.01)	(0.09
Deferred Operating NHDA	(8.9)	8.43%	91.57%	(0.75)	(8.16
Deferred Operating NHDA	(3.3)	8.43%	91.57%	(0.27)	(2.99
Deferred Amortization NHDA Heritage Deferral Account Recoveries	(0.4) (4.7)	8.43% 8.43%	91.57% 91.57%	(0.03) (0.39)	(0.35 (4.29
Non-Heritage Deferral Account Recoveries	179.4	8.43%	91.57%	15.12	164.30
	1,737.8	8.43%	91.57%	146.44	1,591.34
O M & A Expenses					
Training, Development and Generation	126.6	55.00%	45.00%	69.63	56.97
Burrard Fort Nelson	6.8 6.0	100.00% 26.00%	0.00% 74.00%	6.84 1.56	4.43
Prince Rupert	0.6	40.00%	60.00%	0.25	0.37
Thermal Generation	13.4	64.26%	35.74%	8.64	4.81
Transmission, Distribution and Customer Services	35.3	55.00%	45.00%	19.40	15.87
Capital Infrastructure Project Delivery	64.4	55.00%	45.00%	35.40	28.96
Operations Support Total	(49.8) 189.9	55.00%	45.00%	(27.37) 105.69	(22.40 84.21
Depreciation & Amortization					-
Amort on March 2016 Assets	191.0	55.00%	45.00%	105.02	85.93
Amortization on Additions	4.9	55.00%	45.00%	2.70	2.21
DSM Amortization	80.2	26.99%	73.01%	21.64	58.54
Generation	276.0	46.86%	53.14%	129.36	146.68
Transmission	-	55.00%	45.00%	-	-
Distribution Customer Care	-	55.00% 55.00%	45.00% 45.00%	-	-
Business Support	35.1	55.00%	45.00%	19.30	15.79
Total	311.1			148.65	162.46
Taxes					-
Generation	40.5	55.00%	45.00%	22.28	18.23
Transmission Distribution	-	55.00% 55.00%	45.00% 45.00%		
Customer Care	-	55.00%	45.00%	_	_
Business Support	3.1	55.00%	45.00%	1.70	1.39
Total	43.6			23.98	19.62
Finance Charges		55.000/	45.000/	105.11	-
Generation Transmission	300.2	55.00% 55.00%	45.00% 45.00%	165.11	135.09
Distribution	-	55.00% 55.00%	45.00% 45.00%	-	-
Customer Care	-	55.00%	45.00%	-	-
Interest on Deferral Accounts	(29.6)	8.43%	91.57%	(2.49)	(27.10
Interest on Regulatory Accounts	(24.7)	55.00%	45.00%	(13.56)	(11.09
Regulatory Account Recoveries	(69.8)	55.00%	45.00%	(38.39)	(31.41
Total	176.2			110.67	65.49 -
Allowed Net Income Generation	284.2	55.00%	45.00%	156.28	127.87
Transmission		55.00%	45.00%	-	-
Distribution	-	55.00%	45%	-	-
Business Support Total	284.2	55.00%	45.00%	156.28	127.87
	204.2			100.20	-
Miscellaneous Revenues Non Tariff Revenue (Functionalized)	(2.3)	55.00%	45.00%	(1.25)	(1.02
Corporate Miscellaneous Revenue Regulatory Account Additions	(0.36)	55.00% 55.00%	45.00% 45.00%	(0.20)	(0.16
Total	(2.6)	JJ.UU%	40.00%	(1.45)	(1.18
Revenue Offsets & Other					-
Subsidiary Net Income	(68.4)	26.99%	73.01%	(18.46)	(49.93
Other Utility Revenue	(13.0)	55.00%	45.00%	(7.18)	(5.87
liquefied Natural Gas Revenue	(0.4)	0.00%	100.00%	- 	(0.36
Deferral Rider Revenue	(223.7)	8.43%	91.57%	(18.85)	(204.82
Intersegment revenues Internal Allocations (GRTA, SDA)	(3.0) 43.3	55.00% 55.00%	45.00% 45.00%	(1.65) 23.82	(1.35 19.49
Total	(265.2)			(22.3)	(242.9

Classification of Transmission Function

(Functionalized Costs from Schedule 1.0)

Other and Surplus Sales 50.8 50.1 Total 50.8 50.1 OM & Expenses Training, Development and Generation 10.1 100.00% 248. Training, Development and Generation 10.1 100.00% 248. Capital Infrastructure Project Delivery 50.1 100.00% 30. Operations Support 39.4 100.00% 39. Total 348.3 348.3 348.3 Depreciation & Amortization Ceneration Trainsinission 211.3 100.00% 211.3 Distribution - 100.00% 108. Total 319.9 319.3 Total - 100.00% 108. Total - 100.00% 137. Total - 100.00% 137. Total 148.4 148. 148. Finance Charges Generation - 100.00% 256.1 <		Functionalized Costs	Demand Related	Demand Costs
IPPs and Long-term Purchases commitment	Cost of Energy			
Domestic Transmission (Non-Heritage) 100.00% NIA Generation 100.00% Market Purchases 100.00% Market Purchases 100.00% Natural gas for thermal generation 50.8 100.00% Total 100.00% 100.		-	100.00%	-
Gas Transportation		-	100.00%	-
Water Rentals - 100.00% Abardan Marker Purchases - 100.00% - 100.00% - 100.00% - 50.3	NIA Generation	-	100.00%	-
Market Purchases - 100,00% 100,00% 50.8 100,00% 50.0 100,00% 50.0 50.0 100,00% 50.0 <	•	-	100.00%	-
Natural gas for thermal generation - 100.00% 50.0 Domestic Transmission (Heritage) 50.8 100.00% 50.0 Other and Surplus Sales - 50.8 50.8 50.0 Total 50.8 50.8 50.0 OM & A Expenses Training, Development and Generation 10.1 100.00% 248. Training, Development and Customer Service 248.8 100.00% 248. Capital Infrastructure Project Delivery 50.1 100.00% 50.0 Operations Support 348.3 100.00% 39.4 Total 348.3 348.3 348.3 348.3 Depreciation & Amortization - 100.00% 100.00%		-	100.00%	-
Domestic Transmission (Heritage)		-		-
Total So.8 So.8 So.1		-		-
OM & A Expenses 50.8 50.1 Training, Development and Generation 10.1 100.00% 248.8 Capital Infrastructure Project Delivery 50.1 100.00% 50. Operations Support 39.4 100.00% 50. Total 348.3 348.3 Depreciation & Amortization Generation 1 100.00% 211.3 Transmission 211.3 100.00% 211.3 Distribution - 100.00% 211.3 Customer Care - 100.00% 108.6 Business Support 108.6 100.00% 108.1 Total 319.9 319.3 319.3 Taxes Generation - 100.00% 108.1 Transmission 137.9 100.00% 137.3 Distribution - 100.00% 137.3 Customer Care - 100.00% 10.1 Business Support 10.5 100.00% 10.1 Total <td></td> <td></td> <td>100.00%</td> <td>50.83</td>			100.00%	50.83
OM & A Expenses Training, Development and Generation 10.1 100.00% 10.0 Trainings, Development and Generation 248.8 100.00% 50. Capital Infrastructure Project Delivery 50.1 100.00% 50. Operations Support 39.4 100.00% 39. Total 348.3 348.3 Depreciation & Amortization - 100.00% 211.3 Generation - 100.00% 211.3 Transmission 211.3 100.00% 211.3 Distribution - 100.00% 108.6 Customer Care - 100.00% 108.6 Total 319.9 319.3 319.3 Taxes Generation - 100.00% 108.7 Transmission 137.9 100.00% 137.9 Distribution - 100.00% 148.4 Customer Care - 100.00% 256.1 Generation - 100.00% 256.1 <	•			
Training Development and Generation 10.1 100.00% 10.1 100.00% 248.8 100.00% 248.8 100.00% 248.8 100.00% 250.1 100.00% 250.1 100.00% 250.1 100.00% 250.1	Total	50.8		50.83
Transmission, Distribution and Customer Service: 248.8 100.00% 248. Capital Infrastructure Project Delivery Operations Support 39.4 100.00% 30. Total 348.3 348.3 Depreciation & Amortization Generation - 100.00% 211.3 Transmission 211.3 100.00% 211.5 Distribution - 100.00% 100.00% 211.5 Customer Care - 100.00% 108.6 100.00% 108.1 Business Support 108.6 100.00% 108.1 100.00% 108.1 Taxes Generation - 100.00% 137.9 100.00% 137.1 Transmission 137.9 100.00% 137.1 Distribution - 100.00% 10.3 10.2 Total 148.4 148.8 Finance Charges Generation - 100.00% 10.3 Transmission 256.1 100.00% 256.1 Total 191.2 191.2 191.				
Capital Infrastructure Project Delivery Operations Support 39.4 100.00% 39. 39.4 100.00% 39. Total 348.3 348.3 Depreciation & Amortization Generation - 100.00% 100.00% 211. Transmission 211.3 100.00% 100.00% 211. Distribution - 100.00% 108.6 Customer Care - 100.00% 108.6 Business Support 108.6 100.00% 108.1 Total 319.9 100.00% 137.1 Taxes Generation - 100.00% 10.00% 137.1 Transmission 137.9 100.00% 137.1 Distribution - 100.00% 10.00				10.07
Depreciation & Amortization				248.76
Depreciation & Amortization Generation - 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3 100.00% 211.3				50.10
Depreciation & Amortization Generation Capter Cap			100.00%	39.41
Generation	Iotai	348.3		348.34
Transmission 211.3 100.00% 211.1 Distribution - 100.00% 100.00% Business Support 108.6 100.00% 108.1 Total 319.9 319.1 Taxes Generation - 100.00% 137.2 Transmission 137.9 100.00% 137.2 Distribution - 100.00% 10.2 Customer Care - 100.00% 10.2 Business Support 10.5 100.00% 10.2 Total 148.4 148.3 Finance Charges Generation - 100.00% 256.1 Transmission 256.1 100.00% 256.1 Distribution - 100.00% 256.1 Customer Care - 100.00% (5.3) Interest on Regulatory Accounts (5.3) 100.00% (5.9) Total 191.2 191. Allowed Net Income Generati				
Distribution				
Customer Care 100.00% 108.6 100.00% 108.5 100.00% 100.00% 108.5 100.00% 100.00% 108.5 100.00% 100.00% 108.5 100.00% 10		211.3		211.29
Business Support 108.6 100.00% 108.6 101.00% 319.9		-		-
Taxes		400.0		400.50
Taxes	• •		100.00%	
Generation	Total	319.9		319.88
Transmission 137.9 100.00% 137.1 Distribution - 100.00% 100.00% Business Support 10.5 100.00% 10.5 Total 148.4 148.4 Finance Charges Generation - 100.00% 256.1 Transmission 256.1 100.00% 256.1 Distribution - 100.00% 256.1 Customer Care - 100.00% 256.1 Interest on Regulatory Accounts (5.3) 100.00% (5.3) Regulatory Account Recoveries (59.5) 100.00% (59.5) Total 191.2 191.2 191.2 Allowed Net Income Generation - 100.00% 242.1 Transmission 242.4 100.00% 242.1 Distribution - 100.00% 242.1 Customer Care - 100.00% 242.1 Miscellaneous Revenues Non Tariff Revenue (Functionalized) <	Taxes			
Distribution - 100.00% Customer Care - 100.00% 10.5 100.00% 10		-		-
Customer Care Business Support - 100.00% 10. Total 148.4 148.4 Finance Charges - 100.00% 256.1 Generation - 100.00% 256.1 Transmission 256.1 100.00% 256.1 Distribution - 100.00% (5.2 Customer Care - 100.00% (5.2 Interest on Regulatory Accounts (5.3) 100.00% (5.2 Regulatory Account Recoveries (59.5) 100.00% (5.2 Total 191.2 191.2 191.3 Allowed Net Income - 100.00% 242.4 242.3 Allowed Net Income - 100.00% 242.4 242.3 Total 242.4 100.00% 242.4 242.3 Distribution - 100.00% 242.4 242.3 Miscellaneous Revenues Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue		137.9		137.90
Business Support 10.5 100.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00% 10.5 101.00%		-		-
Total		-		-
Finance Charges Generation Captain Cap	• •		100.00%	10.54
Generation	Total	148.4		148.44
Transmission 256.1 100.00% 256.1 Distribution - 100.00% 256.1 Customer Care - 100.00% (5.3) Interest on Regulatory Accounts (5.3) 100.00% (5.3) Regulatory Account Recoveries (59.5) 100.00% (59.5) Total 191.2 191.2 191.3 Allowed Net Income Generation - 100.00% 242.3 Transmission 242.4 100.00% 242.3 Distribution - 100.00% 242.3 Customer Care - 100.00% 242.3 Miscellaneous Revenues 242.4 242.3 Miscellaneous Revenues Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue (6.9) 100.00% (6.1) Regulatory Account Additions - 100.00% (51.0) Total (51.0) (51.0) (51.0) Reve	Finance Charges			
Distribution	Generation	-	100.00%	-
Customer Care - 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% (5.3) 100.00% 242.4 100.00% 242.4 100.00% 242.4 <		256.1		256.05
Interest on Regulatory Accounts (5.3) 100.00% (5.3) Regulatory Account Recoveries (59.5) 100.00% (59.5) 100.0		-		-
Regulatory Account Recoveries (59.5) 100.00% (59.5) Total		-		-
Total				(5.27)
Allowed Net Income Generation - 100.00% Transmission 242.4 100.00% 242.5			100.00%	(59.54)
Generation	Total	191.2		191.25
Generation	Allowed Net Income			-
Distribution Customer Care - 100.00% Total 242.4 242.3 Miscellaneous Revenues Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue (6.9) 100.00% (6.9) Regulatory Account Additions - 100.00% Total (51.0) (51.0) Revenue Offsets & Other Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.1) Total (222.8) (222.8)		-	100.00%	-
Customer Care - 100.00% Total 242.4 242.3 Miscellaneous Revenues Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue (6.9) 100.00% (6.8) Regulatory Account Additions - 100.00% (51.0) Total (51.0) (51.0) (51.0) Revenue Offsets & Other - 100.00% 0.00% Other Utility Revenue - 100.00% 0.00% Other Utility Revenue - 100.00% 0.00% Intersegment revenues (53.9) 100.00% (53.1) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)	Transmission	242.4	100.00%	242.37
Miscellaneous Revenues 242.4 242.3 Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue (6.9) 100.00% (6.8) Regulatory Account Additions - 100.00% (51.0) Total (51.0) (51.0) (51.0) Revenue Offsets & Other - 100.00% 0.00% Other Utility Revenue - 100.00% 0.00% 0.00% Other Utility Revenue - 100.00% 0.00%	Distribution	-	100.00%	-
Miscellaneous Revenues Non Tariff Revenue (Functionalized) (44.1) 100.00% (44.1) Corporate Miscellaneous Revenue (6.9) 100.00% (6.9) Regulatory Account Additions - 100.00% Total (51.0) (51.0) Revenue Offsets & Other Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.0) Total (222.8) (222.8)	Customer Care	-	100.00%	-
Non Tariff Revenue (Functionalized)	Total	242.4		242.37
Non Tariff Revenue (Functionalized)	Miscellaneous Revenues			
Corporate Miscellaneous Revenue Regulatory Account Additions (6.9) 100.00% (6.1) Total (51.0) (51.0) (51.0) Revenue Offsets & Other Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.7) Total (222.8) (222.8) (222.8)		(44.1)	100.00%	(44.06)
Regulatory Account Additions - 100.00% Total (51.0) (51.0) Revenue Offsets & Other - 100.00% Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.1) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)		, ,		(6.94
Revenue Offsets & Other Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.1) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)	•			
Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.1) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)	Total	(51.0)	·	(51.00)
Subsidiary Net Income - 100.00% Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.1) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)	Revenue Offsets & Other			
Other Utility Revenue - 100.00% Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.9) Total (222.8) (222.8)		-	100 00%	_
Deferral Rider Revenue - 100.00% Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.9) Total (222.8) (222.8) (222.8)		-		-
Intersegment revenues (53.9) 100.00% (53.9) Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.2) Total (222.8) (222.8) (222.8)		-		-
Internal Allocations (GRTA, SDA) (168.9) 100.00% (168.1) Total (222.8) (222.8)		(53.9)		(53.93)
Total (222.8) (222.1	9	, ,		(168.88
				(222.81)
Total Transmission Costs 1,027.3 1,027.	Total Transmission Conta	1,027.3		1,027.3

Classification of Distribution Function (Functionalized Costs from Schedule 1.0)

	Functionalized Costs	Demand Related	Customer Related	SMI Energy Related	Streetlighting Costs (Direct Assigned)	Demand Costs	Customer Costs
Cost of Energy							
IPPs and Long-term Purchases commitment	-					-	-
Domestic Transmission (Non-Heritage)	-					-	-
NIA Generation	-					-	-
Gas Transportation	-					-	-
Water Rentals	_					_	_
Market Purchases	_					_	_
Natural gas for thermal generation	_					_	_
Domestic Transmission (Heritage)	_					_	_
Non-treaty storage agreement	_					_	_
Other and Surplus Sales							
Net purchases (sales) from Powerex	_					-	_
	_					-	_
Heritage Deferral Account Recoveries	-					-	-
Non-Heritage Deferral Account Recoveries Total	<u> </u>				-		
O M & A Expenses	44.5	7001	0401			0.46	0.40
Training, Development and Generation	11.6	79%	21%			9.13	2.43
Transmission, Distribution and Customer Services		79%	21%		1.32	212.16	56.40
Capital Infrastructure Project Delivery	(25.7)	79%	21%			(20.30)	(5.40)
Operations Support	28.4	79%	21%			22.41	5.96
Total	284.1				1.32	223.39	59.38
Depreciation & Amortization							
Generation	-	79%	21%			-	-
Transmission	-	79%	21%			-	-
Distribution	189.4	79%	21%		0.93	148.88	39.58
Customer Care	-	79%	21%			-	-
Business Support	23.4	79%	21%			18.48	4.91
Total	212.8				0.93	167.35	44.49
Taxes							
Generation		79%	21%				
Transmission	_	79%	21%				
Distribution	26.8	79%	21%		0.13	21.06	5.60
Customer Care	20.0	79%	21%		0.13	21.00	5.00
Business Support	2.0	79%	21%			1.62	0.43
Total	28.8	7370	2170		0.13	22.68	6.03
Finance Charges		700/	040/				
Generation	-	79%	21%			-	-
Transmission	-	79%	21%			-	-
Distribution	165.8	79%	21%		0.81	130.38	34.66
Customer Care		79%	21%			- ·	
Interest on Regulatory Accounts	(15.8)	79%	21%			(12.50)	(3.32)
Regulatory Account Recoveries	(38.6)	79%	21%			(30.46)	(8.10)
Total	111.5				0.81	87.41	23.24
Allowed Net Income							
Generation	-	79%	21%			-	-
Transmission	-	79%	21%			-	-
Distribution	157.0	79%	21%		0.77	123.41	32.81
Business Support	-	79%	21%				
Total	157.0				0.77	123.41	32.81
Miscellaneous Revenues							
Non Tariff Revenue (Functionalized)	(52.7)	79%	21%			(41.63)	(11.07)
Corporate Miscellaneous Revenue	(8.3)	79%	21%			(6.56)	(1.74)
Regulatory Account Additions	(0.5)	79%	21%			(0.50)	- (1.74)
Total	(61.0)	. 0 70	2170		-	(48.19)	(12.81)
Payanua Officate & Othor	. ,						
Revenue Offsets & Other Subsidiary Net Income		79%	21%			_	
Other Utility Revenue	_	79%	21%			_	_
Deferral Rider Revenue	-	79%	0.2			_	_
Intersegment revenues	-	79%	21%			-	-
•						105 50	-
Internal Allocations (GRTA, SDA) Total	125.6 125.6	100%	0%		-	125.58 125.58	
							_
Total Distribution Costs	858.7	81.7%	17.8%		3.95	701.63	153.13

Classification of Customer Care Function

(Functionalized Costs from Schedule 1.0)

	Functionalized Costs	Demand Related	Customer Related	Demand Costs	Customer Costs
Cost of Energy					
IPPs and Long-term Purchases commitment	-	0%	100%	-	-
Domestic Transmission (Non-Heritage)	-	0%	100%	-	-
NIA Generation	-	0%	100%	-	-
Gas Transportation	-	0%	100%	-	-
Water Rentals	-	0%	100%	-	-
Market Purchases Natural gas for thermal generation	-	0% 0%	100% 100%	-	-
Domestic Transmission (Heritage)		0%	100%	_	_
Other and Surplus Sales	_	0%	100%	_	_
Total	-	0,70	10070	-	-
O M & A Expenses					
Training, Development and Generation	1.8	0%	100%	-	1.80
Transmission, Distribution and Customer Service		0%	100%	-	118.35
Capital Infrastructure Project Delivery	1.9	0%	100%	-	1.91
Operations Support	18.4	0%	100%	-	18.37
Total	140.4			-	140.43
Depreciation & Amortization					
Generation	-	0%	100%	-	-
Transmission Distribution	-	0%	100%	-	-
Customer Care	-	0% 0%	100% 100%	-	-
	-	0%	100%	-	-
Business Support Total	-	076	100%	-	-
Taxes					
Generation	-	0%	100%	_	-
Transmission	-	0%	100%	-	-
Distribution	-	0%	100%	-	-
Customer Care	-	0%	100%	-	-
Business Support	-	0%	100%	-	-
Total	-			-	-
Finance Charges					
Generation	-	0%	100%	-	-
Transmission	-	0%	0%	-	-
Distribution	-	0%	100%	-	-
Customer Care	-	0%		-	-
Interest on Regulatory Accounts	-	0%	100%	-	-
Regulatory Account Recoveries	-	0%	100%	-	-
Total	-			-	-
Allowed Net Income		00/	1000/		
Generation Transmission	-	0% 0%	100% 100%	-	-
Distribution	-	0%	100%	-	-
Business Support		0%	100%	_	_
Total	-	070	10070	-	-
Miscellaneous Revenues					
Non Tariff Revenue (Functionalized)	(24.6)	0%	100%	_	(24.57)
Corporate Miscellaneous Revenue	(3.9)	0%	100%	-	(3.87)
Regulatory Account Additions	(0.3)	0%	100%		(0.31)
Total	(28.7)			-	(28.75)
Revenue Offsets & Other					
Subsidiary Net Income	-	0%	100%	-	-
Other Utility Revenue	-	0%	100%	-	-
Deferral Rider Revenue	-	0%	100%	-	-
Intersegment revenues	-	0%	100%	-	-
Internal Allocations (GRTA, SDA) Total	<u>.</u>	0%	100%	<u> </u>	-
	111.7				111.7
Total Customer Care Costs	111.7			-	111.7

Allocation of Generation Costs

(Classified Costs from Schedule 2.0)

Cost Classification	Generation	Generation	Generation Energy	Generation Energy
	Demand	Demand-Related		Related Costs
		Costs		
Allocation Basis	4 CP Demand		Energy Including	
	including losses	667.95	Loss	1,806.96
	(Sched 5.1)		(Sched 5.0)	
Residential	46.22%	308.71	35.72%	645.47
GS Under 35 kW	7.53%	50.28	8.10%	146.29
MGS < 150 kW	6.21%	41.49	6.83%	123.44
LGS > 150 kW	18.58%	124.07	22.19%	401.03
Irrigation	0.01%	0.05	0.16%	2.85
Street Lighting BCH	0.15%	1.00	0.10%	1.74
Street Lighting Cust	0.44%	2.96	0.36%	6.54
Transmission	20.87%	139.38	26.54%	479.60
Total	100.0%	667.95	100.0%	1,806.96

Allocation of Transmission Costs

(Classified Costs from Schedule 2.1)

Cost Classification	Transmission	Demand Related
	Demand	Costs (Sched 2.1)
Allocation Basis	4 CP demand including losses (Sched 5.1)	1,027.30
Residential	46.22%	474.79
GS Under 35 kW	7.53%	77.34
MGS < 150 kW	6.21%	63.81
LGS > 150 kW	18.58%	190.82
Irrigation	0.01%	0.08
Street Lighting BCH	0.15%	1.54
Street Lighting Cust	0.44%	4.54
Transmission	20.87%	214.37
Total	100.0%	1,027.30

Allocation of Distribution Costs (Classified Costs from Schedule 2.2)

Cost Classification	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Street Light	Street Light
	Demand	Demand-	Secondary	Secondary	Transformer	Transformer	Customer	Customer	Metering	Metering	Customer	Customer
	Related	Related	Demand Related	Demand- Related	Related	Related	Related	Related	Related	Related		Related
Allocation Basis	NCP (Sched 5.1)	557.04	NCP w/o Primary (Sched 5.1)	68.28	Transformer Allocator (Sched 5.4)	152.64	Customer Count (Sched 5.2)	66.00	Metering Allocator (Sched 5.2)	10.81	Street Light Direct Assignment	3.95
Residential	57.09%	318.03	70.67%	48.25	65.51%	99.99	88.92%	58.69	77.40%	8.37	0.00%	0.00
GS Under 35 kW	10.02%	55.79	12.40%	8.46	16.80%	25.65	9.20%	6.07	16.01%	1.73	0.00%	0.00
MGS < 150 kW	8.35%	46.49	8.14%	5.56	10.74%	16.40	0.84%	0.56	4.40%	0.48	0.00%	0.00
LGS > 150 kW	23.43%	130.49	7.41%	5.06	5.41%	8.25	0.36%	0.24	1.90%	0.21	0.00%	0.00
Irrigation	0.42%	2.32	0.52%	0.35	0.54%	0.82	0.17%	0.11	0.29%	0.03	0.00%	0.00
Street Lighting BCH	0.19%	1.04	0.23%	0.16	0.33%	0.51	0.24%	0.16	0.00%	0.00	100.00%	3.95
Street Lighting Cust	0.51%	2.87	0.64%	0.43	0.67%	1.02	0.27%	0.18	0.00%	0.00	0.00%	0.00
Transmission	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00
Total	100.0%	557.04	100.0%	68.28	100.0%	152.64	100.0%	66.00	100.0%	10.81	100.0%	3.95

Allocation of Customer Care Costs

(Classified Costs from Schedule 2.3)

Cost Classification	Customer Care	Customer Care	Customer Care	Customer Care
	Demand	Demand Related	Customer	Customer Related
		Costs		Costs
Allocation Basis	NCP	0.00	Blended Customer	111.68
	Sched 5.1		Count & Revenue	
			Sched 5.3	
Residential	57.09%	0.00	83.02%	92.72
GS Under 35 kW	10.02%	0.00	9.20%	10.27
MGS < 150 kW	8.35%	0.00	2.26%	2.53
LGS > 150 kW	23.43%	0.00	2.65%	2.96
Irrigation	0.42%	0.00	0.06%	0.07
Street Lighting BCH	0.19%	0.00	0.47%	0.53
Street Lighting Cust	0.51%	0.00	0.52%	0.58
Transmission	0.00%	0.00	1.81%	2.02
Total	100.0%	0.00	100.0%	111.68

Summary of Costs by Function and Revenue to Cost Ratios

Rate Class	Generation Costs	Transmission Costs	Distribution Costs	Customer Care Costs	Total Cost	Total Revenue	Revenue - Cost (\$ million)	Revenue:Cost Ratios	R/C Ratios last filed (F2016)	R/C Ratio change from last filed
Residential	954.18	474.79	533.33	92.72	2,055.02	1,916.21	-138.8	93.2%	90.8%	2.4%
GS Under 35 kW	196.58	77.34	97.71	10.27	381.89	472.14	90.2	123.6%	122.6%	1.0%
MGS < 150 kW	164.93	63.81	69.48	2.53	300.75	346.04	45.3	115.1%	123.5%	-8.4%
LGS > 150 kW	525.10	190.82	144.25	2.96	863.13	896.47	33.3	103.9%	103.9%	0.0%
Irrigation	2.90	0.08	3.63	0.07	6.69	5.99	-0.7	89.5%	95.1%	-5.6%
Street Lighting BCH	2.73	1.54	5.82	0.53	10.62	21.08	10.5	198.4%	183.6%	14.8%
Street Lighting Cust	9.49	4.54	4.50	0.58	19.12	18.17	-0.9	95.1%	101.8%	-6.7%
Transmission	618.99	214.37	0.00	2.02	835.38	796.87	-38.5	95.4%	98.8%	-3.4%
Total	2,474.91	1,027.30	858.72	111.68	4,472.61	4,472.97	0.4	100.0%		

Note: The 0.36 \$M discrepancy between total revenues and total costs apparent in the table above arises from the treatment of revenues and costs associated with electricity sales to liquefied natural gas (LNG) customers. Costs associated with LNG customer load were omitted in compliance with The Direction Respecting Natural Gas Customers, B.C. Reg 150/2016 and the Domestic Long Term Sales Contracts Regulation, B.C. Reg 201/2014 which was in effect in F2017. Note that on October 2, 2018, Order in Council 512 was issued that repealed the above noted Regulations.

(https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/tariff-filings/electric-tariff/091%20ts-91.pdf)

Summary of Costs by Classification

Rate Class	Energy Related Costs	Generation Demand Related Costs	Transmission Demand Related Costs	Distribution Demand Related Costs	Total Demand Related Costs	Customer Related Costs	Total
Residential	645.5	308.7	474.8	416.3	1,199.8	209.8	2,055.0
GS Under 35 kW	146.3	50.3	77.3	77.1	204.7	30.9	381.9
MGS < 150 kW	123.4	41.5	63.8	60.3	165.6	11.8	300.8
LGS > 150 kW	401.0	124.1	190.8	139.7	454.6	7.5	863.1
Irrigation	2.9	0.1	0.1	3.1	3.2	0.6	6.7
Street Lighting BCH	1.7	1.0	1.5	1.5	4.0	4.9	10.6
Street Lighting Cust	6.5	3.0	4.5	3.8	11.3	1.3	19.1
Transmission	479.6	139.4	214.4	0.0	353.8	2.0	835.4
Total	1,807.0	668.0	1,027.3	701.6	2,396.9	268.8	4,472.6

Percent of Costs by Allocator

Rate Class	Class Generation & Transmission Demand (4CP)		Distribution Demand (NCP)	Customer (Various)
Residential	31%	38%	20%	10%
GS Under 35 kW	38%	33%	20%	8%
MGS < 150 kW	41%	35%	20%	4%
LGS > 150 kW	46%	36%	16%	1%
Irrigation	43%	2%	46%	9%
Street Lighting BCH	16%	24%	14%	46%
Street Lighting Cust	34%	39%	20%	7%
Transmission	57%	42%	0%	0%
Total	40%	38%	16%	6%

Energy Allocators

Rate Class	Energy @ Customer Meter	Distribution Loss Factor	Energy @ Transmission Interface	Transmission Loss Factor	Energy @ Generation Interface	Energy by Rate Class	Energy at Generator Allocation Factor
	(MWh)		(MWh)		(MWh)		
Residential	18,067,745	6.00%	19,151,810	6.00%	20,300,918	20,300,918	35.72%
GS Under 35 kW	4,094,959	6.00%	4,340,657	6.00%	4,601,096	4,601,096	8.10%
MGS < 150 kW Primary	87,981	1 3.44% 91,007		6.00%	96,468		
MGS < 150 kW Secondary	3,369,302	6.00%	3,571,460	6.00%	3,785,748		
MGS						3,882,216	6.83%
LGS > 150 kW Primary	7,863,645	3.44%	8,134,154	6.00%	8,622,204		
LGS > 150 kW Secondary	3,551,627	6.00%	3,764,724	6.00%	3,990,608		
LGS						12,612,811	22.19%
Irrigation	79,793	6.00%	84,581	6.00%	89,655	89,655	0.16%
Street Lighting BCH	48,569	6.00%	51,483	6.00%	54,572	54,572	0.10%
Street Lighting Cust	182,990	6.00%	193,970	6.00%	205,608	205,608	0.36%
Transmission	14,230,201	0.00%	14,230,201	6.00%	15,084,013	15,084,013	26.54%
Total	51,576,812		53,614,047		56,830,890	56,830,890	100.00%

Demand Allocators

Rate Class	4 CP	NCP w/o T	NCP w/o Prim
Residential	46.22%	57.09%	70.67%
GS Under 35 kW	7.53%	10.02%	12.40%
MGS < 150 kW	6.21%	8.35%	8.14%
LGS > 150 kW	18.58%	23.43%	7.41%
Irrigation	0.01%	0.42%	0.52%
Street Lighting BCH	0.15%	0.19%	0.23%
Street Lighting Cust	0.44%	0.51%	0.64%
Transmission	20.87%	0.00%	0.00%
Total	100.00%	100.00%	100.00%

F2017 Cost of Service - Actual Cost Allocator by Customer, Bill and Revenue								
	Total BC	Hydro - F17						
Rate Class	Actual Number of Accounts F17	Annual bills per account	Annual bills per rate class	# of Bills Allocator				
Residential	1,776,503	6	10,659,018	87.49%				
GS Under 35 kW	183,708	6	1,102,248	9.05%				
MGS < 150 kW	16,818	12	201,816	1.66%				
LGS > 150 kW	7,276	12	87,312	0.72%				
Irrigation	3,356	2	6,712	0.06%				
Street Lighting BCH	4,817	12	57,799	0.47%				
Street Lighting Cust	5,390	12	64,685	0.53%				
Transmission	301	12	3,612	0.03%				
Total	1,998,169		12,183,202	100.00%				

Rate Class	Actual Number of Accounts F17	Distribution Customer Count	Distribution Customer Allocator
Residential	1,776,503	1,776,503	88.92%
GS Under 35 kW	183,708	183,708	9.20%
MGS < 150 kW	16,818	16,818	0.84%
LGS > 150 kW	7,276	7,276	0.36%
Irrigation	3,356	3,356	0.17%
Street Lighting BCH	4,817	4,817	0.24%
Street Lighting Cust	5,390	5,390	0.27%
Transmission	301	301	0.00%
Total	1,998,169	1,998,169	100.00%

Rate Class	Actual Number of	Distribution	Distribution Metering
Rate Class	Accounts F17	Customer Count	Allocator
Residential	1,776,503	1,776,503	3 77.40%
GS Under 35 kW	183,708	183,70	16.01%
MGS < 150 kW	16,818	16,818	3 4.40%
LGS > 150 kW	7,276	7,270	1.90%
Irrigation	3,356	3,350	0.29%
Street Lighting BCH	4,817	4,81	7 0.00%
Street Lighting Cust	5,390	5,390	0.00%
Transmission	301	30:	0.00%
Total	1,998,169	1,998,169	100.00%

Rate Class	Revenue (\$millions)	Revenue Allocator
Residential	\$1,916	42.84%
GS Under 35 kW	\$472	10.56%
MGS < 150 kW	\$346	7.74%
LGS > 150 kW	\$896	20.04%
Irrigation	\$6	0.13%
Street Lighting BCH	\$21	0.47%
Street Lighting Cust	\$18	0.41%
Transmission	\$797	17.82%
Total	\$4,473	100.00%

Rate Class	90% # of Bills Allocator	10% Revenue Allocator	Blended Customer Care Allocator
Residential	78.74%	4.28%	83.02%
GS Under 35 kW	8.14%	1.06%	9.20%
MGS < 150 kW	1.49%	0.77%	2.26%
LGS > 150 kW	0.64%	2.00%	2.65%
Irrigation	0.05%	0.01%	0.06%
Street Lighting BCH	0.43%	0.05%	0.47%
Street Lighting Cust	0.48%	0.04%	0.52%
Transmission	0.03%	1.78%	1.81%
Total			100.00%

Distribution Classification by Sub-Functionalization

Sub-Function	F17 Year-End Assets (NBV)	% of assets (excluding Substation)	% of assets without Streetlighting	related %	Customer- related %	Demand % of Total Costs	Customer % of Total Costs	% of total Demand costs	% of total Customer costs
Primary	2,909.9	58.5%	58.8%	100%	0%	58.8%	0.0%	74.8%	0.0%
Secondary/Services	926.2	18.6%	18.7%	50%	50%	9.4%	9.4%	11.9%	43.9%
Meters	74.5	1.5%	1.5%	0%	100%	0.0%	1.5%	0.0%	7.1%
Transformers	1,035.3	20.8%	20.9%	50%	50%	10.5%	10.5%	13.3%	49.1%
Substation	418.5			100%	0%				
Streetlighting	24.3	0.49%							
Total	5.388.7	100%	100%			78.7%	21.3%	100.0%	100.0%