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1 3.0 Operating Revenue

2 3.1 Operating Revenue

3 3.1.1 Overview

13

14

4 This exhibit provides the details of BPI's operating revenue for 2017 Board Approved, 2017 Actual, 2018

- 5 Actual, 2019 Actual, 2020 Actual, the 2021 Bridge year and the 2022 Test Year. This exhibit also provides
- 6 a detailed variance analysis by rate class of the operating revenue components. Distribution revenue
- 7 excludes revenues from commodity sales.
- 8 BPI is proposing a total Service Revenue Requirement of \$23,846,829 for the 2022 Test Year. This
- 9 amount includes a Base Revenue Requirement of \$22,779,797 plus revenue offsets of \$1,067,032 to be
- 10 recovered through Other Revenue.
- 11 A summary of all operating revenue is presented below in Table 3.1-A and provides a comparison of
- 12 total revenues from the 2017 Board Approved year to the 2022 Test Year.

	Table 3.1-A – Historical Comparison of Total Revenue													
	2017	Board Approved (Base RR)		2017 Actual		2018 Actual		2019 Actual		2020 Actual		2021 Bridge	2022 Test- kisting Rates	2022 Test - oposed Rates
Distribution Revenues														
Residential	\$	10,072,166	\$	9,820,752	\$	10,162,519	\$	10,387,161	\$	10,725,918	\$	10,919,812	\$ 11,006,554	\$ 14,232,489
GS<50 kW	\$	1,839,733	\$	1,756,404	\$	1,783,967	\$	1,797,349	\$	1,785,321	\$	1,769,590	\$ 1,790,407	\$ 2,218,67
GS>50 kW	\$	4,621,192	\$	4,795,900	\$	4,970,426	\$	5,124,133	\$	5,187,700	\$	5,022,801	\$ 5,061,249	\$ 5,659,35
Street Lighting	\$	235,550	\$	225,246	\$	232,386	\$	235,791	\$	234,607	\$	243,122	\$ 248,442	\$ 305,94
Sentinel Lighting	\$	52,686	\$	36,597	\$	37,483	\$	37,444	\$	37,473	\$	12,858	\$ 34,790	\$ 43,19
Unmetered Scattered Load	\$	78,003	\$	78,962	\$	78,904	\$	78,544	\$	79,657	\$	80,428	\$ 79,829	\$ 96,18
Embedded Distributor	\$	199,626	\$	155,377	\$	140,591	\$	147,887	\$	154,012	\$	159,903	\$ 161,412	\$ 223,96
Total Distribution Revenue	\$	17,098,955	\$	16,869,238	\$	17,406,276	\$	17,808,309	\$	18,204,688	\$	18,208,514	\$ 18,382,682	\$ 22,779,79
SSS Admin Charge Included in Dist Revs			\$	-	\$	-	\$	-	\$	-				
Standby Revenue Included in Dist Revs			\$	-	\$	-	\$	-	\$	-			 	
Other Revenue														
Late Payment Charges	\$	235,599	\$	281,546	\$	235,598	\$	326,283	\$	359,302	\$	336,598	\$ 341,499	\$ 341,49
Specific Service Charges	\$	651,903	\$	356,655	\$	335,683	\$	603,136	\$	640,437	\$	625,825	\$ 188,127	\$ 188,12
Other Revenue	\$	315,768	\$	327,460	\$	305,943	\$	25,129	\$	117,876	\$	298,114	\$ 410,715	\$ 410,71
SSS Administration Charge	\$	111,730	\$	115,299	\$	117,154	\$	117,891	\$	121,153	\$	125,287	\$ 126,691	\$ 126,69
Standby Revenue	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$ -
Total Other Revenue	\$	1,315,000	\$	1,080,960	\$	994,377	\$	1,072,439	\$	1,238,768	\$	1,385,823	\$ 1,067,032	\$ 1,067,03
Total Operating Revenue	\$	18,413,955	\$	17,950,198	\$	18,400,653	\$	18,880,747	\$	19,443,456	\$	19,594,337	\$ 19,449,714	\$ 23,846,829

Table 3.1-A – Historical Comparison of Total Revenue

- 15 **3.1.2 Throughput Revenue**
- 16 Information related to BPI's throughput revenue includes details on the weather normalized load
- 17 forecasting methodology and a forecast of customers by rate class based on the historical number of
- 18 customers billed throughout the year.
- 19 A detailed variance analysis on the historical throughput revenue is also provided in this Exhibit.

1 3.1.3 Other Revenue

- 2 Other revenue includes Standard Service Supply (SSS) Administration charges, Late Payment charges and
- 3 Miscellaneous Service revenue. BPI has a Standby Classification however no Standby fees have been
- 4 charged since 2015. There are no new proposed Specific Service Charges or proposed changes to rate or
- 5 application of existing Specific Service Charge.
- 6 A detailed variance analysis on the other revenue is set out later in this Exhibit.

7 3.2 Load and Revenue Forecasts

8 3.2.1 Load and Revenue Forecasts

9 3.2.1.1 Weather Normalized and Customer/Connection Forecast

The purpose of this evidence is to present the process used by BPI to prepare the weather normalized
 load and customer/connection forecast used to design the proposed 2022 electricity distribution rates.

12 In summary, BPI has used the same Board Approved Load Forecast model and methodology as in BPI's 13 2017 cost of Service application file number EB-2016-0058 (i.e. a Multivariate Regression Model). This regression analysis methodology is also used by a number of distributors in cost of service applications 14 15 to determine a prediction model. With regard to the overall process of load forecasting, BPI submits 16 conducting a regression analysis on historical electricity purchases to produce an equation to predict 17 purchases is appropriate. BPI has the data for the amount of electricity (in kWh) purchased from the 18 IESO and other suppliers for use by BPI's customers. The regression model was only performed on the total purchased kWh and not broken down by billing class because of lacking historical data. BPI does 19 20 not have an adequate monthly billing history by rate class to produce statistically significant results. In 21 BPI's view, running forecasting on insufficient data would not be an appropriate basis for its load 22 forecast. With regression analysis, these total monthly purchases can be related to other monthly explanatory variables such as heating degree days and cooling degree days, which occur in the same 23 24 month. The results of the regression analysis produce an equation that predicts the purchases based on the explanatory variables. This prediction model is then used as the basis to forecast the total level of 25 26 weather normalized purchases for the Bridge Year and the Test Year, which is converted to billed kWh 27 by class. A detailed explanation of the process is provided later in this Exhibit.

1 Increased Uncertainty of Forecast

BPI has found increased challenges in forecasting for this application due to two key factors- the impacts
of the COVID-19 pandemic and the discontinuation of CDM programs.

4 Regarding the COVID-19 pandemic, the impacts to 2020 customer consumption patterns have been very 5 unusual and the future impacts of COVID-19 concerning consumption levels, consumption patterns, and 6 customer usage (industrial production, business closures) are unknown. At the initial onset of the 7 pandemic, popular belief was that life would be "back to normal" within a few weeks. This viewpoint has 8 been extended time and time again. At the time of drafting this Application, it is still uncertain how long 9 the situation will continue and what its impacts will be. Vaccination campaigns are underway, however 10 increasing cases related to COVID-19 variants are being observed as well. One of the impacts of the pandemic in 2020 is that residential consumption has increased as students, workers etc. have been 11 12 working from home. Businesses have also been impacted by working from home, lockdowns, self-13 isolation and economic reasons. This has resulted in a shift of consumption levels from business classes 14 to residential. BPI's proposed approach to the load forecasting prevents an increase in power purchases, 15 driven by increases in customer consumption from being re-allocated to business classes. In BPI's view, 16 this would not be appropriate, as the shift in forecasted consumption would likely lead to a revenue 17 shortfall as the business classes are not expected to increase their consumption, rather BPI believes the 18 long term economic impacts of the pandemic and increasing energy efficiency measures will continue to 19 result in business class decreases in consumption. To address this issue, BPI has based the regression 20 analysis on data up to the end of 2019 only. BPI has also included a GDP variable which is statistically 21 significant and which should incorporate some level of the economic effects of the pandemic on 22 consumption.

Further supporting the exclusion of 2020 data from the regression, at the time of filing, the Q4 2020 figures for actual GDP were not yet available. BPI did not believe it would be appropriate to base its regression estimation on partially estimated data. For the 2020 prediction, BPI has used the actual values for most variables, with the exception of the Q4 GDP values which were not yet available at the time of filing. BPI anticipates that through the future stages of this Application, further certainty regarding expectations for the pandemic and economic reality may be available.

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1 With respect to CDM activity, BPI is again facing uncertainty in its forecasting as the prior levels of 2 insight and control into CDM activities in its service territory are no longer available as a result of the 3 discontinuation of the CFF. BPI knows that energy efficiency measures will continue, through IESO 4 delivered CDM programs and customer take-up of other energy efficiency measures such as behind the 5 meter generation, net metered generation, battery storage and others. BPI has included the trend 6 variable to capture the impacts of these items over time, which can be easily forecasted into further 7 periods.

8 Regression Results

9 BPI's load forecast regression is statistically significant and has a strong fit with an R Squared of 90% (See

10 Table 3.2-E). Additionally, based on the Board's approval of this methodology in a number of previous

11 cost of service applications and based on the discussion that follows, BPI submits its load forecasting

12 methodology is reasonable at this time for the purposes of this Application.

13 The following Table 3.2-A provides the material to support the weather normalized load forecast used

14 by BPI in this Application. Please note the kWh in the table below exclude Wholesale Market

15 Participants (WMP) and Embedded Distributor. Inclusive of these customer types, the 2022 Test Year

billed energy forecast is: 928,196,629 kWh; 1,474,981 kW; and 47,809 customer/connections.

				Customer/		
			Percent	Connection		Percent
Year	Billed kWh	Growth	change	count	Growth	change
2017 Board Approved	961,567,897					
2010	917,169,662			48,362		
2011	919,260,512	2,090,850	0.2%	48,827	466	1.0%
2012	936,319,334	17,058,822	1.9%	49,287	460	0.9%
2013	926,349,236	(9,970,098)	-1.1%	49,691	405	0.8%
2014	889,619,639	(36,729,597)	-4.0%	50,130	439	0.9%
2015	904,891,892	15,272,253	1.7%	50,646	516	1.0%
2016	909,331,461	4,439,569	0.5%	50,494	(152)	-0.3%
2017	892,260,753	(17,070,708)	-1.9%	46,201	(4,293)	-8.5%
2018	934,510,743	42,249,990	4.7%	46,506	305	0.7%
2019	932,356,870	(2,153,873)	-0.2%	46,736	230	0.5%
2020	933,148,230	791,360	0.1%	47,172	437	0.9%
2021 - Bridge Normalized	857,658,459	(75,489,771)	-8.1%	47,487	315	0.7%
2022 - Test Normalized	878,272,205	20,613,747	2.4%	47,805	318	0.7%

Table 3.2-A – Summary of Load and Customer/Connection Forecast

2

1

The information in Table 3.2-A above provides weather actual data from 2010 to 2020 while the 2021 Bridge year and 2022 Test year is weather normalized. BPI understands there is not a Board approved method to properly adjust actual data to a weather normal basis. Therefore, based on the process outlined in this Exhibit, a process to forecast energy on a weather normalized basis has been developed and used in this Application.

8 Total customer and connections are on a yearly average basis and streetlight, sentinel lights and

9 unmetered loads are measured as connections.

10 Actual and forecasted billed amounts and numbers of customers/connections by rate class are shown in

11 Table 3.2-B. Customer usage by rate class is shown in Table 3.2-C.

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Year	Residential	GS<50	GS>50*	Sentinel	Streetlight	USL	Total
2017 Board Approved	301,593,274	103,442,407	496,695,575	382,297	7,460,329	1,405,154	910,979,036
2010	287,357,342	98,691,975	521,725,747	480,615	7,354,351	1,559,632	917,169,662
2011	291,380,972	99,001,655	519,515,098	475,427	7,330,830	1,556,530	919,260,512
2012	287,058,174	100,340,238	539,521,215	459,394	7,395,374	1,544,939	936,319,334
2013	282,501,947	99,838,335	534,621,114	448,778	7,386,717	1,552,345	926,349,236
2014	282,925,750	99,356,580	497,985,709	445,147	7,378,259	1,528,194	889,619,639
2015	287,594,336	100,078,635	507,886,846	446,247	7,369,714	1,516,114	904,891,892
2016	291,787,861	99,573,959	508,774,431	314,139	7,368,093	1,512,978	909,331,461
2017	273,448,641	96,495,542	513,281,236	186,504	7,324,649	1,524,181	892,260,753
2018	301,310,523	94,728,588	529,592,600	190,023	7,191,580	1,497,429	934,510,743
2019	292,180,865	93,124,427	538,150,482	194,958	7,147,042	1,559,095	932,356,870
2020	315,774,546	87,228,067	521,485,545	187,739	6,962,317	1,510,016	933,148,230
2021 - Bridge Normalized	281,856,415	76,054,488	490,713,363	170,250	7,357,575	1,506,368	857,658,459
2022 - Test Normalized	293,509,087	77,363,528	497,967,199	154,391	7,775,272	1,502,728	878,272,205

Table 3.2-B – Billed Energy by Rate Class

2 *excluding WMP

3

Table 3.2-C – Number of Customers/Connections

Year	Residential	GS<50	GS>50*	Sentinel	Streetlight	USL	Total
2017 Board Approved	36,433	2,840	449	597	5,849	425	46,593
2010	34,256	2,688	417	603	9,953	446	48,362
2011	34,643	2,709	421	621	9,988	446	48,827
2012	34,938	2,728	419	625	10,134	443	49,287
2013	35,226	2,749	424	625	10,232	438	49,691
2014	35,479	2,772	432	622	10,392	434	50,130
2015	35,744	2,784	438	619	10,632	431	50,646
2016	36,043	2,792	452	551	10,229	427	50,494
2017	36,241	2,798	457	512	5,769	425	46,201
2018	36,521	2,804	483	507	5,771	420	46,506
2019	36,733	2,834	489	501	5,771	408	46,736
2020	37,077	2,930	491	495	5,771	409	47,172
2021 - Bridge Normalized	37,371	2,956	499	485	5,771	405	47,487
2022 - Test Normalized	37,668	2,981	507	476	5,771	402	47,805

4 *excluding WMP

5 3.2.2 Forecast Methodology - Multivariate Regression Model

- 6 BPI's weather normalized load forecast is developed in a three-step process. First, total system weather
- 7 normalized purchased energy forecast is developed based on a multivariate regression model
- 8 incorporating historical load, weather, calendar, economic data, as well as a "trend variable" used to
- 9 decrease the load for customers' increased adoption of energy efficiency measures, including CDM.
- 10 Second, the weather normalized purchased energy forecast is adjusted by a historical loss factor to

produce a weather normalized billed energy forecast. Next, the forecast of billed energy by rate class is 1 2 developed based on a forecast of customer numbers and historical usage patterns per customer. For 3 the rate classes that have weather sensitive load, the forecasted billed energy is adjusted to ensure the 4 total billed energy forecast by rate class is equivalent to the total weather normalized billed energy 5 forecast determined from the regression model. The forecast of customers by rate class is determined 6 using a geometric mean analysis. For those rate classes that use kW for the distribution volumetric 7 billing determinant, an adjustment factor is applied to the rate class's energy forecast based on the 8 historical relationship between kW and kWh. Streetlights demands (kW) have been adjusted downward 9 to take into account the City of Brantford plans for energy efficiency in regards to Streetlights. The load 10 forecast for the 2022 Test Year is summarized in Table 3.2-A.

11 A detailed explanation of the load forecasting process follows.

12 3.2.2.1 Purchased kWh Load Forecast

13 An equation to predict total system purchased energy is developed using a multivariate regression model with the following independent variables: weather (heating and cooling degree days), days in the 14 15 month, Real Ontario GDP, trend variable, and several monthly flag variables. The monthly flag variables control for seasonal variability in power purchases during the spring and fall months beyond variability 16 17 caused by heating Degree Days ("HDD") and Cooling Degree Days ("CDD"). The regression model uses 18 monthly kWh and monthly values of independent variables from January 2010 to December 2019 to 19 determine the monthly regression coefficients. This provides 120 monthly data points representing a 20 reasonable data set for use in a regression analysis.

BPI submits for weather normalization purposes it is appropriate to utilize the last 10-year average
weather conditions from January 2011 to December 2020 because of being the most relevant time
period. However, in accordance with the filing requirements, BPI has also provided a sensitivity analysis
showing the impact on the 2022 forecast of purchases assuming weather normal conditions are based
on a 20-year trend of weather data below in Table 3.2-E.

The multivariate regression model has determined drivers of year-over-year changes in BPI's load
growth. These include weather (including fall and spring monthly flags), economic conditions (Ontario

1	Real GDP Monthly), number of days in the month, and Trend Variable. These factors are captured
2	within the multivariate regression model.
3	Weather impacts on load are apparent in both the winter heating season and the summer cooling
4	season. For that reason, both Heating Degree Days (a measure of coldness in winter) and Cooling
5	Degree Days (a measure of summer heat) are modelled.
6	The following outlines the prediction model used by BPI to predict weather normal purchases for 2021
7	and 2022:
8	BPI's Monthly Predicted Weather Normal Purchases =
9	(59,011,249.23)
10	+ Heating Degree Days x 14,056.51
11	+ Cooling Degree Days x 123,984.14
12	+ Real Ontario GDP (Indexed) x 519,199.51
13	+ Number of Days in Month x 2,118,055.30
14	+ March Flag x (1,778,951.71)
15	+ April Flag x (4,190,279.03)
16	+ May Flag x (3,150,225.68)
17	+ October Flag x (1,930,403.22)
18	+ Trend x (147,249.17)
19	The monthly data used in the regression model and the resulting monthly prediction for the actual and
20	forecasted years are provided in Attachment 3-A.
21	The sources of data for the various data points are:
22	a) Environment Canada website was used for the monthly Heating Degree Day and Cooling Degree
23	Day information. Weather data was taken from the Pearson Airport CS Station. The base
24	numbers from which HDDs and CDDs are measured is 18° C.
25	b) The calendar provided information related to the number of days in the month, including
26	consideration of leap years.

1	c)	The trend variable measures the energy efficiency gains. BPI has previously used a CDM variable
2		instead of a trend variable. As of Q1 of 2019, BPI no longer has access to consistent reporting
3		related to the CDM results in its service territory, which continue to be provided by the IESO
4		(with some CFF extended programs being provided by BPI). While BPI believes that CDM activity
5		continues to be an important driver of electricity usage in BPI's service area, it would not be
6		appropriate to include a variable in the regression which BPI is unable to accurately update or
7		accurately forecast.
8		Since it is known that CDM persistence and new program activity is occurring in BPI's Service
9		territory, the trend variable has been used as a proxy for this and other measures of energy
10		efficiency.
11	d)	The Ontario Real GDP (Indexed) variable is an indicator of province-wide economic growth and
12		calculated from the Quarterly Data provided by the Ontario Ministry of Finance. At the time of
13		running the regression on only GDP data for the first 3 quarters of 2020 were available.
14	The pre	ediction formula has the following statistical results:

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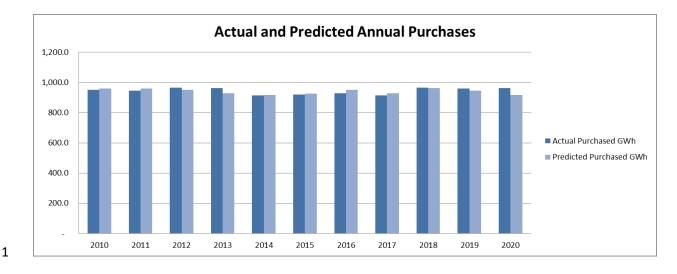
Multiple R	0.95
R Square	0.90
Adjusted R Square	0.90
ANOVA	
	df
Regression	9.00
Residual	110.00
Total	119.00
	t Stat
Intercept	(3.41
Heating Degree Days	11.57
Cooling Degree Days	19.12
Cooling Degree Days Ontario Real GDP (Indexed)	************
***************************************	19.12 4.37 7.80
Ontario Real GDP (Indexed)	4.37 7.80
Ontario Real GDP (Indexed) Number of Days in Month	4.37
Ontario Real GDP (Indexed) Number of Days in Month Mar	4.37 7.80 (2.32
Ontario Real GDP (Indexed) Number of Days in Month Mar Apr	4.37 7.80 (2.32 (5.64

Table 3.2-D – Regression Statistics

2

3 The annual results of the above prediction formula compared to the actual annual purchases from 2011 4 to 2020 are shown in the chart below. The chart indicates the resulting prediction equation appears to 5 be reasonable. BPI has reviewed each variable and determined the relationships to be intuitive. Heating 6 and Cooling increase power purchases, as do incremental days in a month and improved economic 7 performance. The monthly flag variables represent "shoulder" months in which the typical impacts of 8 weather patterns may be lower than usual (presumably as customers are slower to turn heating and 9 cooling on). The trend variable represents energy efficiency measures and results in decreases to the 10 power purchases.

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2 The following Table 3.2-E outlines the data supporting the above chart.

3

Table 3.2-E – Total System Purchases (GWh)

Year	Actual	Predicted	% Difference
2010	951	960	1.0%
2011	945	959	1.5%
2012	964	951	-1.4%
2013	961	927	-3.7%
2014	914	918	0.5%
2015	920	924	0.4%
2016	929	950	2.3%
2017	915	927	1.4%
2018	966	962	-0.4%
2019	959	945	-1.5%
2020	961	917	-4.8%
2021 Bridge year		882	
2022 Weather Normal - 10 year average		903	
2022 Weather Normal - 20 year trend		898	

4

5 The weather normalized amount for 2022 is determined by using 120 independent variables in the

6 prediction formula on a monthly basis together with the average monthly heating degree days and

7 cooling degree days from January 2011 to December 2020. The 2022 weather normalized 20 year trend

8 value reflects the trend in monthly heating degree days and cooling degree days from January 2001 to

9 December 2020.

- 1 The weather normal ten year average has been used as the purchased forecast in this Application for
- 2 the purposes of determining a billed kWh load forecast which is used to design rates. The ten year
- 3 average has been used as this is consistent with the period of time over which the regression analysis
- 4 was conducted.

5 3.2.2.2 Billed kWh Load Forecast

- 6 In determining the total weather normalized energy billed forecast, the total system weather
- 7 normalized purchases forecast is adjusted by a historical loss factor. This adjustment has been made by
- 8 BPI using the average loss factor from 2011 to 2020 of 1.0279. With this average loss factor, the total
- 9 weather normalized billed energy will be 878.3 GWh for 2022.

3.2.2.3 Billed kWh Load forecast and Customer/Connection Forecast by Rate Class 10

- Since the total weather normalized billed energy amount is known, this amount needs to be distributed 11
- by rate class for rate design purposes, considering the customer/connection forecast and expected 12
- usage per customer by rate class. 13
- 14 The next step in the forecasting process is to determine a customer/connection forecast. The
- customer/connection forecast is based on reviewing historical customer/connection data available and 15
- 16 as shown in the following table.
- 17

Table 3.2-F – Historical Number of Customer/Connections

Year	Residential	GS<50	GS>50*	Sentinel	Streetlight	USL	Total
2017 Board Approved	36,433	2,840	449	597	5,849	425	46,593
2010	34,256	2,688	417	603	9,953	446	48,362
2011	34,643	2,709	421	621	9,988	446	48,827
2012	34,938	2,728	419	625	10,134	443	49,287
2013	35,226	2,749	424	625	10,232	438	49,691
2014	35,479	2,772	432	622	10,392	434	50,130
2015	35,744	2,784	438	619	10,632	431	50,646
2016	36,043	2,792	452	551	10,229	427	50,494
2017	36,241	2,798	457	512	5,769	425	46,201
2018	36,521	2,804	483	507	5,771	420	46,506
2019	36,733	2,834	489	501	5,771	408	46,736
2020	37,077	2,930	491	495	5,771	409	47,172

- 1 From the historical customer/connection data the growth rates in customer/connections can be
- 2 evaluated. The growth rates are provided in the following table. The geometric mean growth rate in
- 3 number of customers is also provided. The geometric mean approach provides the average
- 4 compounding growth rate from 2011 to 2020.

5

Year	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
2011	1.13%	0.80%	0.96%	2.99%	0.35%	0.00%
2012	0.85%	0.70%	-0.48%	0.73%	1.46%	-0.67%
2013	0.82%	0.75%	1.07%	-0.08%	0.96%	-1.13%
2014	0.72%	0.84%	2.01%	-0.48%	1.57%	-0.80%
2015	0.75%	0.45%	1.27%	-0.48%	2.30%	-0.81%
2016	0.84%	0.30%	3.31%	-10.87%	-3.79%	-0.87%
2017	0.55%	0.20%	1.05%	-7.21%	-43.60%	-0.47%
2018	0.77%	0.22%	5.80%	-0.98%	0.03%	-1.06%
2019	0.58%	1.07%	1.14%	-1.04%	0.00%	-2.91%
2020	0.94%	3.40%	0.39%	-1.28%	0.00%	0.22%
Geomean	0.79%	0.87%	1.64%	-1.95%	-5.30%	-0.85%
*excluding WMP						

6

7 The numbers for projected customers by rate class for 2021 and 2022 were determined by increasing

8 the 2020 actual number of customers in each class by the geomean rate calculated above. With the

9 Sentinel Light class exception, the forecasted results are shown in Table 3.2-H below, consistently

10 trending with actual results from the past 2 years. BPI has not changed the definition or composition of

any of the rate classes, however there have been impacts as business customer accounts have been

12 assessed between the GS<50kW and GS 50 to 4,999 kW classes over the years.

13 BPI notes it has not made specific adjustments for the new customers projected in capital budgeting.

14 New or upgraded physical customer connections do not always relate to the change in the number of

15 customers on a direct basis, so the historic "geomean" increase in customers has been applied.

16 Additionally, there is some level of uncertainty regarding the number and timing of projected new

17 connections.

Table 3.2-H – Projected Customers by Rate Class

Year	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
2021	37,371	2,956	499	485	5,771	405
2022	37,668	2,981	507	476	5,771	402

2

*excluding WMP

3 The next step in the process is to review the historical customer/connection usage and to reflect this

4 usage per customer in the forecast. The following table provides the average annual usage per

5 customer/connection by rate class from 2011 to 2020.

6

Table 3.2-I – Historical Annual Usage per Customer/Connection by Rate Class

Year	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
2011	8,411	36,545	1,234,003	766	734	3,494
2012	8,216	36,782	1,287,640	735	730	3,491
2013	8,020	36,325	1,262,388	719	722	3,548
2014	7,974	35,849	1,152,745	716	710	3,521
2015	8,046	35,948	1,160,884	721	693	3,522
2016	8,096	35,661	1,125,607	570	720	3,545
2017	7,545	34,490	1,123,768	365	1,270	3,588
2018	8,250	33,783	1,095,898	375	1,246	3,563
2019	7,954	32,860	1,101,075	389	1,238	3,821
2020	8,517	29,768	1,062,810	379	1,206	3,693

*excluding WMP

7 8

9 As can be seen from the above table, except for residential and USL, the usage per customer/connection

10 has generally continued a decline since the last cost-of-service application. BPI's view is this decline is

11 partially due to energy efficiency measures as well as from changing individual usage caused by a variety

12 of factors, including weather and the economy. BPI's customer base is sensitive to weather, and during

13 the summer months, a substantial amount of air conditioning is used throughout the service territory.

14 From the historical usage per customer/connection data, the growth rate in usage per

15 customer/connection can be derived as shown in the following table. The geometric mean growth rate

16 has also been provided.

Year	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
2011	0.27%	-0.48%	-1.37%	-3.95%	-0.67%	-0.20%
2012	-2.32%	0.65%	4.35%	-4.07%	-0.57%	-0.07%
2013	-2.39%	-1.24%	-1.96%	-2.23%	-1.07%	1.63%
2014	-0.57%	-1.31%	-8.69%	-0.33%	-1.66%	-0.76%
2015	0.90%	0.27%	0.71%	0.73%	-2.37%	0.02%
2016	0.62%	-0.80%	-3.04%	-21.02%	3.92%	0.67%
2017	-6.80%	-3.28%	-0.16%	-36.02%	76.26%	1.21%
2018	9.35%	-2.05%	-2.48%	2.89%	-1.85%	-0.70%
2019	-3.59%	-2.73%	0.47%	3.67%	-0.62%	7.24%
2020	7.07%	-9.41%	-3.48%	-2.45%	-2.58%	-3.37%
Geomean	0.14%	-2.25%	-1.65%	-7.51%	5.68%	0.62%

Table 3.2-J – Historical Annual Customer/Connection Usage Growth by Rate Class

2 *excluding WMP

- 3 For the forecast of usage per customer/connection the historical geometric mean was applied to the
- 4 2020 usage to determine the 2021 and 2022 forecast. The resulting usage forecast is shown in the
- 5 following table.
- 6

1

Table 3.2-K – Projected Annual Usage per Customer/Connection by Rate Class

Year	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
2021	8,529	29,097	1,045,319	351	1,275	3,716
2022	8,541	28,442	1,028,116	325	1,347	3,738

*excluding WMP

- 9 With the preceding information the non-weather normalized billed energy forecast can be determined
- 10 by applying the forecast number of customer/connections from Table 3.2-I by the forecast annual usage
- 11 per customer/connection from Table 3.2-L. The resulting non-weather normalized billed energy forecast
- is shown below.

Year		Residential	GS<50	GS>50*	Streetlight	Sentinel	USL	Total
	2021	318.7	86.0	521.3	0.2	7.4	1.5	935.1
	2022	321.7	84.8	521.1	0.2	7.8	1.5	937.1

Table 3.2-L- Projected Non-Weather Normal Billed energy by Rate Class (GWh)

2 *excluding WMP

1

3 The non-weather normalized billed energy forecast has been determined but this needs to be adjusted

4 in order to align with the total weather normalized billed energy forecast. As previously determined,

5 the total weather normalized billed energy forecast for 2021 and 2022 is 935.1 GWh and 937.1 GWh

6 respectively.

7 The difference between the non-weather normalized and the weather normalized forecasts are (77.4)

8 GWh for 2021 and (58.8) GWh for 2022. The remaining difference is assumed to be associated with

9 moving the forecast from a non-weather normalized to a weather normalized basis and this amount will

10 be assigned to those rate classes that are weather sensitive. Based on the weather normalization work

11 completed by Hydro One for BPI for the cost allocation information filing used to support the

12 Application, it was determined the weather sensitivity by rate class is as follows:

13

Table 3.2-M – Weather Sensitivity by Rate Class

	Residential	GS<50	GS>50*	Streetlight	Sentinel	USL
Weather Sensitivity						
Percent	67.00%	67.00%	34.00%	0.00%	0.00%	0.00%

14 *excluding WMP

15 For the GS>50 kW class the weather sensitivity amount of 34% was provided in the weather

16 normalization work completed by Hydro One. For the Residential and GS<50 kW classes it has been

assumed in cost of service applications prior to 2013 that these two classes are 100% weather sensitive.

18 Intervenors expressed concern with this assumption and have suggested sensitivity of 100% for these

19 classes is not appropriate. BPI agrees with this position but also submits the weather sensitivity for the

20 Residential and GS<50 kW classes should be higher than the GS>50 kW class. As a result BPI has

assumed the weather sensitivity for the Residential and GS<50 kW classes to be mid-way between 100%

22 and 34%, therefore 67%.

- 1 The difference between the non-weather normalized and the weather normalized forecast of (77.4)
- 2 GWh for 2021 and (58.8) GWh for 2022 have been assigned on a pro rata basis to each rate class based
- 3 on the above level of weather sensitivity.

4 Table 3.2-N – Alignment of Non-Weather Normalized and Weather Normalized Forecasts

	Residential	GS<50	GS>50*	Sentinel	Streetlight	USL	Total
2021							
Non-Weather Corrected Forecast	318,725,610	86,003,056	521,315,477	170,250	7,357,575	1,506,368	935,078,335
Weather Sensitivity %	67.0%	67.0%	34.0%	-	-	-	
Allocation of Weather Sensitive Amount	(36,869,195)	(9,948,568)	(30,602,114)	-	-	-	(77,419,876)
Weather Corrected Forecast	281,856,415	76,054,488	490,713,363	170,250	7,357,575	1,506,368	857,658,459
2022							
Non-Weather Corrected Forecast	321,704,252	84,795,249	521,145,464	154,391	7,775,272	1,502,728	937,077,356
Weather Sensitivity %	67.0%	67.0%	34.0%	-	-	-	
Allocation of Weather Sensitive Amount	(28,195,165)	(7,431,720)	(23,178,265)	-	-	-	(58,805,150)
Weather Corrected Forecast	293,509,087	77,363,528	497,967,199	154,391	7,775,272	1,502,728	878,272,205

5 *excluding WMP

6 CDM Adjustment

7 Historically, a manual adjustment has been made to reflect the impact of new and forecasted new CDM

8 program results on the load forecast. Due to the discontinuation of the Conservation First Framework,

9 BPI has not made any such adjustment.

10 3.2.2.4 Billed kW Load Forecast

- 11 There are four rate classes that charge volumetric distribution on a per kW basis. These include GS>50
- 12 kW, Streetlights, Sentinel Lighting and Embedded Distributor. As a result, the energy forecast for these
- 13 classes needs to be converted to a kW basis for rate-setting purposes. The forecast of kW for GS>50,
- 14 Sentinels are based on this historical average ratio of kW to kWh and applying the average ratio to the
- 15 forecasted kWh to produce the required kW. An adjustment factor was applied to Streetlights because
- 16 of the City of Brantford's efforts to continually improve the efficiencies of street lighting. The Embedded
- 17 Distributor demand and consumption forecast assume growth of 1% per year.
- 18 Table 3.2-N outlines the annual demand units by applicable rate class.

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Year	GS>50*	Sentinel	Streetlight	Total
2010	1,323,482	1,534	22,480	1,347,497
2011	1,344,251	1,487	22,428	1,368,166
2012	1,398,784	1,392	22,533	1,422,709
2013	1,395,148	1,385	22,581	1,419,114
2014	1,368,652	1,361	22,553	1,392,566
2015	1,388,241	1,363	22,527	1,412,132
2016	1,378,958	923	22,444	1,402,325
2017	1,400,391	570	22,338	1,423,299
2018	1,435,245	520	22,227	1,457,992
2019	1,450,909	568	21,979	1,473,456
2020	1,428,137	554	21,543	1,450,234

Table 3.2-O – Historical kW per Applicable Class

*excluding WMP

3

2

1

- 4 The following table illustrates the historical ratio of kW/kWh as well as the average ratio for 2011 to
- 5 2020.

6

Table 3.2-P – Historical kW/kWh Ratio by Class

Year	GS>50*	Sentinel	Streetlight
2011	0.2588%	0.3128%	0.3059%
2012	0.2593%	0.3030%	0.3047%
2013	0.2610%	0.3086%	0.3057%
2014	0.2748%	0.3057%	0.3057%
2015	0.2733%	0.3055%	0.3057%
2016	0.2710%	0.2938%	0.3046%
2017	0.2728%	0.3056%	0.3050%
2018	0.2710%	0.2737%	0.3091%
2019	0.2696%	0.2913%	0.3075%
2020	0.2739%	0.2952%	0.3094%
Average	0.2685%	0.2995%	0.3063%

*excluding WMP

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- 1 The average ratio was applied to the weather normalized billed energy forecast in Table 3.2-O to
- 2 provide the forecast of kW by rate class as shown below.

Table 3.2-Q – Forecast kW per Applicable Class

Year	GS>50*	Sentinel	Streetlight
2021	1,317,808	510	22,103
2022	1,337,288	462	22,948

2

1

*excluding WMP

3 In addition to the forecasts per class set out above, which are calculated in BPI's load forecast regression

4 analysis, BPI has also forecast the Test Year billing determinants expected for its Embedded Distributor

5 class and its Wholesale Market Participants (WMPs), which are part of the General Service 50 to 4,999

6 kW class. The forecast kW usage for the Embedded Distributor class is 101,593kW for 2021 and 102,609

7 kW for 2022. The forecast of 11,674 kW for 2021 and 2022 for WMPs is consistent with 2020 actuals.

8 Throughout the Rate Design and Cost Allocation portions of the Application, the General Service 50 to

9 4,999 kW forecast should be inclusive of WMP billings.

10 The Table 3.2-R shows the test year forecast output from the live excel forecasting model

11 (Brantford_2021_filing_Requirements_Weather Normalization Regression Model _ 20210512). Also,

12 Table 3.2-S has a summary of the historical and forecasts for the bridge and test years from the live

13 excel forecasting model.

14

Table 3.2-R - Forecast for 2022 Test Year

	Customer / Connections	kWh	kW
Residential	37,668	293,509,087	
GS<50	2,981	77,363,528	
GS > 50 kW (incl. WMP)	509	503,997,167	1,348,962
Street Lighting	5,771	7,775,272	22,948
Sentinel Lighting	476	154,391	462
Unmetered Scattered Load (USL)	402	1,502,728	
Embedded distributor class	2	43,894,456	102,609

15

Table 3.2-S – Summary and Variances of Actual and Forecast Data

2

# of Customers 36,433 36,241 36,251 36,737 37,771 37,771 37,878 39,871 39,871 <th< th=""><th></th><th></th><th>2017</th><th>2018</th><th>2019</th><th>2020</th><th>2021 Bridge</th><th>2022 Test</th></th<>			2017	2018	2019	2020	2021 Bridge	2022 Test
WM 901.593.274 273.446.641 301.310.523 292.190.865 213.874.546 283.890.087 Variance Analysis - - - - - - 77.956 281.856.415 292.500.087 Variance Analysis - - - - - 77.956 0.77% K 0.97% - 0.97% K 0.77% K 0.97% K 1.97% K 1.98% <t< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td>1</td><td></td></t<>			1				1	
kw km km km km km km # of customers # 0 23% 0.7% 0.5% 0.4% 0.7% 0.7% W -9.33% 0.7% 0.5% 0.8% 0.0% 0.7% General Service -50 kW -9.33% 0.7% 0.5% 8.0% -10.7% 4.1% General Service -50 kW - 2.80 2.84 2.83 2.930 7.666.468 77.865.528 KWh 103.442.407 96.465.522 94.726.668 93.124.427 87.28.067 76.664.468 77.855.528 KWh 103.442.407 96.467.542 94.726.684 93.124.427 87.28.067 73.65.528 KWh - - - 87.28 1.407.427 87.28.067 73.65.328 KWh - - - - 87.33 12.81% 17.72% KWh - - - - - 87.997.19% 14.99 507 KWh 1.402.31 1.43								
Variance Analysis -0.53% 0.7% 0.68% 0.9% 0.7% 0.7% 0.89% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.7% 0.89% 0.7% 0.7% 0.89% 0.7% 0.89% 0.7% 4.13% WW 0.03442.407 96.85542 94.728.689 93.124.427 67.280.07 76.64.687 77.86.588 WM 103.442.407 96.85542 94.728.689 93.124.427 67.280.07 76.64.687 77.86.588 VM 1.49% 0.22% 1.07% 3.40% 0.87% 0.87% VM -1.49% 0.22% 1.07% 3.40% 0.87% 0.87% VM -1.49% 0.22% 1.07% 3.40% 0.87% 0.87% VM 1.49% 0.22% 1.07% 3.40% 0.87% 0.87% VM 1.342.821 1.400.311 1.455.45 52.485.64 490.733.33 47.69% 47.83%		301,593,274	273,448,641	301,310,523	292,180,865	315,774,546	281,856,415	293,509,087
# of Customer's 0.05% 0.77% 0.05% 0.94% 0.79% 0.79% KWh -9.33% 10.19% -3.03% 8.08% -10.74% 4.13% KW -9.33% 10.19% -3.03% 8.08% -10.74% 4.13% KW -2.840 2.784 2.840 2.834 2.280 2.284 7.2966 2.981 KM 103.442.407 96.465,42 94.725.86 93.124.427 87.220.067 76.64.486 77.865.024 Variance Analysis - - - 67.72% 1.85% -1.65% -6.33% 17.281% 17.78% 5.05% 1.05% -0.85% 17.281% 1.728 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.33% 17.281% 1.78% -6.37% 1.378% 1.68% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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kw kw kw kw kw kw kw kw General Service <50 kW				0.77%				
General Service <50 kW 2.840 2.788 2.804 2.834 2.930 2.966 2.981 Wh 103.442.407 96.495.542 94.726.568 93.124.427 67.228.07 76.054.488 77.365.528 Wh 103.442.407 96.495.542 94.726.568 93.124.427 67.228.07 76.054.488 77.365.528 Wh - 67.27% 1.07% 3.40% 0.57% 0.57% Wh - 67.27% 1.83% -1.83% -1.83% -1.281% 1.72% KW - 67.72% -1.83% -1.83% -1.281% 1.72% KW - 67.72% 1.435.245 1.450.909 1.428.137 1.317.808 1.337.288 Yariance Analysis - 1.432.245 1.450.909 1.428.137 1.317.808 1.337.288 Yariance Analysis - 1.432.245 1.450.909 1.428.137 1.317.808 1.337.288 Yariance Analysis - - 1.432.266 1.402.96 1.49% <t< td=""><td></td><td></td><td>-9.33%</td><td>10.19%</td><td>-3.03%</td><td>8.08%</td><td>-10.74%</td><td>4.13%</td></t<>			-9.33%	10.19%	-3.03%	8.08%	-10.74%	4.13%
# of Customers 2.840 2.788 2.844 2.834 2.830 2.986 2.981 WM 103,442,407 96,495,542 94,728,588 93,124,427 87,228,067 76,054,488 77,355,582 W a 60,027% 1.07% 3.40% 0.87% 0.87% Variance Analysis	kW		<u> </u>					
# of Customers 2.840 2.788 2.844 2.834 2.830 2.986 2.981 WM 103,442,407 96,495,542 94,728,588 93,124,427 87,228,067 76,054,488 77,355,582 W a 60,027% 1.07% 3.40% 0.87% 0.87% Variance Analysis	General Service <50 kW							
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iw n n n n n n n Variance Analysis of Customers -1.4.4% 0.22% 1.0.7% 3.4.0% 0.87% 0.87% KWh -6.7.2% -1.4.3% 0.169% -6.3.3% -12.81% 1.72% General Service 50-4999 -6.7.2% -1.4.3% 1.69% -6.3.3% -12.81% 1.72% Wh 496.065.575 513.212.86 529.592.600 538.150.482 521.485.545 490.713.383 497.087/139 Wh 1.942.62 1.400.381 1.435.245 1.400.081 1.428.137 1.317.080 1.337.288 Variance Analysis				,		,	,	
Variance Analysis - - # of Customers -1.4.9% 0.22% 1.07% 3.40% 0.87% KWh -6.72% -1.83% -1.69% 6.33% -1.281% 0.87% KW -6.72% -1.83% -1.69% 6.33% -1.281% 0.87% KW -6.72% -1.83% -1.69% 6.33% -1.281% 0.87% KW -6.72% -1.83% -1.69% 6.33% -1.281% 0.87% General Service 50-4999 -677 513.281.236 529.582.600 538.150.482 521.485.545 490,713.363 497.667.199 KW 1.942.821 1.400.391 1.455.245 1.40% 0.39% 1.64% 1.337.282 Variance Analysis -1.73% 5.80% 1.14% 0.39% 1.46% 1.46% KWh -1.57% -7.73% 1.48% 1.65% 507 501 495 485 476 KWh 1.155 570 502 588 177.29 <td< td=""><td></td><td>100,112,101</td><td>00,400,042</td><td>04,720,000</td><td>00,124,421</td><td>01,220,001</td><td>10,004,400</td><td>11,000,020</td></td<>		100,112,101	00,400,042	04,720,000	00,124,421	01,220,001	10,004,400	11,000,020
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NVh -6.72% -1.83% -1.69% -6.33% -1.2.81% 1.72% NV			-1.49%	0.22%	1 07%	3 40%	0.87%	0.87%
kw kw kw kw kw kw kw kw kw General Service 50-4999 449 447 4487 4483 449 449 457 483 449 449 507 kWh 496,695,575 513,281,236 252,952,600 503,1042 521,485,544 490,13363 497,979,799 kW 1,342,821 1,400,391 1,435,245 1,450,909 1,428,137 1,317,808 1,337,288 Variance Analysis 1 73% 5.60% 1.14% 0.39% 1.64% 1.44% KWh 3.349 3.19% 1.62% -3.10% -5.90% 1.44% KWh 3.29% 2.49% 1.09% -1.64% 1.44% KW 382,297 186,504 190,023 144,958 187,739 170,250 154,391 KW 382,297 186,504 190,023 194,958 187,739 170,250 14,391 KW 31,155 570 5205 6.86 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
# of Customers 449 457 483 489 491 499 507 KWh 496.695.675 513.281.236 529.592.00 538.150.482 521.485.545 490.713.363 497.907.13 497.907.13 337.288 Variance Analysis 1.342.821 1.435.245 1.450.909 1.428.137 1.837.288 # of Customers 1.73% 5.80% 1.14% 0.33% 1.64% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -5.90% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -7.73% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -7.73% 1.48% KWh 3.82,77 150.2 570 501 495 485 476 KWh 382.277 186,564 190.023 189.495 194.958 177.920 154.391 KWh 322.277 186,564 9.771 5.771 5.771 5.771 5.771 5.771			-0.7278	-1.05 //	-1.0578	-0.3378	-12.01/6	1.7270
# of Customers 449 457 483 489 491 499 507 KWh 496.695.675 513.281.236 529.592.00 538.150.482 521.485.545 490.713.363 497.907.13 497.907.13 337.288 Variance Analysis 1.342.821 1.435.245 1.450.909 1.428.137 1.837.288 # of Customers 1.73% 5.80% 1.14% 0.33% 1.64% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -5.90% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -7.73% 1.48% KWh 3.34% 3.18% 1.62% -3.10% -7.73% 1.48% KWh 3.82,77 150.2 570 501 495 485 476 KWh 382.277 186,564 190.023 189.495 194.958 177.920 154.391 KWh 322.277 186,564 9.771 5.771 5.771 5.771 5.771 5.771								
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kW 1,342,821 1,400,391 1,435,245 1,450,909 1,428,137 1,317,808 1,337,288 Variance Analysis # of Customers 1.73% 5.80% 1.14% 0.39% 1.64% 1.64% kW 3.34% 3.18% 1.62% -3.10% -5.90% 1.48% kW 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% Sentinel Lights # # 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% Variance Analysis # # # 6 6 6 7.73% 1.48% Variance Analysis -1.15% 570 520 568 554 510 482 Variance Analysis -1.15% 570 520 568 554 9.32% 9.32% KW 51.21% 6.08% 2.09% -1.04% -1.28% -1.95% -1.95% KW 2.21% 2.21% 2.21% 2.21% -2.01% -0.06%								
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# of Customers 1.73% 5.80% 1.14% 0.39% 1.64% 1.64% kWh 3.34% 3.18% 1.62% -3.10% -5.90% 1.48% kW 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% Sentinel Lights # # of Connections 597 512 507 501 495 485 476 kWh 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 1,155 570 520 568 554 510 462 Variance Analysis -14.32% -0.98% -1.04% -1.28% -1.95% -1.55% KWh 7,460,329 7,324,649 7,191,550 7,775,272 775,272 27 27		1,342,821	1,400,391	1,435,245	1,450,909	1,428,137	1,317,808	1,337,288
kWh 3.34% 3.18% 1.62% -3.10% -5.90% 1.48% kW 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% Sentinel Lights	-		1 73%	5 80%	1 1 / 94	0.30%	1 64%	1.64%
kW 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% Sentinel Lights 4.29% 2.49% 1.09% -1.57% -7.73% 1.48% # of Connections 597 512 507 501 495 485 476 kWh 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 1,155 570 520 568 554 510 462 Variance Analysis								
Sentinel Lights Soft Soft Soft Soft Soft Soft Soft Soft								
# of Connections 597 512 507 501 495 485 476 kWh 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 1,155 570 520 568 554 510 462 Variance Analysis	KVV		4.29%	2.49%	1.09%	-1.57%	-1.13%	1.40%
# of Connections 597 512 507 501 495 485 476 kWh 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 1,155 570 520 568 554 510 462 Variance Analysis	Sentinel Lights							
kWh 382,297 186,504 190,023 194,958 187,739 170,250 154,391 kW 1,155 570 520 568 554 510 462 Variance Analysis ************************************	# of Connections	597	512	507	501	495	485	476
kW 1,155 570 520 568 554 510 462 Variance Analysis								
Variance Analysis -14.32% -0.98% -1.04% -1.28% -1.95% -1.95% kWh -51.21% 1.89% 2.60% -3.70% -9.32% -9.32% kW -55.65% -8.77% 9.23% -2.41% -8.00% -9.32% Street Lights - - - - - - # of Connections 5,649 5,769 5,771 2,103 2,2103								
# of Connections -14.32% -0.98% -1.04% -1.28% -1.95% -1.95% kWh -51.21% 1.89% 2.60% -3.70% -9.32% -9.32% kW -50.65% -8.77% 9.23% -2.41% -8.00% -9.32% Street Lights -50.65% -8.77% 9.23% -2.41% -8.00% -9.32% # of Connections 5.849 5.769 5.771 5.771 5.771 5.771 5.771 5.771 kWh 7.460,329 7.324,649 7.191,580 7.147,042 6.962,317 7.357,575 7.775,272 kW 22,796 22,338 22,227 21,979 21,543 22,103 22,948 Variance Analysis -1.37% 0.03% 0.00% 0.00% 0.00% kWh -1.82% -1.82% -0.62% -2.58% 5.68% 5.68% kW -2.01% -0.50% -1.12% -1.98% 2.60% 3.82% Unmetered Scattered Load - - - - - - # of Connections 425<		.,						
kWh 1.89% 2.60% -3.70% -9.32% -9.32% kW -50.65% -8.77% 9.23% -2.41% -8.00% -9.32% Street Lights - - 5.769 5.771 5.7			-14.32%	-0.98%	-1.04%	-1 28%	-1 95%	-1.95%
kW -50.65% -8.77% 9.23% -2.41% -8.00% -9.32% Street Lights - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
# of Connections 5,849 5,769 5,771								
# of Connections 5,849 5,769 5,771	D							
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kW 22,796 22,338 22,227 21,979 21,543 22,103 22,948 Variance Analysis # of Connections -1.37% 0.03% 0.00%								
Variance Analysis -1.37% 0.03% 0.00% <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
# of Connections -1.37% 0.03% 0.00% 0.00% 0.00% 0.00% 0.00% kWh -1.82% -1.82% -0.62% -2.58% 5.68% 5.68% kW -2.01% -0.50% -1.12% -1.98% 2.60% 3.82% Unmetered Scattered Load -2.01% -0.50% -1.12% -1.98% 2.60% 3.82% KWh 425 425 420 408 409 405 402 KWh 1,405,154 1,524,181 1,497,429 1,559,095 1,510,016 1,506,368 1,502,728 KW		22,796	22,338	22,227	21,979	21,543	22,103	22,948
kWh -1.82% -1.82% -0.62% -2.58% 5.68% 5.68% kW -2.01% -0.50% -1.12% -1.98% 2.60% 3.82% Unmetered Scattered Load 425 425 420 408 409 405 402 kWh 1,405,154 1,524,181 1,497,429 1,559,095 1,510,016 1,506,368 1,502,728 kW Variance Analysis		1						
kW -2.01% -0.50% -1.12% -1.98% 2.60% 3.82% Unmetered Scattered Load								
Unmetered Scattered Load 425 425 420 408 409 405 402 # of Connections 425 425 420 408 409 405 402 kWh 1,405,154 1,524,181 1,497,429 1,559,095 1,510,016 1,506,368 1,502,728 kW 0 0 0 0 0 0 0 Variance Analysis -0.06% -1.06% -2.91% 0.22% -0.85% -0.85% kWh 0 8.47% -1.76% 4.12% -3.15% -0.24% -0.24%								
# of Connections 425 425 420 408 409 405 402 kWh 1,405,154 1,524,181 1,497,429 1,559,095 1,510,016 1,506,368 1,502,728 kW 0 0 0 0 0 0 0 Variance Analysis -0.06% -1.06% -2.91% 0.22% -0.85% -0.85% kWh 0 0 0.22% -0.24% -0.24%	kW		-2.01%	-0.50%	-1.12%	-1.98%	2.60%	3.82%
kWh 1,405,154 1,524,181 1,497,429 1,559,095 1,510,016 1,506,368 1,502,728 kW 1	Unmetered Scattered Load							
kW Image: Weight of Connections Image: Weight of Connecti	# of Connections	425	425	420	408	409	405	402
kW Image: Weight of Connections Image: Weight of Connecti	kWh	1,405,154	1,524,181	1,497,429	1,559,095	1,510,016	1,506,368	1,502,728
# of Connections -0.06% -1.06% -2.91% 0.22% -0.85% -0.85% kWh 8.47% -1.76% 4.12% -3.15% -0.24% -0.24%								
# of Connections -0.06% -1.06% -2.91% 0.22% -0.85% -0.85% kWh 8.47% -1.76% 4.12% -3.15% -0.24% -0.24%	Variance Analysis							
			-0.06%	-1.06%	-2.91%	0.22%	-0.85%	-0.85%
	kWh		8.47%	-1.76%	4.12%	-3.15%	-0.24%	-0.24%
	kW							

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kw 139,437 107,291 95,219 97,683 100,587 101,583 102 Variance Analysis 963544924 0.00% 1 1 1 1 1 1 1 1 0.00% 1	Embedded Distributor	-						
kW 139.437 107.291 95.219 97.683 100,587 101,593 102 Variance Analysis 963544924 0.00% 1	# of Connections	2	2	2	2	2	2	2
Variance Analysis 963544924 0.00% 1 1 Wholesale Market Participants (Billed under GS>50 kW for Dist. Rates) - 2	kWh *EST	51,013,084	43,309,246	41,227,723	41,261,684	43,029,562	43,459,857	43,894,456
# of Connections 0.00%	kW	139,437	107,291	95,219	97,683	100,587	101,593	102,609
kWh -15.10% -4.81% 0.08% 4.28% 1.00% 1 kW -23.05% -11.25% 2.59% 2.97% 1.00% 1 Wholesale Market Participants (Billed under GS>50 kW for Dist. Rates) - 2 <th>Variance Analysis</th> <th>963544924</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Variance Analysis	963544924						
kW -23.05% -11.25% 2.59% 2.97% 1.00% 1 Wholesale Market Participants (Billed under GS>50 kW for Dist. Rates) - 2	# of Connections		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Wholesale Market Participants (Billed under GS>50 kW for Dist. Rates) # of Customers - 2 <th>kWh</th> <th></th> <th>-15.10%</th> <th>-4.81%</th> <th>0.08%</th> <th>4.28%</th> <th>1.00%</th> <th>1.00%</th>	kWh		-15.10%	-4.81%	0.08%	4.28%	1.00%	1.00%
# of Customers - 2	kW		-23.05%	-11.25%	2.59%	2.97%	1.00%	1.00%
# of Customers - 2								
kWh *EST - 6,489,035 6,330,357 6,085,995 6,029,968 6,029,9	Wholesale Market Participants (Billed under GS>50 kW for D	Dist. Rates)						
kW - 12,330 12,258 10,962 11,674 11,674 11 Variance Analysis 0.00% 1.442,014 1,463 1,463 1,553,211 1,551,821 1,442,014 1,463 1,463 1.462% 1,48% 1.62% 1.48% 1.62% 1.48% 1.	# of Customers	-	2	2	2	2	2	2
Variance Analysis # of Customers # of Customers Wh -2.45% -3.86% -0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 935,569,999 975,738,466 976,177,792 901,118,316 922,166 kW from applicable classes 1,506,209 1,553,211 1,571,139 1,550,821 1,442,014 1,462 Customers / Connections 1,506,209 1,553,211 1,571,139 1,550,821 1,442,014 1,462 kWh 1.62% 1.48% 1.15% -1	kWh *EST	-	6,489,035	6,330,357	6,085,995	6,029,968	6,029,968	6,029,968
# of Customers 0.00%	kW	-	12,330	12,258	10,962	11,674	11,674	11,674
kWh -2.45% -3.86% -0.92% 0.00% 0 kW -0.58% -10.57% 6.49% 0.00% 0 Totals Except Wholesale Market Participants 46,595 46,203 46,508 46,738 47,174 47,489 47 kWh 961,992,120 935,569,999 975,738,466 973,618,554 976,177,792 901,118,316 922,166 kW from applicable classes 1,506,209 1,530,590 1,553,211 1,571,139 1,550,821 1,442,014 1,463 Totals Except Wholesale Market Participants - Variance		-			r			
kW -0.58% -10.57% 6.49% 0.00% 0 Totals Except Wholesale Market Participants 46,595 46,203 46,508 46,738 47,174 47,489 47 kWh 961,992,120 935,569,999 975,738,466 973,618,554 976,177,792 901,118,316 922,166 kW from applicable classes 1,506,209 1,530,590 1,553,211 1,571,139 1,550,821 1,442,014 1,463 Totals Except Wholesale Market Participants - Variance					0.00%	0.00%	0.00%	0.00%
Totals Except Wholesale Market Participants 46,595 46,203 46,508 46,738 47,174 47,489 47 kWh 961,992,120 935,569,999 975,738,466 973,618,554 976,177,729 901,118,316 922,166 kW from applicable classes 1,506,209 1,530,590 1,553,211 1,571,139 1,550,821 1,442,014 1,463 Totals Except Wholesale Market Participants - Variance				-2.45%	-3.86%	-0.92%	0.00%	0.00%
Customers / Connections 46,595 46,203 46,508 46,738 47,174 47,489 47 kWh 961,992,120 935,569,999 975,738,466 973,618,554 976,177,792 901,118,316 922,166 kW from applicable classes 1,506,209 1,530,590 1,553,211 1,571,139 1,550,821 1,442,014 1,463 Totals Except Wholesale Market Participants - Variance - <th>kW</th> <th></th> <th></th> <th>-0.58%</th> <th>-10.57%</th> <th>6.49%</th> <th>0.00%</th> <th>0.00%</th>	kW			-0.58%	-10.57%	6.49%	0.00%	0.00%
kWh 961,992,120 935,569,999 975,738,466 973,618,554 976,177,792 901,118,316 922,166 kW from applicable classes 1,506,209 1,530,590 1,553,211 1,571,139 1,550,821 1,442,014 1,463 Totals Except Wholesale Market Participants - Variance -2.75% 4.29% -0.22% 0.26% -7.69% 2 kWh 1.62% 1.48% 1.15% -1.29% -7.02% 1 kW from applicable classes 0.00% 0.00% 0.00% 0.00% 0.00% 0 Totals Customers / Connections 46,205 46,510 46,740 47,176 47,491 47 kW from applicable classes 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kWh 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals		46 595	46 203	46 508	46 738	47 174	47 489	47.807
kW from applicable classes 0.01001/02		,	,	-,	,	,	,	922,166,661
Totals Except Wholesale Market Participants - Variance -2.75% 4.29% -0.22% 0.26% -7.69% 2 Customers / Connections 1.62% 1.48% 1.15% -1.29% -7.02% 1 kWh 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0 Totals	kW from applicable classes	, ,			, ,		, ,	1,463,307
Customers / Connections -2.75% 4.29% -0.22% 0.26% -7.69% 2 kWh 1.62% 1.48% 1.15% -1.29% -7.02% 1 kW from applicable classes 0.00% 0.00% 0.00% 0.00% 0.00% 0 Totals 46,205 46,510 46,740 47,176 47,491 47 kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals 7 7 7 7 9 7 1	••							
Customers / Connections -2.75% 4.29% -0.22% 0.26% -7.69% 2 kWh 1.62% 1.48% 1.15% -1.29% -7.02% 1 kW from applicable classes 0.00% 0.00% 0.00% 0.00% 0.00% 0 Totals 46,205 46,510 46,740 47,176 47,491 47 kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals 7 7 7 7 9 7 1	Totals Except Wholesale Market Participants - Var	riance						
KW from applicable classes 0.00% 0			-2.75%	4.29%	-0.22%	0.26%	-7.69%	2.34%
Totals 46,205 46,510 46,740 47,176 47,491 47 Customers / Connections 46,205 46,510 46,740 47,176 47,491 47 kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals - Variance	kWh		1.62%	1.48%	1.15%	-1.29%	-7.02%	1.48%
Customers / Connections 46,205 46,510 46,740 47,176 47,491 47 kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals - Variance	kW from applicable classes		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Customers / Connections 46,205 46,510 46,740 47,176 47,491 47 kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals - Variance								
kWh 942,059,034 982,068,823 979,704,549 982,207,759 907,148,284 928,196 kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals - Variance	Totals							
kW from applicable classes 1,542,920 1,565,469 1,582,102 1,562,495 1,453,688 1,474 Totals - Variance	Customers / Connections		46,205	46,510	46,740	47,176	47,491	47,809
Totals - Variance	kWh		942,059,034	982,068,823	979,704,549	982,207,759	907,148,284	928,196,629
	kW from applicable classes		1,542,920	1,565,469	1,582,102	1,562,495	1,453,688	1,474,981
	Totals - Variance							
Customers / Connections 0.00% 4.25% -0.24% 0.26% -7.64% 2	Customers / Connections		0.00%	4.25%	-0.24%	0.26%	-7.64%	2.32%
kWh 0.00% 1.46% 1.06% -1.24% -6.96% 1	kWh		0.00%	1.46%	1.06%	-1.24%	-6.96%	1.46%
kW from applicable classes 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	kW from applicable classes		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

2 3.3 Accuracy of load forecast and Variance Analysis

3 3.3.1 Variance Analysis of Distribution Revenue and Billing Determinants

- 4 The following discussion provides a variance analysis on BPI's Distribution Revenue and Billing
- 5 Determinants with a summary of distribution revenue provided in Table 3.1-A. The variance analysis will
- 6 compare 2017 Actual to 2017 Board Approved and a year-over-year comparison of actuals for years;
- 7 2017 to 2018, 2018 to 2019, 2019 to 2020, 2020 to 2021 Bridge year, and 2021 Bridge year to 2022 Test
- 8 Year. The distribution Revenue variance analysis is based on information provided in Table 3.1-A. The
- 9 Billing Determinant variance analysis is based on data provided in Table 3.1-A. Each rate class is billed
- 10 based on the following measures:

1

Residential is billed based on fixed and variable per kWh charge for the years 2017 to 2018 and
 starting on January 1, 2019 only billed based on a fixed charge.

1	• General Service Less than 50 kW is billed based on fixed and variable per kWh charge.
2	• General Service 50 to 4,999 kW is billed based on fixed and variable per kW charge.
3	 Street Light is billed based on fixed and variable per kW charge.
4	• Sentinel Lighting kW is billed based on fixed and variable per kW charge.
5	• Unmetered Scattered Load is billed based on fixed and variable per kWh charge.
6	• Embedded Distributor is billed based on fixed and variable per kW charge.
7	The normalization was done based on the overall purchase and not individual rates for the forecasts
8	because of insufficient data to produce a statistically significant forecast. The overall variance analysis
9	has been provided based on BPI's materiality of \$115,000 as calculated in Exhibit 1 of this application.
10	BPI notes that at time, rate rider revenue is recorded in Account 4080 with Distribution Revenues. The
11	distribution revenue analysis provided below is focused solely on the distribution monthly fixed and
12	volumetric rates applicable to each rate class (as well as transformer allowance, as applicable).

13 3.3.1.1 Variance for 2017 Actual vs 2017 Board Approved

14

Table 3.3-A – Distribution Revenue 201	7 Actual vs 2017 Board Approved
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Distribution Revenue	2017 Board Approved	2017 Actual			Variance
Residential	\$ 10,072,166	\$	9,820,752	\$	(251,414)
General Service Less than 50 kW	\$ 1,839,733	\$	1,756,404	\$	(83,328)
General Service 50 to 4,999 kW	\$ 4,621,192	\$	4,795,900	\$	174,709
Street Light	\$ 235,550	\$	225,246	\$	(10,304)
Sentinel Lighting	\$ 52,686	\$	36,597	\$	(16,089)
Unmetered Scattered Load	\$ 78,003	\$	78,962	\$	958
Embedded Distributor	\$ 199,626	\$	155,377	\$	(44,249)
Total	\$ 17,098,955	\$	16,869,238	\$	(229,717)

15

16 Table 3.3-A shows the rate classes Residential and General Service 50 to 4,999 kW (GS>50KW) had a

17 variance above the threshold. The corresponding consumption and demand variance can be seen in

18 Table 3.3-B below. HDD & CDD were 5% and 2% percent lower in 2017 compared to the 10-year

19 average. Residential and GS<50 have a high degree of sensitivity to weather resulting in lower than

20 expected consumption. Additionally, Residential and GS<50 had lower customer connections by -192

- 1 and -42 compared board approved. GS>50 saw an increase of 10 customers which increased power
- 2 demand.
- 3 The remaining rate classes fall below the \$115,000 materiality threshold and are assumed not to be
- 4 weather-sensitive. The street lights and the sentinel lighting rate classes saw reduced customer
- 5 connection levels of -80 and -86, respectively, resulting in lower customer demand. Sentinel lighting also
- 6 saw energy efficiency gains over the period.
- 7

Table 3.3-B – Billing Determinants – 2017 Actual vs. 2017 Board Approved

	Custom	Customers/Connections			Vh	k	W	Volumetric Variance	
	2017 Board Approved	2017 Actual	Variance	2017 Board Approved	2017 Actual	2017 Board Approved	2017 Actual	kWh	kW
Residential	36,433	36,241	(192)	301,593,274	273,448,641	-	-	(28,144,633)	-
General Service Less than 50 kW	2,840	2,798	(42)	103,442,407	96,495,542	-	-	(6,946,865)	-
General Service 50 to 4,999 kW	449	459	10	496,695,575	519,770,271	1,342,821	1,412,721	23,074,696	69,900
Street Light	5,849	5,769	(80)	7,460,329	7,324,649	22,796	22,338	(135,680)	(458)
Sentinel Lighting	597	512	(86)	382,297	186,504	1,155	570	(195,793)	(585)
Unmetered Scattered Load	425	425	(0)	1,405,154	1,524,181	-	-	119,027	-
Embedded Distributor	2	2	-	51,013,084	43,309,246	139,437	107,291	(7,703,838)	(32,146)
Total	46,595	46,205	(391)	961,992,120	942,059,034	1,506,209	1,542,920	(19,933,086)	36,711

9 3.3.1.2 Variance for 2018 Actual vs 2017 Actual

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Table 3.3-C – 2018 Actual vs. 2017 Actual

Distribution Revenue	2	017 Actual	2018 Actual	Variance
Residential	\$	9,820,752	\$ 10,162,519	\$ 341,767
General Service Less than 50 kW	\$	1,756,404	\$ 1,783,967	\$ 27,562
General Service 50 to 4,999 kW	\$	4,795,900	\$ 4,970,426	\$ 174,526
Street Light	\$	225,246	\$ 232,386	\$ 7,140
Sentinel Lighting	\$	36,597	\$ 37,483	\$ 886
Unmetered Scattered Load	\$	78,962	\$ 78,904	\$ (58)
Embedded Distributor	\$	155,377	\$ 140,591	\$ (14,786)
Total	\$	16,869,238	\$ 17,406,276	\$ 537,038

11

12 Table 3.3-C shows the rate classes Residential and General Service 50 to 4,999 kW (GS>50KW) had a

variance above the threshold. The corresponding consumption and demand variance can be seen in 13

Table 3.3-D below. HDD & CDD increased year-over-year by 7% and 49% in 2018. The residential 14

consumption has a high degree of sensitivity to weather resulting in higher than expected consumption 15

16 from the increase in degree days. Additionally, the residential and GS>50 rate classes saw increased

17 customers connections of 280 and 27 customers, respectively, also contributing to higher consumption

18 and demand. The IRM rate increase applicable 2018 also contributed to the increases in revenues. 1 The remaining rate classes fell below the \$115,000 materiality threshold and assumed not to be

2 weather-sensitive.

3

Table 3.3-D – Billing Determinants – 2018 Actual vs. 2017 Actual

	Custom	Customers/Connections			Vh	k	W	Volumetric Variance	
	2017 Actual	2018 Actual	Variance	2017 Actual	2018 Actual	2017 Actual	2018 Actual	kWh	kW
Residential	36,241	36,521	280	273,448,641	301,310,523	-	-	27,861,882	-
General Service Less than 50 kW	2,798	2,804	6	96,495,542	94,728,588	-	-	(1,766,954)	-
General Service 50 to 4,999 kW	459	485	27	519,770,271	535,922,957	1,412,721	1,447,503	16,152,686	34,782
Street Light	5,769	5,771	2	7,324,649	7,191,580	22,338	22,227	(133,069)	(111)
Sentinel Lighting	512	507	(5)	186,504	190,023	570	520	3,519	(50)
Unmetered Scattered Load	425	420	(5)	1,524,181	1,497,429	-	-	(26,752)	-
Embedded Distributor	2	2	-	43,309,246	41,227,723	107,291	95,219	(2,081,523)	(12,072)
Total	46,205	46,510	305	942,059,034	982,068,823	1,542,920	1,565,469	40,009,789	22,549

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5 3.3.1.3 Variance for 2018 Actual vs 2019 Actual

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Table 3.3-E – 2019 Actual vs. 2018 Actual

Distribution Revenue	2	2018 Actual	2019 Actual	Variance
Residential	\$	10,162,519	\$ 10,387,161	\$ 224,643
General Service Less than 50 kW	\$	1,783,967	\$ 1,797,349	\$ 13,382
General Service 50 to 4,999 kW	\$	4,970,426	\$ 5,124,133	\$ 153,707
Street Light	\$	232,386	\$ 235,791	\$ 3,405
Sentinel Lighting	\$	37,483	\$ 37,444	\$ (38)
Unmetered Scattered Load	\$	78,904	\$ 78,544	\$ (361)
Embedded Distributor	\$	140,591	\$ 147,887	\$ 7,295
Total	\$	17,406,276	\$ 17,808,309	\$ 402,033

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8 Table 3.3-E shows Residential and GS>50 were the only rate classes with a variance above the threshold.

9 The corresponding consumption and demand variance can be seen in Table 3.3-F below. The increases

10 were driven by changes in the number of customers and demand as well as the IRM rate increase. The

11 residential and GS>50 rate classes saw increased customer numbers by 212 and 6, respectively.

12 Residential rates changed in 2019 from a fixed plus kWh charge to only being a fixed charge.

13 The remaining rate classes fell below the \$115,000 materiality threshold and assumed not to be

14 weather-sensitive except for GS<50. Street lights had no customer connection changes. Sentinel lighting

and unmetered scattered Load rate classes saw reduced customer connection of 5 and 12, respectively,

16 resulting in lower customer demand and consumption.

	Custom	ers/Conn	ections	kV	/h	k	W	Volumetric Variance	
	2018 Actual	2019 Actual	Variance	2018 Actual	2019 Actual	2018 Actual	2019 Actual	kWh	kW
Residential	36,521	36,733	212	301,310,523	292,180,865	-	-	(9,129,658)	-
General Service Less than 50 kW	2,804	2,834	30	94,728,588	93,124,427	-	-	(1,604,161)	-
General Service 50 to 4,999 kW	485	491	6	535,922,957	544,236,477	1,447,503	1,461,872	8,313,520	14,369
Street Light	5,771	5,771	-	7,191,580	7,147,042	22,227	21,979	(44,538)	(248)
Sentinel Lighting	507	501	(5)	190,023	194,958	520	568	4,935	48
Unmetered Scattered Load	420	408	(12)	1,497,429	1,559,095	-	-	61,666	-
Embedded Distributor	2	2	-	41,227,723	41,261,684	95,219	97,683	33,961	2,464
Total	46,510	46,740	230	982,068,823	979,704,549	1,565,469	1,582,102	(2,364,274)	16,633

Table 3.3-F – Billing Determinants – 2019 Actual vs. 2018 Actual

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4 3.3.1.4 Variance for 2019 Actual vs 2020 Actual

Table 3.3-G – 2020 Actual vs. 2019 Actual

Distribution Revenue	2019 Actual	2020 Actual	Variance
Residential	\$ 10,387,161	\$ 10,725,918	\$ 338,757
General Service Less than 50 kW	\$ 1,797,349	\$ 1,785,321	\$ (12,028)
General Service 50 to 4,999 kW	\$ 5,124,133	\$ 5,187,700	\$ 63,567
Street Light	\$ 235,791	\$ 234,607	\$ (1,184)
Sentinel Lighting	\$ 37,444	\$ 37,473	\$ 29
Unmetered Scattered Load	\$ 78,544	\$ 79,657	\$ 1,114
Embedded Distributor	\$ 147,887	\$ 154,012	\$ 6,125
Total	\$ 17,808,309	\$ 18,204,688	\$ 396,379

6

Table 3.3-G shows only the rate class Residential had a variance above the threshold. The corresponding
 consumption and demand variances can be seen in Table 3.3-H below. The residential class had an

9 increase in customer connections of 344, driving the change in revenues together with the IRM rate

increase for 2020. In 2020 BPI began collecting incremental capital rate rider revenue, however these

11 amounts have been excluded from the table above.

12 The remaining rate classes fell below the \$115,000 materiality threshold and assumed not to be

13 weather-sensitive. Street lights had no customer connection changes. Sentinel lighting saw reduced

14 connections of 6. Unmetered scattered Load rate classes had one additional connection. Street lights,

15 unmetered scattered Load, Sentinel lighting saw energy efficiency gains over the period with a drop in

16 kWh/Customer of 3%, 2%, and 3%, respectively.

	Custom	ers/Conn	ections	k۷	kWh		W	Volumetric Variance	
	2019 Actual	2020 Actual	Variance	2019 Actual	2020 Actual	2019 Actual	2020 Actual	kWh	kW
Residential	36,733	37,077	344	292,180,865	315,774,546	-	-	23,593,681	-
General Service Less than 50 kW	2,834	2,930	96	93,124,427	87,228,067	-	-	(5,896,360)	-
General Service 50 to 4,999 kW	491	493	2	544,236,477	527,515,513	1,461,872	1,439,811	(16,720,965)	(22,061)
Street Light	5,771	5,771	-	7,147,042	6,962,317	21,979	21,543	(184,725)	(435)
Sentinel Lighting	501	495	(6)	194,958	187,739	568	554	(7,219)	(14)
Unmetered Scattered Load	408	409	1	1,559,095	1,510,016	-	-	(49,079)	-
Embedded Distributor	2	2	-	41,261,684	43,029,562	97,683	100,587	1,767,878	2,904
Total	46,740	47,176	437	979,704,549	982,207,759	1,582,102	1,562,495	2,503,210	(19,606)

Table 3.3-H – Billing Determinants – 2020 Actual vs. 2019 Actual

3 3.3.1.5 Variance for 2020 Actual vs 2021 Bridge Year

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Table 3.3-I – 2021 Bridge vs. 2020 Actual

Distribution Revenue	2	2020 Actual	2	021 Bridge	Variance		
Residential	\$	10,725,918	\$	10,919,812	\$ 193,894		
General Service Less than 50 kW	\$	1,785,321	\$	1,769,590	\$ (15,731)		
General Service 50 to 4,999 kW	\$	5,187,700	\$	5,022,801	\$ (164,899)		
Street Light	\$	234,607	\$	243,122	\$ 8,515		
Sentinel Lighting	\$	37,473	\$	12,858	\$ (24,615)		
Unmetered Scattered Load	\$	79,657	\$	80,428	\$ 770		
Embedded Distributor	\$	154,012	\$	159,903	\$ 5,892		
Total	\$	18,204,688	\$	18,208,514	\$ 3,826		

5

6 Table 3.3-I shows the Residential and General Service 50 to 4,999 kW (GS>50KW) rate classes are

7 projected to have a variance above the threshold. The corresponding consumption and demand

8 variance can be seen in Table 3.3-K below, showing an expected decrease in GS>50 kW demand which is

9 driving a decrease in projected revenues for that class. Additionally, the residential and GS>50 rate

10 classes are expected to see an increase in customer connections of 295 and 8. The IRM distribution rate

11 increase in 2021 contributed to the change in revenues.

12 The remaining rate classes fell below the \$115,000 materiality threshold and assumed not to be

13 weather-sensitive except for GS<50.

	Custom	Customers/Connections			kWh		W	Volumetric Variance	
	2020 Actual	2021 Bridge	Variance	2020 Actual	2021 Bridge	2020 Actual	2021 Bridge	kWh	kW
Residential	37,077	37,371	295	315,774,546	281,856,415	-	-	(33,918,131)	-
General Service Less than 50 kW	2,930	2,956	25	87,228,067	76,054,488	-	-	(11,173,579)	-
General Service 50 to 4,999 kW	493	501	8	527,515,513	496,743,331	1,439,811	1,329,482	(30,772,182)	(110,328)
Street Light	5,771	5,771	-	6,962,317	7,357,575	21,543	22,103	395,258	560
Sentinel Lighting	495	485	(10)	187,739	170,250	554	510	(17,488)	(44)
Unmetered Scattered Load	409	405	(3)	1,510,016	1,506,368	-	-	(3,648)	-
Embedded Distributor	2	2	-	43,029,562	43,459,857	100,587	101,593	430,296	1,006
Total	47,176	47,491	315	982,207,759	907,148,284	1,562,495	1,453,688	(75,059,476)	(108,807)

Table 3.3-K – Billing Determinants – 2021 Bridge vs. 2020 Actual

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4 3.3.1.6 Variance for 2021 Bridge Year vs 2022 Test Year

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intunce joi 2021 bridge rear vs 2022 rest rear

Table 3.3-L – 2022 Test (at current rates) vs. 2021 Bridge

Distribution Revenue	2	2021 Bridge	2022 Test (current rts)	Variance
Residential	\$	10,919,812	\$ 11,006,554	\$ 86,742
General Service Less than 50 kW	\$	1,769,590	\$ 1,790,407	\$ 20,817
General Service 50 to 4,999 kW	\$	5,022,801	\$ 5,061,249	\$ 38,447
Street Light	\$	243,122	\$ 248,442	\$ 5,320
Sentinel Lighting	\$	12,858	\$ 34,790	\$ 21,932
Unmetered Scattered Load	\$	80,428	\$ 79,829	\$ (599)
Embedded Distributor	\$	159,903	\$ 161,412	\$ 1,509
Total	\$	18,208,514	\$ 18,382,682	\$ 174,168

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Table 3.3-M – 2022 Test (at proposed rates) vs. 2021 Bridge

Distribution Revenue	2021 Bridge	2022 Test - Proposed	Variance
Residential	\$ 10,919,812	\$ 14,232,489	\$ 3,312,678
General Service Less than 50 kW	\$ 1,769,590	\$ 2,218,670	\$ 449,080
General Service 50 to 4,999 kW	\$ 5,022,801	\$ 5,659,355	\$ 636,554
Street Light	\$ 243,122	\$ 305,942	\$ 62,821
Sentinel Lighting	\$ 12,858	\$ 43,196	\$ 30,338
Unmetered Scattered Load	\$ 80,428	\$ 96,182	\$ 15,754
Embedded Distributor	\$ 159,903	\$ 223,963	\$ 64,060
Total	\$ 18,208,514	\$ 22,779,797	\$ 4,571,283

- Table 3.3-L shows none of the rate classes would have a material variance in 2022 from 2021 if rates
 remain the same. The Residential, GS <50 kW and GS>50KW rate classes would have a variance above
 the threshold at the proposed rates (see Table 3.3-M). The remaining rates classes all are below the
 threshold of \$115,000. The corresponding consumption and demand variance can be seen in Table 3.3-N
 below. The variance is as a result of the rate changes combined with estimated higher consumption
 resulting from the forecast.
- 7

Table 3.3-N – Billing Determinants – 2022 Test vs. 2021 Bridge

	Custom	ers/Conn	ections	k۷	Vh	k	W	Volumetric V	ariance
	2021 Bridge	2022 Test	Variance	2021 Bridge	2022 Test	2021 Bridge	2022 Test	kWh	kW
Residential	37,371	37,668	297	281,856,415	293,509,087	-	-	11,652,672	-
General Service Less than 50 kW	2,956	2,981	26	76,054,488	77,363,528	-	-	1,309,040	-
General Service 50 to 4,999 kW	501	509	8	496,743,331	503,997,167	1,329,482	1,348,962	7,253,836	19,480
Street Light	5,771	5,771	-	7,357,575	7,775,272	22,103	22,948	417,697	845
Sentinel Lighting	485	476	(9)	170,250	154,391	510	462	(15,859)	(48)
Unmetered Scattered Load	405	402	(3)	1,506,368	1,502,728	-	-	(3,639)	-
Embedded Distributor	2	2	-	43,459,857	43,894,456	101,593	102,609	434,599	1,016
Total	47,491	47,809	318	907,148,284	928,196,629	1,453,688	1,474,981	21,048,345	21,293

8

9 3.4 Other Revenue

10 3.4.1 Variance Analysis of Other Revenue

11 Table 3.4-A below is Appendix 2-H-Other Operating Revenue.

		Ар	pendix 2-	н									
	Other	Ор	erating R	ev	enue								
USoA #	USoA Description	2	017 Actual ²	2	018 Actual ²	2	2019 Actual ²	:	2020 Actual	В	Bridge Year	T	est Year
			2017		2018		2019		2020		2021		2022
	Reporting Basis		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS
4235	Specific Service Charges	-\$	356,655	-\$	335,683	-\$	603,136	-\$	640,437	-\$	625,825	-\$	188,127
4225	Late Payment Charges	-\$	281,546	-\$	235,598	-\$	326,283	-\$	359,302	-\$	336,598	-\$	341,499
4082	Retail Services Revenues	-\$	16,290	-\$	11,859	-\$	10,828	-\$	8,789	-\$	29,641	-\$	28,042
4086	SSS Revenue	-\$	115,299	-\$	117,154	-\$	117,891	-\$	121,153	-\$	125,287	-\$	126,691
4084	Service Tax Requests	-\$	7,072	-\$	5,125	-\$	5,624	-\$	6,057	-\$	673	-\$	637
4090	Electric Services Incidental to Energy Sales	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4205	Interdepartmental Rents	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4210	Rent from Electic Property	-\$	113,253	-\$	123,556	-\$	147,806	-\$	259,429	-\$	239,773	-\$	420,792
4215	Other Utility Operating Income	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4220	Other Electric Revenues	-\$	90	\$	180	-\$	34,270	-\$	14,733	\$	-	\$	-
4240	Provision for Rate Refunds	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4245	Government Assistance Directly Credited to Income	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4305	Regulatory Debits	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4310	Regulatory Credits	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4315	Revenues from Electric Plant Leased to Others	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4320	Expenses of Electric Plant Leased to Others	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4325	Revenues from Merchandise, Jobbing, Etc.	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4330	Costs and Expenses of Merchandising, Jobbing, Etc	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4335	Profits and Losses from Financial Instrument Hedges	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4340	Profits and Losses from Financial Instrument Investments	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4345	Gains from Disposition of Future Use Utility Plant	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4350	Losses from Disposition of Future Use Utility Plant	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4355	Gain on Disposition of Utility and Other Property	\$	60,527	\$	213,961	\$	110,195	\$	289,331	\$	199,944	\$	178,900
4360	Loss on Disposition of Utility and Other Property	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4362		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4365	Gains from Disposition of Allowances for Emission	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4370	Losses from Disposition of Allowances for Emission	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4375	Revenues from Non-Utility Operations	-\$	1,631,477	-\$	1,929,363	-\$	1,864,026	-\$	1,144,322	-\$	4,333,149	-\$	822,068
4380	Expenses from Non-Utility Operations	\$	1,673,837	\$	1,912,722	\$	2,243,845	\$	1,156,985	\$	4,211,035	\$	789,852
4385	Expenses of Non-Utility Operations	\$	-	\$	-	\$	-	\$	-	\$		\$	-
4390	Miscellaneous Non-Operating Income	-\$	130,030	-\$	45,905	-\$	28,357	-\$	34,795	-\$	6,542	\$	-
4395	Rate-Payer Benefit Including Interest	\$	-	\$	-	\$	-	\$	-	\$		\$	-
4398	Foreign Exchange Gains and Losses, Including Amortization	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4405	Interest and Dividend Income	-\$	163,612	-\$	316,999	-\$	288,258	-\$	96,066	-\$	99,315	-\$	107,928
4415	Equity in Earnings of Subsidiary Companies	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
4420													
		-											
Specific C	vice Charges	-\$	356,655	ć	335,683	-\$	603,136	ć	640,437	ć	625,825	ć	188,127
Specific Ser	vice Charges	-\$ -\$,	-\$ -\$	235,598	-\$ -\$	326,283	-\$ -\$	359,302	-\$ -\$	336,598	-\$ -\$	341.499
	ating Revenues	· ·	-\$252,003.75		-\$257,512.94	->	-\$316,418.86	· ·	-\$410,161.08	· ·	-\$395,374.04		341,499
	ating Revenues		-\$252,003.75 -\$190,755.14		-\$257,512.94 -\$165,583.52		\$173,399.17		\$171,132.76	-	-\$395,374.04 -\$28,026.86		38,756.02
		-		_		ć		ć	. ,	ć		_	
Total		-\$	1,080,960	-\$	994,377	-\$	1,072,439	-\$	1,238,768	-\$	1,385,823	->	1,067,032

Table 3.4-A – Appendix 2-H- Other Operating Revenue

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Account 4235 - Specific Service Charges												
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		020 Actual	В	ridge Year	•	Fest Year
		2017		2018		2019		2020		2021		2022
Reporting Basis												
FIELD COLLECTION CHARGE	-\$	169,765	-\$	160,466	-\$	64,016	\$	-	\$	-	\$	-
RECONNECT AT METER - RE/AF/REG/AFT	-\$	13,865	-\$	8,285	-\$	3,477	-\$	6,320	-\$	8,453	-\$	8,453
TEMPORARY OVERHEAD CHAR	-\$	2,500	\$	-	-\$	2,000	-\$	4,000	-\$	1,500	-\$	1,500
ARREARS CERTIFICATE REV	-\$	213	-\$	330	-\$	90	-\$	360	-\$	211	-\$	211
CREDIT CHECK FEE/RETURNED CHEQUE CH	-\$	6,586	-\$	6,543	-\$	6,243	-\$	4,920	-\$	6,457	-\$	6,457
NEW ACCOUNT SET UP FEE	-\$	156,800	-\$	150,690	-\$	141,135	-\$	173,995	-\$	159,542	-\$	162,732
MFIT SERVICE CHARGES	-\$	6,927	-\$	9,369	-\$	10,022	-\$	9,953	-\$	8,773	-\$	8,773
REG MVNT - FIELD COLLECTION CHARGE			\$	-	-\$	376,153	-\$	440,889	-\$	440,889	\$	-
Total	-\$	356,655	-\$	335,683	-\$	603,136	-\$	640,437	-\$	625,825	-\$	188,127

Account 4225 - Late Payment Charges	200	7 4 -411-12	204		20				D	idee Veer	. .	ant Vaar
	20					19 Actual ²	20	020 Actual	Br	idge Year	- 10	est Year
		2017		2018		2019		2020		2021		2022
Reporting Basis	-1	63612.23	-3	16998.89	-2	288257.59	-	96065.67	-9	9315.165	-10	7927.938
LATE PAYMENT REVENUE - CIS	-\$	281,546	-\$	235,598	-\$	326,283	-\$	359,302	-\$	336,598	-\$	341,499
LATE PAYMENT REVENUE - OTHER	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Total	-\$	281,546	-\$	235,598	-\$	326,283	-\$	359,302	-\$	336,598	-\$	341,499

4082 - Retail Services Revenues												
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		020 Actual	Bridge Year		•	Test Year
		2017		2018		2019		2020	2021			2022
Reporting Basis												
ONE-TIME CHARGE - NEW RETAILER	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
MONTHLY FIXED CHARGE	-\$	4,080	-\$	4,080	-\$	6,520	-\$	6,924	-\$	6,554	-\$	6,200
MONTHLY VARIABLE CHARGE	-\$	12,345	-\$	10,305	-\$	14,926	-\$	15,581	-\$	14,465	-\$	13,685
DCBR MONTHLY CHARGE	-\$	7,048	-\$	5,879	-\$	8,795	-\$	9,306	-\$	8,622	-\$	8,157
REGULATORY MOVEMENT - RSVA ADJUSTN	\$	7,183	\$	8,405	\$	19,412	\$	23,022	\$	-	\$	-
Total	-\$	16,290	-\$	11,859	-\$	10,828	-\$	8,789	-\$	29,641	-\$	28,042

Account 4086 - SSS Revenue												
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		2020 Actual		ridge Year		Test Year
		2017		2018		2019		2020		2021		2022
Reporting Basis		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS		MIFRS
SSS ADMIN - RESIDENTIAL	-\$	103,585	-\$	105,353	-\$	106,197	-\$	109,402	-\$	112,533	-\$	113,830
SSS ADMIN - GS <50KW	-\$	7,795	-\$	7,814	-\$	7,783	-\$	7,807	-\$	8,499	-\$	8,535
SSS ADMIN - UMETERED	-\$	1,273	-\$	1,261	-\$	1,224	-\$	1,231	-\$	1,228	-\$	1,218
SSS ADMIN - GS >50KW	-\$	1,113	-\$	1,184	-\$	1,141	-\$	1,181	-\$	1,509	-\$	1,542
SSS ADMIN - STREET LIGHTING	-\$	3	-\$	3	-\$	3	-\$	3	-\$	3	-\$	3
SSS ADMIN - SENTINEL LIGHTI	-\$	1,529	-\$	1,539	-\$	1,504	-\$	1,471	-\$	1,515	-\$	1,563
SSS ADMIN - CLASS A	\$	-	\$	-	-\$	40	-\$	57	\$	-	\$	-
Total	-\$	115,299	-\$	117,154	-\$	117,891	-\$	121,153	-\$	125,287	-\$	126,691

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Account 4084 - Service Tax Requests												
	20	17 Actual ²	20	2018 Actual ²)19 Actual ²	2	020 Actual	В	ridge Year	•	Test Year
		2017		2018		2019		2020		2021		2022
Reporting Basis												
RCVA REVENUE - STR - REQUEST FEE	-\$	158	-\$	115	-\$	213	-\$	265	-\$	310	-\$	293
RCVA REVENUE - STR - ACCEPT FEE	-\$	211	-\$	164	-\$	349	-\$	314	-\$	363	-\$	343
REGULATORY MOVEMENT - RSVA ADJUSTN	-\$	6,704	-\$	4,846	-\$	5,063	-\$	5,479	\$	-	\$	-
Total	-\$	7,072	-\$	5,125	-\$	5,624	-\$	6,057	-\$	673	-\$	637

Account 4210 - Rent from Electric Property

	201	2017 Actual ²		2018 Actual ²		19 Actual ²	2	020 Actual	В	ridge Year	Т	est Year
		2017		2018		2019		2020		2021		2022
Reporting Basis					-	376152.9		-440889		-440889		
Pole Rental Revenues Other	-\$	65,290	-\$	74,565	-\$	96,848	-\$	208,002	-\$	189,368	-\$	320,385
Pole Rental Revenues Affiliates	-\$	47,963	-\$	48,991	-\$	50,958	-\$	51,427	-\$	50,405	-\$	100,407
-		440.050	^	400 550	•	1 17 000	•	050.400	•	000 770	•	100 700
Total	-\$	113,253	-\$	123,556	-\$	147,806	-\$	259,429	-\$	239,773	-\$	420,792

Account 4220 - Other Electric Revenues												
	2017	Actual ²	201	8 Actual ²	20	19 Actual ²	20	20 Actual	Br	idge Year	T	est Year
	2	2017		2018		2019		2020		2021		2022
Reporting Basis												
OCCUPANCY/COLLECTION REVENUE	-\$	90	\$	180	-\$	3,655	\$	-	\$	-	\$	-
OTHER ELEC REV	\$	-	\$	-	-\$	30,615	-\$	14,733	\$	-	\$	-
	_											
Total	-\$	90	\$	180	-\$	34,270	-\$	14,733	\$	-	\$	-

Account 4355 - Gain on Disposition of Utili	Ŋ											
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		20 Actual	Bridge Year		Т	est Year
		2017		2018		2019		2020		2021		2022
Reporting Basis												
PROCEEDS ON DISPOSAL OF ASSETS	-\$	55,000	-\$	9,000	-\$	63,746	-\$	41,783	\$	-	\$	-
NBV OF DISPOSED ASSETS	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
NBV OF DISPOSED ASSETS.FINANCE	\$	115,527	\$	222,961	\$	173,941	\$	331,113	\$	199,944	\$	178,900
	-											
Total	\$	60,527	\$	213,961	\$	110,195	\$	289,331	\$	199,944	\$	178,900

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Account 4375 - Revenues from Non-Utility	C												
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		2020 Actual		Bridge Year		Test Year	
		2017		2018		2019		2020		2021		2022	
Reporting Basis													
Affiliate Management Fees	-\$	254,673	-\$	193,688	-\$	245,124	-\$	218,636	-\$	206,837	-\$	195,240	
CDM Bonus	-\$	1,376,804	-\$	1,690,308	-\$	1,553,047	-\$	304,847	-\$	3,465,893	\$	-	
Affordability Fund Trust	\$	-	-\$	45,367	-\$	65,854	\$	49,235	\$	-	\$	-	
Gain On Non-Utility Property	\$	-	\$	-	\$	-	-\$	649,992	\$	-	\$	-	
Affiliate Rental							-\$	28,625	-\$	31,674	-\$	39,277	
New Building Rental Income- Non-Utility	\$	-	\$	-	\$	-	\$	8,543	-\$	628,745	-\$	587,551	
Total	-\$	1,631,477	-\$	1,929,363	-\$	1,864,026	-\$	1,144,322	-\$	4,333,149	-\$	822,068	

Δ	account 4380	- Exnenses	from N	lon-Litility	10

			r –		1 1					1			
	20	2017 Actual ²		2018 Actual ²		2019 Actual ²		2020 Actual		Bridge Year		Test Year	
		2017		2018		2019		2020		2021		2022	
Reporting Basis													
BEC Management Fees	\$	97,910	\$	93,422	\$	214,302	\$	279,356	\$	-	\$	-	
Affiliate Allocations	\$	268,119	\$	138,492	\$	129,492	\$	180,563	\$	182,030	\$	195,458	
CDM Bonus	\$	1,307,807	\$	1,643,957	\$	1,675,071	\$	287,859	\$	3,468,586	\$	2,475	
Affordability Trust	\$	-	\$	30,570	\$	10,403	\$	12,529	\$	-	\$	-	
New Building Operational Cost- Non-Utility	\$	-	\$	6,280	\$	214,577	\$	396,678	\$	560,419	\$	591,918	
Total	\$	1,673,837	\$	1,912,722	\$	2,243,845	\$	1,156,985	\$	4,211,035	\$	789,852	

Account 4390 - Miscellaneous Non-Operatin												
	20 ²	2017 Actual ²		2018 Actual ²		2019 Actual ²		2020 Actual		Bridge Year		Fest Year
		2017		2018		2019		2020		2021		2022
Reporting Basis												
Sales of Scrap	-\$	36,175	-\$	2,501	-\$	9,126	-\$	20,491	\$	-	\$	-
DERIVATIVE GAIN/LOSS	-\$	93,421	-\$	42,125	-\$	19,230	-\$	14,304	-\$	6,542	\$	-
Other	-\$	434	-\$	1,279	\$	-	\$	-	\$	-	\$	-
Total	-\$	130,030	-\$	45,905	-\$	28,357	-\$	34,795	-\$	6,542	\$	-

Account 4405 - Interest and Dividend Incon

	201	2017 Actual ²		2018 Actual ²		2019 Actual ²		2020 Actual		Bridge Year		est Year
	2017		2018		2019		2020		2021		2022	
Reporting Basis												
Interest income on Bank Balance	-\$	163,612	-\$	316,999	-\$	288,258	-\$	96,066	-\$	99,315	-\$	107,928
Total	-\$	163,612	-\$	316,999	-\$	288,258	-\$	96,066	-\$	99,315	-\$	107,928

1

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1 Table 3.4-B below provides the variances on the Other Revenue included in BPI's Operating Revenue.

2

Table 3.4-B – Total Oth	er Revenue
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USoA #	USoA Description	Actual Year	Actual Year	Variance	Actual Year	Variance	Actual Year	Variance	Bridge Year	Variance	Test Year	Variance
				2018 vs		2019 vs		2020 vs		2021Bridge vs		2022Test vs
		2017	2018	2017	2019	2018	2020	2019	2021	2020	2022	2021 Bridge
	Reporting Basis	MIFRS	MIFRS		MIFRS		MIFRS		MIFRS		MIFRS	
4235	Specific Service Charges	(356.655)	(335,683)	20.972	(603, 136)	(267,452)	(640,437)	(37,301)	(625,825)	14,612	(188,127)	437,698
4225	Late Payment Charges	(281.546)	(235,598)	45,948	(326,283)	(90,686)	(359,302)	(33.019)	(336,598)	22,705	(341,499)	(4.902)
4086	SSS Revenue	(115,299)	(117,154)		(117,891)	(,	(121,153)	(3,262)	(125,287)	(4,135)	(126,691)	(1,404)
4082	Retail Services Revenues	(16,290)	(11,859)	4,431	(10,828)	1,030	(8,789)	2,039	(29,641)	(20,851)	(28,042)	1,598
4084	Service Tax Requests	(7,072)	(5,125)	1,947	(5,624)	(500)	(6,057)	(432)	(673)	5,384	(637)	36
4090	Electric Services Incidental to Energy Sales	-	-		-	-	-	-	-	-	-	-
4205	Interdepartmental Rents	-	-	-	-	-	-	-	-	-	-	-
4210	Rent from Electic Property	(113,253)	(123,556)	(10,303)	(147,806)	(24,250)	(259,429)	(111,624)	(239,773)	19,656	(420,792)	(181,019)
4215	Other Utility Operating Income	-	-	-	-	-	-	-	-	-	-	-
4220	Other Electric Revenues	(90)	180	270	(34,270)	(34,450)	(14,733)	19,537	-	14,733	-	-
4240	Provision for Rate Refunds	-	-	-	-	-	-	-	-	-	-	-
4245	Government Assistance Directly Credited to Income	-	-		-	-		-	-	-	-	-
4305	Regulatory Debits	-	-	-		-	-	-	-	-	-	-
4310	Regulatory Credits	-	-		-	-	-	-	-	-	-	-
4315	Revenues from Electric Plant Leased to Others	-		-	-		-	-		-	-	-
4320	Expenses of Electric Plant Leased to Others	-	-		-	-	-	-	-	-	-	-
4325	Revenues from Merchandise, Jobbing, Etc.	-	-	-	-	-		-	-	-	-	-
4330	Costs and Expenses of Merchandising, Jobbing, Etc	-	-	-	-	-		-		-	-	-
4335	Profits and Losses from Financial Instrument Hedges	-	-	-	-	-		-	-	-	-	-
4340	Profits and Losses from Financial Instrument Investments	-	-	-	-	-		-	-	-	-	-
4345	Gains from Disposition of Future Use Utility Plant	-	-	-	-	-	-	-	-	-	-	-
4350	Losses from Disposition of Future Use Utility Plant	-	-	-	-	-		-	-	-	-	-
4355	Gain on Disposition of Utility and Other Property	60,527	213,961	153,433	110,195	(103,766)	289,331	179,136	199,944	(89,387)	178,900	(21,044)
4360	Loss on Disposition of Utility and Other Property	-	-	-	-	-	-	-	-	-	-	-
4365	Gains from Disposition of Allowances for Emission	-	-	-	-	-		-	-	-	-	-
4370	Losses from Disposition of Allowances for Emission	-	-	-	-	-	-	-	-	-	-	-
4375	Revenues from Non-Utility Operations	(1,631,477)	(1,929,363)	(297,886)	(1,864,026)	65,337	(1,144,322)	719,704	(4,333,149)	(3,188,827)	(822,068)	3,511,081
4380	Expenses from Non-Utility Operations	1,673,837	1,912,722	238,885	2,243,845	331,123	1,156,985	(1,086,860)	4,211,035	3,054,050	789,852	(3,421,183)
4385	Expenses of Non-Utility Operations	-	-	-	-	-	-	-	-	-	-	-
4390	Miscellaneous Non-Operating Income	(130,030)	(45,905)	84,125	(28,357)	17,548	(34,795)	(6,438)	(6,542)	28,253	-	6,542
4395	Rate-Payer Benefit Including Interest	-	-	-	-	-	-	-	-	-	-	-
4398	Foreign Exchange Gains and Losses, Including Amortization	-	-	-	-	-	-	-	-	-	-	-
4405	Interest and Dividend Income	(163,612)	(316,999)	(153,387)	(288,258)	28,741	(96,066)	192,192	(99,315)	(3,249)	(107,928)	(8,613)
4415	Equity in Earnings of Subsidiary Companies	-	-	-	-	-	· · ·	-	-	-	-	-
Specific Se	ervice Charges	(356.655)	(335,683)		(603,136)		(640,437)		(625,825)		(188,127)	
	ent Charges	(281,546)	(235,598)		(326,283)		(359,302)		(336,598)		(341,499)	
	rating Revenues	(252,004)	(257,513)		(316,419)		(410,161)		(395,374)		(576,162)	
	me or Deductions	(190,755)	(165,584)		173.399		171.133		(28.027)		38,756	
Total		(1,080,960)	(994,377)		(1,072,439)		(1,238,768)		(1,385,823)		(1,067,032)	

3

- 4 Each variance above the materiality threshold of \$115,000 as calculated in Exhibit 1 is highlighted in
- 5 gray and an explanation for the variance is provided below.
- 6

Table 3.4-C - Variances in Other Revenue - 2017 Actual vs. 2018 Actual

USoA #	USoA Description	Actual Year	Actual Year	Variance 2018
		2017	2018	vs 2017
	Reporting Basis	MIFRS	MIFRS	
4355	Gain on Disposition of Utility and Other Property	60,527	213,961	153,433
4375	Revenues from Non-Utility Operations	(1,631,477)	(1,929,363)	(297,886)
4380	Expenses from Non-Utility Operations	1,673,837	1,912,722	238,885
4405	Interest and Dividend Income	(163,612)	(316,999)	(153,387)

7

8 The variance in 4355 is related to a higher level of net loss on early disposals recorded in 2018 compared

9 to 2017. The overall level of early disposals was higher in 2018, and the offsetting proceeds on disposal

10 were also lower in 2019.

- 1 The variance in 4375 was driven by higher CDM activity in 2018, compared to 2017 as well as the
- 2 introduction of the affordability fund trust. Revenues from affiliates decreased by a non-material
- 3 amount.
- 4 The variance in 4380 was driven by higher CDM activity in 2018, compared to 2017 as well as the
- 5 introduction of the affordability fund trust. Costs from affiliates decreased by a non-material amount.
- 6 BPI notes that the BEC Management Fees recorded in Expenses from Non-Utility Operations are costs
- 7 incurred from BEC for Management services provided to BPI, rather than costs incurred in BPI for BEC
- 8 with no offsetting revenue collected.
- 9 Interest income from bank balances increased in 2018 over 2017 levels.
- 10

Table 3.4-D - Variances in Other Revenue - 2018 Actual vs. 2019 Actual

USoA #	USoA Description	Actual Year	Actual Year	Variance 2019
		2018	2019	vs 2018
	Reporting Basis	MIFRS	MIFRS	
4235	Specific Service Charges	(335,683)	(603,136)	(267,452)
4380	Expenses from Non-Utility Operations	1,912,722	2,243,845	331,123

11

12 Specific Service charges increased in 2019 compared to 2018. This increase was driven by the inclusion

13 of "regulatory movement" or the offsetting entry for the Collection of Account DVA. In reality, the

specific service charges collected from customers decreased by 108k, as a result of the full elimination of

15 the Collection of Account charge partway through 2019.

16 Expenses from non-utility operations increased in 2019 as a result of booking OM&A expenses allocated

17 to the non-regulated portions of the building to this account. BPI purchased its new facility in 2019. BPI

18 notes there is no offsetting entry included in 4375 because BPI did not have any tenants and therefore

19 did not collect any lease/rental revenue in 2019.

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USoA #	USoA Description	Actual Year	Actual Year	Variance 2020
		2019	2020	vs 2019
	Reporting Basis	MIFRS	MIFRS	
4355	Gain on Disposition of Utility and Other Property	110,195	289,331	179,136
4375	Revenues from Non-Utility Operations	(1,864,026)	(1,144,322)	719,704
4380	Expenses from Non-Utility Operations	2,243,845	1,156,985	(1,086,860)
4405	Interest and Dividend Income	(288,258)	(96,066)	192,192

Table 3.4-E - Variances in Other Revenue - 2019 Actual vs. 2020 Actual

2

1

4355 increased in 2020 as a result of higher early asset disposals. Revenues from Non Utility Operations
were reduced compared to the prior year due to lower CDM activity. In 2020, BPI recorded a gain on
non-utility property following the sale of its Garden Avenue property. BPI notes this property was never
funded through rates. Expenses from Non-Utility Operations decreased in 2020, driven by a decrease in
CDM activity. Non-Utility facility costs increased in 2020 as BPI owned the facility for the entire year,
and the building became occupied, increasing operating costs as compared to a vacant building in 2019.

- 9 Interest and dividend income decreased as a result of lower bank interest. BPI notes that it began to
- 10 collect offsetting rent for its new facility in 2020 (though this did not represent a material amount).
- 11

Table 3.4-F - Variances in Other Revenue - 2020 Actual Year vs. 2021 Bridge

USoA #	USoA Description	Actual Year	Bridge Year	Variance 2021Bridge vs
		2020	2021	2020
	Reporting Basis	MIFRS	MIFRS	
4375	Revenues from Non-Utility Operations	(1,144,322)	(4,333,149)	(3,188,827)
4380	Expenses from Non-Utility Operations	1,156,985	4,211,035	3,054,050

12

13 Revenues from Non Utility Operations are projected to increase as a result of anticipated final CDM

bonuses and incentives in 2021. BPI will also collect a projected 630k in rental income in 2021.

15 Expenses from Non Utility Operations are expected to increase in 2020 related to CDM incentives paid.

16 BPI also expects a further increase in facility OM&A costs allocated as non-utility.

17

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1

2

Table 3.4-F - Variances in Other Revenue -	2021 Bridge Year vs. 2022 Test
--	--------------------------------

USoA #	USoA Description	Bridge Year	Test Year	Variance		
		2021	2022	2022Test vs 2021 Bridge		
	Reporting Basis	MIFRS	MIFRS			
4235	Specific Service Charges	(625,825)	(188,127)	437,698		
4210	Rent from Electic Property	(239,773)	(420,792)	(181,019)		
4375	Revenues from Non-Utility Operations	(4,333,149)	(822,068)	3,511,081		
4380	Expenses from Non-Utility Operations	4,211,035	789,852	(3,421,183)		

3

4 Specific Service Charge revenue is shown as decreasing in 2022, however this is related to the 5 elimination of the "regulatory movement" line associated with the Lost Revenues- Collection of 6 Accounts DVA. The DVA regulatory movement is not expected to continue into 2022, as the Test Year will result in the discontinuation of the DVA as distribution rates are rebased to reflect the elimination of 7 8 this charge. Similarly, Account 4210, Rent from Electric Property, will increase as a result of BPI 9 recording pole rental revenue at the updated rates, and the elimination of the requirement to book only 10 the revenues associated with 2017 pole rental rates, with the remainder being recorded in a DVA. BPI 11 notes it has projected pole rental revenue based on current rates on its tariff schedule. Should an 12 unexpected adjustment be made to the pole rental rates, BPI has requested the continuation of the pole 13 rental DVA. 14 The reduction to 4375 is the result of reduced expected CDM incentives and bonuses. BPI has included

the revenues to offset the components of the OM&A facilities budget which have been allocated as non affiliate. There is a small discrepancy between the amounts in 4375 and 4380 to reflect the amount of

17 \$6,966 to be collected as "Emergency Operations Centre" payments. BPI will provide this temporary

service to the City of Brantford Emergency Services and has included the revenue collected as revenueoffset.

20 The reduction in 4380 is the result of reduced expected CDM incentives and bonuses. BPI has included

21 the components of the OM&A facilities budget which have been allocated as non-affiliate.

- 1 BPI has not included "capital rent" paid by its tenants in the revenue offsets. BPI has already made
- 2 adjustments to remove the capital components of the non-utility portion of the building from rate base,
- 3 amortization expense and PILS for rate setting purposes, so to include the capital rent in revenue offsets
- 4 would result in a "double counting" effect on rates. BPI notes this treatment is consistent with the
- 5 proposals included in its ICM.

6 3.4.1 Service Changes of Other Revenue

- 7 BPI is not requesting any new proposed specific service charges, or proposed changes to rates or
- 8 application of existing specific service charges.

9 3.5 Other Rate Changes

- 10 BPI has not proposed any charges to other rates and charges, and therefore no discrete customer
- 11 groups are expected to be impacted by such changes.

12 **3.6 Affiliate Transactions**

- 13 Please refer to Appendix 2-N for a listing of revenue from affiliate transactions, shared services,
- 14 corporate cost allocation. For each affiliate transaction, identification of the service, the nature of the
- 15 service provided to affiliate entities, accounts used to record the revenue and associated costs
- 16 (Appendix 2-N). Please also see the discussion and variance analysis provided in Exhibit 4, section 4.3.2.

17 List of Attachments

- 18 Attachment 3-A Monthly Data used in Regression Model
- 19 Attachment 3-B Appendix 2-IB- Load Forecast
- 20 Attachment 3-C Appendix 2-I-LF_CDM
- 21

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Attachment 3-A

Regression Model (Data and Results)

Brantford Power Weather

Normal Load Forecast for

2022 Rate Application

Actual kWh Purchases	2010 Actual 950,759,113	2011 Actual 944,902,732	2012 Actual 964,379,231	2013 Actual 961,335,479	2014 Actual 913,546,785	2015 Actual 920,489,867	2016 Actual 928,717,585	2017 Actual 914,942,349	2018 Actual 965.883.912	2019 Actual 959,330,221	2020 Actual 961.031.703	2021 Weather Normal, CDM Adjusted	2022 Weather Normal, CDM Adjusted
Predicted kWh Purchases % Difference	960,319,810 1.0%	958,844,382 1.5%	950,666,119 -1.4%	927,029,805 -3.6%	918,015,075 0.5%	924,465,660 0.4%	950,199,934 2.3%	914,942,349 927,473,628 1.4%	962,401,471 -0.4%	939,330,221 944,871,387 -1.5%	901,031,703 917,239,284 -4.6%	881,577,393	902,766,029
Billed kWh	917,169,662	919,260,512	936,319,334	926,349,236	889,619,639	904,891,892	909,331,461	892,260,753	934,510,743	932,356,870	933,148,230 Change from	857,658,459	878,272,205
By Class Residential Customers kWh	34,256 287,357,342	34,643 291,380,972	34,938 287,058,174	35,226 282,501,947	35,479 282,925,750	35,744 287,594,336	36,043 291,787,861	36,241 273,448,641	36,521 301,310,523	36,733 292,180,865	2019 37,077 315,774,546	-8.01% 37,371 281,856,415	-5.80% 37,668 293,509,087
GS<50 Customers kWh	2,688 98,691,975	2,709 99,001,655	2,728 100,340,238	2,749 99,838,335	2,772 99,356,580	2,784 100,078,635	2,792 99,573,959	2,798 96,495,542	2,804 94,728,588	2,834 93,124,427	2,930 87,228,067	2,956 76,054,488	2,981 77,363,528
GS>50 (excl. WMP) Customers kWh kW	417 521,725,747 1,323,482	421 519,515,098 1,344,251	419 539,521,215 1,398,784	424 534,621,114 1,395,148	432 497,985,709 1,368,652	438 507,886,846 1,388,241	452 508,774,431 1,378,958	457 513,281,236 1,400,391	483 529,592,600 1,435,245	489 538,150,482 1,450,909	491 521,485,545 1,428,137	499 490,713,363 1,317,808	507 497,967,199 1,337,288
Embedded Distributor Customers kWh kW	3.00 0 158,115	3.00 0 156,839	3.00 0 153,310	3.00 0 159,286	3.00 0 164,324	3.00 0 142,203	2.00 65,359,955 136,187	2.00 43,309,246 107,291	2.00 41,227,723 95,219	2.00 41,261,684 97,683	2.00 43,029,562 100,587	2 43,459,857 101,593	2 43,894,456 102,609
Sentinels Connections kWh kW	603 480,615 1,534	621 475,427 1,487	625 459,394 1,392	625 448,778 1,385	622 445,147 1,361	619 446,247 1,363	551 314,139 923	512 186,504 570	507 190,023 520	501 194,958 568	495 187,739 554	485 170,250 510	476 154,391 462
Streetlights Connections kWh kW	9,953 7,354,351 22,480	9,988 7,330,830 22,428	10,134 7,395,374 22,533	10,232 7,386,717 22,581	10,392 7,378,259 22,553	10,632 7,369,714 22,527	10,229 7,368,093 22,444	5,769 7,324,649 22,338	5,771 7,191,580 22,227	5,771 7,147,042 21,979	5,771 6,962,317 21,543	5,771 7,357,575 22,103	5,771 7,775,272 22,948
USL Connections kWh	446 1,559,632	446 1,556,530	443 1,544,939	438 1,552,345	434 1,528,194	431 1,516,114	427 1,512,978	425 1,524,181	420 1,497,429	408 1,559,095	409 1,510,016	405 1,506,368	402 1,502,728
Wholesale Market Participants Connections kWh kW		0	2 0 3,486.38	2 0 13,589.76	2 0 12,736.70	2 6,792,378 12,397.70	2 6,607,289 12,437.30	2 6,489,035 12,330.00	2 6,330,357 12,258.00	2 6,085,995 10,962.46	2 6,029,968 11,674.01	2 6,029,968 11,674	2 6,029,968 11,674
Total of Above Customer/Connections kWh kW from applicable classes	48,365 917,169,662 1,505,612	48,830 919,260,512 1,525,006	49,292 936,319,334 1,579,506	49,696 926,349,236 1,591,990	50,135 889,619,639 1,569,627	50,651 911,684,270 1,566,733	50,498 981,298,705 1,550,950	46,205 942,059,034 1,542,920	46,510 982,068,823 1,565,469	46,740 979,704,549 1,582,102	47,176 982,207,759 1,562,495	47,491 907,148,284 1,453,688	47,809 928,196,629 1,474,981
Less: Total from Model Customer/Connections kWh kW from applicable classes	48,362 917,169,662 1,347,497	48,827 919,260,512 1,368,166	49,287 936,319,334 1,422,709	49,691 926,349,236 1,419,114	50,130 889,619,639 1,392,566	50,646 904,891,892 1,412,132	50,494 909,331,461 1,402,325	46,201 892,260,753 1,423,299	46,506 934,510,743 1,457,992	46,736 932,356,870 1,473,456	47,172 933,148,230 1,450,234	857,658,459	47,805 878,272,205 1,360,699
Less: Embedded +WMP Customer/Connections kWh kW from applicable classes	3.00 - 158,115.16	3.00 - 156,839.26	5.00 - 156,796.84	5.00 - 172,875.47	5.00 - 177,061.14	5.00 6,792,377.60 154,601.12	4.00 71,967,244.00 148,624.50	4.00 49,798,281.00 119,621.00	4.00 47,558,080.00 107,476.60	4.00 47,347,679.01 108,645.51	4.00 49,059,529.37 112,260.93	4 49,489,825 113,267	4 49,924,424 114,283
Check should all be zero Customer/Connections kWh kW from applicable classes	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	:	-						
GS>50 with WMP Connections kWh kW	417 521,725,747 1,323,482	421 519,515,098 1,344,251	421 539,521,215 1,402,270	426 534,621,114 1,408,738	434 497,985,709 1,381,389	440 514,679,224 1,400,639	454 515,381,720 1,391,396	459 519,770,271 1,412,721	485 535,922,957 1,447,503	491 544,236,477 1,461,872	493 527,515,513 1,439,811	501 496,743,331 1,329,482	509 503,997,167 1,348,962

	*detail from the YoY RRR summary															
р	Purchases	Modeled Purchases	Difference	% Difference	Loss Factor	Total Billed	Residential	GS<50	GS>50 (excl. WMP)	Sentinels	Streetlights	USL				
	her Normal Project		Difference	<u>70 Dillerence</u>	LUBB T BOLDI		<u>rtesidentiai</u>	00.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Continuo	oroougno	<u></u>				
2011 94 2012 96 2013 96 2014 91 2015 92 2016 92 2017 91 2018 96 2019 95	50,759,113 44,902,732 44,379,231 51,335,479 13,3546,785 20,489,867 28,717,585 14,942,349 55,883,912 55,883,912 65,383,912 65,383,912	960, 319, 810 958, 844, 362 950, 666, 119 927, 029, 805 918, 015, 075 924, 465, 660 950, 199, 934 9527, 473, 628 962, 401, 471 917, 239, 284 881, 577, 393 902, 766, 029	9,560,698 13,941,650 (13,713,111) (34,305,674) 4,468,290 3,975,793 21,482,350 12,531,279 (3,482,441) (14,458,834) (43,792,419)	$\begin{array}{c} 1.0\%\\ 1.5\%\\ -1.4\%\\ -3.6\%\\ 0.5\%\\ 0.4\%\\ 2.3\%\\ 1.4\%\\ -0.4\%\\ -1.5\%\\ -4.6\%\end{array}$	1.0366 1.0279 1.0300 1.0378 1.0269 1.0172 1.0213 1.0254 1.0254 1.0289 1.0299	917,169,662 919,260,512 926,319,334 926,349,236 899,619,639 904,891,892 909,331,461 892,260,753 934,510,743 932,356,870 933,148,230 857,658,459 876,272,205	287,357,342 291,380,972 287,058,174 282,501,947 282,925,750 287,554,336 291,787,861 273,448,641 301,310,523 292,180,865 315,774,546	98,691,975 99,001,655 100,340,238 99,336,650 100,078,635 99,573,959 96,495,542 94,728,588 93,124,427 87,228,067	521,725,747 519,515,098 539,521,215 534,621,114 497,985,709 507,886,846 508,774,431 513,281,236 529,592,600 538,150,482 521,485,545	480.615 475,427 459,394 448,778 445,147 446,247 314,139 186,504 190,023 194,958 187,739	7,354,351 7,330,830 7,395,374 7,386,717 7,378,259 7,368,093 7,324,649 7,191,580 7,147,042 6,962,317	1,559,632 1,556,530 1,544,939 1,552,345 1,528,194 1,516,114 1,512,978 1,524,181 1,497,429 1,559,095 1,510,016	32% 32% 31% 31% 32% 32% 31% 33% 32% 34%	11% 11% 11% 11% 11% 11% 11% 11% 10% 9%	57% 58% 58% 57% 57% 57% 58% 57% 58% 56%	4,023,630 4,322,798 4,556,227 423,803 4,688,586 4,193,525 -18,339,220 27,861,882 23,593,681
Average			м	av want to be co	1.0279 nsistent with pr	oposed loss factor										
Usage Per Custome	er															
2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022							8,389 8,411 8,216 8,020 7,974 8,046 8,096 7,545 8,250 7,954 8,517 8,529 8,541	36,723 36,545 36,325 35,849 35,948 35,661 34,490 33,783 32,860 29,768 29,097 28,442	1,251,141 1,234,003 1,287,640 1,262,388 1,152,745 1,160,884 1,125,607 1,123,768 1,095,898 1,101,075 1,062,810 1,045,319 1,028,116	798 766 735 719 716 721 570 365 375 389 375 389 379 351 325	739 734 730 722 710 693 720 1.270 1.246 1.238 1.206 1.238 1.206 1.275	3,501 3,494 3,491 3,548 3,521 3,522 3,545 3,588 3,563 3,821 3,693 3,716 3,738				
2011 2012 2013 2014 2015 2016 2017 2018 2019 2020							1.0027 0.9768 0.9761 0.9943 1.0090 1.0062 0.9320 1.0935 0.9641 1.0707	0.9952 1.0065 0.9876 0.9869 1.0027 0.9920 0.9672 0.9795 0.9727 0.9059	0.9863 1.0435 0.9804 0.9131 1.0071 0.9696 0.9984 0.9752 1.0047 0.9652	0.9605 0.9593 0.9777 0.9967 1.0073 0.7898 0.6398 1.0289 1.0367 0.9755	0.9933 0.9943 0.9893 0.9834 0.9763 1.0392 1.7626 0.9815 0.9938 0.9742	0.9980 0.9993 1.0163 0.9924 1.0002 1.0067 1.0121 0.9930 1.0724 0.9663				
Used							1.0014	0.9775	0.9835	0.9249	1.0568	1.0062				
Geomean							1.0014	0.9775	0.9835	0.9249	1.0568	1.0062				
Non Weather Corre 2021 2022	ected Forecast					935,078,335 937,077,356	318,725,610 321,704,252	86,003,056 84,795,249	521,315,477 521,145,464	170,250 154,391	7,357,575 7,775,272	1,506,368 1,502,728				
Weather Corrected 2021 2022	Forecast				1	857,658,459 878,272,205	281,856,415 293,509,087	76,054,488 77,363,528	490,713,363 497,967,199	170,250 154,391	7,357,575 7,775,272	1,506,368 1,502,728	Total 857,658,459 878,272,205			
% Weather Sensitive 2021 2022	9					(77,419,876) (58,805,150)	67.00% 213,546,158 215,541,849	67.00% 57,622,047 56,812,817	34.00% 177,247,262 177,189,458	0.00% 0 0	0.00% 0 0	0.00% 0 0	Total 448,415,468 449,544,123			
Allocation of Weather 2021 2022	r Sensitive Amour	ıt					(36,869,195) (28,195,165)	(9,948,568) (7,431,720)	(30,602,114) (23,178,265)	0 0	0 0	0 0	(77,419,876) (58,805,150)			
Allocation of CDM Ar	mount				(te	be entered as negaitv	5%	5%	89%	0%	0%	0%	1			
2021 2022						0 0	0	0 0	0	0 0	0 0	0 0	0 0			
Adjust Sentinel Light 2021 2022 CDM Adjusted Wea		orecast								0 0						
2021 2022						857,658,459 878,272,205	281,856,415 293,509,087	76.054.488 77,363,528	490,713,363 497,967,199	170,250 154,391	7,357,575 7,775,272	1,506,368 1,502,728	857,658,459 878,272,205			

average number of customers opening and closing average change 2016-2020

			<u>GS>50 (excl.</u>				
	Residential	<u>GS<50</u>	WMP)	<u>Sentinels</u>	Streetlights	USL	Total
2006	32,800	2,546	399	277	9,366	456	45,843
2007	33,264	2,640	409	569	9,602	439	46,923
2008	33,684	2,702	407	585	9,740	442	47,560
2009	33,947	2,704	409	590	9,852	444	47,945
2010	34,256	2,688	417	603	9,953	446	48,362
2011	34,643	2,709	421	621	9,988	446	48,827
2012	34,938	2,728	419	625	10,134	443	49,287
2013	35,226	2,749	424	625	10,232	438	49,691
2014	35,479	2,772	432	622	10,392	434	50,130
2015	35,744	2,784	438	619	10,632	431	50,646
2016	36,043	2,792	452	551	10,229	427	50,494
2017	36,241	2,798	457	512	5,769	425	46,201
2018	36,521	2,804	483	507	5,771	420	46,506
2019	36,733	2,834	489	501	5,771	408	46,736
2020	37,077	2,930	491	495	5,771	409	47,172
2021	37,371	2,956	499	485	5,771	405	47,487
2022	37,668	2,981	507	476	5,771	402	47,805
	in Customer Num	ibers					
2006							
2007	1.0141	1.0369	1.0263		1.0252	0.9638	
2008	1.0126	1.0235	0.9951	1.0281	1.0144	1.0068	
2009	1.0078	1.0006	1.0037	1.0085	1.0115	1.0045	
2010	1.0091	0.9941	1.0208	1.0212	1.0103	1.0034	
2011	1.0113	1.0080	1.0096	1.0299	1.0035	1.0000	
2012	1.0085	1.0070	0.9952	1.0073	1.0146	0.9933	
2013	1.0082	1.0075	1.0107	0.9992	1.0096	0.9887	
2014	1.0072	1.0084	1.0201	0.9952	1.0157	0.9920	
2015	1.0075	1.0045	1.0127	0.9952	1.0230	0.9919	
2016 2017	1.0084	1.0030	1.0331	0.8913	0.9621	0.9913	
	1.0055 1.0077	1.0020	1.0105	0.9279	0.5640 1.0003	0.9953	
2018 2019	1.0077	1.0022 1.0107	1.0580 1.0114	0.9902 0.9896	1.0003	0.9894 0.9709	
2019							
2020	1.0094	1.0340	1.0039	0.9872	1.0000	1.0022	
Used	1.0079	1.0087	1.0164	0.9805	1.0000	0.9915	
Geomean	1.0079	1.0087	1.0164	0.9805	0.9470	0.9915	

Description: Brantford Power Embedded Distributor is billed directly by the IESO for electricity consumption, global adjustment, and other charges. Brantford Power bills its Embedded Distributor for distribution and transmission charges only. Based on the above, BPI does not have - or reuire- kWh billing data for its embedded distributor.

Historic Load kW	Number of connections	GS>50 kWh to kW	Est. kWh
2006 24,679	9.71		
2007 23,11	.48		
2008 136,273	3.85		
2009 215,796	666		
2010 158,115	5.16 3	3	
2011 156,839	9.26 3	3	
2012 153,310).46 3	3	
2013 159,285	5.71 3	3	
2014 164,324	1.44 3	3	
2015 142,203	3.42 3	3	
2016 136,187	7.20 2	2	65,359,955.00
2017 107,29 ²	1.00 2	2	43,309,246.00
2018 95,218	3.60 2	2	41,227,723.00
2019 97,683	3.05 2	2	41,261,684.09
2020 100,586	6.92 2	2	43,029,561.79
2021-Forecast 101,592	2.79 2	2	43,459,857.41
2022- 102,608	3.72 2	2	43,894,455.98

Forecast Years are based on the following assumptions :

1% growth annually

	GS>50 (excl.					Adjustments
	WMP)	Sentinels	Streetlights	Total		to streetlights
200		0	21,299	1,502,642		
200		0	21,758	1,511,704		
200		0	22,064	1,472,790		
200	9 1,326,770	0	22,380	1,349,150		
201	0 1,323,482	1,534	22,480	1,347,497		
201		1,487	22,428	1,368,166		
201	2 1,398,784	1,392	22,533	1,422,709		
201	3 1,395,148	1,385	22,581	1,419,114		
201	4 1,368,652	1,361	22,553	1,392,566		
201	5 1,388,241	1,363	22,527	1,412,132	* from RRR data	
201	6 <u>1,378,958</u>	923	22,444	1,402,325	* from RRR data	
201	7 1,400,391	570	22,338	1,423,299	* from RRR data	
201	8 1,435,245	520	22,227	1,457,992	* from RRR data	
201	9 1,450,909	568	21,979	1,473,456	* from RRR data	
202	0 1,428,137	554	21,543	1,450,234	* from RRR data	
202	1 1,317,808	510	22,103	1,340,421		-435
202	2 1,337,288	462	22,948	1,360,699		-870
kW/kWh						
201	0 0.2537%	0.3192%	0.3057%			
201	1 0.2588%	0.3128%	0.3059%			
201	2 0.2593%	0.3030%	0.3047%			
201	3 0.2610%	0.3086%	0.3057%			
201	4 0.2748%	0.3057%	0.3057%			
201	5 0.2733%	0.3055%	0.3057%			
201	6 0.2710%	0.2938%	0.3046%			
201		0.3056%	0.3050%			
201		0.2737%	0.3091%			
201		0.2913%	0.3075%			
202		0.2952%	0.3094%			
Average	0.2685%	0.2995%	0.3063%			

0.3071%

5 Year Average

0.2717%

0.2919%

	Data							
Year	Count of Purchased	Sum of Purchased2	Sum of Heating Degree Days	Sum of Cooling Degree Days	Sum of Predicted Purchases	Sum of Predicted Less Acturals		
2010	12	950,759,113	3,501	439.6	960319810.4	-9560697.769	-1%	
2011	12	944,902,732	3,648	428	958844382.3	-13941650.18	-1%	
2012	12	964,379,231	3,215	477.4	950666119.4	13713111.26	1%	
2013	12	961,335,479	3,775	325.8	927029805.3	34305673.69	4%	
2014	12	913,546,785	4,103	264.2	918015075.3	-4468289.954	0%	
2015	12	920,489,867	3,766	351.2	924465660.2	-3975793.225	0%	
2016	12	928,717,585	3,462	566.4	950199934.4	-21482349.65	-2%	
2017	12	914,942,349	3,502	348.5	927473628.1	-12531279.11	-1%	
2018	12	965,883,912	3,758	518.7	962401471.1	3482441.044	0%	
2019	12	959,330,221	3,915	342	944871386.9	14458833.9	2%	
2020	12	961,031,703	3,512	497.6	917239283.8	43792419.01	5%	<-Forecast (GDP still an est.)
2021			3,682	411.98	881577393.1	-881577393.1		<-Forecast
2022			3,682	411.98	902766029.3	-902766029.3		<-Forecast

													Duralistud	Des dista d La
MMM-YYYY	Month	Year	Purchased	Heating Degree Davs	Cooling Degree Days	Ontario Real GDP (Indexed)	Number of Dave in Mosth	Mar	Apr	Mav	Oct	Trend	Predicted Purchases	Predicted Less Acturals
Jan-2010	Month	2010	85,740,318	Days 720.00	Cooling Degree Days	128.73	Number of Days in Month 31	Mar 0	Apr 0	way 0	0000	Trend	83,457,069	2,283,248
Feb-2010	2	2010	76,200,453	720.00 598.30		128.73	28	0	0	0	0	2	75,427,607	2,263,246 772,845
Mar-2010	3	2010	78,025,071	422.80		129.43	31	1	0	0	0	3	77,571,784	453,286
Apr-2010	4	2010	69,790,834	422.00		129.79	30	0	1	0	0	4	70,299,811	(508,977)
May-2010	5	2010	76.066.070	107.90	45.70		31	0	0	1	0	5	77,513,454	(1,447,384)
Jun-2010	6	2010	79,225,718	21.70	58.70		30	0	0	0	0	6	78,983,132	242,585
Jul-2010	7	2010	89,977,040	1.80	164.90		31	0	ő	ő	0	7	94,026,468	(4,049,428)
Aug-2010	8	2010	88,856,918	2.10	138.80		31	0	0	0	0	8	90.833.094	(1,976,176)
Sep-2010	9	2010	74,349,622	78.10	31.50		30	0	0	0	0	9	76.518.738	(2,169,116)
Oct-2010	10	2010	73,264,038	241.60		131.93	31	0	0	0	1	10	75,138,540	(1,874,501)
Nov-2010	11	2010	76,397,905	405.30		132.29	30	0	0	0	0	11	77,291,859	(893,954)
Dec-2010	12	2010	82,865,127	676.20		132.65	31	0	0	0	0	12	83,258,254	(393,127)
Jan-2011	1	2011	86,054,286	775.30		132.82	31	0	0	0	0	13	84,591,173	1,463,113
Feb-2011	2	2011	76,331,650	654.20		132.99	28	0	0	0	0	14	76,474,794	(143,144)
Mar-2011	3	2011	80,293,454	572.80		133.15	31	1	0	0	0	15	79,845,949	447,505
Apr-2011	4	2011	71,266,778	332.30		133.32	30	0	1	0	0	16	71,876,228	(609,450)
May-2011	5	2011	72,652,306	134.10	13.00	133.49	31	0	0	1	0	17	73,800,493	(1,148,187)
Jun-2011	6	2011	76,886,232	19.00	52.20	133.66	30	0	0	0	0	18	78,015,410	(1,129,178)
Jul-2011	7	2011	93,432,708		198.50	133.83	31	0	0	0	0	19	97,945,855	(4,513,147)
Aug-2011	8	2011	86,792,643		122.20	134.00	31	0	0	0	0	20	88,426,560	(1,633,917)
Sep-2011	9	2011	75,561,451	48.20	39.70	134.17	30	0	0	0	0	21	76,698,143	(1,136,692)
Oct-2011	10	2011	73,210,552	235.50	2.40	134.34	31	0	0	0	1	22	74,834,887	(1,624,336)
Nov-2011	11	2011	74,362,595	342.10		134.51	30	0	0	0	0	23	75,789,126	(1,426,531)
Dec-2011	12	2011	78,058,079	534.00		134.68	31	0	0	0	0	24	80,545,765	(2,487,686)
Jan-2012	1	2012	83,475,292	610.80		134.80	31	0	0	0	0	25	81,542,546	1,932,746
Feb-2012	2	2012	76,561,560	532.00	-	134.93	29	0	0	0	0	26	76,116,084	445,475
Mar-2012	3	2012	76,020,278	349.40	0.20	135.05	31	1	0	0	0	27	75,948,683	71,595
Apr-2012	4	2012	69,885,112	321.70	-	135.18	30	0	1	0	0	28	70,922,558	(1,037,447)
May-2012	5	2012	77,152,267	81.30	36.70	135.30	31	0	0	1	0	29	75,169,181	1,983,086
Jun-2012	6	2012	83,683,997	23.20	101.60		30	0	0	0	0	30	83,348,779	335,218
Jul-2012	7	2012	97,430,291	-	190.10		31	0	0	0	0	31	96,030,919	1,399,372
Aug-2012	8	2012	90,717,699	2.00	112.10		31	0	0	0	0	32	86,305,928	4,411,771
Sep-2012	9	2012	77,862,575	85.00	35.60		30	0	0	0	0	33	75,787,495	2,075,080
Oct-2012	10	2012	75,966,062	242.50	1.10		31	0	0	0	1	34	73,829,373	2,136,689
Nov-2012	11	2012	77,579,681	434.00		136.05	30	0	0	0	0	35	76,114,998	1,464,683
Dec-2012	12	2012	78,044,417	533.50	-	136.18	31	0	0	0	0	36	79,549,575	(1,505,158)
Jan-2013	1	2013	84,721,792	624.40	-	136.33	31	0	0	0	0	37	80,760,917	3,960,875
Feb-2013	2	2013	76,515,852	631.50		136.49	28	0	0	0	0	38	74,440,250	2,075,602
Mar-2013	3	2013	80,320,040	554.80	-	136.64	31	1	0	0	0	39	77,871,122	2,448,918
Apr-2013	4	2013	73,854,215	358.60		136.80	30	0	1	0	0	40	70,517,736	3,336,479
May-2013	5	2013	75,766,818	109.10	23.10		31	0	0	1	0	41	72,966,757	2,800,061
Jun-2013	6	2013	79,605,453	33.00	59.60		30	0	0	0	0	42	77,388,718	2,216,736
Jul-2013	7	2013	91,347,063	1.30	120.80		31	0	0	0	0	43	86,583,173	4,763,890
Aug-2013	8	2013	86,194,914	4.40	93.80	137.43	31	0	0	0	0	44	83,213,432	2,981,482
Sep-2013	9	2013	77,473,370	83.00	28.10		30	0	0	0	0	45	73,988,809	3,484,562
Oct-2013	10	2013	76,800,879	208.50	0.40		31	0	0	0	1	46	72,440,633	4,360,245
Nov-2013	11	2013	77,253,769	478.20		137.90	30	0	0	0	0	47	75,928,962	1,324,807
Dec-2013	12	2013	81,481,313	687.90		138.06	31	0	0	0	0	48	80,929,296	552,017
Jan-2014	1	2014	87,110,628	825.90		138.30	31	0	0	0	0	49	82,847,062	4,263,567
Feb-2014	2	2014	75,310,896	737.10		138.54	28	0	0	0	0	50	75,222,865	88,031

				Heating Degree										Predicted Less
MMM-YYYY	Month	Year	Purchased	Days	Cooling Degree Days	Ontario Real GDP (Indexed)		Mar	Apr	May	Oct	Trend	Purchases	Acturals
Mar-2014 Apr-2014	3	2014 2014	79,598,362 69,107.663	690.60 356.90	•	138.78 139.02	31 30	1	0	0	0	51 52	79,122,858 69,881,446	475,504 (773,782)
May-2014	5	2014	69,871,028	132.10	11.90		31	0	0	1	0	53	71,333,909	(1,462,881)
Jun-2014	6	2014	77,517,702	14.10	68.10	139.51	30	0	0	0	0	54	77,654,386	(136,685)
Jul-2014	7	2014	79,980,082	4.00	71.00	139.75	31	0	0	0	0	55	79,969,311	10,770
Aug-2014	8 9	2014 2014	78,148,912 73,189,575	8.80	81.80	140.00 140.24	31 30	0	0	0	0	56 57	81,355,319 73,663,054	(3,206,407) (473,479)
Sep-2014 Oct-2014	9 10	2014	72,005,492	69.70 224.30	30.10 1.30	140.24	30	0	0	0	1	57	73,063,054	(473,479) (427,557)
Nov-2014	11	2014	74,401,961	482.10	-	140.43	30	0	0	0	0	59	75,688,158	(1,286,197)
Dec-2014	12	2014	77,304,485	557.30		140.98	31	0	0	0	0	60	78,843,658	(1,539,173)
Jan-2015	1	2015	84,626,741	792.40		141.30	31	0	0	0	0	61	82,169,343	2,457,398
Feb-2015 Mar-2015	2	2015 2015	77,436,620 78.097.659	856.80 615.50		141.63 141.95	28 31	0	0	0	0	62 63	76,741,804 77,946,958	694,817 150,701
Apr-2015	4	2015	68,989,290	313.70		141.95	30	0	1	0	0	64	69,197,486	(208,196)
May-2015	5	2015	73,375,077	89.30	34.10	142.61	31	0	0	1	0	65	73,451,727	(76,649)
Jun-2015	6	2015	75,340,519	33.80	32.30	142.93	30	0	0	0	0	66	73,503,533	1,836,987
Jul-2015	7	2015	85,365,000	4.00	114.30		31	0	0	0	0	67	85,392,738	(27,738)
Aug-2015	8 9	2015	81,751,306	4.40	88.60	143.59	31	0	0	0	0	68	82,235,695	(484,389)
Sep-2015 Oct-2015	9 10	2015 2015	79,343,691 71,236,446	31.10 249.80	81.90	143.92 144.25	30 31	0	0	0	1	69 70	79,686,374 72,818,396	(342,683) (1,581,950)
Nov-2015	11	2015	71,636,024	345.00		144.59	30	0	ő	0	0	71	73,993,832	(2,357,808)
Dec-2015	12	2015	73,291,493	429.70		144.92	31	0	0	0	0	72	77,327,777	(4,036,284)
Jan-2016	1	2016	79,986,061	670.40		145.19	31	0	0	0	0	73	80,705,242	(719,181)
Feb-2016 Mar-2016	2	2016 2016	73,679,442 73.829.400	588.40		145.46 145.74	29 31	0	0	0	0	74 75	75,310,828	(1,631,386) (2,354,638)
Mar-2016 Apr-2016	3	2016	73,829,400 69.308.215	476.10 394.80		145.74 146.01	31 30	1	1	0	0	75	76,184,038 70,506,724	(2,354,638) (1.198,508)
May-2016	5	2016	72,726,898	142.50	36.90	146.28	31	0	0	1	0	77	74,688,520	(1,961,622)
Jun-2016	6	2016	79,069,060	24.20	83.70	146.56	30	0	0	0	0	78	79,855,661	(786,600)
Jul-2016	7	2016	90,249,922		176.90	146.83	31	0	0	0	0	79	93,184,535	(2,934,612)
Aug-2016 Sep-2016	8 9	2016 2016	94,016,713 77,678,226	- 25.90	195.40 69.40	147.11 147.39	31 30	0	0	0	0	80 81	95,474,175 78.094,383	(1,457,461) (416,157)
Oct-2016	9 10	2016	71.025.279	25.90 194.20	4.10	147.39	30	0	0	0	1	82	78,094,383	(416,157) (1.522.774)
Nov-2016	11	2016	71,123,496	337.80	-	147.94	30	0	0	0	0	83	73,867,321	(2,743,825)
Dec-2016	12	2016	76,024,871	608.00		148.22	31	0	0	0	0	84	79,780,455	(3,755,585)
Jan-2017	1	2017	78,997,942	608.90		148.65	31	0	0	0	0	85	79,869,020	(871,078)
Feb-2017 Mar-2017	2	2017	69,829,357 76,565,565	510.40 574.00		149.08 149.51	28 31	0	0	0	0	86 87	72,206,850 77,753,268	(2,377,493) (1 187 703)
Apr-2017	4	2017	66,644,954	257.50		149.51	30	0	1	0	0	88	68,852,862	(2,207,908)
May-2017	5	2017	70,677,545	177.00	9.00	150.38	31	0	0	1	0	89	72,073,793	(1,396,248)
Jun-2017	6	2017	78,699,725	26.70	68.20	150.82	30	0	0	0	0	90	78,412,301	287,425
Jul-2017	7	2017	85,577,696		116.50	151.25	31	0	0	0	0	91	86,223,306	(645,610)
Aug-2017	8	2017	83,019,510	11.60	75.20	151.69	31	0	0	0	0	92	81,346,300	1,673,209
Sep-2017 Oct-2017	9 10	2017 2017	77,334,131 73,469,058	49.10 154.00	71.50 8.10	152.13 152.57	30 31	0	0	0	0	93 94	79,377,767 73,261,158	(2,043,636) 207,900
Nov-2017	11	2017	74,459,348	414.20		153.01	30	0	0	0	0	95	75,809,208	(1,349,860)
Dec-2017	12	2017	79,667,517	718.50		153.46	31	0	0	0	0	96	82,287,795	(2,620,277)
Jan-2018	1	2018	84,752,511	732.30		153.86	31	0	0	0	0	97	82,542,341	2,210,170
Feb-2018	2	2018	72,631,313	555.00		154.26	28	0	0	0	0	98 99	73,757,065	(1,125,752)
Mar-2018 Apr-2018	3 4	2018 2018	77,931,843 72.888.275	554.00 437.20		154.66 155.07	31 30	0	1	0	0	100	78,379,875 72,270,890	(448,032) 617,385
May-2018	5	2018	76,624,694	75.30	43.40	155.47	31	0	0	1	0	101	75,785,604	839,090
Jun-2018	6	2018	80,769,044	14.80	60.50	155.88	30	0	0	0	0	102	78,150,776	2,618,268
Jul-2018	7	2018	95,230,727		167.80	156.28	31	0	0	0	0	103	93,428,133	1,802,594
Aug-2018 Sep-2018	8 9	2018 2018	93,580,217 79,916.023	1.20 41.40	162.40 76.40	156.69 157.10	31 30	0	0	0	0	104 105	92,839,877 80.689,200	740,340 (773,177)
Oct-2018	9 10	2018	75,870,343	41.40 289.40	76.40	157.10	30	0	0	0	1	105	75.972.643	(102.300)
Nov-2018	11	2018	77,972,579	494.10		157.92	30	0	0	0	0	107	77,711,739	260,840
Dec-2018	12	2018	77,716,342	563.60		158.33	31	0	0	0	0	108	80,873,329	(3,156,986)
Jan-2019	1	2019	85,029,524 75,571,375	764.50 621.70		158.56 158.79	31	0	0	0	0	109	83,669,745	1,359,779 290,426
Feb-2019 Mar-2019	2	2019 2019	75,571,375	621.70 593.90		158.79	28 31	U 1	0	0	0	110 111	75,280,949 79 438 205	290,426 (57,137)
Apr-2019	4	2019	73,998,853	593.90 346.80		159.02	30	0	1	0	0	112	79,438,205	2,590,404
May-2019	5	2019	74,079,885	181.00		159.49	31	0	0	1	0	113	72,209,152	1,870,734
Jun-2019	6	2019	77,200,775	35.50	41.30	159.72	30	0	0	0	0	114	76,289,984	910,791
Jul-2019 Aug-2019	7 8	2019 2019	97,266,633 88,226,115	- 0.90	166.90 103.30	159.95 160.19	31 31	0	0	0	0	115 116	93,454,955 85,555,905	3,811,678 2,670,210
Sep-2019	9	2019	76,664,331	38.40	25.40	160.19	30	0	0	0	0	117	74,280,470	2,383,861
Oct-2019	10	2019	75,138,465	236.50	25.40 5.10	160.65	30	0	0	0	1	118	74,709,880	428,584
Nov-2019	11	2019	79,324,528	513.30		160.89	30	0	0	0	0	119	77,754,969	1,569,559
Dec-2019	12	2019	77,448,670	582.40		161.12	31	0	0	0	0	120	80,818,725	(3,370,055)
Jan-2020 Feb-2020	1	2020	81,251,440	605.00		160.36 159.61	31 29	0	0	0	0	121	80,595,721	655,719
Feb-2020 Mar-2020	2	2020 2020	75,883,614 75,425,735	611.80 458.70		159.61 158.86	29 31	U 1	0	0	0	122 123	75,916,364 75,684,483	(32,750) (258,748)
Apr-2020	4	2020	68,179,453	362.30		158.11	30	0	1	Ő	0	123	69,264,898	(1,085,445)
May-2020	5	2020	72,113,730	208.10	24.20	157.37	31	0	0	1	0	125	72,722,578	(608,848)
Jun-2020	6	2020	86,099,648	23.80	97.70	156.63	30	0	0	0	0	126	79,745,453	6,354,195
Jul-2020	7	2020	103,947,133		215.70	155.89	31	0	0	0	0	127 128	95,629,383	8,317,750
Aug-2020 Sep-2020	8	2020 2020	92,534,942 76,554,650	0.80	126.70 33.30	155.16 154.43	31 30	0	0	0	0	128 129	84,078,131 70,813,897	8,456,812 5,740,753
Oct-2020	10	2020	74,574,751	270.30	-	153.70	31	0	0	0	1	130	69,176,708	5,398,043
Nov-2020	11	2020	75,524,140	334.80		152.98	30	0	0	0	0	131	69,373,137	6,151,003
Dec-2020	12	2020	78,942,466	567.30		152.26	31	0	0	0	0	132	74,238,531	4,703,936
Jan-2021 Feb-2021	1	2021 2021		700.99 629.89		152.77 153.28	31 28	0	0	0	0	133 134	76,235,646 69,000,853	(76,235,646) (69,000,853)
100-2021	2	2021		029.09		155.20	20	v	0	0	0	134	03,000,003	(08,000,003)

				Heating Degree									Predicted	Predicted Less
MMM-YYYY	Month	Year	Purchased	Days	Cooling Degree Days	Ontario Real GDP (Indexed)	Number of Days in Month	Mar	Apr	May	Oct	Trend	Purchases	Acturals
Mar-2021	3	2021		543.98	0.02	153.80	31	1	0	0	0	135	72,490,635	(72,490,635)
Apr-2021	4	2021		348.18		154.31	30	0	1	0	0	136	65,327,087	(65,327,087)
May-2021	5	2021		132.98	23.23	154.83	31	0	0	1	0	137	68,461,864	(68,461,864)
Jun-2021	6	2021		24.60	66.52	155.35	30	0	0	0	0	138	73,460,241	(73,460,241)
Jul-2021	7	2021		1.11	153.85	155.87	31	0	0	0	0	139	86,198,926	(86,198,926)
Aug-2021	8	2021		3.54	116.15	156.39	31	0	0	0	0	140	81,683,071	(81,683,071)
Sep-2021	9	2021		54.99	49.14	156.92	30	0	0	0	0	141	72,105,146	(72,105,146)
Oct-2021	10	2021		227.63	3.07	157.44	31	0	0	0	1	142	69,133,577	(69,133,577)
Nov-2021	11	2021		424.61	•	157.97	30	0	0	0	0	143	71,461,074	(71,461,074)
Dec-2021	12	2021		589.11	•	158.50	31	0	0	0	0	144	76,019,274	(76,019,274)
Jan-2022	1	2022		700.99	•	159.10	31	0	0	0	0	145	77,753,664	(77,753,664)
Feb-2022	2	2022		629.89	•	159.69	28	0	0	0	0	146	70,562,990	(70,562,990)
Mar-2022	3	2022		543.98	0.02	160.29	31	1	0	0	0	147	74,097,163	(74,097,163)
Apr-2022	4	2022		348.18	•	160.90	30	0	1	0	0	148	66,978,280	(66,978,280)
May-2022	5	2022		132.98	23.23	161.50	31	0	0	1	0	149	70,157,996	(70,157,996)
Jun-2022	6	2022		24.60	66.52	162.11	30	0	0	0	0	150	75,201,589	(75,201,589)
Jul-2022	7	2022		1.11	153.85	162.71	31	0	0	0	0	151	87,985,768	(87,985,768)
Aug-2022	8	2022		3.54	116.15	163.33	31	0	0	0	0	152	83,515,686	(83,515,686)
Sep-2022	9	2022		54.99	49.14	163.94	30	0	0	0	0	153	73,983,814	(73,983,814)
Oct-2022	10	2022		227.63	3.07	164.55	31	0	0	0	1	154	71,058,581	(71,058,581)
Nov-2022	11	2022		424.61	•	165.17	30	0	U	0	0	155	73,432,697	(73,432,697)
Dec-2022	12	2022		589.11		165.79	31	0	0	0	0	156	78,037,801	(78,037,801)
2010			950,759,113											960,319,810
2011			944,902,732											958,844,382
2012			964,379,231											950,666,119
2013			961,335,479											927,029,805
2014			913,546,785											918,015,075
2015			920,489,867											924,465,660
2016			928,717,585											950,199,934
2017			914,942,349											927,473,628
2018			965,883,912											962,401,471
2019			959,330,221											944,871,387
2020			961,031,703											917,239,284
2021			0											881,577,393
2022			0											902,766,029

SUMMARY OUTPUT

Regression Statistics								
Multiple R	0.950233371							
R Square	0.902943459							
Adjusted R Square	0.89500247							
Standard Error	2068852.541							
Observations	120							
ANOVA								
	df	SS	MS	F	ignificance	F		
Regression	9	4.38014E+15	4.87E+14	113.7067	1.66E-51			
Residual	110	4.70817E+14	4.28E+12					
Total	119	4.85095E+15						
	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	ower 95.09	/pper 95.0%
Intercept	50 011 010 00	17293553.96	-3.41233	0.000902	-0.3E±07	-2.5E+07	0 3E±07	-2 5E+07
	-59,011,249.23	17233333.30	0.41200		-0.02107		-0.001	
Heating Degree Days	-59,011,249.23 14,056.51				11648.39	16464.62		16464.62
Heating Degree Days			11.56786			16464.62 136835.9		
	14,056.51	1215.134234	11.56786 19.11864	9.9E-21	11648.39 111132.4		11648.39	16464.62
Heating Degree Days Cooling Degree Days	14,056.51 123,984.14	1215.134234 6484.986386	11.56786 19.11864 4.373884	9.9E-21 9.3E-37	11648.39 111132.4	136835.9	11648.39 111132.4	16464.62 136835.9
Heating Degree Days Cooling Degree Days Ontario Real GDP (Indexed)	14,056.51 123,984.14 519,199.51	1215.134234 6484.986386 118704.4498	11.56786 19.11864 4.373884 7.796893	9.9E-21 9.3E-37 2.79E-05	11648.39 111132.4 283955.2	136835.9 754443.9	11648.39 111132.4 283955.2	16464.62 136835.9 754443.9
Heating Degree Days Cooling Degree Days Ontario Real GDP (Indexed) Number of Days in Month	14,056.51 123,984.14 519,199.51 2,118,055.30	1215.134234 6484.986386 118704.4498 271653.7516	11.56786 19.11864 4.373884 7.796893 -2.31671	9.9E-21 9.3E-37 2.79E-05 3.88E-12	11648.39 111132.4 283955.2 1579701 -3300704	136835.9 754443.9 2656409	11648.39 111132.4 283955.2 1579701	16464.62 136835.9 754443.9 2656409
Heating Degree Days Cooling Degree Days Ontario Real GDP (Indexed) Number of Days in Month Mar Apr May	14,056.51 123,984.14 519,199.51 2,118,055.30 -1,778,951.71 -4,190,279.03 -3,150,225.68	1215.134234 6484.986386 118704.4498 271653.7516 767877.2632 742714.2179 814390.235	11.56786 19.11864 4.373884 7.796893 -2.31671 -5.64185 -3.8682	9.9E-21 9.3E-37 2.79E-05 3.88E-12 0.022371 1.32E-07 0.000186	11648.39 111132.4 283955.2 1579701 -3300704 -5662164 -4764156	136835.9 754443.9 2656409 -257199 -2718394 -1536295	11648.39 111132.4 283955.2 1579701 -3300704 -5662164 -4764156	16464.62 136835.9 754443.9 2656409 -257199 -2718394 -1536295
Heating Degree Days Cooling Degree Days Ontario Real GDP (Indexed) Number of Days in Month Mar Apr	14,056.51 123,984.14 519,199.51 2,118,055.30 -1,778,951.71 -4,190,279.03	1215.134234 6484.986386 118704.4498 271653.7516 767877.2632 742714.2179	11.56786 19.11864 4.373884 7.796893 -2.31671 -5.64185 -3.8682	9.9E-21 9.3E-37 2.79E-05 3.88E-12 0.022371 1.32E-07 0.000186	11648.39 111132.4 283955.2 1579701 -3300704 -5662164	136835.9 754443.9 2656409 -257199 -2718394	11648.39 111132.4 283955.2 1579701 -3300704 -5662164	16464.62 136835.9 754443.9 2656409 -257199 -2718394

Summary of D

Summary of All Heating Degree Days

Month	Mo.	2006	2007	2008	2009	2010	2011	2012	2013	2014
January	1	551.80	647.10	623.50	830.20	720.00	775.30	610.80	624.40	825.90
February	2	604.30	740.10	674.70	606.40	598.30	654.20	532.00	631.50	737.10
March	3	516.60	546.70	610.20	533.80	422.80	572.80	349.40	554.80	690.60
April	4	293.30	356.40	253.90	305.80	225.10	332.30	321.70	358.60	356.90
Мау	5	136.90	136.40	193.50	158.80	107.90	134.10	81.30	109.10	132.10
June	6	19.50	16.50	22.70	49.30	21.70	19.00	23.20	33.00	14.10
July	7	-	3.20	1.00	6.20	1.80	-	-	1.30	4.00
August	8	4.20	5.20	12.70	9.80	2.10	-	2.00	4.40	8.80
September	9	80.90	36.90	59.00	55.20	78.10	48.20	85.00	83.00	69.70
October	10	288.30	137.70	278.60	287.80	241.60	235.50	242.50	208.50	224.30
November	11	382.20	462.50	451.60	361.20	405.30	342.10	434.00	478.20	482.10
December	12	500.50	630.70	654.60	631.30	676.20	534.00	533.50	687.90	557.30
Total		3,378.50	3,719.40	3,836.00	3,835.80	3,500.90	3,647.50	3,215.40	3,774.70	4,102.90

Summary of All Cooling Degree Days

Month		2006	2007	2008	2009	2010	2011	2012	2013	2014
January	1	-	-	-	-	-	-	-	-	-
February	2	-	-	-	-	-	-	-	-	-
March	3	-	-	-	-	-	-	0.20	-	-
April	4	-	-	-	1.20	-	-	-	-	-
May	5	26.00	22.40	2.50	6.90	45.70	13.00	36.70	23.10	11.90
June	6	73.60	99.20	71.50	34.20	58.70	52.20	101.60	59.60	68.10
July	7	167.30	106.10	111.00	43.70	164.90	198.50	190.10	120.80	71.00
August	8	101.60	141.00	64.00	91.00	138.80	122.20	112.10	93.80	81.80
September	9	12.90	47.50	26.70	20.90	31.50	39.70	35.60	28.10	30.10
October	10	1.10	19.80	-	-	-	2.40	1.10	0.40	1.30
November	11	-	-	-	-	-	-	-	-	-
December	12	-	-	-	-	-	-	-	-	-
Total		382.50	436.00	275.70	197.90	439.60	428.00	477.40	325.80	264.20

2015	2016	2017	2018	2019	2020	10 Year Average	20 Year Trend
792.40	670.40	608.90	732.30	764.50	605.00	700.9	99 709.96
856.80	588.40	510.40	555.00	621.70	611.80	629.8	632.25
615.50	476.10	574.00	554.00	593.90	458.70	543.9	98 548.30
313.70	394.80	257.50	437.20	346.80	362.30	348.	18 302.97
89.30	142.50	177.00	75.30	181.00	208.10	132.9	98 159.72
33.80	24.20	26.70	14.80	35.50	23.80	24.0	60 31.88
4.00	-	-	-	-	-	1.1	11 3.92
4.40	-	11.60	1.20	0.90	0.80	3.9	54 5.50
31.10	25.90	49.10	41.40	38.40	69.10	54.9	99 61.32
249.80	194.20	154.00	289.40	236.50	270.30	227.0	63 248.08
345.00	337.80	414.20	494.10	513.30	334.80	424.0	61 385.99
429.70	608.00	718.50	563.60	582.40	567.30	589.	11 629.06
3,765.50	3,462.30	3,501.90	3,758.30	3,914.90	3,512.00		

2015	2016	2017	2018	2019	2020	10 Year Average	20 Year Trend
-	-	-	-	-	-	0.00	0.00
-	-	-	-	-	-	0.00	0.00
-	-	-	-	-	-	0.02	0.01
-	-	-	-	-	-	0.00	2.15
34.10	36.90	9.00	43.40	-	24.20	23.23	8.92
32.30	83.70	68.20	60.50	41.30	97.70	66.52	74.13
114.30	176.90	116.50	167.80	166.90	215.70	153.85	122.69
88.60	195.40	75.20	162.40	103.30	126.70	116.15	118.71
81.90	69.40	71.50	76.40	25.40	33.30	49.14	37.68
-	4.10	8.10	8.20	5.10	-	3.07	4.23
-	-	-	-	-	-	0.00	0.00
-	-	-	-	-	-	0.00	0.00
351.20	566.40	348.50	518.70	342.00	497.60		

		kW-kWH ratio	
	kW	(GS>50)	Est. kWh
2011	-	0.2588%	
2012	3,486	0.2593%	
2013	13,590	0.2610%	
2014	12,737	0.2748%	
2015	12,398	0.2733%	6,792,378
2016	12,437	0.2710%	6,607,289
2017	12,330	0.2728%	6,489,035
2018	12,258	0.2710%	6,330,357
2019	10,962	0.2696%	6,085,995
2020	11,674	0.2739%	6,029,968
2021	11,674		6,029,968
2022	11,674		6,029,968
		-	
	11,674		6,029,968

Brantford Power Inc. EB-2021-0009 Exhibit 3 Filed: May 12, 2021

Attachment 3-B

Appendix 2-IB

File Number:	EB-2021-0009
Exhibit:	
Tab:	
Schedule:	
Page:	
Date:	

Appendix 2-IB Customer, Connections, Load Forecast and Revenues Data and Analysis

This sheet is to be filled in accordance with the instructions documented in section 2.3.2 of Chapter 2 of the Filing Requirements for Distribution Rate Applications, in terms of one set of tables per customer class.



Distribution System (Total)

	Calendar Year		Consumption (kWh) (3)				
	(for 2022 Cost of Service		Actual (Weather actual)	Weather- normalized		Weather- normalized	
Historical	2016	Actual	909,331,461	914,637,786			
Historical	2017	Actual	892,260,753	914,620,253	OEB-approved	946,971,178	
Historical	2018	Actual	934,510,743	917,296,629			
Historical	2019	Actual	932,356,870	923,549,990			
Historical	2020	Actual	933,148,230	882,633,837			
Bridge Year	2021	Forecast		857,658,459			
Test Year	2022	Forecast		878,272,205			

Variance Analysis	Year	Year-over-year		Versus OEB- approved
	2016			
	2017	-1.9%	0.0%	
	2018	4.7%	0.3%	
	2019	-0.2%	0.7%	
	2020	0.1%	-4.4%	
	2021		-2.8%	
	2022		2.4%	-7.3%
	Geometric Mean	0.9%	-0.8%	-1.9%

Customer Class Analysis (one for each Customer Class, excluding MicroFIT and Standby)

1 Customer Class: Residential

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

	Calendar Year		Cı	ustomers				Consumption	(kWh) ⁽³⁾			Consump	tion (kWh) per Cι	ustomer	
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2016	Actual	36,043			Actual	291,787,861	293,490,564			Actual	8,095.55	8,142.79	0	
Historical	2017	Actual	36,241	OEB-approved	36,433.00	Actual	273,448,641	280,301,094	OEB-approved	301,593,274.00	Actual	7,545.28	7,734.36 O	EB-approved	8,278.02
Historical	2018	Actual	36,521			Actual	301,310,523	295,760,246			Actual	8,250.34	8,098.36	0	
Historical	2019	Actual	36,733			Actual	292,180,865	289,420,975			Actual	7,954.18	7,879.05	0	
Historical	2020	Actual	37,077			Actual	315,774,546	298,680,628			Actual	8,516.72	8,055.68	0	
Bridge Year	2021	Forecast	37,371			Forecast		281,856,415			Forecast	0.00	7,542.12	0	
Test Year	2022	Forecast	37,668			Forecast		293,509,087			Forecast	0.00	7,792.00	0	
Variance Analysis	Year		Test Year Year-over-year Versus OEB- approved		Year	Year-o	ver-year		Test Year Versus OEB-approved	Year	Year-ove	r-year		Test Year Versus OEB- approved	
	2016				appioved	2016					2016				аррі

			upproved									uppioveu
	2016			2016				2016				
	2017	0.5%		2017	-6.3%	-4.5%		2017	-6.8%	-5.0%	_	
	2018	0.8%		2018	10.2%	5.5%		2018	9.3%	4.7%	_	
	2019	0.6%		2019	-3.0%	-2.1%		2019	-3.6%	-2.7%		
	2020	0.9%		2020	8.1%	3.2%		2020	7.1%	2.2%		
	2021	0.8%		2021		-5.6%		2021		-6.4%		
	2022	0.8%	3.4%	2022		4.1%	-2.7%	2022		3.3%		-5.9%
	Geometric Mean		0.8%	Geometric	2.7%	0.0%		Geometric		-0.9%		
_	Geometric Mean	0.9%	0.876	Mean	2.1 70	0.0%	-0.7%	Mean	1.7%	-0.976		-1.5%

	Calendar Year (for 2022 Cost of Service		R	evenues	
Historical	2016	Actual	\$ 9,644,695		
Historical	2017	Actual	\$ 9,814,415	OEB-approved	\$ 10,072,166
Historical	2018	Actual	\$ 10,180,620		
Historical	2019	Actual	\$ 10,201,944		
Historical	2020	Actual	\$ 11,136,471		
Bridge Year (Foreca	2021	Forecast	\$ 10,919,812		
Test Year (Forecast)	2022	Forecast	\$ 14,232,489		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	1.8%	
	2018	3.7%	
	2019	0.2%	
	2020	9.2%	
	2021	-1.9%	
	2022	30.3%	41.3%
	Geometric Mean	8.1%	9.0%

2 Customer Class: General Service <50kW

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

	Calendar Year		C	ustomers				Consumption (kWh) ⁽³⁾			Consump	tion (kWh) per 0	Customer	
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2016	Actual	2,792			Actual	99,573,959	100,155,014			Actual	35,664.03	35,872.14	0	
Historical	2017	Actual	2,798	OEB-approved	2840	Actual	96,495,542	98,913,660	OEB-approved	103,442,407.00	Actual	34,487.33	35,351.56	OEB-approved	36,423.38
Historical	2018	Actual	2,804			Actual	94,728,588	92,983,644			Actual	33,783.38	33,161.07	0	
Historical	2019	Actual	2,834			Actual	93,124,427	92,244,790			Actual	32,859.71	32,549.33	0	
Historical	2020	Actual	2,930			Actual	87,228,067	82,506,124			Actual	29,770.67	28,159.09	0	
Bridge Year	2021	Forecast	2,956			Forecast		76,054,488			Forecast	0.00	25,728.85	0	
Test Year	2022	Forecast	2,981			Forecast		77,363,528			Forecast	0.00	25,952.21	0	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-year	Test Year Versus OEB- approved
	2016			2016			2016		
	2017	0.2%		2017	-3.1% -1.2%		2017	-3.3%	1.5%
	2018	0.2%		2018	-1.8% -6.0%		2018	-2.0%	6.2%
	2019	1.1%		2019	-1.7% -0.8%		2019	-2.7%	1.8%
	2020	3.4%		2020	-6.3% -10.6%		2020	-9.4% -1	3.5%
	2021	0.9%		2021	-7.8%		2021		8.6%
	2022	0.8%	5.0%	2022	1.7%	-25.2%	2022		0.9% -28.7%
	Geometric Mean	1.3%	1.2%	Geometric Mean	-4.3% -5.0%	-7.0%	Geometric Mean	-5.8% -6.3%	-8.1%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 1,582,551		
Historical	2017	Actual	\$ 2,059,508	OEB-approved	\$ 1,839,733
Historical	2018	Actual	\$ 1,682,379		
Historical	2019	Actual	\$ 1,765,006		
Historical	2020	Actual	\$ 1,856,236		
Bridge Year (Foreca	2021	Forecast	\$ 1,769,590		
Test Year (Forecast	2022	Forecast	\$ 2,218,670		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	30.1%	
	2018	-18.3%	
	2019	4.9%	
	2020	5.2%	
	2021	-4.7%	
	2022	25.4%	20.6%
	Geometric Mean	7.0%	4.8%

3 Customer Class: General Service >50

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		Cı	ustomers				Demand (kV	W) ⁽³⁾		Demand (kW) per Customer				
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized	Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized	
Historical	2016	Actual	452			Actual	1,391,396	1,385,740		Actual	3,078.31	3,065.80	0		
Historical	2017	Actual	457	OEB-approved	449	Actual	1,412,721	1,424,735	1,342,821.00	Actual	3,091.29	3,117.58	0	2,990.69	
Historical	2018	Actual	483			Actual	1,447,503	1,407,657		Actual	2,996.90	2,914.40	0		
Historical	2019	Actual	489			Actual	1,461,872	1,443,483		Actual	2,989.51	2,951.91	0		
Historical	2020	Actual	491			Actual	1,439,811	1,335,678		Actual	2,932.40	2,720.32	0		
Bridge Year	2021	Forecast	499			Forecast		1,329,482		Forecast	0.00	2,664.29	0		
Test Year	2022	Forecast	507			Forecast		1,348,962		Forecast	0.00	2,660.68	0		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-	year	Test Year Versus OEB- approved
	2016			2016			2016			
	2017	1.1%		2017	1.5% 2.8%		2017	0.4%	1.7%	
	2018	5.7%		2018	2.5% -1.2%		2018	-3.1%	-6.5%	
	2019	1.2%		2019	1.0% 2.5%		2019	-0.2%	1.3%	
	2020	0.4%		2020	-1.5% -7.5%		2020	-1.9%	-7.8%	
	2021	1.6%		2021	-0.5%		2021		-2.1%	
	2022	1.6%	12.9%	2022	1.5%	0.5%	2022		-0.1%	-11.0%
	Geometric Mean	2.3%	3.1%	Geometric Mean	1.1% -0.5%	0.1%	Geometric Mean	-1.6%	-2.8%	-2.9%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 5,008,034		
Historical	2017	Actual	\$ 5,271,409	OEB-approved	4,621,191
Historical	2018	Actual	\$ 4,814,488		
Historical	2019	Actual	\$ 4,987,520		
Historical	2020	Actual	\$ 5,364,754		
Bridge Year (Foreca	2021	Forecast	\$ 5,022,801		
Test Year (Forecast)	2022	Forecast	\$ 5,659,355		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	5.3%	
	2018	-8.7%	
	2019	3.6%	
	2020	7.6%	
	2021	-6.4%	
	2022	12.7%	22.5%
	Geometric Mean	2.5%	5.2%

4 Customer Class: Embedded Distributor

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?



	Calendar Year		Cı	ustomers				Demand (k)	() ⁽³⁾			Demar	d(kW) per Custo	mer	
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2016	Actual	2			Actual	136,187	136,187			Actual	68,093.50	68,093.50	0	
Historical	2017	Actual	2	OEB-approved	2	Actual	107,291	107,291	OEB-approved	139,437.00	Actual	53,645.50	53,645.50 OE	B-approved	69,718.50
Historical	2018	Actual	2			Actual	95,219	95,219			Actual	47,609.50	47,609.50	0	
Historical	2019	Actual	2			Actual	97,683	97,683			Actual	48,841.50	48,841.50	0	
Historical	2020	Actual	2			Actual	100,587	100,587			Actual	50,293.50	50,293.50	0	
Bridge Year	2021	Forecast	2			Forecast		101,593			Forecast	0.00	50,796.50	0	
Test Year	2022	Forecast	2			Forecast		102,609			Forecast	0.00	51,304.50	0	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-	year	Test Year Versus OEB- approved
	2016			2016			2016			
	2017	0.0%		2017	-21.2% -21.2%		2017	-21.2%	-21.2%	
	2018	0.0%		2018	-11.3% -11.3%		2018	-11.3%	-11.3%	
	2019	0.0%		2019	2.6% 2.6%		2019	2.6%	2.6%	
	2020	0.0%		2020	3.0% 3.0%		2020	3.0%	3.0%	
	2021	0.0%		2021	1.0%		2021		1.0%	
	2022	0.0%	0.0%	2022	1.0%	-26.4%	2022		1.0%	-26.4%
	Geometric Mean	0.0%	0.0%	Geometric Mean	-9.6% -5.5%	-7.4%	Geometric Mean	-9.6%	-5.5%	-7.4%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 160,991		
Historical	2017	Actual	\$ 154,450	OEB-approved	\$ 199,626
Historical	2018	Actual	\$ 140,343		
Historical	2019	Actual	\$ 144,914		
Historical	2020	Actual	\$ 171,870		
Bridge Year (Foreca	2021	Forecast	\$ 159,903		
Test Year (Forecast)	2022	Forecast	\$ 223,963		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	-4.1%	
	2018	-9.1%	
	2019	3.3%	
	2020	18.6%	
	2021	-7.0%	
	2022	40.1%	12.2%
	Geometric Mean	6.8%	2.9%

5 Customer Class: Sentinel Lights

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kW

	Calendar Year		Cı	ustomers				Demand (k)	V) ⁽³⁾			Deman	d (kW) per Cust	omer	
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2016	Actual	551			Actual	923	923.00			Actual	1.68	1.68	0	
Historical	2017	Actual	512	OEB-approved	597	Actual	570	570.00	OEB-approved	1155	Actual	1.11	1.11 C	EB-approved	1.93
Historical	2018	Actual	507			Actual	520	520.00			Actual	1.03	1.03	0	
Historical	2019	Actual	501			Actual	568	568.00			Actual	1.13	1.13	0	
Historical	2020	Actual	495			Actual	554	554.29			Actual	1.12	1.12	0	
Bridge Year	2021	Forecast	485			Forecast		509.97			Forecast	0.00	1.05	0	
Test Year	2022	Forecast	476			Forecast		462.46			Forecast	0.00	0.97	0	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-ye	ear	Test Year Versus OEB- approved
	2016			2016			2016			
	2017	-7.1%		2017	-38.2% -38.2%		2017	-33.5%	-33.5%	
	2018	-1.0%		2018	-8.8% -8.8%		2018	-7.9%	-7.9%	
	2019	-1.2%		2019	9.2% 9.2%		2019	10.5%	10.5%	
	2020	-1.2%		2020	-2.5% -2.4%		2020	-1.3%	-1.2%	
	2021	-2.0%		2021	-8.0%		2021		-6.1%	
	2022	-1.9%	-20.3%	2022	-9.3%	-60.0%	2022		-7.6%	-49.8%
	Geometric Mean	-2.9%	-5.5%	Geometric Mean	-15.6% -12.9%	-20.5%	Geometric Mean	-12.6%	-10.3%	-15.8%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 46,577		
Historical	2017	Actual	\$ 36,439	OEB-approved	\$ 52,686
Historical	2018	Actual	\$ 37,436		
Historical	2019	Actual	\$ 36,771		
Historical	2020	Actual	\$ 38,814		
Bridge Year (Foreca	2021	Forecast	\$ 12,858		
Test Year (Forecast)	2022	Forecast	\$ 43,196		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	-21.8%	
	2018	2.7%	
	2019	-1.8%	
	2020	5.6%	
	2021	-66.9%	
	2022	235.9%	-18.0%
	Geometric Mean	-1.5%	-4.8%

6 Customer Class: Streetlights

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?



	Calendar Year		Customers				Demand (k	W) ⁽³⁾		Demand (kW) per Customer				
	(for 2022 Cost of Service					Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized		Weather- normalized
Historical	2016	Actual	10,229		Actual	22,444	22,444.00			Actual	2.19	2.19	0	
Historical	2017	Actual	5,769 OEB-appro	ved 5,849	Actual	22,338	22,338.00	OEB-approved	22,796.00	Actual	3.87	3.87 OE	B-approved	3.90
Historical	2018	Actual	5,771		Actual	22,227	22,227.00			Actual	3.85	3.85	0	
Historical	2019	Actual	5,771		Actual	21,979	21,978.70			Actual	3.81	3.81	0	
Historical	2020	Actual	5,771		Actual	21,543	21,543.26			Actual	3.73	3.73	0	
Bridge Year	2021	Forecast	5,771		Forecast		22,103.21			Forecast	0.00	3.83	0	
Test Year	2022	Forecast	5,771		Forecast		22,947.73			Forecast	0.00	3.98	0	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-	year	Test Year Versus OEB- approved
	2016			2016			2016			
	2017	-43.6%		2017	-0.5% -0.5%		2017	76.5%	76.5%	
	2018	0.0%		2018	-0.5% -0.5%		2018	-0.5%	-0.5%	
	2019	0.0%		2019	-1.1% -1.1%		2019	-1.1%	-1.1%	
	2020	0.0%		2020	-2.0% -2.0%		2020	-2.0%	-2.0%	
	2021	0.0%		2021	2.6%		2021		2.6%	
	2022	0.0%	-1.3%	2022	3.8%	0.7%	2022		3.8%	2.0%
	Geometric Mean	-10.8%	-0.3%	Geometric Mean	-1.4% 0.4%	0.2%	Geometric Mean	19.4%	12.6%	0.5%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 149,471		
Historical	2017	Actual	\$ 224,281	OEB-approved	\$ 235,550
Historical	2018	Actual	\$ 232,095		
Historical	2019	Actual	\$ 231,586		
Historical	2020	Actual	\$ 243,894		
Bridge Year (Foreca	2021	Forecast	\$ 243,122		
Test Year (Forecast)	2022	Forecast	\$ 305,942		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	50.0%	
	2018	3.5%	
	2019	-0.2%	
	2020	5.3%	
	2021	-0.3%	
	2022	25.8%	29.9%
	Geometric Mean	15.4%	6.8%

7 Customer Class: Unmetered Scattered Load

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

	Calendar Year		Cı	ustomers				Consumption (kWh) ⁽³⁾			Consumpt	ion (kWh) per Customer	
	(for 2022 Cost of Service						Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2016	Actual	427			Actual	1,512,978	1,512,978.00			Actual	3,545.35	3,545.35	
Historical	2017	Actual	425	OEB-approved	425	Actual	1,524,181	1,524,181.00	OEB-approved	1,405,154.00	Actual	3,588.42	3,588.42 OEB-approved	3,306.24
Historical	2018	Actual	420			Actual	1,497,429	1,497,429.00			Actual	3,563.19	3,563.19	
Historical	2019	Actual	408			Actual	1,559,095	1,559,095.27			Actual	3,821.31	3,821.31	
Historical	2020	Actual	409			Actual	1,510,016	1,510,015.92			Actual	3,692.72	3,692.72	
Bridge Year	2021	Forecast	405			Forecast		1,506,367.74			Forecast	0.00	3,715.50	
Test Year	2022	Forecast	402			Forecast		1,502,728.37			Forecast	0.00	3,738.42	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-y	ear	Test Year Versus OEB- approved
	2016			2016			2016			
	2017	-0.5%		2017	0.7% 0.7%		2017	1.2%	1.2%	
	2018	-1.2%		2018	-1.8% -1.8%		2018	-0.7%	-0.7%	
	2019	-2.9%		2019	4.1% 4.1%		2019	7.2%	7.2%	
	2020	0.2%		2020	-3.1% -3.1%		2020	-3.4%	-3.4%	
	2021	-1.0%		2021	-0.2%		2021		0.6%	
	2022	-0.7%	-5.4%	2022	-0.2%	6.9%	2022		0.6%	13.1%
	Geometric Mean	-1.2%	-1.4%	Geometric Mean	-0.1% -0.1%	1.7%	Geometric Mean	1.4%	1.1%	3.1%

	Calendar Year		R	evenues	
	(for 2022 Cost of Service				
Historical	2016	Actual	\$ 78,520		
Historical	2017	Actual	\$ 78,627	OEB-approved	\$ 78,004
Historical	2018	Actual	\$ 78,805		
Historical	2019	Actual	\$ 77,147		
Historical	2020	Actual	\$ 82,702		
Bridge Year (Foreca	2021	Forecast	\$ 80,428		
Test Year (Forecast)	2022	Forecast	\$ 96,182		

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017	0.1%	
	2018	0.2%	
	2019	-2.1%	
	2020	7.2%	
	2021	-2.7%	
	2022	19.6%	23.3%
	Geometric Mean	4.1%	5.4%

8 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?



	Calendar Year		Customers			Consumption (kWh) ⁽³⁾			Consumpt	tion (kWh) per Customer	
	(for 2022 Cost of Service				Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2016	Actual		Actual					Actual			
Historical	2017	Actual	OEB-approved	Actual			OEB-approved		Actual		OEB-approved	
Historical	2018	Actual		Actual					Actual			
Historical	2019	Actual		Actual					Actual			
Historical	2020	Actual		Actual					Actual			
Bridge Year	2021	Forecast		Forecast					Forecast			
Test Year	2022	Forecast		Forecast					Forecast			

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-year	Test Year Versus OEB- approved
	2016			2016			2016		
	2017			2017			2017		
	2018			2018			2018		
	2019			2019			2019		
	2020			2020			2020		
	2021			2021			2021		
	2022			2022			2022		
	Geometric Mean			Geometric Mean			Geometric Mean		

	Calendar Year (for 2022 Cost of Service		Revenues							
Historical	2016		Actual							
Historical	2017		Actual		OEB-approved					
Historical	2018		Actual							
Historical	2019		Actual							
Historical	2020		Actual							
Bridge Year (Foreca	2021		Forecast							
Test Year (Forecast	2022		Forecast							

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017		
	2018		
	2019		
	2020		
	2021		
	2022		
	Geometric Mean		

9 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?

kWh

	Calendar Year		Customers			Consumption (kWh) ⁽³⁾			Consump	tion (kWh) per Customer	
	(for 2022 Cost of Service				Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2016	Actual		Actual					Actual			
Historical	2017	Actual	OEB-approved	Actual			OEB-approved		Actual		OEB-approved	
Historical	2018	Actual		Actual					Actual			
Historical	2019	Actual		Actual					Actual			
Historical	2020	Actual		Actual					Actual			
Bridge Year	2021	Forecas	t	Forecast					Forecast			
Test Year	2022	Forecas	t	Forecast					Forecast			

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-year	Test Year Versus OEB- approved
	2016			2016			2016		
	2017			2017			2017		
	2018			2018			2018		
	2019			2019			2019		
	2020			2020			2020		
	2021			2021			2021		
	2022			2022			2022		
	Geometric Mean			Geometric Mean			Geometric Mean		

	Calendar Year (for 2022 Cost of Service		Revenues
Historical	2016	Actual	
Historical	2017	Actual	OEB-approved
Historical	2018	Actual	
Historical	2019	Actual	
Historical	2020	Actual	
Bridge Year (Foreca	2021	Forecast	
Test Year (Forecast)	2022	Forecast	

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017		
	2018		
	2019		
	2020		
	2021		
	2022		
	Geometric Mean		

10 Customer Class:

Is the customer class billed on consumption (kWh) or demand (kW or kVA)?



	Calendar Year		Customers			Consumption (kWh) ⁽³⁾			Consumpt	tion (kWh) per Customer	
	(for 2022 Cost of Service				Actual (Weather actual)	Weather- normalized		Weather- normalized		Actual (Weather actual)	Weather- normalized	Weather- normalized
Historical	2016	Actual		Actual					Actual			
Historical	2017	Actual	OEB-approved	Actual			OEB-approved		Actual		OEB-approved	
Historical	2018	Actual		Actual					Actual			
Historical	2019	Actual		Actual					Actual			
Historical	2020	Actual		Actual					Actual			
Bridge Year	2021	Forecast		Forecast					Forecast			
Test Year	2022	Forecast		Forecast					Forecast			

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved	Year	Year-over-year	Test Year Versus OEB-approved	Year	Year-over-year	Test Year Versus OEB- approved
	2016			2016			2016		
	2017			2017			2017		
	2018			2018			2018		
	2019			2019			2019		
	2020			2020			2020		
	2021			2021			2021		
	2022			2022			2022		
	Geometric Mean			Geometri Mean			Geometric Mean		

	Calendar Year (for 2022 Cost of Service		Revenues					
Historical	2016	1	Actual					
Historical	2017		Actual		OEB-approved			
Historical	2018		Actual					
Historical	2019		Actual					
Historical	2020		Actual					
Bridge Year (Foreca			Forecast					
Test Year (Forecast	2022		Forecast					

Variance Analysis	Year	Year-over-year	Test Year Versus OEB- approved
	2016		
	2017		
	2018		
	2019		
	2020		
	2021		
	2022		
	Geometric Mean		

Note: If there are more than ten (10) customer classes, please contact OEB Staff to add tables for additional customer classes.

Brantford Power Inc. EB-2021-0009 Exhibit 3 Filed: May 12, 2021

Attachment 3-C

Appendix 2-I-LF_CDM

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Appendix 2-I Load Forecast CDM Adjustment Work Form

Appendix 2-I was initially developed to help determine what would be the amount of CDM savings needed in each year to cumulatively achieve the four year 2011-2014 CDM target. This determine the amount of kWh (and with translation, kW of demand) savings that were converted into dollar balances for the RAMVA, and also to determine the related adjustment to the load forecast to account for OPA-reported savings. Beginning in the 2015 year, it was adjusted because the persistence of 2011-2014 CDM programs will be an adjustment to the load forecast in addition to the estimated savings for the first year (2015) for the new 2015-2020 CDM plan. This appendix has been updated for 2021 rate applications to acknowledge that in accordance with the Minister of Energy's March 20, 2019 Directive to the IESO, the Conservation First Framework (CFF) is no longer in effect. As distributors are no longer working towards the former 2015-2020 CDM targets, for 2019 and 2020 CDM activity, distributors and a customer by April 30, 2019 under a former CFF program should be included in the proposed CDM manual adjustment to the load forecast. Distributors should provide relevant documentation to support the manual adjustments for 2019 and 2020 CDM projects. Including the corresponding CFF program, project timelines and projected savings.

2019-2020 CDM Activities (and beyond, if applicable)

For the first year of the new 2015-2020 CDM plan, for simplicity, it was assumed that each year's program will achieve an equal amount of new CDM savings. This resulted in each year's program being about 1/6 (or 16.67%) of the cumulative 2015-2020 CDM target for kWh savings.

For 2021 rate applications, distributors should ensure that the sum of the results for the 2015 to 2019 program years is consistent with the results provided by the IESO. For the 2020 and 2021 program year (as applicable), distributors that elect to propose a CDM manual adjustment, should only include the projected CDM savings from projects that are subject to contractual agreements between the distributor and customer made on or before April 30, 2019 under the former CFF.

		Form	er CFF 6 Year (2015-2020) kWh Target*				
			64,320,000					
	2015	2016	2017	2018	2019	2020	2021**	Total
			%					
2015 CDM Programs						17.87%		0.00%
2016 CDM Programs						24.21%		0.00%
2017 CDM Programs						23.40%		0.00%
2018 CDM Programs						15.09%		0.00%
2019 CDM Programs						6.43%		0.00%
2020 CDM Programs						0.00%		0.00%
Total in Year						87.00%		0.00%
			kWh					
2015 CDM Programs	9,182,245.00	9,131,494.00	9,091,723.00	9,087,815.00	9,075,474.00	8,915,533.00		0.00
2016 CDM Programs		12,181,475.00	12,181,342.00	12,207,408.00	12,109,967.00	12,077,836.00		0.00
2017 CDM Programs			16,387,248.00	15,261,381.00	15,084,685.00	15,051,708.00		0.00
2018 CDM Programs				9,697,360.65	9,786,757.80	9,703,658.30		0.00
2019 CDM Programs					3,989,597.93	4,133,018.09		0.00
2020 CDM Programs								0.00
2021 CDM Programs (if applicable)***								0.00
Total in Year	9,182,245.00	21,312,969.00	37,660,313.00	46,253,964.65	50,046,481.73	49,881,753.39	0.00	64,320,000.00
,								

*This total will not equal the distributor's former CFF CDM target. Rather, for 2019 and 2020, if the distributor elects to propose a CDM manual adjustment, it should only include the projected savings from projects that are subject to contractual agreements made between the LDC and a customer on or before Antil 30, 2019 under the former CFF.

contractual agreements made between the LDC and a customer on or before April 30, 2019 under the former CFF. ** If a distributor wishes to include projected savings that persist from former Conservation First programs into the 2021 test year, you may do so. Please provide relevant supporting documentation to show the savings persistence into 2021.

*** If a distributor expects impacts from any CFF-related projects not deployed by April 2019, but for which a distributor is contractually obligated to complete (or for other programs delivered by the distributor after April 2019), a distributor may include these amounts as part of a CDM manual adjustment to the 2021 load forecast, but must ensure that sufficient supporting evidence is provided in support of all estimated CDM savings.

Note: The default formulae in the above table assume that the 2015-2020 kWh CDM target is achieved through persistence of CDM savings to the end of 2020. Distributors should rely on the Participant and Cost monthly reports provided by the IESO for 2018 and 2019 CDM savings.

Determination of 2021 Load Forecast Adjustment

The OEB determined that the "net" number should be used in its Decision and Order with respect to Centre Wellington Hydro Ltd.'s 2013 Cost of Service rates (EB-2012-0113). This approach has also been used in Settlement Agreements accepted by the OEB in other 2013 and 2014 applications. The distributor should select whether the adjustment is done on a "net" or "gross" basis, but must support a proposal for the adjustment being done on a "gross" basis. Sheet 2-1 defaults to the adjustment being done on a "the "basic consistent with OEB policy and practice. From each of the 2006-2010 CDM Final Report, and the 2011 to 2017 CDM Final Reports, issued by the OPA/ESO for the distributor, the distributor should input the "gross" and "net" results of the cumulative CDM savings for 2019 into cells CS7 to C66 and D57 to D66. The model will calculate the cumulative savings for all programs from 2006 to 2019 and determine the "net" to "gross" factor "g".

	Net-to-Gross Conversion			
Is CDM adjustment being done on a "net" or "gross" basis?				net
				"Net-to-Gross"
	"Gross"	"Net"	Difference	Conversion Factor
Persistence of Historical CDM programs	kWh	kWh	kWh	('g')
2006-2010 CDM programs			0	
2011 CDM program			0	
2012 CDM program			0	
2013 CDM program			0	
2014 CDM program			0	
2015 CDM program			0	
2016 CDM program			0	
2017 CDM program			0	
2018 CDM program*			0	
2019 CDM program (if applicable)*			0	
2006 to 2019 OPA CDM programs: Persistence to 2021.	0	0	0	0.009
*CDM programs distributors should rely on the results made available by th	e IESO in the Participant an	d Cost monthly reports		

The default values below represent the factor used for how each year's CDM program is factored into the manual CDM adjustment. Distributors can choose alternative weights of "0", "0.5" or "1" from the drop-down menu for each cell, but must support its alternatives.

These factors do not mean that CDM programs are excluded, but the assumption that impacts of previous year CDM programs are already implicitly reflected in the actual data for historical years that are used to derive the load forecast prior to any manual CDM adjustment for the 2021 test year.

	Weight Factor for Inclus	ion in CDM Adjustmer	nt to 2021 Load Foreca	st				
	2015	2016	2017	2018*	2019**	2020**	2021***	
Weight Factor for each year's CDM program impact on 2021 load forecast	0	0	0	0	0	0.5	1	Distributor can select "0", "0.5", or "1" from drop-down list
Default Value selection rationale.	Full year impact of 2015	Full year impact of	Full year impact of	Default is 0. Full year	Default is 0. Full year	Default is 0.5.	Default is 1.	
	CDM is assumed to be	2016 CDM is	2017 CDM is	impact of 2018 CDM	impact of 2019 CDM	Adjust based on	Adjust based on	
	reflected in the base	assumed to be	assumed to be	is assumed to be	is assumed to be	distributor's	distributor's	
	forecast, as the full year	reflected in the base	reflected in the base	reflected in the base	reflected in the base	circumstance	circumstance	
	persistence of 2015 CDM	forecast, as the full	forecast, as the full	forecast.	forecast. Adjust			
	programs is in the 2018	year persistence of	year persistence of		based on			
	historical actual data. No	2016 CDM programs	2017 CDM programs		distributor's			
	further impact is	is in the 2018	is in the 2018		circumstance			
	necessary for the manual	historical actual	historical actual					
	adjustment to the load	data. No further	data. No further					
	forecast.	impact is necessary	impact is necessary					
		for the manual	for the manual					
		adjustment to the	adjustment to the					
		load forecast.	load forecast.					

* For 2018 CDM programs distributors should rely on the results made available by the IESO in the Participant and Cost monthly reports

** For 2019 and 2020 CDM program activity, the distributor should include only those projected CDM savings from projects that it has contractual obligations with a customer under the former CFF.

The norm programs, please file project-level supporting documentation in accordance with section 2.3.1.3 of Chapter 2 Filing Requirements to support the breakdown of your proposal.

2021 LRAMVA and 2021 CDM adjustment to Load Forecast

One manual adjustment for CDM impacts to the 2021 load forecast is made. There is a different but related threshold amount that is used for the 2021 LRAMVA amount for Account 1568.

The amount used for the CDM threshold and the LRAMVA is the kWh that will be used to determine the base amount for the LRAMVA balance for 2021. This allows for a comparison between projected CDM savings and actual CDM savings.

If used to determine the manual CDM adjustment for the system purchased kWh, the proposed loss factor should correspond with the proposed total loss factor calculated in Appendix 2-R.

The Manual Adjustment for the 2021 Load Forecast is the amount manually subtracted from the system-wide load forecast (either based on a purchased or billed basis) derived from the base forecast from historical data. If the distributor has developed their load forecast on a system purchased basis, then the manual adjustment should be on a system purchased basis, entloring to assign or an a system parchased basis, entloring to assign or an a system basis or on a class-specific basis, the manual adjustment should be on a billed basis, excluding losses.

The distributor should determine the allocation of the savings to all customer classes in a reasonable manner (e.g. taking into account what programs and what IESO-measured impacts were directed at specific customer classes), for both the LRAMVA and for the load forecast adjustment.

	2015	2016	2017	2018	2019	2020	2021	Total for 2021
Amount used for CDM threshold for								
LRAMVA (2021)	-	-	-	-	-	-	-	-

Manual Adjustment for 2021 Load Forecast								
(billed basis)					-	-	-	-
Manual Adjustment for 2021 LDC-only CDM								
programs (billed basis)								
Total Manual Forecast to Load Forecast							-	
Proposed Loss Factor (TLF)		Format: X.XX%						
Manual Adjustment for 2021 Load Forecast (system purchased basis)	-	-	-	-		-	-	-

Manual adjustment uses "gross" versus "net" (i.e. numbers multiplied by (1 + g). The Weight factor is also used to calculate the impact of each year's program on the CDM adjustment to the 2021 load forecast.