

Exhibit 3: Load Forecast 2027 Cost of Service

InnPower Corporation
EB-2026-0052



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3. LOAD FORECAST OVERVIEW

1. INTRODUCTION

This Schedule provides an overview of InnPower's forecast of customers, energy and load, and the related variance analyses. InnPower has prepared a Load Forecast Model (the "Model") consistent with its understanding of the Chapter 2 Filing Requirements for Electricity Distribution Rate Applications. A copy of the Model has been filed in live Excel format as IPC 2027 Load Forecast Model 20260519 Adjusted.xls. InnPower has also completed Appendix 2-IB in the live Excel IPC 2027 Filing Requirements Chapter2 Appendices 1.0.xls. A summary of the 2027 load forecast is provided in Table 3-16 below.

2. WEATHER NORMALIZED LOAD AND CUSTOMER/CONNECTION FORECAST

The purpose of this evidence is to present the process used by InnPower to prepare the weather normalized load and customer/connection forecast used to design the proposed 2027 electricity distribution rates.

InnPower used a multivariate regression analysis consistent with numerous COS applications approved by the Ontario Energy Board (OEB") over the past two decades. The regression analysis includes actual data to the end of 2025 and relies on statistically valid independent variables to forecast future results.

Based on the OEB's approval of this methodology in numerous COS applications¹, InnPower submits the load forecasting methodology is reasonable for the purposes of this Application.

Table 3-1, Table 3-2, and Table 3-3 below provide the weather normalized load and customer/connection forecast used by InnPower in this Application.

¹ e.g. EB-2023-0033, EB-2023-0045, EB-2023-0053, EB-2024-0007, EB-2024-0008, EB-2024-0023, EB-2024-0039, EB-2024,0058, EB-2025-0044



55 **TABLE 3-1 - SUMMARY OF LOAD AND CUSTOMER FORECAST**

Year	Billed Actual (GWh)	Growth (GWh)	Billed Weather Normal (GWh)	Growth (GWh)	Customer/ Connection Count	Growth (Customer/ Connection Count)
Billed Energy (GWh) and Customer Count/Connections						
2024 OEB-Approved	302.1				26,822	
2016	244.0		238.40		19,399	
2017	243.2	(0.8)	247.07	8.7	19,958	559.2
2018	264.5	21.3	257.66	10.6	20,997	1,039.2
2019	271.0	6.6	270.32	12.7	22,043	1,045.3
2020	276.8	5.8	273.65	3.3	22,461	417.8
2021	279.3	2.4	281.55	7.9	23,344	883.2
2022	284.5	5.2	284.13	2.6	24,317	972.9
2023	286.8	2.4	293.86	9.7	25,988	1,671.7
2024	308.4	21.6	314.98	21.1	27,915	1,927.2
2025	332.2	23.7	329.03	14.0	29,083	1,167.1
2026 Bridge	338.1	6.0	338.15	9.1	30,433	1,350.0
2027 Test	350.2	12.0	350.18	12.0	31,847	1,415.0

56
57 The information in the table above provides weather actual from 2016 to 2025 and weather
58 normalized data from 2016 to 2027. For 2016 to 2025, the weather normal values are the actual
59 values adjusted by the weather normal conversion factor outlined in Table 3-5. The weather
60 conversion factor is determined consistent with the approach outlined by the OEB in Appendix 2-
61 IA. For 2026 and 2027, the forecasted billed GWh are presented on a weather normal basis.

62
63 Table 3-2 provides the historical billed amounts on an actual and weather normalized basis by
64 rate class using the weather normal conversion factor from Table 3-5. The forecasted billed
65 amounts for 2026 and 2027 are also provided by rate class. Customer/Connection values are
66 presented on an average basis throughout this evidence, and sentinel lights, streetlights, and
67 unmetered loads are measured as connections.

68
69 **TABLE 3-2 - BILLED ENERGY BY RATE CLASS**

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Billed Energy (GWh) - Actual								



Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
2016	150.1	33.6	58.3	0.9	0.5	0.1	0.5	244.0
2017	145.3	32.8	63.1	0.9	0.5	0.1	0.6	243.2
2018	160.9	36.0	65.4	1.0	0.5	0.1	0.6	264.5
2019	161.3	42.5	65.1	0.9	0.5	0.1	0.7	271.0
2020	175.0	39.9	59.8	0.9	0.4	0.1	0.7	276.8
2021	178.5	40.5	58.1	0.9	0.4	0.1	0.8	279.3
2022	181.8	44.0	56.4	0.9	0.4	0.1	0.8	284.5
2023	184.1	44.8	55.6	0.9	0.4	0.1	0.9	286.8
2024	198.2	51.8	56.1	0.9	0.4	0.1	0.9	308.4
2025	216.3	47.7	65.8	1.0	0.4	0.1	1.0	332.2
Billed Energy (GWh) - Weather Normal								
2024 OEB-Approved	196.5	43.5	59.7	0.9	0.5	0.1	0.9	302.1
2016	146.7	32.8	56.9	0.9	0.5	0.1	0.5	238.4
2017	147.6	33.3	64.1	0.9	0.5	0.1	0.6	247.1
2018	156.7	35.1	63.7	0.9	0.5	0.1	0.6	257.7
2019	160.9	42.4	64.9	0.9	0.5	0.1	0.7	270.3
2020	172.9	39.4	59.1	0.9	0.4	0.1	0.7	273.7
2021	179.9	40.8	58.6	0.9	0.4	0.1	0.8	281.5
2022	181.6	43.9	56.3	0.9	0.4	0.1	0.8	284.1
2023	188.6	45.9	56.9	0.9	0.5	0.1	0.9	293.9
2024	202.4	52.9	57.3	1.0	0.4	0.1	1.0	315.0
2025	214.2	47.2	65.1	1.0	0.4	0.1	1.0	329.0
2026 Bridge	221.7	48.1	65.8	1.0	0.4	0.1	1.1	338.1
2027 Test	231.4	49.3	66.8	1.0	0.4	0.1	1.1	350.2

70

71 Table 3-3 shows the historical and forecasted number of customers/connections by rate class
72 along with the historical usage per customer/connection on an actual and weather normalized
73 basis. The 2026 and 2027 forecasted usage per customer is also provided on a weather
74 normalized basis.

75

76 **TABLE 3-3 - NUMBER OF CUSTOMERS/CONNECTIONS AND ANNUAL NORMALIZED**
77 **USAGE BY RATE CLASS**

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Number of Customers/Connections								



Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
2024 OEB-Approved	20,736	1,314	87	1	75	149	4,460	26,822
2016	15,202	1,016	76	1	75	166	2,863	19,399
2017	15,632	1,030	87	1	74	162	2,973	19,958
2018	16,491	1,082	91	1	74	162	3,097	20,997
2019	17,294	1,121	85	1	75	160	3,307	22,043
2020	17,583	1,154	80	1	73	155	3,414	22,461
2021	18,253	1,191	78	1	71	153	3,597	23,344
2022	18,755	1,246	78	1	72	151	4,014	24,317
2023	20,106	1,272	84	1	75	151	4,299	25,988
2024	21,734	1,290	83	1	70	149	4,589	27,915
2025	22,633	1,300	87	1	69	145	4,848	29,083
2026 Bridge	23,656	1,336	89	1	68	142	5,140	30,433
2027 Test	24,725	1,373	90	1	68	140	5,450	31,847

Actual Annual Energy Usage per Customer/Connection (kWh per Customer/Connection)

2016	9,876.3	33,021.5	771,161.7	948,375.6	6,128.1	621.6	190.0
2017	9,292.1	31,810.5	728,165.4	920,352.3	6,261.2	641.7	193.3
2018	9,754.2	33,306.3	718,734.4	971,889.9	6,525.9	653.0	198.6
2019	9,325.9	37,892.5	765,016.2	922,954.2	6,517.9	649.1	197.7
2020	9,950.5	34,555.0	747,153.6	945,311.4	6,013.2	651.1	201.0
2021	9,779.0	33,987.8	747,213.8	910,170.9	6,186.6	649.5	208.8
2022	9,695.9	35,271.3	720,556.6	935,588.9	6,235.1	647.7	200.7
2023	9,157.1	35,254.5	659,546.9	902,443.2	5,985.1	643.1	201.8
2024	9,120.1	40,140.9	672,208.9	949,807.8	5,736.1	589.0	204.9
2025	9,555.3	36,664.8	752,231.9	976,590.1	6,163.1	649.7	204.3

Normalized Annual Energy Usage per Customer/Connection (kWh per Customer/Connection)

2024 OEB-Approved	9,477.03	33,083.50	686,078.93	935,588.90	6,221.46	648.26	200.75
2016	9,647.99	32,258.08	753,332.47	926,449.16	5,986.44	607.26	185.62
2017	9,440.18	32,317.58	739,772.32	935,022.72	6,360.97	651.93	196.34
2018	9,503.16	32,448.96	700,234.16	946,873.45	6,357.89	636.19	193.47
2019	9,301.80	37,794.75	763,042.41	920,572.98	6,501.13	647.44	197.16
2020	9,835.95	34,157.23	738,553.81	934,430.87	5,944.02	643.57	198.66
2021	9,858.33	34,263.44	753,273.67	917,552.39	6,236.76	654.73	210.54
2022	9,684.47	35,229.63	719,706.38	934,484.91	6,227.74	646.94	200.51
2023	9,381.74	36,119.33	675,725.63	924,580.13	6,131.96	658.86	206.79
2024	9,313.42	40,991.91	686,459.76	969,943.73	5,857.75	601.53	209.20
2025	9,464.71	36,317.18	745,100.78	967,331.98	6,104.70	643.52	202.38
2026 Bridge	9,373.02	35,965.36	740,926.37	976,590.05	6,163.13	649.68	204.32
2027 Test	9,360.19	35,916.14	740,130.81	976,590.05	6,163.13	649.68	204.32



3. LOAD FORECAST METHODOLOGY

InnPower's weather normalized load forecast is developed through a three-step process. First, a total system weather normalized purchased energy forecast is developed based on a multivariate regression model that incorporates historical load, weather, and other variables that impact electricity usage. Second, the weather normalized purchased energy forecast is adjusted by a historical loss factor to produce a weather normalized billed energy forecast. Finally, the forecast of billed energy by rate class is developed based on a forecast of customer/connections numbers and the 2025 usage patterns per customer/connection. For the rate classes that have weather-sensitive load their forecasted billed energy is adjusted to ensure that the total billed energy forecast by rate class is equivalent to the total weather normalized billed energy forecast that has been determined from the regression analysis. The forecast of customers by rate class is determined using a geometric mean analysis. For those rate classes that use kW for the distribution volumetric billing determinant, a conversion factor is applied to the class energy forecast based on the historical relationship between kW and kWh.

Consistent with the OEB's Chapter 2 Filing Requirements and past practice, InnPower has prepared this forecast on the basis of ten years of historical data and submits this to be sufficient for the purpose of its load forecast and this Application.

3.1. PURCHASED KWH LOAD FORECAST

An equation to predict total system purchased energy is developed using a multivariate regression model with the independent variables outlined below. The regression model uses monthly Power Purchases (kWh), which includes Wholesale Power Purchased as the dependent variable and monthly values of independent variables from January 2016 to December 2025 to determine the monthly regression coefficients.

With regard to weather normalization, InnPower has reviewed the impact of weather over the past ten years; from January 2016 to December 2025. The average weather conditions over this period are applied in the prediction formula to determine a weather normalized forecast for 2027.



3.2. MODELLED VARIABLES

The independent variables used in the multivariate regression model are designed to provide reasonable and statistically valid coverage of the drivers of electricity use by InnPower's customers. InnPower utilized the following variables:

- Weather (Heating and Cooling Degree Days)
- Days in month
- Spring/Fall flag
- Number of customers

InnPower did not include a variable for Electricity Demand Side Management ("eDSM") nor were any explicit CDM adjustments made to the forecast. InnPower tested the inclusion of a COVID-19 variable; however, the results were not statistically significant to warrant inclusion in the load forecast.

WEATHER CONDITIONS

Weather impacts on load are apparent in both the winter heating season and in the summer cooling season. For that reason, InnPower has included both Heating Degree Days and Cooling Degree Days variables in the regression analysis.

Weather data is measured in degrees Celsius by the Toronto Pearson Airport weather station as reported by Environment Canada. The 10-year average monthly values were used in generating forecast values.

DAYS IN MONTH

InnPower used the calendar-based number of days in the month in the regression analysis as an independent variable.

SPRING/FALL FLAG

The Spring/Fall flag identifies spring or fall months in a calendar year and helps to capture energy use impacted by these seasons. This variable was set to 1 for March-May and October-November of each year, with all other months set to 0.

CUSTOMERS



The total number of customers was used as an independent variable in the regression analysis, including the Residential, GS<50, GS>50, and Embedded Distributor rate classes, and excluding Street Lighting, Sentinel Lighting, and USL connections.

RESULTS

The following outlines the prediction model used by InnPower to predict weather normal purchases for the 2027 Test Year.

InnPower Monthly Predicted kWh Purchases:

= Intercept of (17,823,014)

+ Customers * 953

+ Days in Month * 615,356

+ Spring/Fall Flag * (1,023,217)

+ Heating Degree Days * 12,438

+ Cooling Degree Days * 48,882

The monthly data used in the regression model and the resulting monthly prediction for the actual and forecasted years are provided in the Load Forecast Model filed in Live Excel format with this Application as [insert file name].

The prediction formula has the following statistical results which indicate the formula has a very good fit to the actual data set.

TABLE 3-4 – STATISTICAL RESULTS

166

Multiple R	98.05%
R Square	96.15%
Adjusted R Square	95.98%
F Test	568.73
Durbin-Watson	1.08
MAPE	2.05%
T-Stats by Coefficient	
Heating Degree Days	26.19
Cooling Degree Days	20.45
Days in Month	7.51
Spring Fall Flag	-5.69
Number of Customers	37.24
Constant	-7.16

167

168 The annual results of the above prediction formula compared to the actual annual purchases from
 169 2016 to 2025 are shown below in Table 3-5, along with the predicted total system purchases for
 170 InnPower for 2026 and 2027 on a weather normal basis. Information is also provided to show the
 171 Weather Normal Conversion Factor which is used to weather normalize actual 2016 to 2025
 172 volume data. In Table 3-5, the Predicted Weather Normal values are similar to the Predicted
 173 amounts, but the weather normalized heating degree days and cooling degree days used to
 174 determine the weather normal forecast for 2026 and 2027 are used in the prediction formula in
 175 place of actual heating degree days and cooling degree days. The ratio of Predicted Weather
 176 Normal to Predicted values results in a Weather Normal Conversion Factor. This factor is applied
 177 to the Actual amount which results in the Actual Weather Normal value.

178

179 **TABLE 3-5 – TOTAL SYSTEM PURCHASES**

Year	Actual	Predicted	% Difference	Predicted Weather Normal	Weather Normal Conversion Factor	Actual Weather Normal
2016	259.38	262.33	1.14%	256.26	0.98	253.39
2017	256.77	256.76	0.00%	260.85	1.02	260.86
2018	278.81	278.49	-0.12%	271.32	0.97	271.64
2019	280.58	281.62	0.37%	280.89	1.00	279.86
2020	291.40	288.45	-1.02%	285.13	0.99	288.05
2021	295.24	290.22	-1.70%	292.58	1.01	297.63
2022	299.93	299.30	-0.21%	298.95	1.00	299.58
2023	303.10	307.23	1.36%	314.77	1.02	310.54
2024	324.70	327.26	0.79%	334.20	1.02	331.58

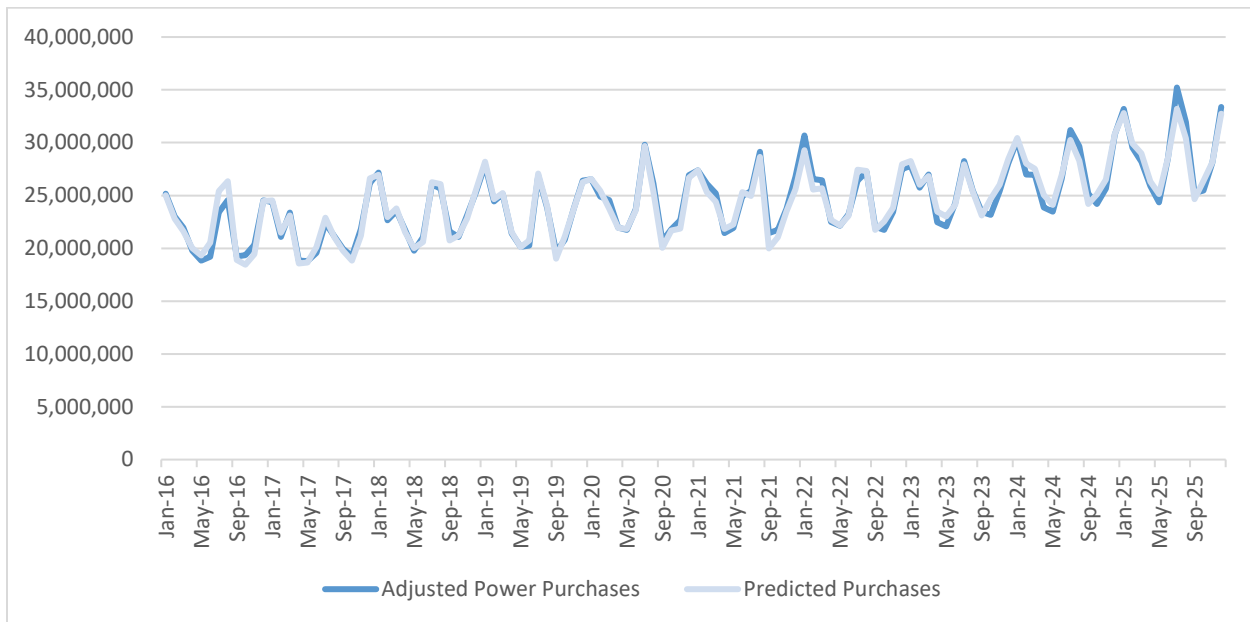


Year	Actual	Predicted	% Difference	Predicted Weather Normal	Weather Normal Conversion Factor	Actual Weather Normal
2025	349.05	347.32	-0.50%	344.02	0.99	345.74
2026 Bridge		356.16		356.16	1.00	
2027 Test		368.83		368.83	1.00	

The weather normalized amount for 2027 is determined by using 2027 independent variables in the prediction formula on a monthly basis along with the average monthly heating degree days and cooling degree days which have occurred from January 2016 to December 2025 (i.e. 10-year average weather).

Figure 3-1 below shows the variance between the modeled purchases and the historical purchases. As shown, the pattern in the forecast years shows a very similar and expected pattern.

FIGURE 3-1 - FORECASTED PURCHASES (KWH)



BILLED KWH LOAD FORECAST

To determine the total weather normalized energy billed forecast, the total weather normalized purchases forecast is adjusted by a historical loss factor. The historical loss factor used is 5.14%. With this loss factor the total weather normalized billed energy will be 338.7 GWh for 2026 (i.e. $356.2/1.0514$) and 350.8 GWh for 2027 (i.e. $368.8/1.0514$).



BILLED KWH LOAD FORECAST AND CUSTOMER/CONNECTION FORECAST BY RATE CLASS

Once the total weather normalized billed energy amount is known, this amount needs to be distributed by rate class for rate design purposes taking into consideration the customer/connection forecast and expected usage per customer/connection by rate class.

The next step in the forecasting process is to determine a customer/connection forecast. The customer/connection forecast begins with review of historical customer/connection data as shown below in Table 3-6.

TABLE 3-6 – HISTORICAL CUSTOMERS/CONNECTIONS (AVERAGE)

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Number of Customers/ Connections								
2016	15,202	1,016	76	1	75	166	2,863	19,399
2017	15,632	1,030	87	1	74	162	2,973	19,958
2018	16,491	1,082	91	1	74	162	3,097	20,997
2019	17,294	1,121	85	1	75	160	3,307	22,043
2020	17,583	1,154	80	1	73	155	3,414	22,461
2021	18,253	1,191	78	1	71	153	3,597	23,344
2022	18,755	1,246	78	1	72	151	4,014	24,317
2023	20,106	1,272	84	1	75	151	4,299	25,988
2024	21,734	1,290	83	1	70	149	4,589	27,915
2025	22,633	1,300	87	1	69	145	4,848	29,083
2026 Bridge	23,656	1,336	89	1	68	142	5,140	30,433
2027 Test	24,725	1,373	90	1	68	140	5,450	31,847

From the historical customer/connection data the growth rate in customers/connections can be evaluated, which is provided in Table 3-7.

TABLE 3-7 – GROWTH RATE IN CUSTOMERS/CONNECTIONS

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
Growth Rate in Customers/Connections							



Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
2016	2.83%	1.39%	14.66%	0.00%	-2.43%	-2.56%	3.84%
2017	5.50%	5.01%	5.00%	0.00%	0.68%	-0.21%	4.17%
2018	4.87%	3.61%	-6.50%	0.00%	0.68%	-0.98%	6.76%
2019	1.67%	2.93%	-5.88%	0.00%	-1.79%	-3.02%	3.26%
2020	3.81%	3.24%	-2.91%	0.00%	-2.96%	-1.50%	5.34%
2021	2.75%	4.61%	0.64%	0.00%	1.17%	-1.36%	11.61%
2022	7.21%	2.04%	7.67%	0.00%	4.18%	0.22%	7.11%
2023	8.10%	1.42%	-0.99%	0.00%	-6.24%	-1.60%	6.73%
2024	4.13%	0.81%	4.80%	0.00%	-1.66%	-2.64%	5.65%
Geometric Mean	104.52%	102.78%	101.63%	100.00%	99.03%	98.48%	106.03%

In normal course, the growth factor resulting from the geometric mean analysis from 2016 to 2025 is applied to the 2025 customer numbers to determine the forecast of customers/connections for 2026. The factor is then applied again to the 2026 forecast to determine the 2027 forecast. InnPower has applied this methodology to all rate classes.

Table 3-8 outlines the forecast of customers/connections by rate class for the 2025 Bridge Year and 2026 Test Year.

TABLE 3-8 – CUSTOMER/CONNECTION FORECAST

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Forecast Number of Customers/Connections								
2026 Bridge	23,656	1,336	89	1	68	142	5,140	30,433
2027 Test	24,725	1,373	90	1	68	140	5,450	31,847

The next step in the process is to review the historical customer/connection usage and to reflect this usage per customer in the forecast. Table 3-9 below provides the average annual usage per customer by rate class for 2025.

TABLE 3-9 – 2025 ACTUAL ANNUAL USAGE PER CUSTOMER



Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
Annual kWh Usage per Customer/Connection							
2025	9,555	36,665	752,232	976,590	6,163	650	204

The 2026 and 2027 forecast of usage per customer/connection have been held constant at the 2025 level since the usage per customer/connection has generally been stable or declining in most rate classes, which may reflect conservation programs over these years. Since incremental conservation programs have not been assumed in 2026 and 2027, additional usage decline has not been incorporated into the forecast. The resulting usage forecast is as follows in Table 3-10.

TABLE 3-10 – FORECAST ANNUAL KWH USAGE PER CUSTOMER/CONNECTION

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
Forecast Annual kWh Usage per Customer/Connection							
2026 Bridge	9,555	36,665	752,232	976,590	6,163	650	204
2027 Test	9,555	36,665	752,232	976,590	6,163	650	204

The preceding information is used to determine the non-normalized weather billed energy forecast by applying the forecast number of customers/connections from Table 3-8 by the forecast of annual usage per customer/connection from Table 3-10. The resulting non-normalized weather billed energy forecast is shown in the following Table 3-11.

TABLE 3-11 – NON-NORMALIZED WEATHER BILLED ENERGY FORECAST

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
Non-Normalized Weather Billed Energy Forecast (GWh)							
2026 Bridge	226.04	48.99	66.83	0.98	0.42	0.09	1.05
2027 Test	236.26	50.35	67.92	0.98	0.42	0.09	1.11

The non-normalized weather billed energy forecast has been determined, but this needs to be adjusted in order to align with the total weather normalized billed energy forecast mentioned above of 338.7 GWh for 2026 and 350.8 GWh for 2027.



The difference between the non-normalized and normalized forecast is assumed to be the adjustment to move the forecast to a weather normal basis, and this amount will be assigned to those rate classes that are weather sensitive. Table 3-12 below presents the weather sensitivity by rate class.

TABLE 3-12 – WEATHER SENSITIVITY BY RATE CLASS

Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting
Weather Sensitivity						
82.50%	82.50%	65.00%	0.00%	0.00%	0.00%	0.00%

The difference between the non-normalized and normalized forecast has been assigned on a pro-rata basis to each rate class based on the above level of weather sensitivity. The following Table 3-13 outlines how the rate classes have been adjusted to align the non-normalized forecast with the normalized forecast.

TABLE 3-13 – ALIGNMENT OF NON-NORMAL TO WEATHER NORMAL FORECAST

Year	Residential	General Service < 50 kW	General Service > 50 kW	Embedded Distributor	Unmetered Scattered Load	Sentinel Lighting	Street Lighting	Total
Non-normalized Weather Billed Energy Forecast (GWh)								
2026 Bridge	226.04	48.99	66.83	0.98	0.42	0.09	1.05	344.40
2027 Test	236.26	50.35	67.92	0.98	0.42	0.09	1.11	357.13
Weather Adjustment (GWh)								
2026 Bridge	-4.31	-0.93	-1.00	0.00	0.00	0.00	0.00	(6.25)
2027 Test	-4.82	-1.03	-1.09	0.00	0.00	0.00	0.00	(6.94)
Weather Normalized Billed Energy Forecast (GWh)								
2026 Bridge	221.73	48.06	65.82	0.98	0.42	0.09	1.05	338.15
2027 Test	231.43	49.32	66.83	0.98	0.42	0.09	1.11	350.18

BILLED KW LOAD FORECAST

There are a number of InnPower customers/connections that are charged volumetric distribution on a per kW basis.



For the GS > 50, Embedded Distributor, Sentinel, Street Lights, and Embedded Distributor rate classes, the energy forecast (kWh) needs to be converted to kW for rate setting purposes. To accomplish this conversion, the 10-year average ratio of kW to kWh from 2015 through 2024 is applied to the forecasted kWh for the GS>50, Sentinel, Street Lights, and Embedded Distributor rate classes to produce the required kW for 2026 and 2027.

Table 3-14 below outlines the average ratio of kW to kWh for each rate class from 2016 through 2025.

TABLE 3-14 – AVERAGE OF 2016-2025 KW/KWH RATIO PER APPLICABLE CLASS

Year	General Service > 50 kW	Embedded Distributor	Sentinel Lighting	Street Lighting
2016	0.0026	0.0025	0.0029	0.0030
2017	0.0026	0.0025	0.0028	0.0031
2018	0.0026	0.0026	0.0028	0.0030
2019	0.0025	0.0024	0.0028	0.0030
2020	0.0026	0.0025	0.0029	0.0030
2021	0.0027	0.0026	0.0030	0.0030
2022	0.0028	0.0026	0.0030	0.0030
2023	0.0029	0.0026	0.0030	0.0031
2024	0.0029	0.0031	0.0034	0.0030
2025	0.0032	0.0030	0.0031	0.0030
10-year Average	0.27%	0.26%	0.30%	0.30%

The following table outlines the forecast of kW for the above noted rate classes which reflects the ratios in Table 3-14 being applied to the results in Table 3-13.

TABLE 3-15 – KW FORECAST BY APPLICABLE RATE CLASS

Year	General Service > 50 kW	Embedded Distributor	Sentinel Lighting	Street Lighting	Total
2026 Bridge	176,623	2,575	295	3,190	182,683
2026 Test	179,308	2,575	295	3,382	185,561

FORECAST SUMMARY

Table 3-16 below provides a summary of the load forecast on a billing determinant basis by rate class.



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TABLE 3-16 – FORECAST SUMMARY

	2024 Board Approved	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Actual	2022 Actual	2023 Actual	2024 Actual	2025 Actual	2026 Bridge Weather Normal	2027 Test Weather Normal	Variance
Actual kWh Purchases		259,382,036	256,769,435	278,813,236	280,581,537	291,404,252	295,240,254	299,934,504	303,103,175	324,696,010	349,049,038			
Predicted kWh Purchases	320,664,140	262,328,707	256,761,569	278,488,834	281,617,875	288,446,344	290,224,915	299,300,057	307,229,578	327,259,418	347,316,179	356,159,168	368,832,356	48,168,216
Total Billed	302,070,456	244,038,339	243,192,565	264,471,274	271,021,306	276,838,134	279,283,303	284,467,925	286,827,136	308,438,102	332,174,438	338,149,881	350,182,246	48,111,790
By Class														
Residential														
Customers	20,736	15,202	15,632	16,491	17,294	17,583	18,253	18,755	20,106	21,734	22,633	23,656	24,725	3,989
kWh	196,515,750	150,135,917	145,250,461	160,853,753	161,284,520	174,957,600	178,499,709	181,843,663	184,116,037	198,216,444	216,260,222	221,726,183	231,433,978	34,918,228
General Service < 50 kW														
Customers	1,314	1,016	1,030	1,082	1,121	1,154	1,191	1,246	1,272	1,290	1,300	1,336	1,373	59
kWh	43,471,713	33,558,137	32,775,442	36,037,382	42,480,663	39,873,537	40,487,961	43,953,859	44,829,085	51,768,404	47,670,304	48,058,712	49,324,890	5,853,177
General Service > 50 kW														
Customers	87	76	87	91	85	80	78	78	84	83	87	89	90	3
kWh	59,688,867	58,286,974	63,107,665	65,404,829	65,090,125	59,834,547	58,095,871	56,383,557	55,566,830	56,073,429	65,757,609	65,824,563	66,825,175	7,136,308
kW	156,832	151,192	163,230	168,619	164,137	153,609	157,905	157,378	162,698	160,507	176,584	176,623	179,308	22,477
Embedded Distributor														
Customers	1	1	1	1	1	1	1	1	1	1	1	1	1	-
kWh	935,589	948,376	920,352	971,890	922,954	945,311	910,171	935,589	902,443	949,808	976,590	976,590	976,590	41,001
kW	2,361	2,398	2,284	2,504	2,185	2,362	2,359	2,460	2,369	2,964	2,883	2,575	2,575	214
Unmetered Scatter Load														
Connections	75	75	74	74	75	73	71	72	75	70	69	68	68	(7)
kWh	466,609	461,652	460,196	482,914	485,587	439,968	439,248	447,888	447,888	402,486	425,256	421,127	417,038	(49,572)
Sentinel Lighting														
Connections	149	166	162	162	160	155	153	151	151	149	145	142	140	(9)
kWh	96,591	103,242	103,849	105,460	103,805	100,969	99,206	97,587	97,106	87,522	93,986	92,556	91,147	(5,445)
kW	267	295	295	295	295	295	295	295	295	295	295	295	295	28
Street Lighting														
Connections	4,460	2,863	2,973	3,097	3,307	3,414	3,597	4,014	4,299	4,589	4,848	5,140	5,450	990
kWh	895,336	544,042	574,600	615,046	653,653	686,202	751,138	805,782	867,746	940,009	990,470	1,050,151	1,113,428	218,092
kW	2,674	1,645	1,755	1,867	1,983	2,074	2,280	2,454	2,648	2,850	3,011	3,190	3,382	708
Total														
Customer/Connections	26,822	19,399	19,958	20,997	22,043	22,461	23,344	24,317	25,988	27,915	29,083	30,433	31,847	5,025
kWh	302,070,456	244,038,339	243,192,565	264,471,274	271,021,306	276,838,134	279,283,303	284,467,925	286,827,136	308,438,102	332,174,438	338,149,881	350,182,246	48,111,790
kW from applicable classes	162,134	155,530	167,564	173,285	168,600	158,340	162,839	162,586	168,010	166,615	182,773	182,683	185,561	23,426

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3.3. INTEGRATED ENERGY PLAN

On June 12, 2025, the OEB received a directive regarding the implementation of the Government of Ontario's Integrated Energy Plan (IEP). Pursuant to that directive, and specifically in relation to item 2 (2.1 and 2.2), the OEB Filing Requirements state:

- The load forecast shall incorporate multiple demand scenarios. This includes a reference, high, and low scenario that takes into consideration the electrification of transportation, industry and any other areas that have electrification impacts. The high and low usage scenarios must include appropriate and substantiated assumptions. A distributor may use modelling done by others to assess multiple demand scenarios.
- The load forecast should incorporate economic growth projections, including employment, population and housing.
- The load forecast should consider future average weather impacts and include average, minimum (HDD) and maximum (CDD) temperatures.

Distributors should begin incorporating these requirements into their applications on a best-efforts basis by June 30, 2026. Distributors must address the requirements in applications filed after April 1, 2027 (expected for rates effective January 1, 2028 or later).

Given the size and characteristics of InnPower's service territory, no explicit adjustments have been made in the load forecast for economic growth and future weather projections. These factors are not expected to materially influence the forecast over the test period and are therefore not incorporated.

4. ACCURACY OF LOAD FORECAST AND VARIANCE ANALYSIS

Provided in the following sections is InnPower's analysis of the accuracy of the historical load forecast for consumption and demand covering historical actual results from 2024 to 2025, the 2026 Bridge Year and the 2027 Test Year. Consistent with Section 2, customer and connection counts are shown as annual averages.



The following table provides the 2024 OEB approved Customer/Connections, kWh and kW values. These aggregated OEB Approved figures will be utilized in the variance analysis in the next section.

TABLE 3-17 – 2024 OEB APPROVED CUSTOMERS/CONNECTIONS, kWh and kW

Line No.	Rate Class	Billing Determinants		
		Customers/Connections	kWh	kW
1	Residential	20,736	196,515,750	
2	General Service < 50 kW	1,314	43,471,713	
3	General Service > 50 kW	87	59,688,867	156,832
4	Embedded Distributor	1	935,589	2,361
5	Unmetered Scattered Load	75	466,609	
6	Sentinel Lighting	149	96,591	267
7	Street Lighting	4,460	895,336	2,674
8	Total	26,822	302,070,456	162,134

4.1. VARIANCE ANALYSIS

2024 OEB APPROVED VS. 2024 ACTUAL RESULTS

TABLE 3-18 – 2024 OEB APPROVED VS. 2024 ACTUAL BILLING DETERMINANTS

Line No.	Rate Class	Customers/Connections			Volumes			
		2024 OEB Approved	2024 Actual	Variance	2024 OEB Approved	2024 Actual	kW/kWh	Variance
1	Residential	20,736	21,734	998	196,515,750	198,216,444	kWh	1,700,694
2	General Service < 50 kW	1,314	1,290	(24)	43,471,713	51,768,404	kWh	8,296,691
3	General Service > 50 kW	87	83	(4)	156,832	160,507	kW	3,675
4	Embedded Distributor	1	1	-	2,361	2,964	kW	602
5	Unmetered Scattered Load	75	70	(5)	466,609	402,486	kWh	(64,123)
6	Sentinel Lighting	149	149	(0)	267	295	kW	28
7	Street Lighting	4,460	4,589	128	2,674	2,850	kW	176
8	Total	26,822	27,915	1,093				

TABLE 3-19 – 2024 OEB APPROVED VS. 2024 WEATHER NORMAL BILLING DETERMINANTS



Line No.	Rate Class	Customers/Connections			Volumes			
		2024 OEB Approved	2024 Actual	Variance	2024 OEB Approved	2024 Normal	kW/kWh	Variance
1	Residential	20,736	21,734	998	196,515,750	202,418,632	kWh	5,902,882
2	General Service < 50 kW	1,314	1,290	(24)	43,471,713	52,865,894	kWh	9,394,181
3	General Service > 50 kW	87	83	(4)	156,832	160,507	kW	3,675
4	Embedded Distributor	1	1	-	2,361	2,964	kW	602
5	Unmetered Scattered Load	75	70	(5)	466,609	411,019	kWh	(55,591)
6	Sentinel Lighting	149	149	(0)	267	295	kW	28
7	Street Lighting	4,460	4,589	128	2,674	2,850	kW	176
8	Total	26,822	27,915	1,093				

2024 billing determinants are compared with the 2024 OEB-approved forecast to assess variances in customer/connection counts and volumes across rate classes. Embedded Distributor, GS<50, Sentinel Lighting and Street Lighting rate classes experienced the highest increase in volumes, with respective increases of 26%, 19%, 10% and 7% from the OEB approved values. The increase in volume may be partially attributable to weather conditions. Heating degree days were 3% lower in 2024 than 2023 (3,223 HDD in 2023 vs 3,112 HDD in 2024) and cooling degree days were 12% higher in 2024 than 2023 (349 CDD in 2023 vs. 390 CDD in 2024).

2024 VS 2025

TABLE 3-20 – 2024 ACTUAL VS. 2025 ACTUAL BILLING DETERMINANTS

Line No.	Rate Class	Customers/Connections			Volumes			
		2024 Actual	2025 Actual	Variance	2024 Actual	2025 Actual	kW/kWh	Variance
1	Residential	21,734	22,633	898	198,216,444	216,260,222	kWh	18,043,778
2	General Service < 50 kW	1,290	1,300	11	51,768,404	47,670,304	kWh	(4,098,100)
3	General Service > 50 kW	83	87	4	160,507	176,584	kW	16,077
4	Embedded Distributor	1	1	-	2,964	2,883	kW	(81)
5	Unmetered Scattered Load	70	69	(1)	402,486	425,256	kWh	22,770
6	Sentinel Lighting	149	145	(4)	295	295	kW	-
7	Street Lighting	4,589	4,848	259	2,850	3,011	kW	161
8	Total	27,915	29,083	1,167				



TABLE 3-21 – 2024 NORMALIZED VS. 2025 NORMALIZED BILLING DETERMINANTS

Line No.	Rate Class	Customers/Connections			Volumes			
		2024 Actual	2025 Actual	Variance	2024 Normal	2025 Normal	kW/kWh	Variance
1	Residential	21,734	22,633	898	202,418,632	214,210,075	kWh	11,791,442
2	General Service < 50 kW	1,290	1,300	11	52,865,894	47,218,390	kWh	(5,647,504)
3	General Service > 50 kW	83	87	4	160,507	228,467	kW	67,960
4	Embedded Distributor	1	1	-	2,964	2,883	kW	(81)
5	Unmetered Scattered Load	70	69	(1)	411,019	421,225	kWh	10,206
6	Sentinel Lighting	149	145	(4)	295	295	kW	-
7	Street Lighting	4,589	4,848	259	2,850	3,011	kW	161
8	Total	27,915	29,083	1,167				

2025 billing determinants are compared with the 2024 Billing Determinants to assess variances in customer/connection counts and volumes across rate classes. GS>50, Residential, Unmetered Scattered Load, and Street Lighting rate classes experienced the highest increase in volumes, with respective increases of 10%, 9%, 6%, and 6% from 2024 values. The increase in volume may be attributable to weather conditions. Heating degree days were 18% higher in 2025 than 2024 (3,112 HDD in 2024 vs 3,682 HDD in 2025) and cooling degree days were 17% higher in 2025 than 2024 (390 CDD in 2024 vs. 454 CDD in 2025).

2025 vs. 2026 Bridge

Table 3-22 – 2025 Actual vs. 2026 Bridge Year Forecast Billing Determinants

Line No.	Rate Class	Customers/Connections			Volumes			
		2025 Actual	2026 Normal	Variance	2025 Actual	2026 Normal	kW/kWh	Variance
1	Residential	22,633	23,656	1,023	216,260,222	221,726,183	kWh	5,465,961
2	General Service < 50 kW	1,300	1,336	36	47,670,304	48,058,712	kWh	388,407
3	General Service > 50 kW	87	89	1	176,584	176,623	kW	39
4	Embedded Distributor	1	1	-	2,883	2,575	kW	(307)
5	Unmetered Scattered Load	69	68	(1)	425,256	421,127	kWh	(4,129)
6	Sentinel Lighting	145	142	(2)	295	295	kW	0
7	Street Lighting	4,848	5,140	292	3,011	3,190	kW	179
8	Total	29,083	30,433	1,350				



Table 3-23 – 2025 Normalized vs. 2026 Bridge Year Forecast Billing Determinants

Line No.	Rate Class	Customers/Connections			Volumes			
		2025 Actual	2026 Normal	Variance	2025 Normal	2026 Normal	kW/kWh	Variance
1	Residential	22,633	23,656	1,023	214,210,075	221,726,183	kWh	7,516,108
2	General Service < 50 kW	1,300	1,336	36	47,218,390	48,058,712	kWh	840,322
3	General Service > 50 kW	87	89	1	176,584	176,623	kW	39
4	Embedded Distributor	1	1	-	2,883	2,575	kW	(307)
5	Unmetered Scattered Load	69	68	(1)	421,225	421,127	kWh	(98)
6	Sentinel Lighting	145	142	(2)	295	295	kW	0
7	Street Lighting	4,848	5,140	292	3,011	3,190	kW	179
8	Total	29,083	30,433	1,350				

2025 billing determinants are compared with the 2026 forecast billing determinants to assess variances in customer/connection counts and volume across rate classes.

Street lighting and Residential are expected to increase by 6% and 3% while Embedded Distributor is expected to experience a 11% decrease in the volumes. The decrease could be attributed to weather conditions. Heating degree days are expected to be 5.3% lesser in 2026 than 2025 (3,682 HDD in 2025 vs 3,488 HDD in 2026) and cooling degree days are expected to be 4% lower in 2026 than 2025 (454 CDD in 2025 vs. 436 CDD in 2026).

2026 Bridge vs. 2027 Test



Table 3-24 –2026 Bridge Year Forecast vs. 2027 Test Year Forecast Billing Determinants

Line No.	Rate Class	Customers/Connections			Volumes			
		2026 Normal	2027 Normal	Variance	2026 Normal	2027 Normal	kW/kWh	Variance
1	Residential	23,656	24,725	1,070	221,726,183	231,433,978	kWh	9,707,795
2	General Service < 50 kW	1,336	1,373	37	48,058,712	49,324,890	kWh	1,266,179
3	General Service > 50 kW	89	90	1	176,623	179,308	kW	2,685
4	Embedded Distributor	1	1	-	2,575	2,575	kW	-
5	Unmetered Scattered Load	68	68	(1)	421,127	417,038	kWh	(4,089)
6	Sentinel Lighting	142	140	(2)	295	295	kW	-
7	Street Lighting	5,140	5,450	310	3,190	3,382	kW	192
8	Total	30,433	31,847	1,415				

2026 forecast billing determinants are compared with the 2027 forecast billing determinants to assess variances in customer/connection counts and volume across rate classes. Keeping weather constant, the highest increase in volume is expected for street lighting (6%), followed by residential customers (4%), GS<50 (3%), and GS>50 (2%).