InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 1 of 27

2 **EXHIBIT 3 - REVENUES**

1

3 2.3 Operation Revenue

4 2.3.1 Summary of Load and Customer/Connection Forecast

The purpose of this evidence is to present the process used by InnPower Corporation to prepare the weather normalized load and customer/connection forecast used to design the proposed 2017 Test Year distribution rates. As part of preparing responses to interrogatories on the application, this evidence has been updated to include 2016 actual data. The evidence has been further updated to reflect the changes suggested in the technical conference held on September 5 and 6, 2017

In summary, InnPower Corporation used the same regression analysis methodology approved by the Ontario Energy Board (the "OEB") in its 2013 Cost of Service ("COS") application (EB-2012-0139) and updated the analysis for actual data to the end of the 2016. The updated regression analysis used the some variables as those in the 2013 COS application since these variables continued to provide very good statistical results.

With regards to the overall process of load forecasting, InnPower Corporation believes that conducting a 15 regression analysis on historical electricity purchases to produce an equation that will predict purchases 16 is appropriate. InnPower Corporation has the data for the amount of electricity (in kWh) purchased from 17 18 the IESO for use by InnPower Corporation's customers. With a regression analysis, these purchases can be related to other monthly explanatory variables such as heating degree days and cooling degree 19 days which occur in the same month. The results of the regression analysis produce an equation that 20 predicts the purchases based on the explanatory variables. This prediction model is then used as the 21 22 basis to forecast the total level of weather normalized purchases for the Test Year, which is converted to 23 billed kWh by rate class. A detailed explanation of the process is provided later in this evidence.

During the review process of previous COS applications, for other applicants, parties have expressed concerns with the load forecasting weather normalization process being used in this application. It has been suggested the weather normalization should be conducted on an individual rate class basis and the regression analysis would be based on monthly consumed kWh by rate class. As undertaken in the 2013 COS application (EB-2013-0139), InnPower Corporation conducted a regression analysis on an

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 2 of 27

individual rate class basis. Consistent with the results in the 2013 COS application, the R square and Adjusted R square values for the rate class regression analysis were not acceptable compared to the results of the power purchased method. The R square and Adjusted R square values by rate class and power purchased method are shown in the following table. Based on these results, InnPower Corporation concluded using the equation resulting from the power purchased method would be the appropriate approach to prepare the load forecast.

Table 3-1: R Square and Adjusted R Square Values

| Class | R Square | Adjusted R Square |
|--------------------------------|----------|----------------------|
| Residential | 78% | 77% |
| General Service < 50 kW | 72% | 71% |
| General Service 50 to 4,999 kW | 3% | 0% |
| Power Purchased | 96% | 96% |

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11 Based on the OEB's approval of this methodology in InnPower Corporation's last COS application along

12 with the OEB's approval of this same method in recent COS applications for other applicants, InnPower

13 Corporation submits the load forecasting methodology is reasonable at this time for the purposes of this

14 Application.

15 The following provides the material to support the weather normalized load forecast used by InnPower 16 Corporation in this Application.

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 3 of 27

1 Table 3-2, Table 3-3 and Table 3-4 below provide a summary of the weather normalized load and 2 customer/connection forecast used in this Application.

Table 3-2 Summary of Load and Customer/Connection Forecast

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| Year | Billed (GWh) | Growth (GWh) | Percent Change | Customer/ Connection Count | Growth | Percent Change (%) |
|-----------------------------|----------------------|-----------------|-------------------|----------------------------------|--------|--------------------------|
| Billed Energy (GWh) and Cus | tomer Count / Connec | ctions | | | | |
| | | | | | | |
| 2013 Board Approved | 233.4 | | | 18,369 | | |
| | | | | | | |
| 2007 Actual | 219.6 | | | 16,645 | | |
| 2008 Actual | 226.8 | 7.2 | 3.3% | 17,044 | 399 | 2.4% |
| 2009 Actual | 229.1 | 2.3 | 1.0% | 17,361 | 317 | 1.9% |
| 2010 Actual | 231.9 | 2.8 | 1.2% | 17,552 | 191 | 1.1% |
| 2011 Actual | 233.6 | 1.7 | 0.7% | 17,776 | 224 | 1.3% |
| 2012 Actual | 230.0 | (3.7) | (1.6%) | 17,903 | 127 | 0.7% |
| 2013 Actual | 232.8 | 2.9 | 1.3% | 18,286 | 383 | 2.1% |
| 2014 Actual | 238.3 | 5.5 | 2.4% | 18,736 | 450 | 2.5% |
| 2015 Actual | 242.6 | 4.2 | 1.8% | 19,073 | 337 | 1.8% |
| 2016 Actual | 242.0 | (0.6) | (0.2%) | 19,398 | 325 | 1.7% |
| 2017 Test - Normalized | 239.7 | (2.3) | (1.0%) | 19,906 | 508 | 2.6% |

5

6 In the above Table 3-2, 2007 to 2016 are reflecting actual weather conditions in the year and. 2017 is

weather normalized. In Appendix 2-IB all actual consumption data from 2011 to 2016 has been weather
 normalized using the OEB's weather normalization process.

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 4 of 27

1 On a rate class basis, the actual and forecasted billed amounts are shown in Table 3-3. Table 3-4 provides the actual and forecasted number of customers/connections. Customer/Connection values are 2 on a 12 month average basis. The values for Sentinel Lighting, Street Lighting and Unmetered Scattered 3 Load are measured as connections. The annual usage per customer/connection is shown in Table 3-5. 4 5

Table 3-3 Billed Energy by Rate Class

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InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 5 of 27

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total |
|------------------------|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|-------|
| Billed Energy (GWh) | | | | | | | |
| 2013 Board Approved | 148.1 | 31.8 | 51.3 | 0.1 | 1.5 | 0.5 | 233.4 |
| 2007 Actual | 149.5 | 28.6 | 39.3 | 0.1 | 1.5 | 0.5 | 219.6 |
| 2008 Actual | 150.8 | 28.6 | 45.3 | 0.1 | 1.5 | 0.5 | 226.8 |
| 2009 Actual | 151.2 | 28.3 | 47.5 | 0.1 | 1.6 | 0.5 | 229.1 |
| 2010 Actual | 149.2 | 29.4 | 51.1 | 0.1 | 1.6 | 0.5 | 231.9 |
| 2011 Actual | 150.9 | 30.8 | 49.9 | 0.1 | 1.5 | 0.5 | 233.6 |
| 2012 Actual | 145.7 | 30.9 | 51.1 | 0.1 | 1.6 | 0.5 | 230.0 |
| 2013 Actual | 148.8 | 31.0 | 50.9 | 0.1 | 1.5 | 0.5 | 232.8 |
| 2014 Actual | 153.3 | 32.2 | 50.6 | 0.1 | 1.6 | 0.5 | 238.3 |
| 2015 Actual | 151.9 | 34.4 | 54.6 | 0.1 | 1.1 | 0.5 | 242.6 |
| 2016 Actual | 149.5 | 33.4 | 58.0 | 0.1 | 0.5 | 0.5 | 242.0 |
| 2017 Test - Normalized | 144.0 | 31.4 | 63.1 | 0.1 | 0.6 | 0.5 | 239.7 |

Table 3-4 Customer/Connection by Rate Class

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total |
|--------------------------|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--------|
| Number of Customers/Conn | ections | | | | | | |
| 2013 Board Approved | 14,189 | 910 | 66 | 237 | 2,889 | 78 | 18,369 |
| 2007 Actual | 12,991 | 819 | 71 | 186 | 2,489 | 89 | 16,645 |
| 2008 Actual | 13,277 | 836 | 73 | 186 | 2,588 | 84 | 17,044 |
| 2009 Actual | 13,533 | 855 | 72 | 193 | 2,625 | 83 | 17,361 |
| 2010 Actual | 13,651 | 865 | 68 | 201 | 2,685 | 82 | 17,552 |
| 2011 Actual | 13,779 | 896 | 67 | 225 | 2,728 | 81 | 17,776 |
| 2012 Actual | 13,943 | 914 | 68 | 172 | 2,728 | 79 | 17,903 |
| 2013 Actual | 14,181 | 949 | 67 | 168 | 2,843 | 78 | 18,286 |
| 2014 Actual | 14,509 | 991 | 67 | 169 | 2,923 | 76 | 18,736 |
| 2015 Actual | 14,862 | 1,001 | 72 | 166 | 2,898 | 76 | 19,073 |
| 2016 Actual | 15,202 | 1,016 | 76 | 166 | 2,863 | 75 | 19,398 |
| 2017 Test - Normalized | 15,555 | 1,034 | 88 | 161 | 2,995 | 74 | 19,906 |

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load |
|---------------------------|---------------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|
| Energy Usage per Customer | /Connection (kWh pe | r customer/co | nnection) | | 1 | I |
| 2013 Board Approved | 10,441 | 34,924 | 777,717 | 443 | 525 | 6,085 |
| 2007 Actual | 11,511 | 34,967 | 553,811 | 679 | 601 | 5,882 |
| 2008 Actual | 11,360 | 34,185 | 620,129 | 668 | 593 | 6,097 |
| 2009 Actual | 11,170 | 33,071 | 659,351 | 632 | 601 | 5,991 |
| 2010 Actual | 10,926 | 33,989 | 751,894 | 581 | 588 | 6,064 |
| 2011 Actual | 10,948 | 34,331 | 745,100 | 490 | 534 | 6,085 |
| 2012 Actual | 10,451 | 33,846 | 752,954 | 659 | 575 | 6,125 |
| 2013 Actual | 10,496 | 32,698 | 760,026 | 606 | 518 | 6,114 |
| 2014 Actual | 10,568 | 32,507 | 753,235 | 637 | 556 | 6,186 |
| 2015 Actual | 10,220 | 34,361 | 764,144 | 625 | 382 | 6,151 |
| 2016 Actual | 9,835 | 32,877 | 767,108 | 640 | 187 | 6,271 |
| 2017 Test - Normalized | 9,258 | 30,373 | 721,401 | 640 | 187 | 6,272 |

Table 3-5 Annual Usage per Customer/Connection by Rate Class

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5 **2.3.1.1 Forecast Methodology – Multivariate Regression Model**

7 InnPower Corporation's weather normalized load forecast is developed in a three-step process. First, a total system weather normalized purchased energy forecast is developed based on multivariate 8 9 regression model that incorporates historical load, weather, and other variables that impact electricity 10 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 11 class is developed based on a forecast of customer/connections numbers and the 2016 usage per 12 customer/connection. For the rate classes that have weather sensitive load their forecasted billed energy 13 is adjusted to ensure that the total billed energy forecast by rate class is equivalent to the total weather 14 15 normalized billed energy forecast that has been determined from the regression analysis. The 2017 forecast of average customers/connections by rate class is determined based on using the actual 16 customers/connections by rate class from January 2017 to August 2017 and determining the average 17 monthly increase over that time. The average monthly increase is applied to the August 2017 value to 18 19 forecast the September 2017 amount. The same process is used to the forecast the months of October 20 2017 to December 2017. Then the average of all the month in 2017 is used as the 2017 forecast.

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 7 of 27

The billed energy forecast is also adjusted for expected Conservation and Demand Management ("CDM") results in 2017 from 2016 and 2017 programs. For those rate classes that use kW for the distribution volumetric billing determinant an adjustment factor is applied to the class energy forecast based on the historical relationship between kW and kWh. The following will explain the forecasting process in more detail.

7 Purchased KWh Load Forecast

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), calendar variables (days in month, seasonal) and number of customers in the Residential, General Service < 50 kW and General Service 50 to 4,999 kW rate classes. The regression model uses monthly kWh and monthly values of independent variables from January 2007 to December 2016 to determine the monthly regression coefficients.

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With regards to weather normalization, InnPower Corporation submits that it is appropriate to review the impact of weather over the past ten years January 2007 to December 2016 since it is consistent with a time period outlined in the filing requirements and it is reflective of more recent weather conditions. The average weather conditions over this period are applied in the prediction formula to determine a weather normalized forecast for 2017. In accordance with the filing requirement, InnPower Corporation has also provided sensitivity analysis showing the impact on the 2017 forecast of purchases. This analysis assumes weather normal conditions are based on a 20 year trend of weather data.

23

The multivariate regression model has determined drivers of year-over-year changes in InnPower Corporation's load growth are weather, "calendar" factors and number of customers. These factors are captured within the multivariate regression model.

27

Weather impacts on load are apparent in both the winter heating season, and in the summer cooling season. For that reason, both Heating Degree Days (i.e. a measure of coldness in winter) and Cooling Degree Days (i.e. a measure of summer heat) are modeled.

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The second main factor determining energy use in the monthly model can be classified as "calendar factors". For example, the number of days in a particular month will impact energy use. The modeling of

| 1 | purchased energy uses number of days in the month and a "flag" variable to capture the typically lower |
|----|--|
| 2 | usage in the spring and fall months. |
| 3 | |
| 4 | The third main factor is the total number of customers in the Residential, General Service < 50 kW and |
| 5 | General Service 50 to 4,999 kW rate classes. |
| 6 | |
| 7 | The following outlines the predication model used by InnPower Corporation to predict weather normal |
| 8 | purchases the 2017 Test Year. |
| 9 | |
| 10 | InnPower Corporation Monthly Predicted kWh Purchases: |
| 11 | = Heating Degree Days * 12,944 |
| 12 | + Cooling Degree Days * 33,134 |
| 13 | + Number of Days in the Month * 646,626 |
| 14 | + Spring Fall Flag * (945,406) |
| 15 | + Number of Customers * 513 |
| 16 | + Constant of (11,122,367) |
| 17 | |
| 18 | The monthly data used in the regression model and the resulting monthly prediction for the actual and |
| 19 | forecasted years are provided in Appendix 3-A. |
| 20 | |
| 21 | The sources of data for the various data points are: |
| 22 | |
| 23 | a) Environment Canada website for monthly heating degree days and cooling degree days. |
| 24 | Weather data form the Toronto Pearson International Airport weather station was used. 18 $^{\circ}$ C is |
| 25 | the base numbers from which heating degree days and cooling degree days are measured. |
| 26 | b) The calendar provided information related to number of days in the month and the spring/fall flag. |
| 27 | c) InnPower Corporation's billing system provided the historical number of customers. |
| 28 | |
| 29 | The prediction formula has the following statistical results which generally indicate the formula has a |
| 30 | good fit to the actual data set. |
| 31 | |
| 32 | |

Table 3-6 Statistical Results

| Statistic | Value |
|---|-------|
| R Square | 96.1% |
| Adjusted R Square | 96.0% |
| F Test | 565.8 |
| MAPE (Monthly) | 2.1% |
| T-stats by Coefficient | |
| Heating Degree Days | 38.7 |
| Cooling Degree Days | 16.7 |
| Number of Days in Month | 9.5 |
| Spring Fall Flag | (6.7) |
| Number of Customers - 3 Main Classes | 7.0 |
| Constant | (4.8) |

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4 The annual results of the above prediction formula compared to the actual annual purchases from 2007

5 to 2016 are shown in Figure 3-2 below.

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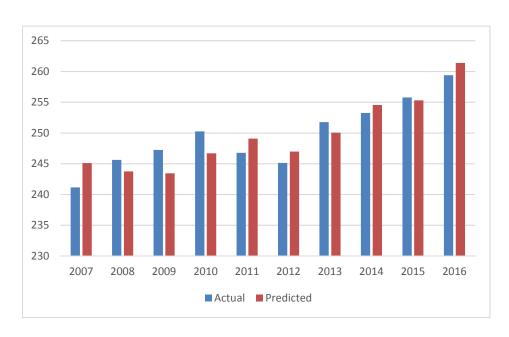


Figure 3-2 Actual vs Predicted Purchases (Millions of kWhs)

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 10 of 27

- 1 Table 3-7 below outlines the data that supports the above chart. In addition, the predicted total system
- 2 purchases for InnPower Corporation on a weather normal basis. In addition, values for 2017 Test Year

Table 3-7 Total System Purchase

- 3 are provided on a 20 year trend assumption for weather normalization as per the filing requirements.
- 4
- 5

| Year | Actual | Predicted | % Difference |
|--|--------|-----------|--------------|
| Purchased Energy (GWh) | | | |
| 2007 | 241.2 | 245.1 | 1.6% |
| 2008 | 245.6 | 243.8 | (0.8%) |
| 2009 | 247.2 | 243.4 | (1.5%) |
| 2010 | 250.2 | 246.7 | (1.4%) |
| 2011 | 246.8 | 249.1 | 0.9% |
| 2012 | 245.1 | 247.0 | 0.8% |
| 2013 | 251.8 | 250.1 | (0.7%) |
| 2014 | 253.3 | 254.5 | 0.5% |
| 2015 | 255.8 | 255.3 | (0.2%) |
| 2016 | 259.4 | 261.4 | 0.8% |
| 2017 Test - Normalized | | 259.7 | |
| 2017 Test - Normalized - 20 Year Trend | | 260.6 | |

6

7

The weather normalized amount for 2017 is determined by using 2017 dependent 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 2007 to December 2016 (i.e. 10 years). The 2017 weather normal 20 year trend value reflects the trend in monthly heating degree days and cooling degree days which have occurred from January 1997 to December 2016.

Billed KWh Load Forecast

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To determine the total weather normalized energy billed forecast, the total system weather normalized purchases forecast is adjusted by an average historical loss factor of 7.31%. The following table shows the conversion from total power purchases to total billed.

19 20 21

Table 3-8 Conversion of Total System Purchases to Total Billed

| Year | Power Purchased | Loss Factor | Billed |
|------------------------|--------------------|-------------|--------|
| 2017 Test - Normalized | 259.7 | 1.0731 | 242.0 |

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2.3.1.2 Normalized Average Use per Customer 5

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Billed KWh Load Forecast and Customer/Connection Forecast by Rate Class 8

Since the total weather normalized billed energy amount is known this amount needs to be distributed by 9 10 rate class for rate design purposes taking into consideration the customer/connection forecast and expected usage per customer by rate class. 11

12

13 The next step in the forecasting process is to determine a customer/connection forecast. The customer/connection forecast is based on reviewing actual 2017 customer/connection monthly data that 14 15 is available as shown in the following Table 3-9.

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- 17 18

Table 3-9 2017 Actual Customer/Connection Data by Month

| Month | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total | | | |
|--|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--------|--|--|--|
| lumber of Customers/Connections (2017) | | | | | | | | | | |
| January | 15,377 | 1,023 | 78 | 165 | 2,884 | 75 | 19,602 | | | |
| February | 15,382 | 1,022 | 78 | 165 | 2,909 | 75 | 19,631 | | | |
| March | 15,396 | 1,015 | 85 | 162 | 2,909 | 74 | 19,641 | | | |
| April | 15,409 | 1,015 | 85 | 162 | 2,916 | 74 | 19,661 | | | |
| May | 15,441 | 1,023 | 85 | 161 | 2,985 | 73 | 19,768 | | | |
| June | 15,475 | 1,028 | 85 | 161 | 2,985 | 73 | 19,807 | | | |
| July | 15,592 | 1,037 | 89 | 161 | 3,025 | 73 | 19,977 | | | |
| August | 15,641 | 1,044 | 89 | 161 | 3,025 | 73 | 20,033 | | | |

19 20

From the 2017 actual customer/connection data the growth in customer/connection can be evaluated 21

which is provided on the following Table 3-10. 22

23

| Month | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load |
|---------------------|--------------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|
| Growth in Customers | Connections (2017) | | | | | |
| January | | | | | | |
| February | 5 | -1 | 0 | 0 | 25 | 0 |
| March | 14 | -7 | 7 | -3 | 0 | -1 |
| April | 13 | 0 | 0 | 0 | 7 | 0 |
| May | 32 | 8 | 0 | -1 | 69 | -1 |
| June | 34 | 5 | 0 | 0 | 0 | 0 |
| July | 117 | 9 | 4 | 0 | 40 | 0 |
| August | 49 | 7 | 0 | 0 | 0 | 0 |
| Average | 38 | 3 | 2 | -1 | 20 | 0 |

Table 3-10 Monthly Growth in 2017 Customer/Connections

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The 2017 forecast of average customers/connections by rate class is determined based on using the actual customers/connections by rate class from January 2017 to August 2017 and determining the average monthly increase over that time which is determined above. The average monthly increase is applied to the August 2017 value to forecast the September 2017 amount. The same process is used to the forecast the months from October 2017 to December 2017. Then the average of all the months in 2017 is used as the 2017 forecast. Table 3-11 outlines the forecast of customers by rate class for the 2017 Test Year.

13

| Month | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total |
|---------------------------------|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--------|
| Number of Customers/Connections | s (2017) | | | | - | · · · · | |
| January (Actual) | 15,377 | 1,023 | 78 | 165 | 2,884 | 75 | 19,602 |
| February (Actual) | 15,382 | 1,022 | 78 | 165 | 2,909 | 75 | 19,631 |
| March (Actual) | 15,396 | 1,015 | 85 | 162 | 2,909 | 74 | 19,641 |
| April (Actual) | 15,409 | 1,015 | 85 | 162 | 2,916 | 74 | 19,661 |
| May (Actual) | 15,441 | 1,023 | 85 | 161 | 2,985 | 73 | 19,768 |
| June (Actual) | 15,475 | 1,028 | 85 | 161 | 2,985 | 73 | 19,807 |
| July (Actual) | 15,592 | 1,037 | 89 | 161 | 3,025 | 73 | 19,977 |
| August (Actual) | 15,641 | 1,044 | 89 | 161 | 3,025 | 73 | 20,033 |
| September (Forecast) | 15,679 | 1,047 | 91 | 160 | 3,045 | 73 | 20,095 |
| October (Forecast) | 15,717 | 1,050 | 93 | 159 | 3,065 | 73 | 20,157 |
| November (Forecast) | 15,755 | 1,053 | 95 | 158 | 3,085 | 73 | 20,219 |
| December (Forecast) | 15,793 | 1,056 | 97 | 157 | 3,105 | 73 | 20,281 |
| Forecast number of Customers/Co | nnections | • | • | | • | • | |
| 2017 Monthly Average | 15,555 | 1,034 | 88 | 161 | 2,995 | 74 | 19,906 |

Table 3-11 Customer/Connection Forecast

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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 3-12 below provides the average annual usage per customer

Table 3-12 Historical Annual Usage per Customer before Allocation of Hydro One Load Transfers

6 by rate class from 2007 to 2016 before the allocation of Hydro One load transfers.

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- 11

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load |
|---------------------------------|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|
| Annual kWh Usage Per Customer/C | onnection | | | | | |
| 2007 | 11,446 | 34,754 | 553,811 | 679 | 601 | 5,839 |
| 2008 | 11,295 | 33,971 | 620,129 | 668 | 593 | 6,050 |
| 2009 | 11,112 | 32,881 | 659,351 | 632 | 601 | 5,948 |
| 2010 | 10,867 | 33,744 | 751,894 | 581 | 588 | 6,020 |
| 2011 | 10,893 | 34,095 | 745,100 | 490 | 534 | 6,041 |
| 2012 | 10,395 | 33,623 | 752,954 | 659 | 575 | 6,080 |
| 2013 | 10,434 | 32,492 | 760,026 | 606 | 518 | 6,068 |
| 2014 | 10,502 | 32,305 | 753,235 | 637 | 556 | 6,129 |
| 2015 | 10,163 | 34,199 | 764,144 | 625 | 382 | 6,093 |
| 2016 | 9,784 | 32,711 | 767,108 | 640 | 187 | 6,213 |

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 14 of 27

As can been seen from the above table, usage per customer/connection generally declines in the Residential, General Service < 50 kW, Sentinel Lighting and Street Lighting classes. It is InnPower Corporation's view that this decline is partially due to the CDM programs initiated in 2005 and onwards. The increase usage per customer in the General Service 50 to 4,999 kW class is due to expansions of 8 of our key GS > 50 customers in terms of products. The usage per connection for the Unmetered Scattered Load has generally remained stable which is expected since this is typically a flat load class which reflects estimated usage.

8

9 From the historical usage per customer/connection data the growth rate in usage per 10 customer/connection can be reviewed which is provided on the following table. The geometric mean 11 growth rate from 2007 and 2016 has also been shown.

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- 14 15

Table 3-13 Growth Rate in Usage per Customer/Connection

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load |
|------------------------------|-------------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|
| Growth Rate in Usage Per Cus | stomer/Connection | | | | | |
| 2007 | | | | | | |
| 2008 | (1.3%) | (2.3%) | 12.0% | (1.7%) | (1.4%) | 3.6% |
| 2009 | (1.6%) | (3.2%) | 6.3% | (5.3%) | 1.4% | (1.7%) |
| 2010 | (2.2%) | 2.6% | 14.0% | (8.2%) | (2.0%) | 1.2% |
| 2011 | 0.2% | 1.0% | (0.9%) | (15.6%) | (9.2%) | 0.3% |
| 2012 | (4.6%) | (1.4%) | 1.1% | 34.4% | 7.7% | 0.7% |
| 2013 | 0.4% | (3.4%) | 0.9% | (8.0%) | (10.0%) | (0.2%) |
| 2014 | 0.7% | (0.6%) | (0.9%) | 5.1% | 7.4% | 1.0% |
| 2015 | (3.2%) | 5.9% | 1.4% | (2.0%) | (31.3%) | (0.6%) |
| 2016 | (3.7%) | (4.3%) | 0.4% | 2.5% | (50.9%) | 2.0% |
| Geo Mean - 2007 to 2016 | (1.7%) | (0.7%) | 3.7% | (0.7%) | (12.1%) | 0.7% |

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17 The 2017 forecast of usage per customer/connection have been held constant at the 2016 level since

using the geometric mean factor could cause double counting of CDM results.

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Table 3-14 Forecast Annual kWh Usage per Customer/Connection

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | | |
|--|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--|--|
| Forecast Annual kWh Usage per Customers/Connection | | | | | | | | |
| 2017 | 9,784 | 32,711 | 767,108 | 640 | 187 | 6,213 | | |

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The preceding information is used to determine the non-normalized weather billed energy forecast by 5 6 applying the forecast number of customer/connection from Table 3-11 by the forecast of annual usage per customer/connection from Table 3-14. The resulting non-normalized weather billed energy forecast 7 is shown in the following Table 3-15. 8 9

- 10 11

Table 3-15 Non-normalized Weather Billed Energy Forecast

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | TOTAL | |
|---|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|-------|--|
| NON-normalized Weather Billed Energy Forecast (GWh) | | | | | | | | |
| 2017(Not Normalized) | 152.180 | 33.837 | 67.122 | 0.103 | 0.561 | 0.457 | 254.3 | |

12 13

The non-normalized weather billed energy forecast has been determined but this needs to be adjusted 14

in order to be aligned with the total weather normalized billed energy forecast shown in Table 3-8 15

16

The difference between the non-normalized and normalized forecast is assumed to be the adjustment to 17 18 move the forecast to a weather normal basis and this amount will be assigned to those rate classes that are weather sensitive. Based on the weather normalization work completed by Hydro One for InnPower 19 20 Corporation for the cost allocation study, which has been used to support this Application, it was determined that the weather sensitivity by rate classes is as follows in Table 3-16. 21

- 22 23
- 24

Table 3-16 Weather Sensitivity by Rate Class

| Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | |
|---------------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--|
| Weather Sensitivity | | | | | | |
| 83% | 83% | 65% | 0% | 0% | 0% | |

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 16 of 27

For the General Service 50 to 4,999 kW class the weather sensitivity amount of 65% was provided in the weather normalization work completed by Hydro One. For the Residential and General Service < 50 kW classes, the weather sensitivity assumptions is consistent with that assumed in InnPower Corporation 2013 COS application.

5

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.

8

9 Hydro One Load Transfers

InnPower Corporation has historically had load transfers with Hydro One. Hydro One provides power to customers that are in the InnPower Corporation service area but are connected to the Hydro One distribution system. These customers/connections are in the Residential, General Service < 50 kW and Unmetered Scattered Load rate classes. InnPower Corporation expects Hydro One load transfers to continue in 2017. The follow table outlines the historical and forecasted kWh for Hydro One load transfers. In order to determine the 2017 forecast, the 2016 value has been held constant.

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- 17
- 17
- 19

Table 3-17 Hydro One Load Transfers

| Year | Hydro One Load Transfers (GWh) |
|---------------------------|---|
| 2007 - Actual | 1.0 |
| 2008 - Actual | 1.1 |
| 2009 - Actual | 1.0 |
| 2010 - Actual | 1.0 |
| 2011 - Actual | 1.0 |
| 2012 - Actual | 1.0 |
| 2013 - Actual | 1.1 |
| 2014 - Actual | 1.2 |
| 2015 - Actual | 1.0 |
| 2016 - Actual | 1.0 |
| 2017 - Test Year Forecast | 1.0 |

1 The Hydro One load transfers are allocated to the Residential, General Service < 50 kW and 2 Unmetered Scattered Load rate classes based rate class specific data provided by Hydro One for the 3 LTLT customers.

4

In order to determine the difference between the non-normalized and normalized billed forecast discussed above, the forecast in Table 3-17 is added to the results in Table 3-15 and the resulting total is subtracted from Table 3-8. The results are used to determine the amount to be assigned to each rate class based on the level of weather sensitivity. The following table outlines the difference between the non-normalized and normalized billed forecast.

- 10
- 11
- 12

Table 3-18 Difference between Normalized and Non-normalized Bill Forecast

| Year | Table 3-8 Table 3-15 (A) (B) | | Table 3-17 (C) | Difference = (A) - (B) - (C) |
|------------------------|--|-------|-------------------|------------------------------------|
| Billed Energy (GWh) | | | | |
| 2017 Test - Normalized | 242.0 | 254.3 | 1.0 | (13.2) |

13 14

15 **2.3.1.3 CDM Adjustment and LRAMVA**

16

A manual adjustment has been made to reflect the impact of 2016 and 2017 CDM programs on the load forecast. InnPower Corporation has made this adjustment to reflect the "net" impact of the CDM programs on the load forecast.

20

The following Table 3-19, outlines the expected full year savings from 2016 to 2017 CDM programs in 2017. The persistence data from the Final Verified 2016 Annual LDC CDM Program Results Report for 23 InnPower Corporation was used to reflect the impact of 2016 programs in 2017. Information on 2017 24 programs is based on the revised 2015 to 2020 CDM Plan for InnPower Corporation recently filed with 25 the IESO.

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 18 of 27

Table 3-19 2016 to 2017 Expected Full Year Total kWh Savings

| 2016-2017 Expected kWh Savings | | | | | | | |
|--------------------------------|-----------|-----------|--|--|--|--|--|
| 2016 2017 | | | | | | | |
| 2016 Programs | 2,593,587 | 2,569,466 | | | | | |
| 2017 Programs | | 2,103,200 | | | | | |
| Target Credit | 2,593,587 | 2,103,200 | | | | | |
| Total Including Persistence | 2,593,587 | 4,672,666 | | | | | |

In order to assign the above savings to rate classes the following outlines the allocation to each rate
 class based on information from the Final Verified 2016 Annual LDC CDM Program Results Report and
 the revised 2015 to 2020 CDM Plan for InnPower Corporation. Table 3-20 from the previous version is

9 no longer needed and has been deleted and table numbers have not been renumbered.

Table 3-21 2015 to 2017 Expected Full Year Residential kWh Savings

| 2016-2017 Expected R | esidential kW kV | Vh Savings |
|-----------------------------|------------------|------------|
| | 2016 | 2017 |
| 2016 Programs | 780,670 | 773,409 |
| 2017 Programs | | 317,600 |
| Target Credit | 780,670 | 317,600 |
| Total Including Persistence | 780,670 | 1,091,009 |

Table 3-22 2015 to 2017 Expected Full Year General Service < 50 kWh Savings

| 2016-2017 Expected General Service < 50 kW kWh Savings | | | | | | |
|--|---------|-----------|--|--|--|--|
| 2016 2017 | | | | | | |
| 2016 Programs | 725,167 | 718,423 | | | | |
| 2017 Programs | | 714,200 | | | | |
| Target Credit | 725,167 | 714,200 | | | | |
| Total Including Persistence | 725,167 | 1,432,623 | | | | |

| 2016-2017 Expected General Service 50 to 4,999 kW kWh Savings | | | | | | | | |
|--|-----------|-----------|--|--|--|--|--|--|
| 2016 2017 | | | | | | | | |
| 2016 Programs | 1,087,750 | 1,077,634 | | | | | | |
| 2017 Programs | | 1,071,400 | | | | | | |
| Target Credit | 1,087,750 | 1,071,400 | | | | | | |
| Total Including Persistence | 1,087,750 | 2,149,034 | | | | | | |

Table 3-23 2016 to 2017 Expected Full Year General Service 50 to 4,999 kW kWh Savings

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6

7 Since the regression analysis is based on actual power purchased data up to and including 2016 actual data, it is assumed that any savings from programs initiated up to and including 2016 are reflected in the 8 prediction equation resulting from the regression analysis. However, for 2016 it is assumed that for those 9 programs that were initiated in 2016 only one half of the full year results actually occur since they were 10 initiated throughout the year. This has been classified as the half year rule for CDM purposes. As a 11 12 result, consistent with approach used in previous COS applications and using the rate class specific information mentioned above, the following equation is used to determine the rate class manual CDM 13 14 adjustment for each year.

15

Rate class CDM adjustment (2017) = 2016 Programs rate class savings x 50% + 2017 Programs rate
 class savings x 50%.

18

¹⁹ For example: Residential CDM adjustment (2017) = 773,409 kWh (2016 Programs rate class savings in

20 2017) x 50% + 317,600 kWh (2017 Program rate class savings) x 50% = 545,505 kWh

21

In accordance with the Guidelines for Electricity Distributor Conservation and Demand Management 22 23 (EB-2013-0003), issued April 26, 2013 ("CDM Guidelines"), it is InnPower Corporation's understanding that as part of this application expected CDM savings in 2017 from 2017 programs will need to be 24 25 established for lost revenue adjustment mechanism ("LRAM") variance accounts purposes. InnPower Corporation also understands that the IESO will measure CDM results on a full year net basis. 26 27 Consistent with past practices, it is expected the full year net level of savings will be used for LRAM 28 variance calculations. As a result, it is InnPower Corporation's view the units used for the LRAM variance account should also be on a full year net basis. Based on the evidence provided above in 29

- 1 regards to the CDM manual adjustment the following table provides expected CDM savings by rate class
- 2 for LRAM variance account purposes The expected kW saving has also been provided for those classes
- 3 billed distribution charges on a kW basis using the average kW/KWh ratios from Table 3-27.
- 4

Following the afore-mentioned tables, InnPower Corporation has completed and presented in
 APPENDIX B – 2-I Load Forecast CDM Adjustment Work Form.

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- 8 9
- 10

Table 3-24 2017 Expected CDM Savings by Rate Class for LRAM Variance Account

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total |
|--------------------------|-------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|-----------|
| 2017 LRAMVA kWh | 317,600 | 714,200 | 1,071,400 | 0 | 0 | 0 | 2,103,200 |
| 2017 LRAMVA kW - Annual | 0 | 0 | 3,052 | 0 | 0 | 0 | 3,052 |
| 2017 LRAMVA kW - Monthly | 0 | 0 | 254 | 0 | 0 | 0 | 254 |

The following Table 3-25 outlines how the classes have been adjusted to align the non-normalized forecast with the normalized forecast. This table also reflects the adjustments for Hydro One load

- 13 transfers and manual CDM.
- 14
- 15
- 16

Table 3-25 Alignment of Non-normal to Weather Normal Forecast and Other Adjustments

| Year | Residential | General Service < 50 kW | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Unmetered Scattered Load | Total |
|-------------------------------------|------------------|-------------------------------|--------------------------------------|----------------------|--------------------|--------------------------------|--------|
| Non-normalized Weather Billed Energ | y Forecast (GWh) | | | | | | |
| 2017(Not Normalized) | 152.2 | 33.8 | 67.1 | 0.1 | 0.6 | 0.5 | 254.3 |
| Adjustment for Hydro One Load Tran | sfer (GWh) | | • | | | • • | |
| 2017 Monthly Average | 0.8 | 0.2 | 0.0 | 0.0 | 0.0 | 0.004 | 1.0 |
| Adjustment for Weather (GWh) | - | | | | | | |
| 2017 Monthly Average | (8.4) | (1.9) | (2.9) | 0.0 | 0.0 | 0.0 | (13.2) |
| Adjustment for CDM (GWh) | | • | | | | | |
| 2017 Monthly Average | (0.5) | (0.7) | (1.1) | 0.0 | 0.0 | 0.0 | (2.3) |
| Weather Normalized Billed Energy Fo | recast (GWh) | • | • • • | | • | | |
| 2017 Test - Normalized | 144.0 | 31.4 | 63.1 | 0.1 | 0.6 | 0.5 | 239.7 |

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 21 of 27

1 Billed KW Load Forecast

2

3 Historically, there were three rate classes that charge volumetric distribution on per kW basis. These

4 include General Service 50 to 4,999 kW, Sentinel Lighting and Street Lighting. As a result, the energy

5 forecast for these classes needs to be converted to a kW basis for rate setting purposes. The forecast of

6 kW for these classes is based on a review of the historical ratio of kW to kWh and applying the results of

7 a trend analysis to the forecasted kWh to produce the required kW.

8

9 The following Table 3-26 outlines the annual demand units by applicable rate class.

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- 11
- 12
- 13

| Table 3-26 Historical Annual kW per Applicable F | Rate Class |
|--|------------|
|--|------------|

| Year | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Total |
|------------------|--------------------------------------|----------------------|--------------------|---------|
| Billed Annual kW | | | | • |
| 2007 | 116,956 | 351 | 4,153 | 121,460 |
| 2008 | 134,693 | 345 | 4,261 | 139,299 |
| 2009 | 136,122 | 339 | 4,370 | 140,832 |
| 2010 | 144,502 | 324 | 4,389 | 149,215 |
| 2011 | 139,425 | 306 | 4,416 | 144,148 |
| 2012 | 144,982 | 315 | 4,424 | 149,721 |
| 2013 | 130,935 | 283 | 4,149 | 135,367 |
| 2014 | 135,394 | 300 | 4,581 | 140,275 |
| 2015 | 141,987 | 288 | 3,140 | 145,414 |
| 2016 | 150,802 | 295 | 1,641 | 152,738 |

14 15

16 The following Table 3-27 shows the historical ratio of kW/kWh and the average ratio used to forecast kW

17 for 2017.

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Table 3-27 Historical kW/KWh Ratio per Applicable Rate Class

- 1 2 3
- .

| Year | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting |
|----------------------|--------------------------------------|----------------------|--------------------|
| Ratio of kW to kWh | | | |
| 2007 | 0.2974% | 0.2778% | 0.2776% |
| 2008 | 0.2975% | 0.2778% | 0.2778% |
| 2009 | 0.2867% | 0.2778% | 0.2771% |
| 2010 | 0.2826% | 0.2778% | 0.2778% |
| 2011 | 0.2793% | 0.2779% | 0.3030% |
| 2012 | 0.2835% | 0.2779% | 0.2818% |
| 2013 | 0.2571% | 0.2779% | 0.2818% |
| 2014 | 0.2676% | 0.2778% | 0.2818% |
| 2015 | 0.2599% | 0.2778% | 0.2838% |
| 2016 | 0.2601% | 0.2778% | 0.3059% |
| Average 2007 to 2016 | 0.2772% | 0.2778% | 0.2849% |

5

6 For the three classes, the average factor was applied to the weather normalized billed energy forecast in

7 Table 3-25 to provide the forecast of kW by rate class.

8

9 The following Table 3-28 outlines the forecast of kW for the applicable rate classes.

10 11
 Table 3-28 kW Forecast by Applicable Rate Class

| Year | General Service 50 to 4,999 kW | Sentinel Lighting | Street Lighting | Total |
|------------------------|--------------------------------------|----------------------|--------------------|---------|
| Predicted Billed kW | | | | |
| 2017 Test - Normalized | 174,966 | 286 | 1,599 | 176,851 |

12 13

Table 3-29 Summary of Total Load Forecast

| | 2013 Actual | 2014 Actual | 2015 Actual | 2016 Actual | 2017 Weather Normal |
|--|-------------|-------------|-------------|-------------|---------------------------|
| Actual kWh Purchases | 251,758,061 | 253,254,986 | 255,774,983 | 259,382,036 | |
| Predicted kWh Purchases before CDM adjustment | 250,054,817 | 254,540,890 | 255,309,255 | 261,375,685 | 259,701,038 |
| % Difference betw een actual and predicted purchases | (0.7%) | 0.5% | (0.2%) | 0.8% | |
| | | | | | |
| Loss Factor | | | | | 1.0731 |
| | | | | | |
| Total Billed Before Adjustments | | | | | 242,004,217 |
| CDM Adjustment | | | | | 2,336,333 |
| Total Billed After Adjustments | | | | | 239,667,884 |

3 4

Table 3-30 provides a summary of the load forecast on a billing determinant basis by rate class.

6 7 8

5

Table 3-30 Summary of Billing Determinants and Variances of Actual and Forecast Data

| | 2013 Board Approved | 2013 Actual | 2014 Actual | 2015 Actual | 2016 Actual | 2017 Weather Normal |
|--------------------------|-------------------------|-------------|-------------|-------------|--------------|---------------------------|
| Residential | · | | | | | |
| Customers | 14,189 | 14,181 | 14,509 | 14,862 | 15,202 | 15,555 |
| kWh | 148,148,873 | 148,837,682 | 153,331,484 | 151,892,216 | 149,508,942 | 144,001,990 |
| Variance Analysis Con | npare to Board Approved | | а | τ. | | |
| Customers | | (0.06%) | 2.26% | 4.74% | 7.14% | 9.63% |
| kWh | | 0.46% | 3.50% | 2.53% | 0.92% | (2.80%) |
| General Service < 50 kW | V | | | | | |
| Customers | 910 | 949 | 991 | 1,001 | 1,016 | 1,034 |
| kWh | 31,781,016 | 31,038,184 | 32,222,518 | 34,381,050 | 33,411,508 | 31,418,007 |
| Variance Analysis Con | npare to Board Approved | • | • | • | • | |
| Customers | | 4.31% | 8.93% | 9.95% | 11.68% | 13.67% |
| kWh | | (2.34%) | 1.39% | 8.18% | 5.13% | (1.14%) |
| General Service 50 to 4, | 999 kW | | | | | |
| Customers | 66 | 67 | 67 | 72 | 76 | 88 |
| kWh | 51,329,341 | 50,921,722 | 50,592,267 | 54,636,276 | 57,980,607 | 63,122,597 |
| kW | 147,666 | 130,935 | 135,394 | 141,987 | 150,802 | 174,966 |
| Variance Analysis Con | npare to Board Approved | - | - | - | , | - |
| Customers | | 1.52% | 1.77% | 8.33% | 14.52% | 32.58% |
| kWh | | (0.79%) | (1.44%) | 6.44% | 12.96% | 22.98% |
| | | | | | | |

| | 2013 Board Approved | 2013 Actual | 2014 Actual | 2015 Actual | 2016 Actual | 2017 Weather Normal |
|------------------------------|------------------------|-------------|-------------|-------------|-------------|---------------------------|
| Sentinel Lighting | | | | | | |
| Connections | 237 | 168 | 169 | 166 | 166 | 161 |
| kWh | 104,942 | 101,844 | 107,980 | 103,536 | 106,305 | 103,052 |
| kW | 292 | 283 | 300 | 288 | 295 | 286 |
| Variance Analysis Compare to | Board Approved | | | | | |
| Connections | | (29.11%) | (28.52%) | (30.06%) | (29.92%) | (32.07%) |
| kWh | | (2.95%) | 2.89% | (1.34%) | 1.30% | (1.80%) |
| kW | | (3.08%) | 2.72% | (1.51%) | 1.13% | (1.96%) |
| Street Lighting | | | | | | |
| Connections | 2,889 | 2,843 | 2,923 | 2,898 | 2,863 | 2,995 |
| kWh | 1,516,831 | 1,472,134 | 1,625,553 | 1,106,444 | 536,550 | 561,223 |
| kW | 4,432 | 4,149 | 4,581 | 3,140 | 1,641 | 1,599 |
| Variance Analysis Compare to | Board Approved | | | | | |
| Connections | | (1.58%) | 1.19% | 0.30% | (0.89%) | 3.66% |
| kWh | | (2.95%) | 7.17% | (27.06%) | (64.63%) | (63.00%) |
| kW | | (6.39%) | 3.37% | (29.16%) | (62.97%) | (63.93%) |
| Unmetered Scattered Load | | | | | | |
| Connections | 78 | 78 | 76 | 76 | 75 | 74 |
| kWh | 474,652 | 474,344 | 467,562 | 467,455 | 472,406 | 461,015 |
| Variance Analysis Compare to | Board Approved | | | | | |
| Connections | | (0.53%) | (3.10%) | (2.56%) | (3.42%) | (5.77%) |
| kWh | | (0.06%) | (1.49%) | (1.52%) | (0.47%) | (2.87%) |
| Total | | | | | | |
| Customer/Connections | 18,369 | 18,286 | 18,736 | 19,073 | 19,398 | 19,906 |
| kWh | 233,355,655 | 232,845,910 | 238,347,364 | 242,586,977 | 242,016,318 | 239,667,884 |
| kW from applicable classes | 152,390 | 135,367 | 140,275 | 145,414 | 152,738 | 176,851 |
| Variance Analysis Compare to | Board Approved | | | | | |
| Customer/Connections | | (0.45%) | 2.00% | 3.83% | 5.60% | 8.37% |
| kWh | | (0.22%) | 2.14% | 3.96% | 3.71% | 2.70% |
| kW from applicable classes | | (11.17%) | (7.95%) | (4.58%) | 0.23% | 16.05% |

Appendix 3-A Monthly Data Used for Regression Analysis

| | | | | Number of | | Number of | |
|--------|------------|--------------------------|-------------|------------------|-------------|-------------------------------|------------|
| | | Heating | Cooling | | Spring Foll | Number of | Dradiated |
| | Purchased | Heating Degree Device | Degree Davs | Days in Month | Spring Fall | Customers - 3 Main Classes | Predicted |
| lon 07 | | Degree Days | | Month | Flag 0 | | Purchases |
| Jan-07 | 24,279,310 | 647.1 | 0.0 | 31 | ÷ | 13,849 | 24,401,062 |
| Feb-07 | 23,881,688 | 740.1 | 0.0 | 28 | 0 | 13,861 | 23,671,088 |
| Mar-07 | 22,297,190 | 546.7 | 0.0 | 31 | 1 | 13,865 | 22,164,329 |
| Apr-07 | 18,569,417 | 356.4 | 0.0 | 30 | 1 | 13,869 | 19,056,597 |
| May-07 | 16,382,762 | 136.4 | 22.4 | 31 | 1 | 13,873 | 17,599,889 |
| Jun-07 | 17,880,105 | 16.5 | 99.2 | 30 | 0 | 13,881 | 18,895,511 |
| Jul-07 | 18,476,520 | 3.2 | 106.1 | 31 | 0 | 13,905 | 19,610,918 |
| Aug-07 | 19,239,334 | 5.2 | 141.0 | 31 | 0 | 13,925 | 20,803,429 |
| Sep-07 | 16,489,843 | 36.9 | 47.5 | 30 | 1 | 13,949 | 16,536,012 |
| Oct-07 | 17,241,375 | 137.7 | 19.8 | 31 | 1 | 13,987 | 17,589,031 |
| Nov-07 | 20,822,608 | 462.5 | 0.0 | 30 | 1 | 14,001 | 20,497,602 |
| Dec-07 | 25,594,484 | 630.7 | 0.0 | 31 | 0 | 14,035 | 24,284,175 |
| Jan-08 | 25,337,708 | 623.5 | 0.0 | 31 | 0 | 14,052 | 24,199,700 |
| Feb-08 | 23,919,251 | 674.7 | 0.0 | 29 | 0 | 14,069 | 23,577,876 |
| Mar-08 | 23,324,392 | 610.2 | 0.0 | 31 | 1 | 14,091 | 23,102,145 |
| Apr-08 | 17,845,473 | 253.9 | 0.0 | 30 | 1 | 14,109 | 17,852,963 |
| May-08 | 17,203,595 | 193.5 | 2.5 | 31 | 1 | 14,151 | 17,822,172 |
| Jun-08 | 17,657,148 | 22.7 | 71.5 | 30 | 0 | 14,186 | 18,214,371 |
| Jul-08 | 19,399,006 | 1.0 | 111.0 | 31 | 0 | 14,218 | 19,905,315 |
| Aug-08 | 18,496,935 | 12.7 | 64.0 | 31 | 0 | 14,260 | 18,521,008 |
| Sep-08 | 16,944,225 | 59.0 | 26.7 | 30 | 1 | 14,297 | 16,311,349 |
| Oct-08 | 18,736,114 | 278.6 | 0.0 | 31 | 1 | 14,337 | 18,936,221 |
| Nov-08 | 20,914,296 | 451.6 | 0.0 | 30 | 1 | 14,348 | 20,534,471 |
| Dec-08 | 25,844,885 | 654.6 | 0.0 | 31 | 0 | 14,388 | 24,774,557 |
| Jan-09 | 27,698,758 | 830.2 | 0.0 | 31 | 0 | 14,411 | 27,059,239 |
| Feb-09 | 22,854,687 | 606.4 | 0.0 | 28 | 0 | 14,426 | 22,230,287 |
| Mar-09 | 22,750,704 | 533.8 | 0.0 | 31 | 1 | 14,438 | 22,291,212 |
| Apr-09 | 18,949,042 | 305.8 | 1.2 | 30 | 1 | 14,448 | 18,738,345 |
| May-09 | 17,348,781 | 158.8 | 6.9 | 31 | 1 | 14,455 | 17,674,721 |
| Jun-09 | 17,392,957 | 49.3 | 34.2 | 30 | 0 | 14,460 | 17,463,298 |
| Jul-09 | 18,006,297 | 6.2 | 43.7 | 31 | 0 | 14,710 | 17,995,036 |
| Aug-09 | 20,135,392 | 9.8 | 91.0 | 31 | 0 | 14,976 | 19,745,272 |
| Sep-09 | 17,368,091 | 55.2 | 20.9 | 30 | 1 | 15,073 | 16,467,948 |
| Oct-09 | 19,458,169 | 287.8 | 0.0 | 31 | 1 | 15,110 | 19,451,723 |
| Nov-09 | 19,998,430 | 361.2 | 0.0 | 30 | 1 | 15,107 | 19,753,615 |
| Dec-09 | 25,277,881 | 631.3 | 0.0 | 31 | 0 | 14,563 | 24,562,718 |

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 26 of 27

| $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | 3 Predicted Purchases 25,706,195 22,190,574 20,920,121 17,719,683 18,360,460 17,981,424 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
|---|---|
| PurchasedDegree DaysDegree DaysMonthFlagMain ClasseJan-1026,451,956720.00.031014,554Feb-1022,355,018598.30.028014,553Mar-1021,335,193422.80.031114,566Apr-1017,366,211225.10.030114,576May-1018,594,842107.945.731114,576Jun-1018,232,28121.758.730014,684Jul-1022,225,9621.8164.931014,633Sep-1027,785,83878.131.530114,664Oct-1018,734,173241.60.031114,664Nov-1020,451,455405.30.031014,707Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.031114,728Apr-1118,914,567332.30.031114,729May-1117,615,740134.113.031114,729May-1117,357,91619.052.230014,742Jul-1122,92,8300.0198.531014,772Sep-1117,323,76848.239.730114,704Nov-1119,598,868342.10.031014,899Dec-1123,311,694 | Purchases 25,706,195 22,190,574 20,920,121 17,719,683 18,360,460 17,981,424 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 17,812,135 23,069,017 20,547,580 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 25,706,195 22,190,574 20,920,121 17,719,683 18,360,460 17,981,424 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 17,812,135 23,069,017 20,547,580 |
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| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 20,920,121 17,719,683 18,360,460 17,981,424 21,896,968 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 17,719,683 18,360,460 17,981,424 21,896,968 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 18,360,460 17,981,424 21,896,968 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Jun-10 18,232,281 21.7 58.7 30 0 14,584 Jul-10 22,225,962 1.8 164.9 31 0 14,599 Aug-10 21,301,865 2.1 138.8 31 0 14,633 Sep-10 17,785,838 78.1 31.5 30 1 14,646 Oct-10 18,734,173 241.6 0.0 31 1 14,664 Nov-10 20,451,455 405.3 0.0 30 1 14,668 Dec-10 25,404,585 676.2 0.0 31 0 14,707 Jan-11 26,274,474 775.3 0.0 31 0 14,713 Feb-11 22,971,970 654.2 0.0 28 0 14,716 Mar-11 22,951,605 572.8 0.0 31 1 14,729 May-11 17,615,740 134.1 13.0 31 1 14,729 May-11 17,51,916 19.0 | 17,981,424 21,896,968 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 21,896,968 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Aug-1021,301,8652.1138.831014,633Sep-1017,785,83878.131.530114,646Oct-1018,734,173241.60.031114,646Nov-1020,451,455405.30.030114,688Dec-1025,404,585676.20.031014,707Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.030114,728Apr-1118,914,567332.30.030114,733Jun-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,92,8300.0198.531014,772Sep-1117,323,76848.239.730114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 21,053,497 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Sep-10 17,785,838 78.1 31.5 30 1 14,646 Oct-10 18,734,173 241.6 0.0 31 1 14,664 Nov-10 20,451,455 405.3 0.0 30 1 14,664 Dec-10 25,404,585 676.2 0.0 31 0 14,707 Jan-11 26,274,474 775.3 0.0 31 0 14,713 Feb-11 22,971,970 654.2 0.0 28 0 14,716 Mar-11 22,951,605 572.8 0.0 31 1 14,728 Apr-11 18,914,567 332.3 0.0 30 1 14,729 May-11 17,615,740 134.1 13.0 31 1 14,733 Jun-11 17,571,916 19.0 52.2 30 0 14,742 Jul-11 22,292,830 0.0 198.5 31 0 14,742 Jul-11 17,323,768 48.2 | 16,896,592 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Oct-1018,734,173241.60.031114,664Nov-1020,451,455405.30.030114,688Dec-1025,404,585676.20.031014,707Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,92,8300.0198.531014,772Sep-1117,323,76848.239.730114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 18,625,007 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Nov-1020,451,455405.30.030114,688Dec-1025,404,585676.20.031014,707Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 20,109,548 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Dec-1025,404,585676.20.031014,707Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,733Jun-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,772Aug-1119,354,5700.0122.231014,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 25,217,732 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Jan-1126,274,474775.30.031014,713Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 26,503,514 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Feb-1122,971,970654.20.028014,716Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,774Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 22,997,711 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Mar-1122,951,605572.80.031114,728Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,774Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 22,944,732 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| Apr-1118,914,567332.30.030114,729May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 19,185,695 17,699,700 17,812,135 23,069,017 20,547,580 |
| May-1117,615,740134.113.031114,733Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 17,699,700 17,812,135 23,069,017 20,547,580 |
| Jun-1117,571,91619.052.230014,742Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 17,812,135 23,069,017 20,547,580 |
| Jul-1122,292,8300.0198.531014,759Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 23,069,017 20,547,580 |
| Aug-1119,354,5700.0122.231014,772Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 20,547,580 |
| Sep-1117,323,76848.239.730114,772Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | |
| Oct-1118,576,164235.52.431114,794Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 40.045.004 |
| Nov-1119,598,868342.10.030114,809Dec-1123,311,694534.00.031014,818Jan-1224,487,281611.10.031014,826 | 16,845,894 |
| Dec-11 23,311,694 534.0 0.0 31 0 14,818 Jan-12 24,487,281 611.1 0.0 31 0 14,826 | 18,692,241 |
| Jan-12 24,487,281 611.1 0.0 31 0 14,826 | 19,353,569 |
| | 23,433,827 |
| | 24,436,134 |
| Feb-12 21,711,327 531.7 0.0 29 0 14,835 | 22,119,779 |
| Mar-12 20,140,444 349.4 0.2 31 1 14,856 | 20,125,413 |
| Apr-12 18,335,839 321.7 0.0 30 1 14,867 | 19,119,265 |
| May-12 17,673,429 80.7 36.7 31 1 14,877 | 17,867,632 |
| Jun-12 19,474,755 23.2 101.6 30 0 14,882 | 19,575,101 |
| Jul-12 22,780,193 0.0 195.4 31 0 14,921 | 23,049,382 |
| Aug-12 20,627,757 2.0 112.1 31 0 14,953 | 20,331,639 |
| Sep-12 17,795,946 85.0 35.6 30 1 14,968 | 17,286,884 |
| Oct-12 17,475,407 242.5 1.1 31 1 15,012 | 18,851,570 |
| Nov-12 20,981,769 434.0 0.0 30 1 15,036 | 20,659,495 |
| Dec-12 23,645,692 533.5 0.0 31 0 15,062 | 23,552,743 |
| Jan-13 24,666,681 624.4 0.0 31 0 15,076 | 24,736,492 |
| Feb-13 22,513,100 631.5 0.0 28 0 15,088 | 22,894,667 |
| Mar-13 22,356,782 554.8 0.0 31 1 15,100 | 22,902,523 |
| Apr-13 19,424,577 358.6 0.0 30 1 15,107 | 19,719,962 |
| May-13 17,840,113 109.1 23.1 31 1 15,139 | 17,918,972 |
| Jun-13 18,666,407 33.0 59.6 30 0 15,172 | 18,459,053 |
| Jul-13 22,033,173 1.3 120.8 31 0 15,207 | 20,741,102 |
| Aug-13 20,162,331 4.4 93.8 31 0 15,244 | 19,905,591 |
| Sep-13 17,834,215 83.0 28.1 30 1 15,260 | 17,162,241 |
| Oct-13 19,036,509 208.5 0.4 31 1 15,288 | 18,529,838 |
| Nov-13 21,552,245 478.2 0.0 30 1 15,334 | 21,384,424 |
| Dec-13 25,671,929 687.9 0.0 31 0 15,352 | 21,007,727 |

InnPower Corporation EB-2016-0085 Exhibit 3 – Revenues Filed: September 20, 2017 Page 27 of 27

| | | | | Number of | | Number of | |
|--------|------------|-------------|----------------|-----------|-------------|------------------|------------|
| | | Heating | Cooling Degree | Days in | Spring Fall | Customers - 3 | Predicted |
| | Purchased | Degree Days | Days | Month | Flag | Main Classes | Purchases |
| Jan-14 | 27,344,318 | 825.9 | 0.0 | 31 | 0 | 15,406 | 27,513,853 |
| Feb-14 | 23,698,938 | 737.1 | 0.0 | 28 | 0 | 15,425 | 24,434,331 |
| Mar-14 | 24,427,815 | 690.6 | 0.0 | 31 | 1 | 15,444 | 24,434,331 |
| Apr-14 | 19,352,181 | 356.9 | 0.0 | 30 | 1 | 15,478 | 19,888,220 |
| | | | | | | | |
| May-14 | 17,549,445 | 132.1 | 11.9 | 31 | 1 | 15,497 15,515 | 18,029,171 |
| Jun-14 | 18,258,424 | 14.1 | 68.1 | 30 | 0 | | 18,671,959 |
| Jul-14 | 19,452,973 | 4.0 | 71.0 | 31 | 0 | 15,587 | 19,320,867 |
| Aug-14 | 19,828,414 | 8.8 | 81.8 | 31 | 0 | 15,628 | 19,761,867 |
| Sep-14 | 17,976,814 | 69.7 | 30.1 | 30 | 1 | 15,648 | 17,255,340 |
| Oct-14 | 19,058,731 | 224.3 | 1.3 | 31 | 1 | 15,688 | 18,969,300 |
| Nov-14 | 22,053,999 | 482.1 | 0.0 | 30 | 1 | 15,720 | 21,632,858 |
| Dec-14 | 24,252,934 | 557.3 | 0.0 | 31 | 0 | 15,775 | 24,226,451 |
| Jan-15 | 26,957,598 | 792.4 | 0.0 | 31 | 0 | 15,793 | 27,278,711 |
| Feb-15 | 25,654,360 | 856.8 | 0.0 | 28 | 0 | 15,802 | 26,177,013 |
| Mar-15 | 23,473,380 | 615.5 | 0.0 | 31 | 1 | 15,826 | 24,060,515 |
| Apr-15 | 18,844,477 | 313.7 | 0.0 | 30 | 1 | 15,843 | 19,516,243 |
| May-15 | 18,113,892 | 89.3 | 34.1 | 31 | 1 | 15,856 | 18,394,864 |
| Jun-15 | 18,210,409 | 33.8 | 32.3 | 30 | 0 | 15,883 | 17,929,482 |
| Jul-15 | 21,783,994 | 4.0 | 114.3 | 31 | 0 | 15,881 | 20,906,331 |
| Aug-15 | 20,815,474 | 4.4 | 88.6 | 31 | 0 | 15,970 | 20,105,614 |
| Sep-15 | 19,854,447 | 31.1 | 81.9 | 30 | 1 | 16,005 | 18,655,128 |
| Oct-15 | 19,438,982 | 249.8 | 0.0 | 31 | 1 | 16,050 | 19,441,933 |
| Nov-15 | 20,136,180 | 345.0 | 0.0 | 30 | 1 | 16,127 | 20,067,021 |
| Dec-15 | 22,491,790 | 429.7 | 0.0 | 31 | 0 | 16,168 | 22,776,398 |
| Jan-16 | 25,159,552 | 670.4 | 0.0 | 31 | 0 | 16,197 | 25,906,783 |
| Feb-16 | 23,014,941 | 588.4 | 0.0 | 29 | 0 | 16,212 | 23,559,852 |
| Mar-16 | 21,970,551 | 476.1 | 0.0 | 31 | 1 | 16,243 | 22,470,036 |
| Apr-16 | 19,763,963 | 394.8 | 0.0 | 30 | 1 | 16,249 | 20,774,176 |
| May-16 | 18,836,973 | 142.5 | 36.9 | 31 | 1 | 16,261 | 19,383,933 |
| Jun-16 | 19,211,234 | 24.2 | 83.7 | 30 | 0 | 16,269 | 19,706,253 |
| Jul-16 | 23,404,500 | 0.0 | 176.9 | 31 | 0 | 16,281 | 23,133,863 |
| Aug-16 | 24,564,804 | 0.0 | 195.4 | 31 | 0 | 16,292 | 23,752,478 |
| Sep-16 | 19,239,594 | 25.9 | 69.4 | 30 | 1 | 16,323 | 18,336,732 |
| Oct-16 | 19,360,398 | 194.2 | 4.1 | 31 | 1 | 16,370 | 19,022,227 |
| Nov-16 | 20,317,470 | 337.8 | 0.0 | 30 | 1 | 16,399 | 20,113,319 |
| Dec-16 | 24,538,056 | 608.0 | 0.0 | 31 | 0 | 16,425 | 25,216,032 |
| Jan-17 | 21,000,000 | 712.0 | 0.0 | 31 | 0 | 16,464 | 26,582,432 |
| Feb-17 | | 661.9 | 0.0 | 28 | 0 | 16,503 | 24,013,834 |
| Mar-17 | | 537.3 | 0.0 | 31 | 1 | 16,541 | 23,415,438 |
| Apr-17 | | 321.9 | 0.0 | 30 | 1 | 16,580 | 20,004,614 |
| May-17 | | 128.4 | 23.3 | 30 | 1 | 16,619 | 18,935,507 |
| | | | 66.1 | 30 | 0 | 16,658 | 19,342,788 |
| Jun-17 | | 25.8 | | | | | |
| Jul-17 | | 2.2 | 130.3 | 31 | 0 | 16,696 | 21,829,358 |
| Aug-17 | | 4.9 | 112.9 | 31 | 0 | 16,735 | 21,309,157 |
| Sep-17 | | 57.2 | 41.1 | 30 | 1 | 16,774 | 18,036,884 |
| Oct-17 | | 230.1 | 2.9 | 31 | 1 | 16,813 | 19,673,853 |
| Nov-17 | | 410.0 | 0.0 | 30 | 1 | 16,851 | 21,279,623 |
| Dec-17 | | 594.3 | 0.0 | 31 | 0 | 16,890 | 25,277,551 |