COMMISSION AGENDA ACTION FORM

Meeting Date:	May 26, 2026	
Subject:	Resolution No. 2726- 2026 Load Forecast for 2026-2036	
Authored by:	Blake Scherer	Staff Preparing Item
Presenter:	Blake Scherer	Staff Presenting Item (if applicable or N/A)
Approved by:	Jon Meyer	Dept. Director/Manager
Approved for Commission:	Rick Dunn 	General Manager/Asst GM

Type of Agenda Item:	**Type of Action Needed:** *(Multiple boxes can be checked, if necessary)*	
☐ Consent Agenda	☐ Pass Motion	☐ Decision / Direction
☒ Business Agenda	☒ Pass Resolution	☐ Info Only
☐ Public Hearing	☐ Contract/Change Order	☐ Info Only/Possible Action
☐ Other Business	☐ Sign Letter / Document	☐ Presentation Included

Motion for Commission Consideration:

Motion adopting Resolution No. 2726 - 2026 Load Forecast for 2026-2036.

Background/Summary

The District's load forecast is revised annually and has been updated for the 2026-2036 planning period. The forecast utilizes historical energy, demand, and customer data to establish a forecasted trend for each customer class. The forecast incorporates the expected load reductions associated with the District's conservation program. The forecast is a key input to the District's planning, including Cost-of-Service Analysis, the Resource Plan, the Power Supply Plan, the Five-Year Capital Plan, and the annual budget. The forecast supports Bonneville Power Administration planning and the regional load forecast prepared by Pacific Northwest Utilities Conference Committee.

Staff will provide a presentation summarizing the load forecast.

Recommendation

Approval of the annual load forecast is recommended to support District and regional planning.

Fiscal Impact

This load forecast is a key input to estimating power supply costs and retail revenues for the 2027 budget. Following approval, the forecast will be incorporated into the District's next financial forecast currently scheduled for the second meeting in June.

RESOLUTION NO. 2726

May 26, 2026

A RESOLUTION OF THE COMMISSION OF
PUBLIC UTILITY DISTRICT NO. 1 OF BENTON COUNTY REGARDING
APPROVING THE 2026 LOAD FORECAST FOR 2026-2036

WHEREAS, the 2026 Load Forecast for 2026-2036 (Load Forecast) has been prepared by District staff and reflects customer load information; AND

WHEREAS, information contained in the Load Forecast is updated annually and is necessary for the District's revenue forecasting, for Bonneville Power Administration planning, and for the regional load forecast prepared by Pacific Northwest Utilities Conference Committee; AND

WHEREAS, the Load Forecast is used in conjunction with other fiscal planning tools including, but not limited to, the Cost-of-Service Analysis, the Resource Plan, the Power Supply Plan, the Five-Year Capital Plan and the annual budget; AND

NOW, THEREFORE, BE IT HEREBY RESOLVED by the Commission of Public Utility District No. 1 of Benton County, that the attached Load Forecast be approved, effective May 26, 2026.

BE IT FURTHER RESOLVED that this Resolution supersedes Resolution No. 2694 and replaces all other Resolutions pertaining to the same herein.

APPROVED AND ADOPTED by the Commission of Public Utility District No. 1 of Benton County at an open public meeting, with notice of such meeting given as required by law, this 26th day of May 2026.

_____
Jeffrey D. Hall, President

ATTEST:

_____
Michael D. Massey, Secretary

Public Utility District No. 1 of Benton County

2026 Load Forecast for 2026-2036

1. Executive Summary 1
2. Forecast Methodology 4
2.1 Overview 4
2.2 Customer Classes 4
2.3 Historical Data 4
2.4 Monthly Shaping 4
2.5 Conservation 5
2.6 Manual Adjustment 6
2.7 System Losses 6
2.8 Peak Forecast 7
3. Forecast Considerations 8
3.1 Forecast History 8
3.2 Forecast Variance 8
3.3 Forecast High & Low Case 9
3.4 Customer Generation 9
3.5 Electricity Intensive Load 10
3.6 Electric Vehicles 10
3.7 Natural Gas/Electrification 12
4. Forecast for Total System 13
5. Forecast by Customer Class 15
5.1 Residential 15
5.2 Small General 17
5.3 Medium General 19
5.4 Large General 21
5.5 Large Industrial 23
5.6 Small Irrigation 25
5.7 Large Irrigation 27
5.8 Street Lighting 29
5.9 Security Lighting 31
5.10 Unmetered Flats 33
6. Appendix A – Summary Tables 35

Tables

Table 2-1 – District customer class relationship to rate schedules 4
Table 2-2 – Manual adjustments applied to the forecast....6
Table 3-1 – Annual amount of customer generation 10
Table 3-2– Annual count of electric vehicle rebates 12
Table 4-1 – Total System forecast of retail load, customers and usage per customer....14
Table 5-1 – Residential forecast of retail load, customers and usage per customer....16
Table 5-2 – Small General forecast of retail load, customers and usage per customer 18
Table 5-3 – Medium General forecast of retail load, customers and usage per customer 20
Table 5-4 – Large General forecast of retail load, customers and usage per customer 22
Table 5-5 – Large Industrial forecast of retail load, customers and usage per customer 24
Table 5-6 – Small Irrigation forecast of retail load, customers and usage per customer 26
Table 5-7 – Large Irrigation forecast of retail load, customers and usage per customer....28
Table 5-8 – Street Lighting forecast of retail load, customers and usage per customer 30
Table 5-9 – Security Lighting forecast of retail load, customers and usage per customer....32
Table 5-10 – Unmetered Flats forecast of retail load, customers and usage per customer 34
Table 6-1 – Total system historical and forecast of annual load, losses and peak demand....36
Table 6-2 – Historical & BASE case forecast of annual retail load (aMW) by customer class....37
Table 6-3 – Total System Historical BASE case forecast of MONTHLY and annual retail load (aMW)....38
Table 6-4 – 2026 BASE case forecast of MONTHLY and annual retail load (aMW) by customer class....39
Table 6-5 – Historical and forecast of annual average number of customers by customer class 40
Table 6-6 – Historical and BASE case forecast of annual usage per customer (kWh) by customer class 41
Table 6-7 – Historical and forecast annual year-end number of customers by customer class....42
Table 6-8 – Historical and forecast annual change in number of customers by customer class....43

Figures

Figure 1-1 – Forecast of annual retail load....1
Figure 1-2 – Forecast of annual increase in customers 1
Figure 1-3 – Forecast annual retail load without conservation....2
Figure 1-4 – Forecast of annual retail load by customer class....2
Figure 1-5 – Forecast of monthly retail load by customer class 3
Figure 1-6 – Forecast of annual wholesale load 3
Figure 2-1 – Historical annual conservation by sector....5
Figure 2-2 – Forecast of annual cumulative conservation by customer class 5
Figure 3-1 – Retail load forecast history....8
Figure 3-2 – Forecast variance....8
Figure 3-3 – Forecast high and low cases 9
Figure 3-4 – Count of customer generation services....9
Figure 3-5 – Forecast of large general Electricity Intensive Load 10
Figure 3-6 – Battery electric vehicles registered in Benton County 11
Figure 4-1 – Total System forecast of retail load, customers and usage per customer 13
Figure 5-1 – Residential forecast of retail load, customers and usage per customer 15
Figure 5-2 – Small General forecast of retail load, customers and usage per customer....17
Figure 5-3 – Medium General forecast of retail load, customers and usage per customer....19
Figure 5-4 – Large General forecast of retail load, customers and usage per customer....21
Figure 5-5 – Large Industrial forecast of retail load, customers and usage per customer 23
Figure 5-6 – Small Irrigation forecast of retail load, customers and usage per customer....25
Figure 5-7 – Large Irrigation forecast of retail load, customers and usage per customer....27
Figure 5-8 – Street Lighting forecast of retail load, customers and usage per customer....29
Figure 5-9 – Security Lighting forecast of retail load, customers and usage per customer....31
Figure 5-10 – Unmetered Flats forecast of retail load, customers and usage per customer 33

1. Executive Summary

The 2026 Load Forecast for 2026-2036 (Forecast) estimates the District's annual and monthly loads and customer counts for each customer class and the total system. The Forecast is developed annually and used as critical input to several analyses and processes including the Cost-of-Service Analysis, the Resource Plan, the Power Supply Plan, the Five-Year Capital Plan, and the annual budget.

The Forecast expects the total annual retail load to be 205.7 aMW in 2027, increasing by 3.4 aMW, to 209.1 aMW in 2036, as shown below in **Figure 1-1.** The 5-year (2026-2031) and 10-year (2026-2036) annual average rates of growth are 0.32% and 0.21%, respectively. The Forecast is about 0.8 aMW lower in calendar year 2027 than was estimated by the 2025 forecast.

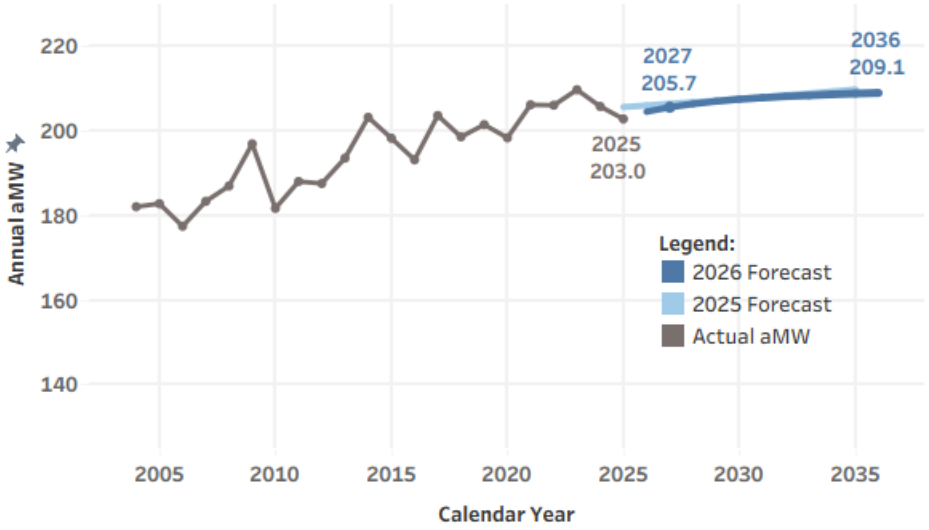
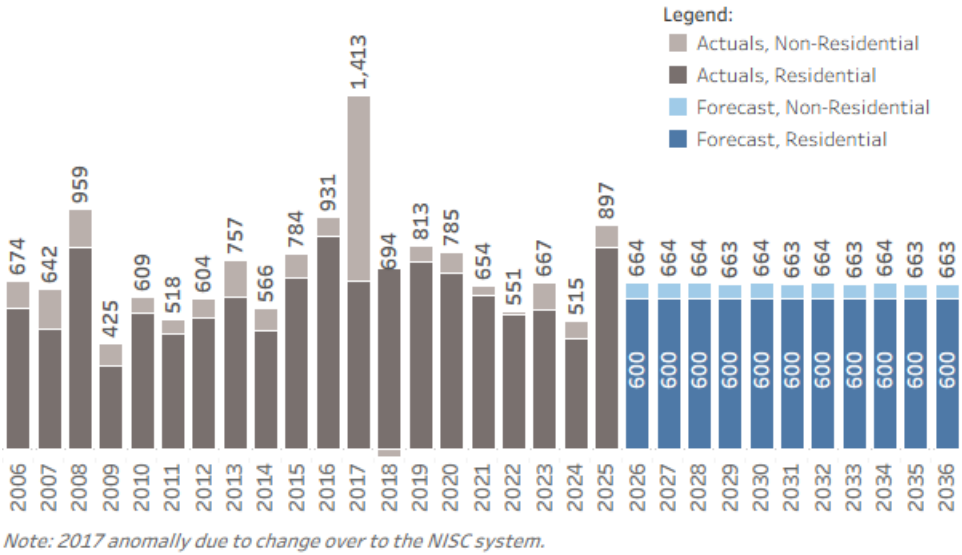


Figure 1-1 – Forecast of annual retail load

The Forecast expects to add about 664 total customers per year (600 residential, 64 non-residential) as shown below in **Figure 1-2.**



Note: 2017 anomally due to change over to the NISC system.

Figure 1-2 – Forecast of annual increase in customers

As shown below in **Figure 1-3**, the forecast includes 11.0 aMW of cumulative conservation over the forecast period, which is comprised of 5.8 aMW of residential and 5.2 aMW of non-residential conservation. For additional information about conservation, refer to **Section 2.5.**

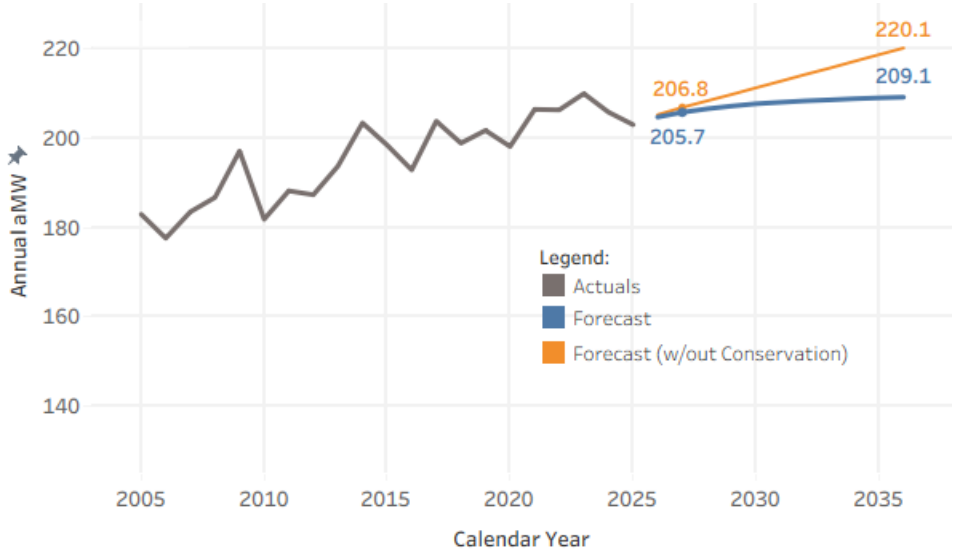


Figure 1-3 – Forecast annual retail load without conservation

Figure 1-4 below shows that residential load is growing (annual growth rate of 0.7%) while non-residential load is either flat or declining slightly, primarily due to conservation.

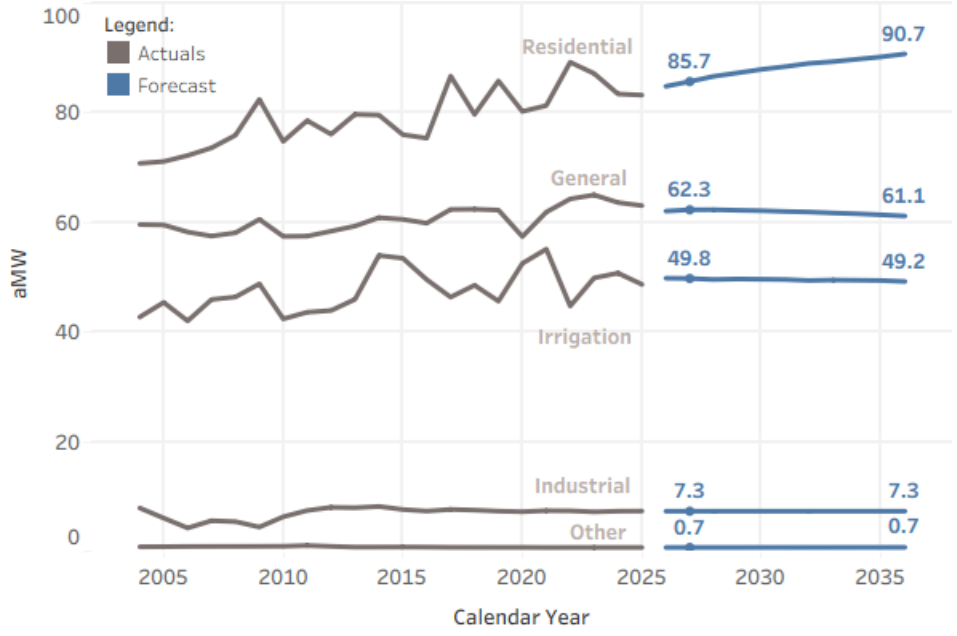


Figure 1-4 – Forecast of annual retail load by customer class

Overall, the Forecast reflects the continuing trend of a growing customer count, but a relatively low rate of retail load growth, primarily due to declining trends in energy usage per customer because of energy efficiency and conservation. For details about the trends of each customer class, refer to **Section 5.**

This Forecast will be an input to the revenue forecast for the District's 2027 budget. **Figure 1-5** below shows the estimated monthly shape of retail load, by customer class, for calendar year 2027.

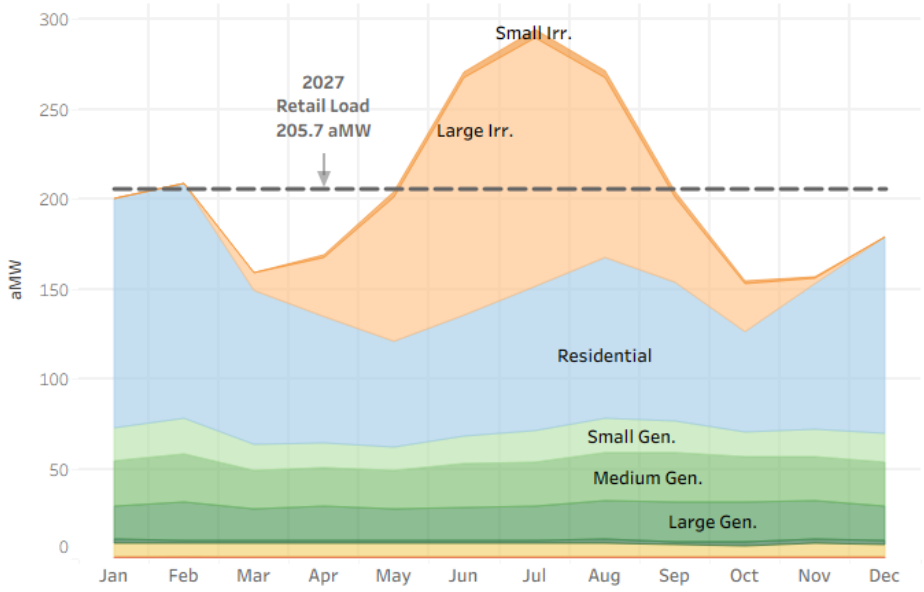


Figure 1-5 – Forecast of monthly retail load by customer class

This Forecast will also be an input to the Power Supply Plan for the District's 2027 budget. The Forecast of wholesale load, as seen by Bonneville Power Administration, is shown below in **Figure 1-6**, including annual average demand (aMW) and annual peak demand (MW). Wholesale load is equal to retail load plus the District's transmission and distribution system losses of 3.04%. For additional information on system losses and the peak forecast, refer to **Sections 2.7 and 2.8**.

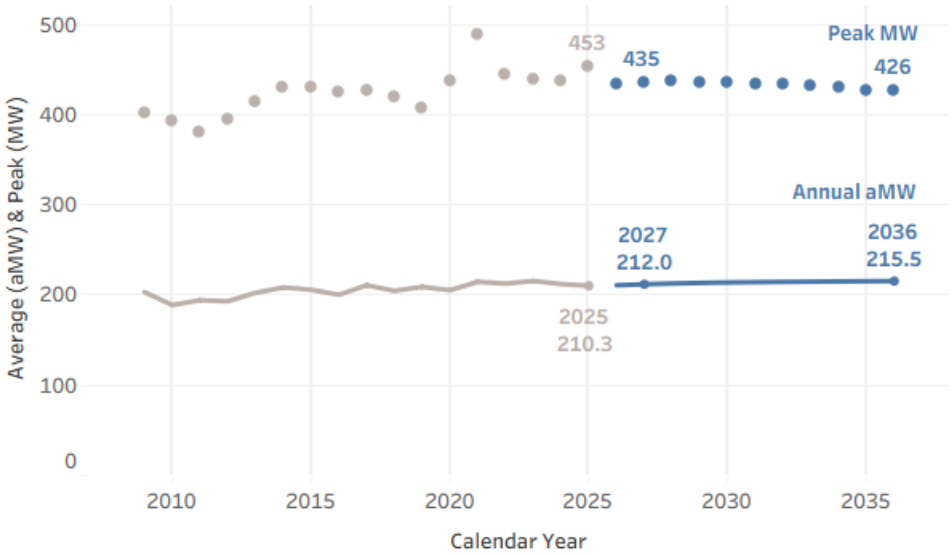


Figure 1-6 – Forecast of annual wholesale load

2. Forecast Methodology

2.1 Overview

The Load Forecast (Forecast) is a forecast of the District's total system and customer class annual and monthly energy (MWh), average demand (aMW), peak demand (MW) and number of customers. The Forecast inputs include historical monthly loads and monthly customer counts by customer class as well as a conservation forecast and manual adjustments as determined by District staff. Additional details of the forecast methodology and assumptions are provided in the following sections.

2.2 Customer Classes

The Forecast results include a total system forecast that is a summation of the forecasts for each customer class. **Table 2-1** below summarizes the relationship of the District's customer classes (i.e. revenue classes) to its rate schedules. Refer to the District's website for detailed descriptions of the rate schedules.

Table 2-1 – District customer class relationship to rate schedules

Customer Class	Rate Schedule(s)
Total System	All
Residential	11, 12
Small General	21, 90
Medium General	22
Large General	23
Large Industrial	34
Large Transient Electricity Intensive Load (EIL)	35*
Small Irrigation	71
Large Irrigation	72, 73, 74, 75, 76
Street Lights	51
Security Lights	61
New Large Single Load	80*
Unmetered Flats	85

** **No customers** currently*

2.3 Historical Data

Key inputs to the Forecast include historical monthly billed retail energy sales (MWh) and monthly customer counts (i.e. distinct count of billed services) as reported by the District's Billed Usage Data Mart[1]. The Forecast also utilizes the historical monthly energy (MWh) and peak demand (MW) values reported by the Bonneville Power Administration (BPA) Meter Data Management Reporting (MDMR2) system for the District's total system wholesale load as measured at the BPA point-of-deliveries.

2.4 Monthly Shaping

The initial year of the Forecast (2026) is set equal to the annual summation of the 4 or 5-year average (Jan-2022 to Mar-2026) of historical monthly billed energy for each customer class. For example,

[1] The "Billed Usage Data Mart" is the District's business intelligence reporting tool containing monthly billed energy usage since March 2017. The "actuals" of monthly energy and customer counts in this Forecast may differ slightly from the energy statistics reported within the District's monthly financial statements.

residential load in January 2026 was assumed equal to the 5-year average of historical January billed load. The 4 or 5-year average is applied for each month and then the months are summed to get the calendar year total by revenue class. For the wholesale load forecast the annual retail forecast is shaped to the calendar months using the 4-year average (2022-2025) of the proportion of monthly to annual wholesale load.

2.5 Conservation

The District considers its historical conservation and its latest Conservation Potential Assessment (CPA)[2] as inputs to the Forecast. **Figure 2-1** below shows the historical annual conservation by sector.[3]

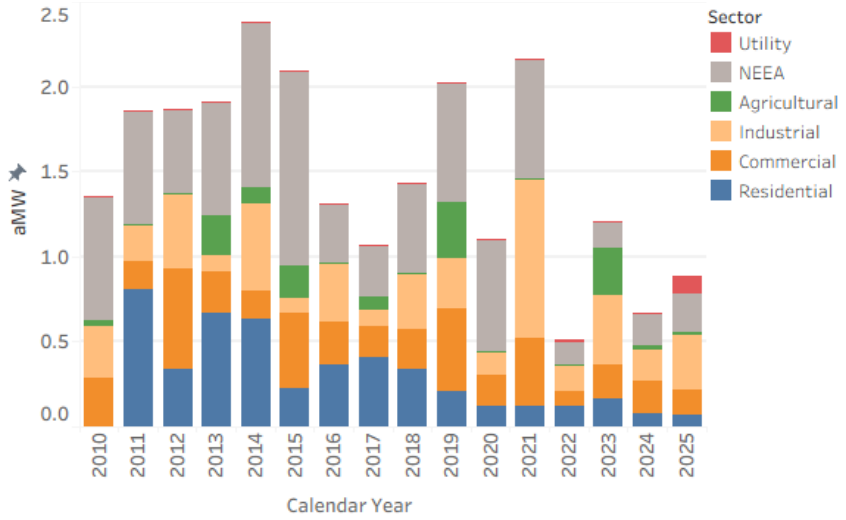


Figure 2-1 – Historical annual conservation by sector

Consistent with the latest CPA modeling, the Forecast includes 11.0 aMW of cumulative conservation through 2036, as shown below, by revenue class, in **Figure 2-2**.

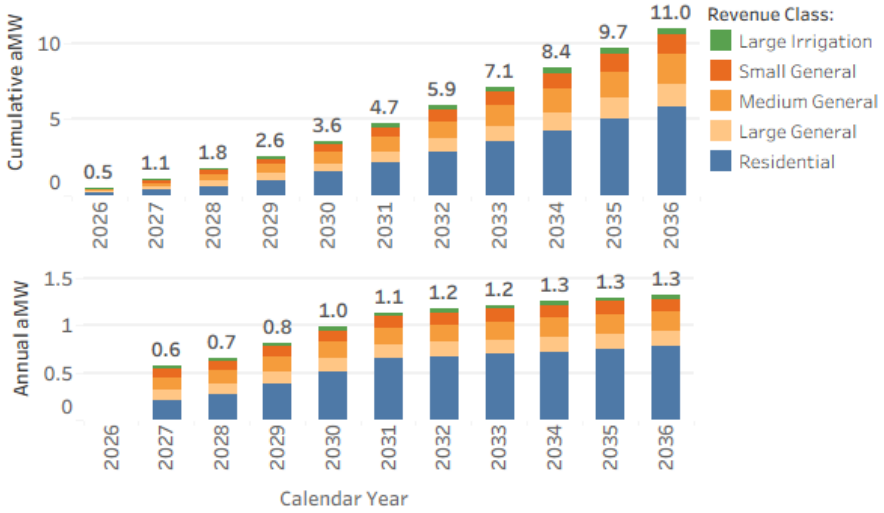


Figure 2-2 – Forecast of annual cumulative conservation by customer class

[2] 2025 CPA - Resolution No. 2700 adopted in August 2025.
[3] Historical conservation for 2025 assumes an estimate for NEEA savings, which are not yet final.

2.6 Manual Adjustment

Staff uses professional judgement to implement manual adjustments to the forecast to increase/decrease revenue class load growth and customer counts. Consideration is given to historical and expected load growth and usage per customer trends. In general, it is preferred to make as few adjustments as possible. **Table 2-2** summarizes the manual adjustments utilized for the Forecast.

Table 2-2 – Manual adjustments applied to the forecast

Customer Class	Adjustment Type	Adjustment Description
Residential	Customer & Load	1) Add 50 customers per month, and 2) Grow load by the 4-year average usage/customer
Small General	Customer & Load	3) Add 6 customers per month, and 4) Grow load by the 4-year average usage/customer;
Medium General	Customer & Load	5) Add 1 customer per year, and 6) Grow load by the 4-year average usage/customer; 7) Add 1 new onion storage shed every other year, with load matching an existing shed, starting in May-2028 (4 sheds total)
Large General	Customer & Load	8) Assume 2.0 aMW of existing Electricity Intensive Load; 9) Add 1 new onion processing facility, with load 5X an existing facility, starting in May-2026 (at 50% of normal in May) 10) Add asphalt plant with load matching an existing plant, starting in Apr-2027;
Large Industrial	Customer & Load	11) No new customers or load
Small Irrigation	Customer & Load	12) Remove 1 customer per year and reduce load slightly
Large Irrigation	Customer & Load	13) No new customers or load
Streetlights	Customer & Load	14) No new customers or load
Security Lights	Customer & Load	15) Remove 12 customers per year and reduce load slightly
Unmetered Flats	Customer & Load	16) Add 3 customers per year and increase load slightly

2.7 System Losses

The historical customer class load data used for the Forecast is based on the District's billed load, which includes both District metered and unmetered loads. The unmetered loads (street lighting, security lighting and flats) utilize estimates for monthly energy consumption. The aggregation of District billed load is referred to as "retail load" and this term implies the exclusion of losses associated with serving this load over the District's transmission and distribution system or the BPA system. Refer to the following paragraphs for additional background.

BPA separately meters the District's load. The District's contract with BPA defines both a "point-of-delivery" and a "point-of-metering". The aggregation of load measured by BPA's points-of-metering will include the District's entire retail load, as defined above, but only a portion of the losses associated with the District's transmission and distribution system, because not all of BPA's meters are physically positioned to measure 100% of the losses at their locations. For example, BPA metering is typically installed on the low voltage side of a substation power transformer and therefore does not measure the losses associated with the District's power transformer. Another example is when BPA metering is installed at the substation, but the point-of-delivery is defined at a point upstream where the District's transmission line taps BPA's line. For billing, BPA estimates the losses associated with the difference

between the point-of-metering and the point-of-delivery. BPA's billed aggregate load at the point-of-delivery, also referred to as the District's "wholesale load", is inclusive of the District's entire retail load and the District's entire transmission and distribution system losses.

The difference between BPA's wholesale load and the District's billed retail load is equal to the District's transmission and distribution system losses. These losses are typically represented as a percentage of the wholesale load. The Forecast assumes that the District's transmission and distribution system losses are 3.04%, which is the average of the last 4 years of historical annual losses.

2.8 Peak Forecast

To calculate a monthly peak forecast, a 4-year monthly average load factor was calculated using the historical relationship between the BPA wholesale monthly average energy and monthly peak demand. The average load factor was then applied to the monthly wholesale load forecast to derive peak demands for every month. The peak forecast includes reductions in demand from conservation.

3. Forecast Considerations

3.1 Forecast History

Figure 3-1 shows the forecast history versus actuals for the total system retail load. Recent forecasts have all been very similar, with 10-year annual average growth rates averaging about 0.26% for the 2017-2025 vintage forecasts and this forecast at 0.21%. Past forecast growth rates averaged 0.54% for 2010-2016 forecasts and 1.65% for 2003-2009 forecasts.

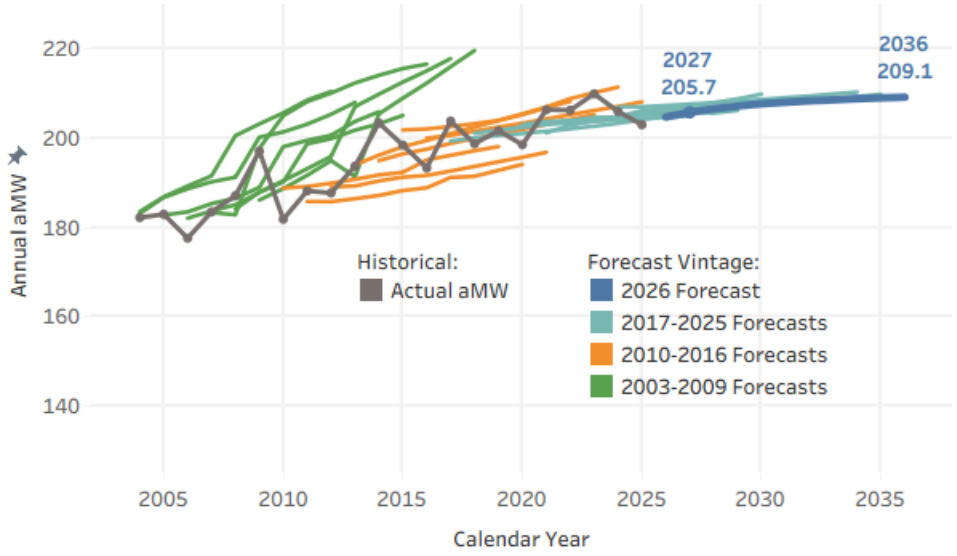


Figure 3-1 – Retail load forecast history

3.2 Forecast Variance

Several factors can cause variation of actuals from the Forecast, including weather, large irrigation customer crop rotations, and unforeseen new loads or loss of loads. The most common driver of the variance is weather, given that the Forecast is based on average load. **Figure 3-2** below shows the variance of actuals versus the prior year's forecast of total system retail load (e.g. the 2024 variance is based on the 2024 actual vs. the 2023 forecast for calendar year 2024). Positive numbers indicate actuals were higher than forecast and negative numbers indicate actuals were lower than forecast.

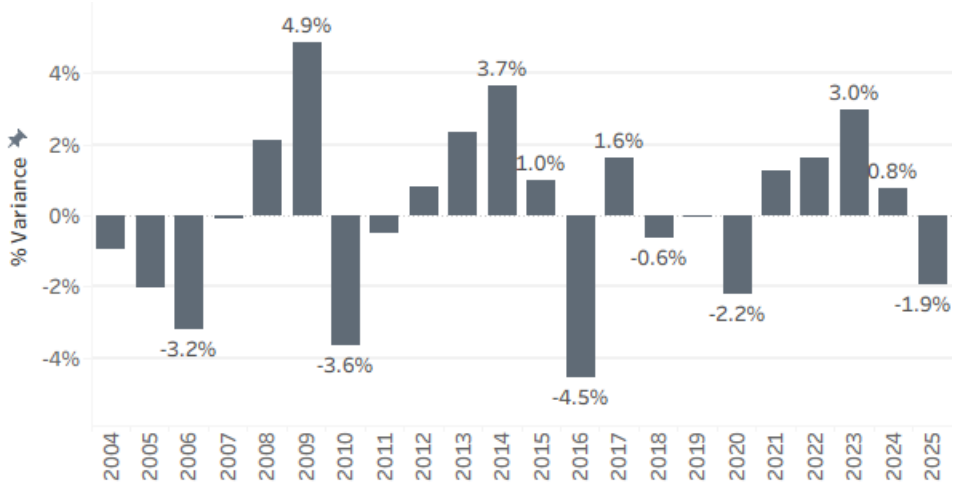


Figure 3-2 – Forecast variance

3.3 Forecast High & Low Case

The Forecast assumes high and low cases that are +/- 5%, which is representative of annual variances that may be expected going forward, including due to above or below average weather. **Figure 3-3** below shows the forecast for the base, high, and low case.

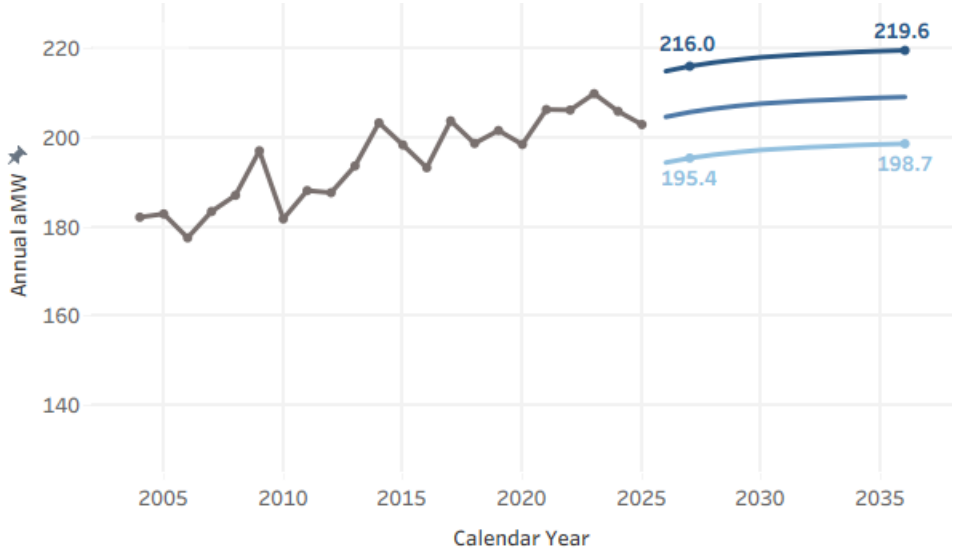


Figure 3-3 – Forecast high and low cases

3.4 Customer Generation

The impact of customer generation reducing load has not been explicitly modeled in the Forecast, however, staff routinely monitors the growth. The District ended calendar year 2025 with 1,330 customer generation services (production meters), an increase of 175 for the year, as shown below in **Figure 3-4**. About half of the 2025 annual increase is due to new home construction with solar.

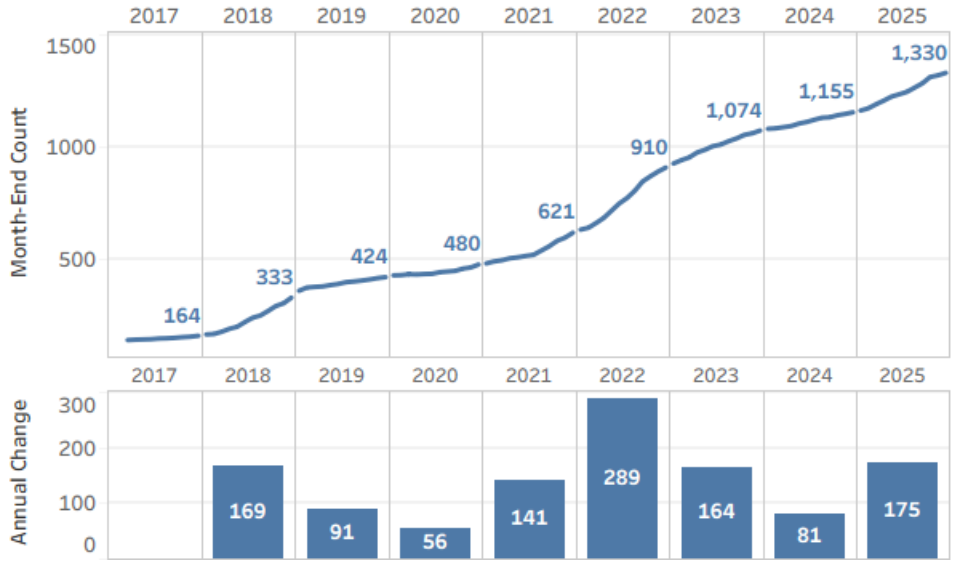


Figure 3-4 – Count of customer generation services

In addition to its net metered customers, the District has 154 customers that funded the construction of two community solar projects, the 74.8 kW Ely Community Solar Project in Kennewick, WA

(commissioned July 1, 2015) and the 24.6 kW Old Inland Empire (OIE) Community Solar Project in Prosser, WA (commissioned March 4, 2016). The aggregate annual production of the District's customer generation, including the District's community solar projects, is shown below in **Table 3-1**.

Table 3-1 – Annual amount of customer generation

Calendar Year	Average Megawatts (aMW)	Megawatt-hours (MWh)	Peak Hour Megawatts (MW)	Peak Hour Date & Time
2022	1.0	9,012	5.7	May 3, 2022, 12:00-1:00 p.m.
2023	1.4	11,932	7.2	June 14, 2023, 12:00-1:00 p.m.
2024	1.5	13,202	8.1	June 3, 2024, 12:00-1:00 p.m.
2025	1.6	14,223	8.3	May 21, 2025, 12:00-1:00 p.m.

3.5 Electricity Intensive Load

The District has assigned the term "Electricity Intensive Load" (EIL) for the emergence of new loads such as data centers and cryptocurrency mining. As of May 2026, the District has 6 customers operating a total of 8 EIL services across multiple customer classes: 2 residential, 2 small general, 1 medium general, and 3 large general. The EIL services in the large general class represent most of the EIL load; therefore, these loads have been separated out for historical analysis and forecasting. Elsewhere in the report, the EIL loads are included within their respective customer classes, unless otherwise noted.

The historical monthly average load of large general EIL customers had increased up to 5.6 aMW as of March 2024, but then decreased significantly by mid-2024 after 3 EIL services ended service. Another large EIL ended service in early 2026. This Forecast assumes that the currently active, large general EIL loads will continue at about 2.0 aMW annually, as shown below in **Figure 3-5**, a decrease of 1.0 aMW from the 3.0 aMW assumed in the 2025 forecast.

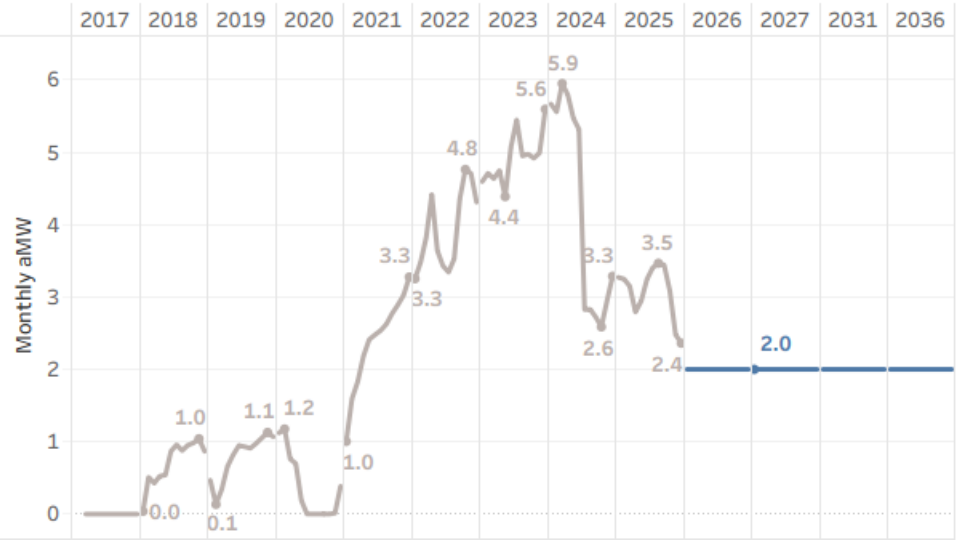


Figure 3-5 – Forecast of large general Electricity Intensive Load

3.6 Electric Vehicles

Another possible source of load growth is electric vehicles (EVs). Due to their current slow adoption rate, the impacts of EV growth are not explicitly included within this Forecast, however, the District continues

monitoring, as described below. The 2022 Forecast included an in-depth analysis of EV growth scenarios that remains a relevant reference for resource planning.[4]

The Washington State Department of Licensing (WA DOL) maintains a database and website of electric vehicles registered in Washington State[5]. The data set includes both plug-in hybrid electric vehicles (PHEV) and battery electric vehicles (BEV). District staff is monitoring this data, particularly the adoption rate and total count of BEVs. BEVs are the predominant focus and long-term direction of the EV industry and have greater charging load impact than PHEV technology. According to WA DOL data[6], the Benton County passenger EV adoption rate (percentage of electric vehicles to non-electric vehicles) was 2.7% through December 2025, up from 2.0% in December 2024. Benton County ended 2025 with 2,888 BEVs, an increase of 811 for the year, as shown below in **Figure 3-6**.

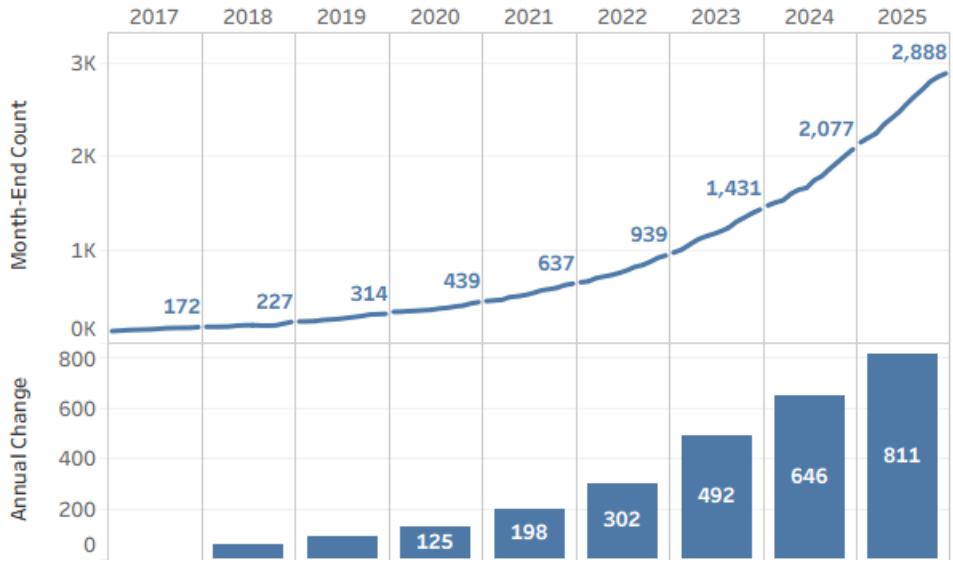


Figure 3-6 – Battery electric vehicles registered in Benton County

Assuming a single BEV uses 2,800 kWh annually–based on a Chevy Bolt at 28 kWh/100 miles driven 10,000 miles per year–2,888 BEV's would add about 0.9 aMW of annual load. If all 2,888 BEV's charged at the same time using a level 2 charger (240-volt, 40 amp) it would add about 28 MW of peak demand. These calculations are for "book-end" reference only, given that the District would not be serving 100% of BEV loads within Benton County, nor would all BEV's charge at their maximum rate at the same time.

In addition to monitoring the WA DOL data, the District tracks its EV rebate program. The District passed Resolution No. 2521 on November 12, 2019, to create an Electrification of Transportation Plan that allows the District to offer incentives/rebates, advertise, and promote the adoption of EV's. Following the adoption of Resolution No. 2521, the District began promoting the benefits of owning an electric vehicle by offering a $250 rebate to customers who purchase or lease a new electric vehicle. The District also began offering a $20 rebate for Energy Star® qualified level 2 EV charges. The annual count of EV rebates is shown below in **Table 3-2**.

[4] For the 2022 Forecast, refer to Resolution No. 2600 – April 26, 2022
[5] https://data.wa.gov/Transportation/Electric-Vehicle-Population-Data/f6w7-q2d2
[6] https://data.wa.gov/Transportation/Monthly-Electric-Vehicle-Adoption-Rate-by-County/crrp-awfs

Table 3-2– Annual count of electric vehicle rebates

Calendar Year	EV Rebate Count	Level 2 Charger Rebate Count
2020	5	-
2021	9	-
2022	13	-
2023	24	2
2024	20	12
2025	31	3
Total	**102**	**17**

3.7 Natural Gas/Electrification

Load growth for the District could come in the form of natural gas transition and electrification due to current climate initiatives and political decisions in the state of Washington. In-depth scenarios of natural gas to electric conversion were analyzed by the 2022 Forecast. The impacts have not been explicitly included within this Forecast, but the 2022 analysis remains relevant for resource planning scenarios.

4. Forecast for Total System

See **Figure 4-1** and **Table 4-1** for details of the total system forecast.

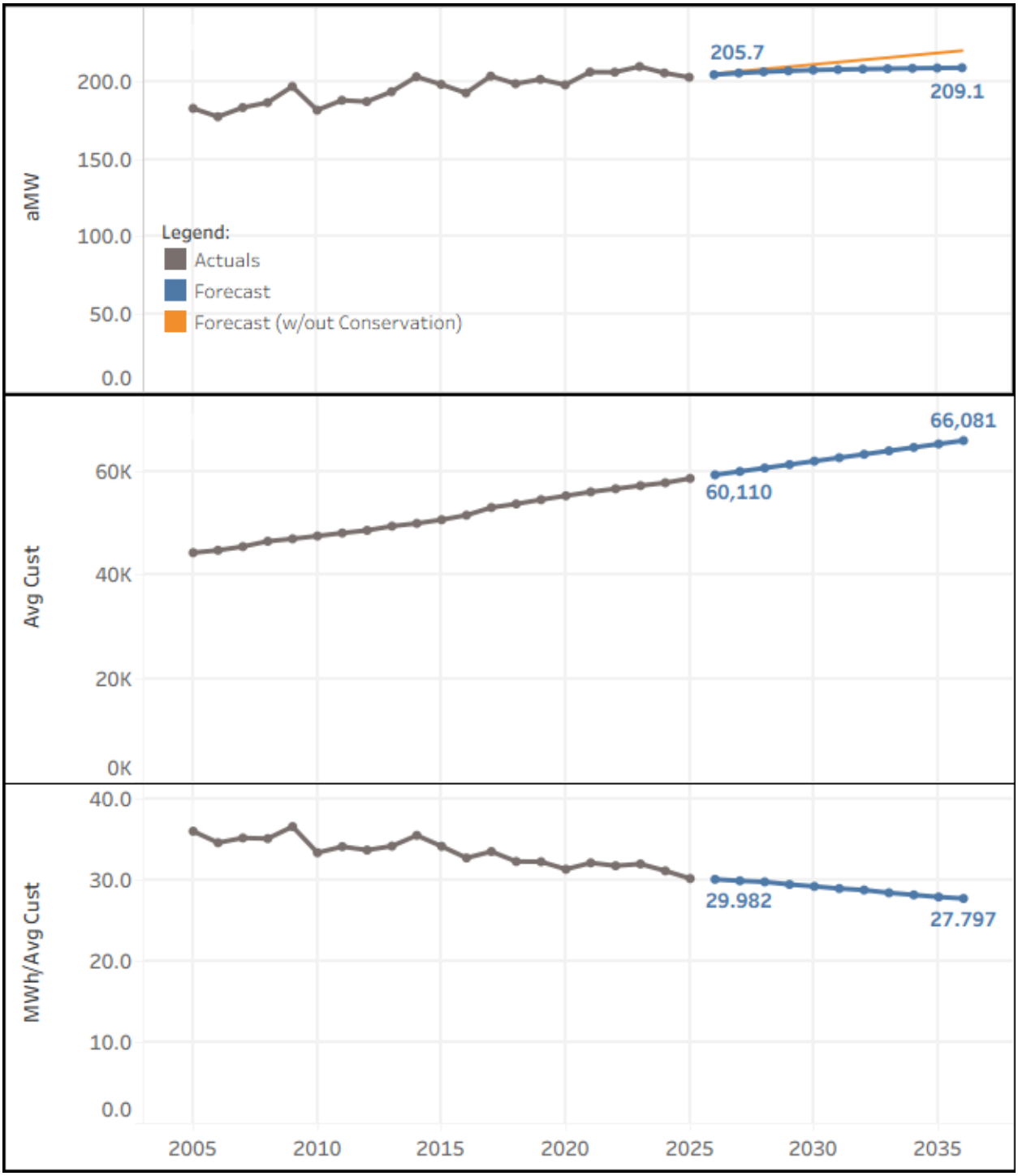


Figure 4-1 – Total System forecast of retail load, customers and usage per customer

Table 4-1 – Total System forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	182.9			1,602,508	44,389	36.101	44,628	0		
2006	177.6	-5.342	-2.9%	1,555,710	44,856	34.682	45,302	674	1.5%	
2007	183.5	5.885	3.3%	1,607,265	45,569	35.271	45,944	642	1.4%	
2008	186.7	3.209	1.7%	1,639,856	46,600	35.190	46,903	959	2.1%	
2009	197.1	10.384	5.6%	1,726,341	47,074	36.673	47,328	425	0.9%	
2010	181.8	-15.244	-7.7%	1,592,802	47,617	33.450	47,937	609	1.3%	
2011	188.2	6.342	3.5%	1,648,362	48,197	34.201	48,455	518	1.1%	
2012	187.3	-0.865	-0.5%	1,645,277	48,710	33.777	49,059	604	1.2%	
2013	193.7	6.392	3.4%	1,696,774	49,520	34.264	49,816	757	1.5%	
2014	203.3	9.652	5.0%	1,781,322	50,053	35.589	50,382	566	1.1%	
2015	198.4	-4.943	-2.4%	1,738,022	50,762	34.239	51,166	784	1.6%	
2016	192.9	-5.545	-2.8%	1,694,078	51,643	32.804	52,097	931	1.8%	
2017	203.8	10.893	5.6%	1,784,871	53,130	33.594	53,510	1,413	2.7%	
2018	198.8	-4.917	-2.4%	1,741,796	53,817	32.365	54,204	694	1.3%	
2019	201.7	2.851	1.4%	1,766,771	54,644	32.332	55,017	813	1.5%	
2020	198.1	-3.595	-1.8%	1,740,032	55,398	31.410	55,802	785	1.4%	
2021	206.4	8.294	4.2%	1,807,935	56,149	32.199	56,456	654	1.2%	
2022	206.3	-0.111	-0.1%	1,806,963	56,753	31.839	57,007	551	1.0%	
2023	209.9	3.641	1.8%	1,838,854	57,357	32.060	57,674	667	1.2%	
2024	205.8	-4.143	-2.0%	1,807,503	57,911	31.212	58,189	515	0.9%	
2025	203.0	-2.799	-1.4%	1,778,044	58,758	30.260	59,086	897	1.5%	
2026	204.7	1.700	0.8%	1,792,937	59,446	30.161	59,750	664	1.1%	0.520
2027	205.7	1.060	0.5%	1,802,220	60,110	29.982	60,414	664	1.1%	1.103
2028	206.5	0.780	0.4%	1,814,009	60,774	29.849	61,078	664	1.1%	1.765
2029	207.1	0.613	0.3%	1,814,423	61,437	29.533	61,741	663	1.1%	2.586
2030	207.6	0.521	0.3%	1,818,987	62,101	29.291	62,405	664	1.1%	3.571
2031	208.0	0.331	0.2%	1,821,890	62,764	29.028	63,068	663	1.1%	4.712
2032	208.3	0.316	0.2%	1,829,654	63,428	28.846	63,732	664	1.1%	5.893
2033	208.5	0.221	0.1%	1,826,591	64,091	28.500	64,395	663	1.0%	7.109
2034	208.8	0.260	0.1%	1,828,865	64,755	28.243	65,059	664	1.0%	8.365
2035	209.0	0.188	0.1%	1,830,514	65,418	27.982	65,722	663	1.0%	9.667
2036	209.1	0.152	0.1%	1,836,865	66,081	27.797	66,385	663	1.0%	10.991

5. Forecast by Customer Class

5.1 Residential

See **Figure 5-1** and **Table 5-1** for details of the residential forecast.

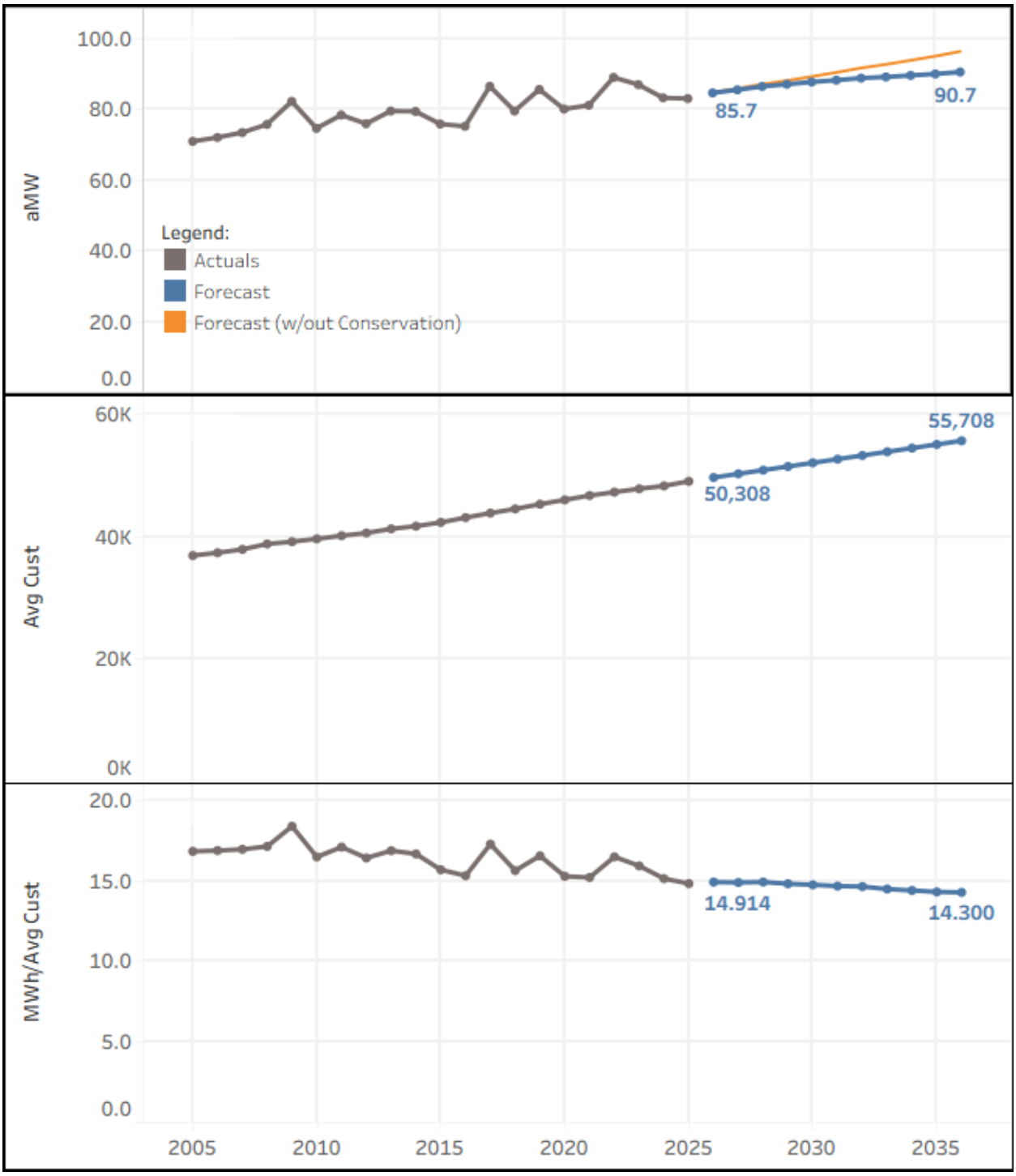


Figure 5-1 – Residential forecast of retail load, customers and usage per customer

Table 5-1 – Residential forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	71.1			622,639	36,963	16.845	37,236			
2006	72.2	1.093	1.5%	632,213	37,418	16.896	37,802	566	1.5%	
2007	73.6	1.390	1.9%	644,392	37,969	16.972	38,285	483	1.3%	
2008	75.9	2.306	3.1%	666,418	38,855	17.151	39,095	810	2.1%	
2009	82.4	6.521	8.6%	721,719	39,220	18.402	39,430	335	0.9%	
2010	74.7	-7.642	-9.3%	654,775	39,687	16.498	39,973	543	1.4%	
2011	78.5	3.787	5.1%	687,953	40,201	17.113	40,432	459	1.1%	
2012	76.0	-2.484	-3.2%	668,018	40,645	16.435	40,955	523	1.3%	
2013	79.7	3.618	4.8%	697,887	41,321	16.889	41,561	606	1.5%	
2014	79.5	-0.124	-0.2%	696,804	41,758	16.687	42,039	478	1.2%	
2015	76.0	-3.573	-4.5%	665,505	42,375	15.705	42,724	685	1.6%	
2016	75.3	-0.636	-0.8%	661,742	43,157	15.333	43,574	850	2.0%	
2017	86.6	11.309	15.0%	759,000	43,895	17.291	44,244	670	1.5%	
2018	79.7	-6.983	-8.1%	697,825	44,578	15.654	44,967	723	1.6%	
2019	85.8	6.101	7.7%	751,273	45,348	16.567	45,717	750	1.7%	
2020	80.2	-5.555	-6.5%	704,534	46,053	15.298	46,420	703	1.5%	
2021	81.3	1.067	1.3%	711,954	46,763	15.225	47,033	613	1.3%	
2022	89.2	7.896	9.7%	781,120	47,320	16.507	47,573	540	1.1%	
2023	87.1	-2.050	-2.3%	763,160	47,866	15.944	48,133	560	1.2%	
2024	83.4	-3.735	-4.3%	732,441	48,332	15.154	48,576	443	0.9%	
2025	83.2	-0.201	-0.2%	728,682	49,089	14.844	49,383	807	1.7%	
2026	84.8	1.600	1.9%	742,697	49,708	14.941	49,983	600	1.2%	0.155
2027	85.7	0.868	1.0%	750,303	50,308	14.914	50,583	600	1.2%	0.366
2028	86.6	0.949	1.1%	760,696	50,908	14.943	51,183	600	1.2%	0.634
2029	87.2	0.627	0.7%	764,106	51,508	14.835	51,783	600	1.2%	1.013
2030	87.9	0.638	0.7%	769,699	52,108	14.771	52,383	600	1.2%	1.531
2031	88.4	0.517	0.6%	774,226	52,708	14.689	52,983	600	1.1%	2.181
2032	89.0	0.588	0.7%	781,513	53,308	14.660	53,583	600	1.1%	2.856
2033	89.3	0.315	0.4%	782,137	53,908	14.509	54,183	600	1.1%	3.555
2034	89.7	0.436	0.5%	785,960	54,508	14.419	54,783	600	1.1%	4.278
2035	90.1	0.422	0.5%	789,661	55,108	14.329	55,383	600	1.1%	5.032
2036	90.7	0.544	0.6%	796,607	55,708	14.300	55,983	600	1.1%	5.816

5.2 Small General

See **Figure 5-2** and **Table 5-2** for details of the Small General Service forecast.

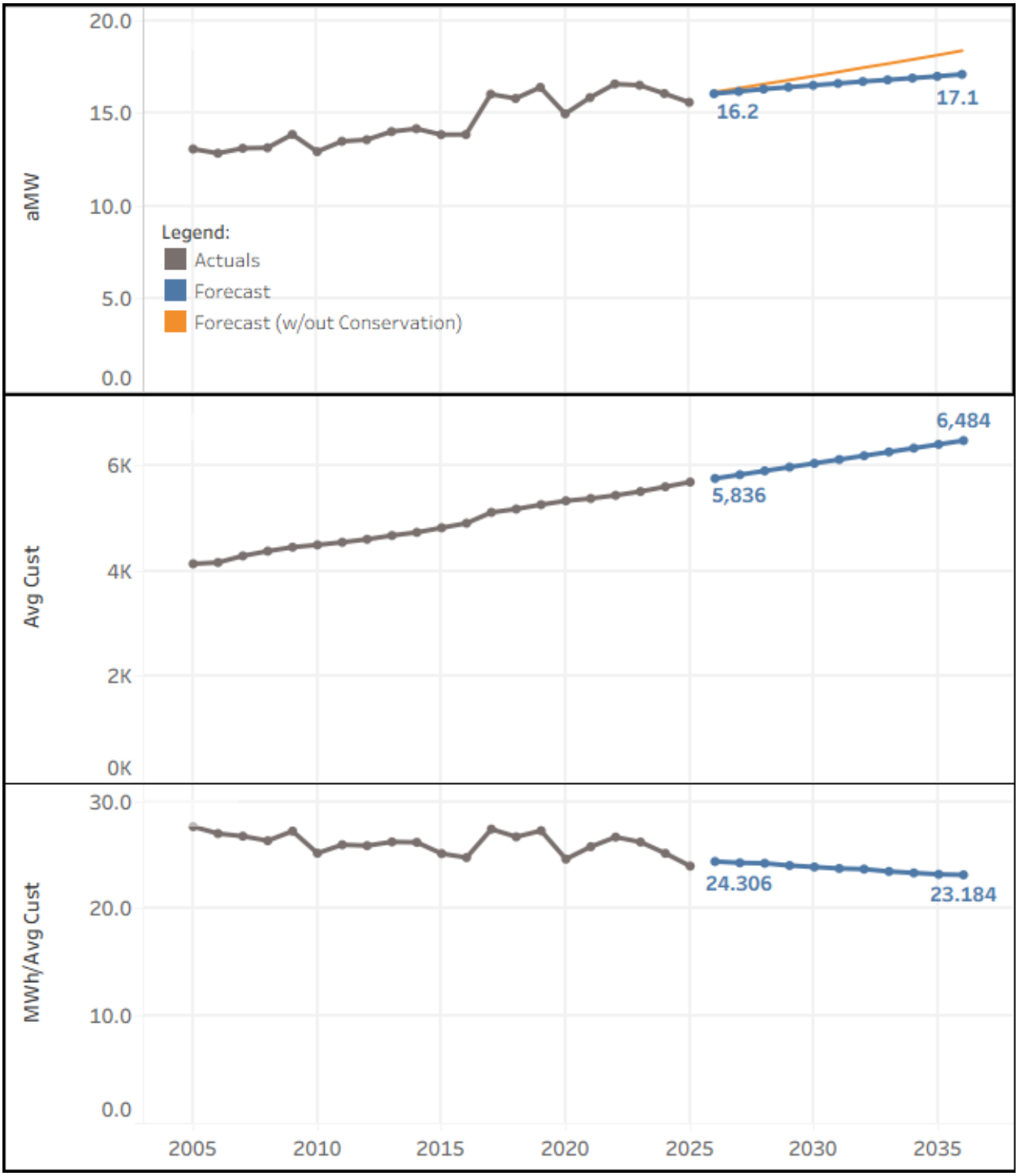


Figure 5-2 – Small General forecast of retail load, customers and usage per customer

Table 5-2 – Small General forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	13.1			114,710	4,144	27.681	4,128			
2006	12.9	-0.229	-1.7%	112,705	4,169	27.034	4,232	104	2.5%	
2007	13.1	0.268	2.1%	115,049	4,295	26.787	4,324	92	2.2%	
2008	13.2	0.029	0.2%	115,616	4,385	26.366	4,445	121	2.8%	
2009	13.9	0.717	5.4%	121,580	4,460	27.260	4,484	39	0.9%	
2010	13.0	-0.924	-6.7%	113,483	4,503	25.202	4,528	44	1.0%	
2011	13.5	0.554	4.3%	118,338	4,553	25.991	4,576	48	1.1%	
2012	13.6	0.086	0.6%	119,421	4,610	25.905	4,652	76	1.7%	
2013	14.0	0.438	3.2%	122,928	4,682	26.255	4,709	57	1.2%	
2014	14.2	0.155	1.1%	124,285	4,741	26.215	4,784	75	1.6%	
2015	13.9	-0.318	-2.2%	121,498	4,828	25.165	4,883	99	2.1%	
2016	13.9	0.004	0.0%	121,868	4,915	24.795	4,949	66	1.4%	
2017	16.0	2.171	15.6%	140,554	5,121	27.447	5,191	242	4.9%	
2018	15.8	-0.229	-1.4%	138,551	5,184	26.727	5,189	-2	0.0%	
2019	16.4	0.598	3.8%	143,792	5,267	27.301	5,302	113	2.2%	
2020	15.0	-1.427	-8.7%	131,648	5,340	24.653	5,374	72	1.4%	
2021	15.9	0.874	5.8%	138,948	5,384	25.808	5,410	36	0.7%	
2022	16.6	0.733	4.6%	145,370	5,444	26.703	5,454	44	0.8%	
2023	16.5	-0.067	-0.4%	144,783	5,517	26.243	5,565	111	2.0%	
2024	16.1	-0.448	-2.7%	141,247	5,607	25.191	5,641	76	1.4%	
2025	15.6	-0.473	-2.9%	136,719	5,696	24.003	5,725	84	1.5%	
2026	16.1	0.466	3.0%	140,801	5,764	24.428	5,797	72	1.3%	0.086
2027	16.2	0.120	0.7%	141,849	5,836	24.306	5,869	72	1.2%	0.175
2028	16.3	0.127	0.8%	143,352	5,908	24.264	5,941	72	1.2%	0.269
2029	16.4	0.101	0.6%	143,850	5,980	24.055	6,013	72	1.2%	0.377
2030	16.5	0.103	0.6%	144,755	6,052	23.918	6,085	72	1.2%	0.491
2031	16.6	0.100	0.6%	145,628	6,124	23.780	6,157	72	1.2%	0.613
2032	16.7	0.106	0.6%	146,962	6,196	23.719	6,229	72	1.2%	0.739
2033	16.8	0.086	0.5%	147,318	6,268	23.503	6,301	72	1.2%	0.867
2034	16.9	0.095	0.6%	148,153	6,340	23.368	6,373	72	1.1%	1.000
2035	17.0	0.095	0.6%	148,981	6,412	23.235	6,445	72	1.1%	1.137
2036	17.1	0.107	0.6%	150,327	6,484	23.184	6,517	72	1.1%	1.271

5.3 Medium General

See **Figure 5-3** and **Table 5-3** for details of the Medium General Service forecast.

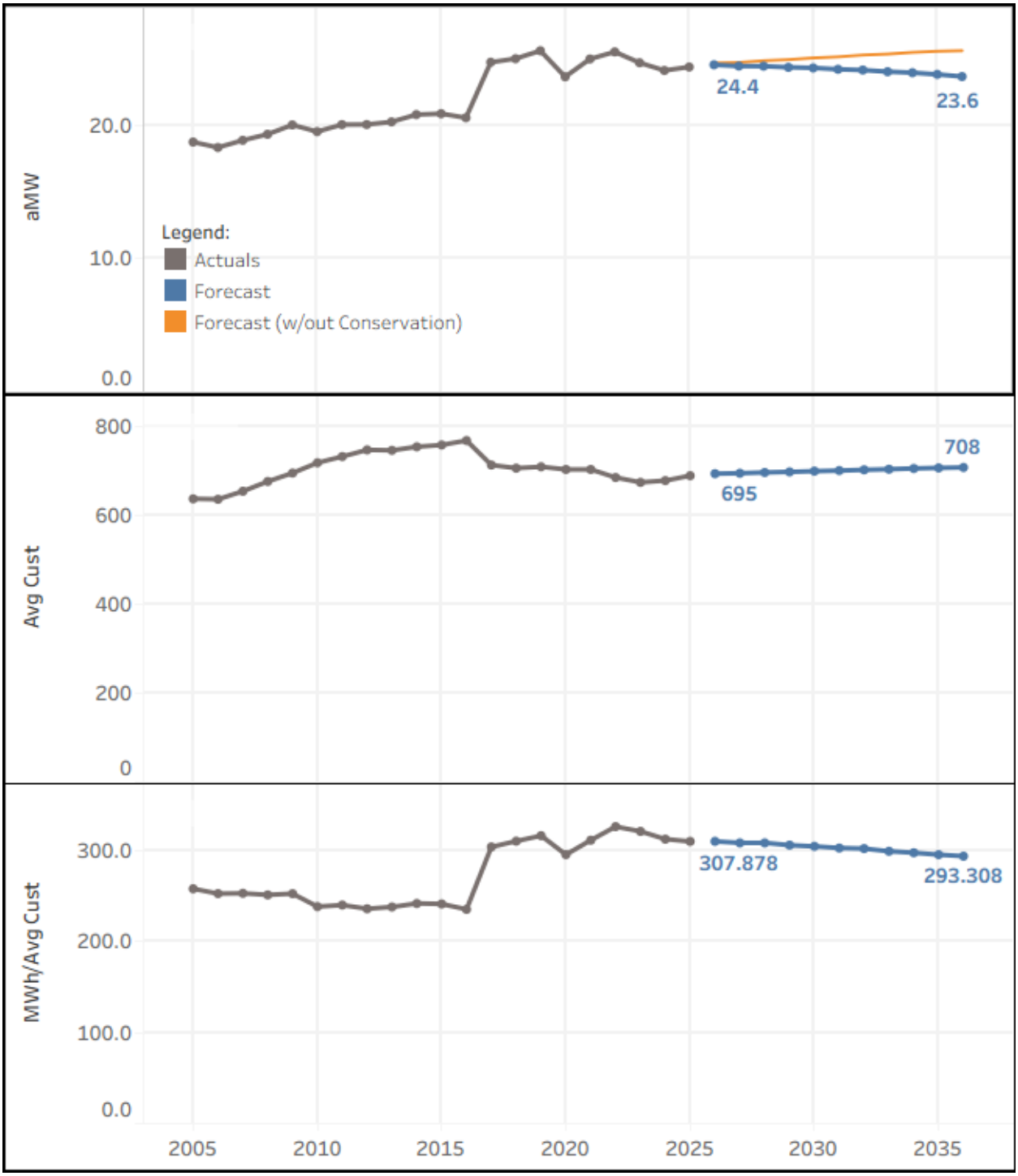


Figure 5-3 – Medium General forecast of retail load, customers and usage per customer

Table 5-3 – Medium General forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	18.7			164,043	637	257.524	627			
2006	18.3	-0.411	-2.2%	160,440	636	252.263	641	14	2.2%	
2007	18.9	0.542	3.0%	165,186	654	252.577	665	24	3.7%	
2008	19.3	0.448	2.4%	169,571	676	250.845	683	18	2.7%	
2009	20.0	0.703	3.6%	175,265	695	252.179	707	24	3.5%	
2010	19.5	-0.502	-2.5%	170,868	718	237.977	725	18	2.5%	
2011	20.0	0.525	2.7%	175,463	732	239.704	747	22	3.0%	
2012	20.0	0.006	0.0%	175,999	747	235.607	742	-5	-0.7%	
2013	20.2	0.198	1.0%	177,250	746	237.601	750	8	1.1%	
2014	20.8	0.547	2.7%	182,044	754	241.437	758	8	1.1%	
2015	20.8	0.065	0.3%	182,610	758	240.911	762	4	0.5%	
2016	20.5	-0.301	-1.4%	180,467	768	234.983	775	13	1.7%	
2017	24.7	4.154	20.2%	216,364	713	303.456	701	-74	-9.5%	
2018	25.0	0.264	1.1%	218,676	706	309.740	710	9	1.3%	
2019	25.6	0.595	2.4%	223,892	709	315.786	704	-6	-0.8%	
2020	23.6	-1.950	-7.6%	207,375	703	294.985	708	4	0.6%	
2021	24.9	1.334	5.7%	218,493	703	310.801	695	-13	-1.8%	
2022	25.5	0.529	2.1%	223,125	685	325.729	679	-16	-2.3%	
2023	24.7	-0.811	-3.2%	216,018	674	320.501	678	-1	-0.1%	
2024	24.1	-0.579	-2.3%	211,528	678	311.988	684	6	0.9%	
2025	24.3	0.259	1.1%	213,223	689	309.467	693	9	1.3%	
2026	24.5	0.166	0.7%	214,681	694	309.544	694	1	0.1%	0.131
2027	24.4	-0.097	-0.4%	213,834	695	307.878	695	1	0.1%	0.265
2028	24.4	-0.008	0.0%	214,347	696	307.877	697	2	0.3%	0.409
2029	24.3	-0.084	-0.3%	213,022	698	305.389	698	1	0.1%	0.573
2030	24.3	-0.045	-0.2%	212,624	699	304.092	700	2	0.3%	0.747
2031	24.2	-0.102	-0.4%	211,729	701	302.236	701	1	0.1%	0.932
2032	24.1	-0.057	-0.2%	211,807	702	301.630	703	2	0.3%	1.123
2033	24.0	-0.122	-0.5%	210,156	704	298.711	704	1	0.1%	1.319
2034	23.9	-0.075	-0.3%	209,499	705	297.074	706	2	0.3%	1.521
2035	23.8	-0.127	-0.5%	208,389	707	294.943	707	1	0.1%	1.728
2036	23.6	-0.163	-0.7%	207,528	708	293.308	708	1	0.1%	1.933

5.4 Large General

See **Figure 5-4** and **Table 5-4** for details of the Large General Service forecast.

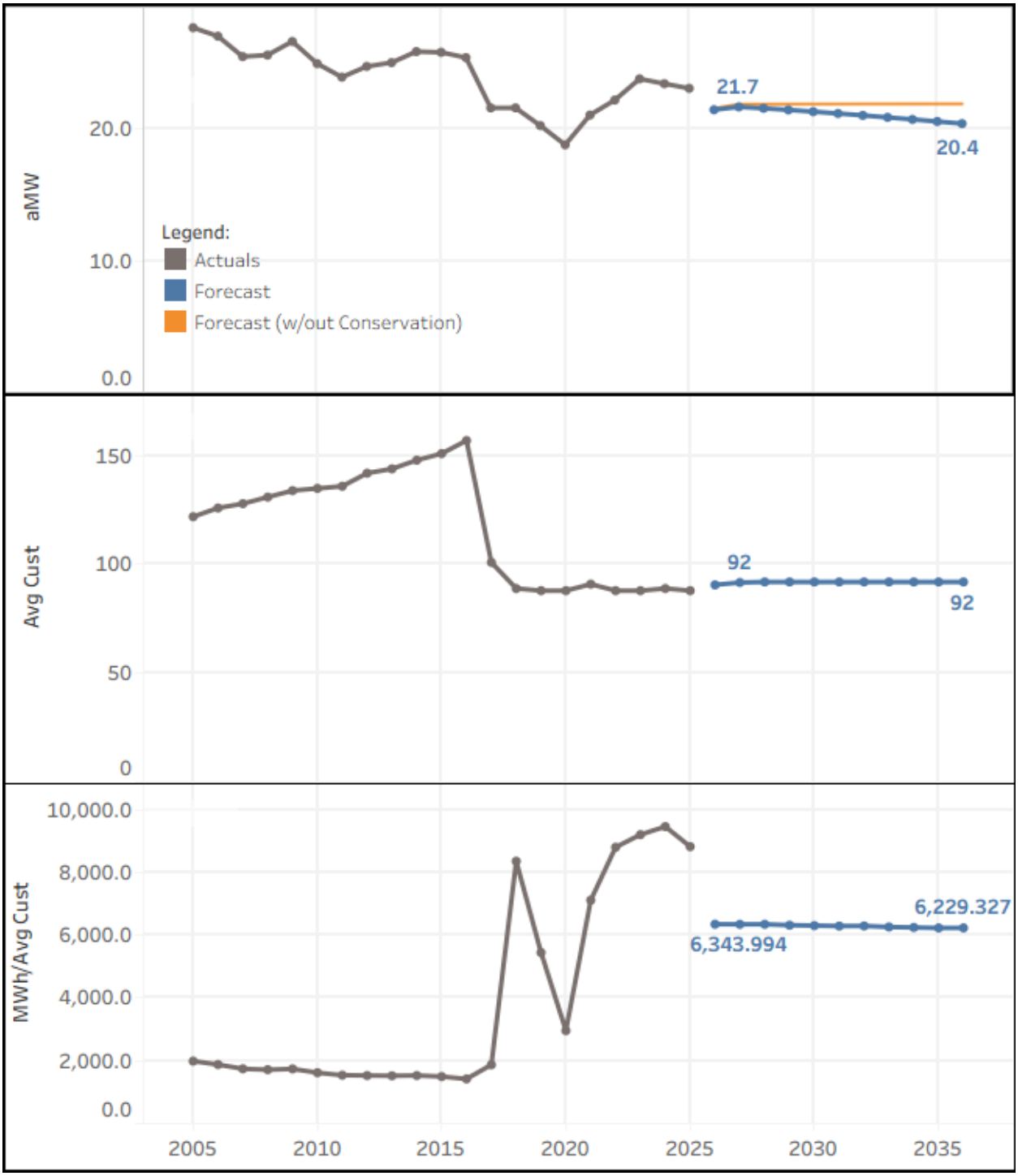


Figure 5-4 – Large General forecast of retail load, customers and usage per customer

Table 5-4 – Large General forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	27.7			242,555	122	1,988.160	123			
2006	27.0	-0.645	-2.3%	236,908	126	1,880.220	127	4	3.3%	
2007	25.5	-1.552	-5.7%	223,317	128	1,744.660	131	4	3.1%	
2008	25.6	0.117	0.5%	224,958	131	1,717.234	132	1	0.8%	
2009	26.6	1.035	4.0%	233,410	134	1,741.869	135	3	2.3%	
2010	25.0	-1.681	-6.3%	218,686	135	1,619.899	135	0	0.0%	
2011	23.9	-1.029	-4.1%	209,669	136	1,541.682	141	6	4.4%	
2012	24.7	0.812	3.4%	217,377	142	1,530.826	143	2	1.4%	
2013	25.0	0.289	1.2%	219,315	144	1,523.024	146	3	2.1%	
2014	25.9	0.841	3.4%	226,679	148	1,531.617	151	5	3.4%	
2015	25.8	-0.058	-0.2%	226,175	151	1,497.847	153	2	1.3%	
2016	25.4	-0.401	-1.6%	223,268	157	1,422.089	160	7	4.6%	
2017	21.6	-3.822	-15.0%	189,178	101	1,873.052	88	-72	-45.0%	
2018	21.6	0.005	0.0%	189,219	89	8,351.335	90	2	2.3%	
2019	20.3	-1.347	-6.2%	177,422	88	5,443.457	86	-4	-4.4%	
2020	18.8	-1.458	-7.2%	165,105	88	2,959.271	92	6	7.0%	
2021	21.1	2.261	12.0%	184,458	91	7,112.079	88	-4	-4.3%	
2022	22.2	1.136	5.4%	194,408	88	8,796.755	88	0	0.0%	
2023	23.8	1.610	7.3%	208,515	88	9,198.923	89	1	1.1%	
2024	23.4	-0.368	-1.5%	205,853	89	9,453.862	87	-2	-2.2%	
2025	23.1	-0.351	-1.5%	202,217	88	8,817.080	90	3	3.4%	
2026	21.5	-1.626	-7.0%	187,974	91	6,346.777	91	1	1.1%	0.101
2027	21.7	0.215	1.0%	189,861	92	6,343.994	92	1	1.1%	0.206
2028	21.6	-0.108	-0.5%	189,436	92	6,345.047	92	0	0.0%	0.317
2029	21.4	-0.121	-0.6%	187,861	92	6,315.689	92	0	0.0%	0.444
2030	21.3	-0.131	-0.6%	186,710	92	6,302.613	92	0	0.0%	0.579
2031	21.2	-0.139	-0.7%	185,489	92	6,288.742	92	0	0.0%	0.722
2032	21.0	-0.145	-0.7%	184,725	92	6,291.506	92	0	0.0%	0.870
2033	20.9	-0.151	-0.7%	182,898	92	6,259.291	92	0	0.0%	1.022
2034	20.7	-0.154	-0.7%	181,545	92	6,243.918	92	0	0.0%	1.179
2035	20.6	-0.159	-0.8%	180,155	92	6,228.123	92	0	0.0%	1.339
2036	20.4	-0.159	-0.8%	179,253	92	6,229.327	92	0	0.0%	1.498

5.5 Large Industrial

See **Figure 5-5** and **Table 5-5** for details of the Large Industrial forecast.

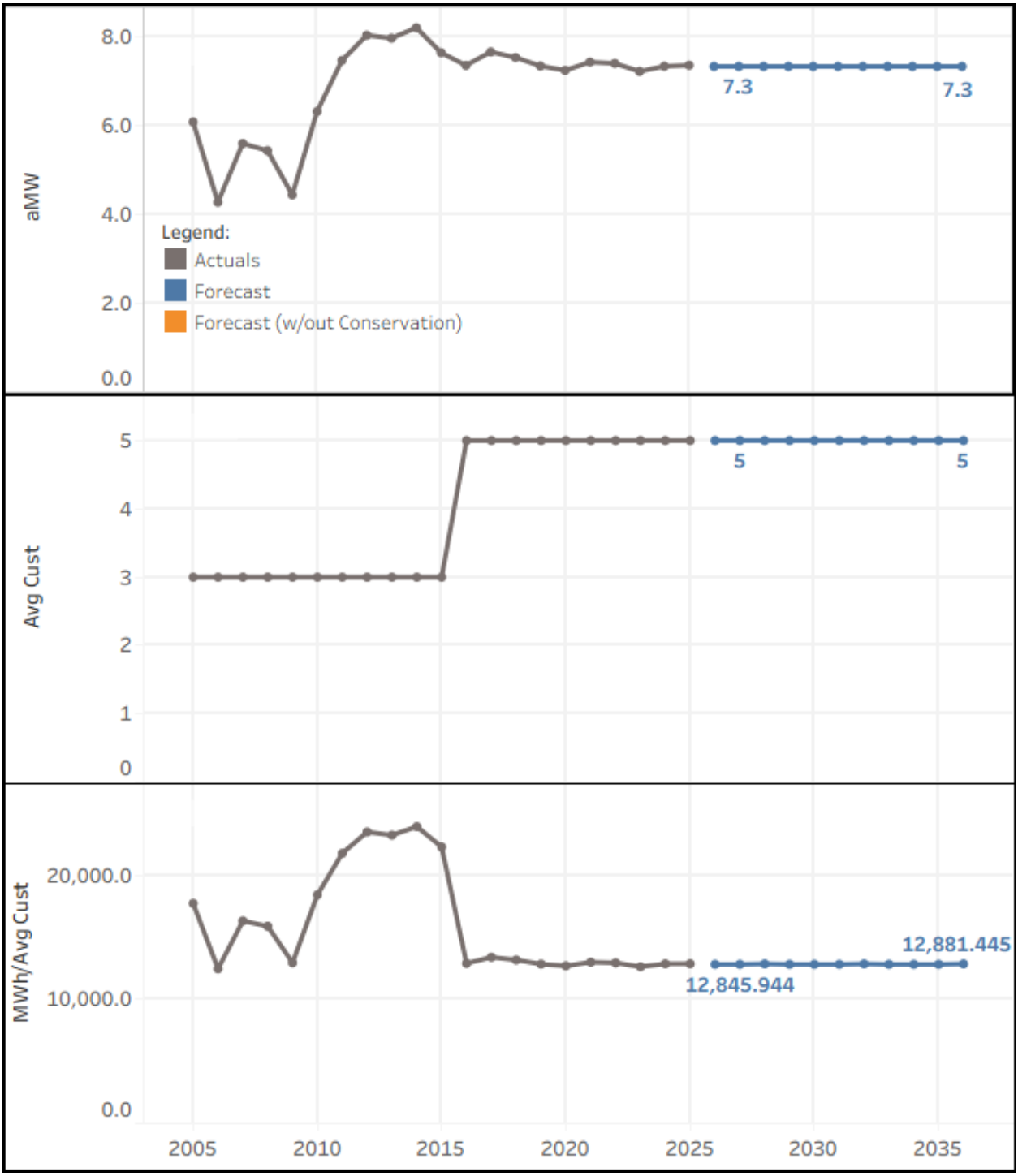


Figure 5-5 – Large Industrial forecast of retail load, customers and usage per customer

Table 5-5 – Large Industrial forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	6.1			53,286	3	17,761.9	3			
2006	4.3	-1.807	-29.7%	37,456	3	12,485.3	3	0	0.0%	
2007	5.6	1.323	30.9%	49,045	3	16,348.4	3	0	0.0%	
2008	5.4	-0.162	-2.9%	47,760	3	15,920.1	3	0	0.0%	
2009	4.4	-0.996	-18.3%	38,909	3	12,969.7	3	0	0.0%	
2010	6.3	1.878	42.3%	55,365	3	18,454.9	3	0	0.0%	
2011	7.5	1.147	18.1%	65,411	3	21,803.6	3	0	0.0%	
2012	8.0	0.568	7.6%	70,575	3	23,525.1	3	0	0.0%	
2013	8.0	-0.066	-0.8%	69,803	3	23,267.6	3	0	0.0%	
2014	8.2	0.236	3.0%	71,869	3	23,956.5	3	0	0.0%	
2015	7.6	-0.563	-6.9%	66,942	3	22,314.0	3	0	0.0%	
2016	7.4	-0.286	-3.7%	64,612	5	12,922.5	5	2	66.7%	
2017	7.7	0.304	4.1%	67,101	5	13,420.3	5	0	0.0%	
2018	7.5	-0.126	-1.6%	65,997	5	13,199.3	5	0	0.0%	
2019	7.3	-0.192	-2.5%	64,318	5	12,863.6	5	0	0.0%	
2020	7.2	-0.099	-1.3%	63,625	5	12,725.1	5	0	0.0%	
2021	7.4	0.186	2.6%	65,084	5	13,016.8	5	0	0.0%	
2022	7.4	-0.028	-0.4%	64,835	5	12,967.0	5	0	0.0%	
2023	7.2	-0.181	-2.4%	63,252	5	12,650.4	5	0	0.0%	
2024	7.3	0.116	1.6%	64,445	5	12,889.0	5	0	0.0%	
2025	7.4	0.022	0.3%	64,463	5	12,892.6	5	0	0.0%	
2026	7.3	-0.027	-0.4%	64,230	5	12,845.9	5	0	0.0%	0.000
2027	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2028	7.3	0.000	0.0%	64,407	5	12,881.4	5	0	0.0%	0.000
2029	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2030	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2031	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2032	7.3	0.000	0.0%	64,407	5	12,881.4	5	0	0.0%	0.000
2033	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2034	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2035	7.3	0.000	0.0%	64,230	5	12,845.9	5	0	0.0%	0.000
2036	7.3	0.000	0.0%	64,407	5	12,881.4	5	0	0.0%	0.000

5.6 Small Irrigation

See **Figure 5-6** and **Table 5-6** for details of the Small Irrigation forecast.

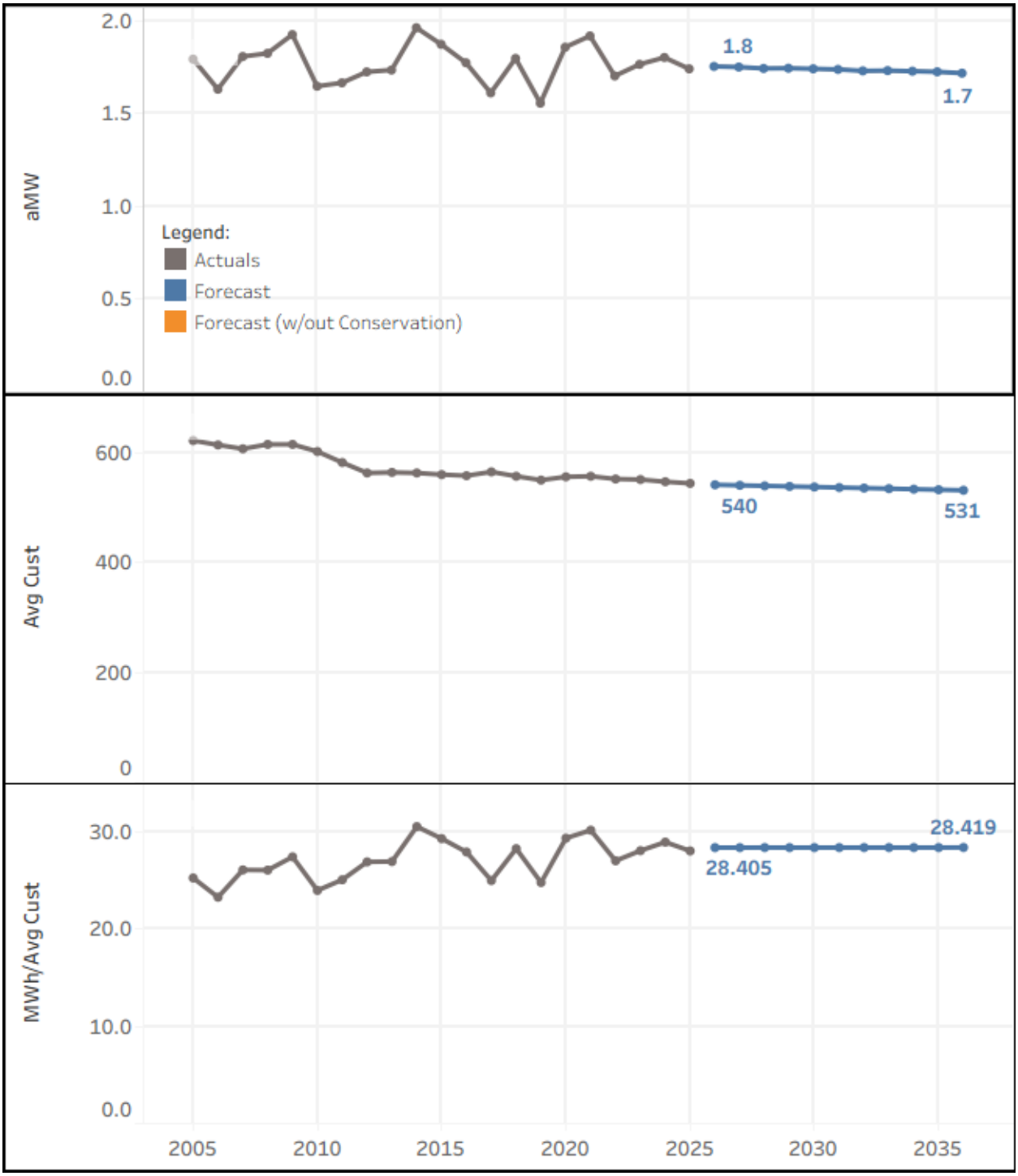


Figure 5-6 – Small Irrigation forecast of retail load, customers and usage per customer

Table 5-6 – Small Irrigation forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	1.8			15,724	622	25.280	619			
2006	1.6	-0.162	-9.0%	14,305	614	23.298	602	-17	-2.7%	
2007	1.8	0.176	10.8%	15,849	607	26.110	609	7	1.2%	
2008	1.8	0.017	0.9%	16,043	615	26.086	615	6	1.0%	
2009	1.9	0.101	5.5%	16,884	615	27.453	610	-5	-0.8%	
2010	1.6	-0.278	-14.4%	14,446	602	23.997	594	-16	-2.6%	
2011	1.7	0.018	1.1%	14,607	582	25.097	573	-21	-3.5%	
2012	1.7	0.059	3.5%	15,165	563	26.936	555	-18	-3.1%	
2013	1.7	0.010	0.6%	15,211	564	26.970	563	8	1.4%	
2014	2.0	0.228	13.1%	17,209	563	30.566	559	-4	-0.7%	
2015	1.9	-0.090	-4.6%	16,425	560	29.330	558	-1	-0.2%	
2016	1.8	-0.099	-5.3%	15,597	558	27.952	556	-2	-0.4%	
2017	1.6	-0.162	-9.1%	14,132	565	25.013	565	9	1.6%	
2018	1.8	0.186	11.5%	15,761	557	28.295	553	-12	-2.1%	
2019	1.6	-0.241	-13.4%	13,647	550	24.812	539	-14	-2.5%	
2020	1.9	0.301	19.3%	16,332	556	29.374	557	18	3.3%	
2021	1.9	0.061	3.3%	16,820	557	30.198	552	-5	-0.9%	
2022	1.7	-0.216	-11.2%	14,931	552	27.049	549	-3	-0.5%	
2023	1.8	0.063	3.7%	15,480	551	28.094	547	-2	-0.4%	
2024	1.8	0.037	2.1%	15,847	547	28.971	546	-1	-0.2%	
2025	1.7	-0.061	-3.4%	15,266	544	28.063	542	-4	-0.7%	
2026	1.8	0.013	0.8%	15,381	541	28.407	541	-1	-0.2%	0.000
2027	1.8	-0.003	-0.2%	15,352	540	28.405	540	-1	-0.2%	0.000
2028	1.7	-0.008	-0.4%	15,327	539	28.412	539	-1	-0.2%	0.000
2029	1.7	0.001	0.1%	15,296	538	28.407	538	-1	-0.2%	0.000
2030	1.7	-0.003	-0.2%	15,269	537	28.409	537	-1	-0.2%	0.000
2031	1.7	-0.003	-0.2%	15,240	536	28.409	536	-1	-0.2%	0.000
2032	1.7	-0.008	-0.4%	15,213	535	28.411	535	-1	-0.2%	0.000
2033	1.7	0.002	0.1%	15,185	534	28.412	534	-1	-0.2%	0.000
2034	1.7	-0.003	-0.2%	15,156	533	28.411	533	-1	-0.2%	0.000
2035	1.7	-0.003	-0.2%	15,128	532	28.411	532	-1	-0.2%	0.000
2036	1.7	-0.007	-0.4%	15,104	531	28.419	531	-1	-0.2%	0.000

5.7 Large Irrigation

See **Figure 5-7** and **Table 5-7** for the details of the Large Irrigation forecast.

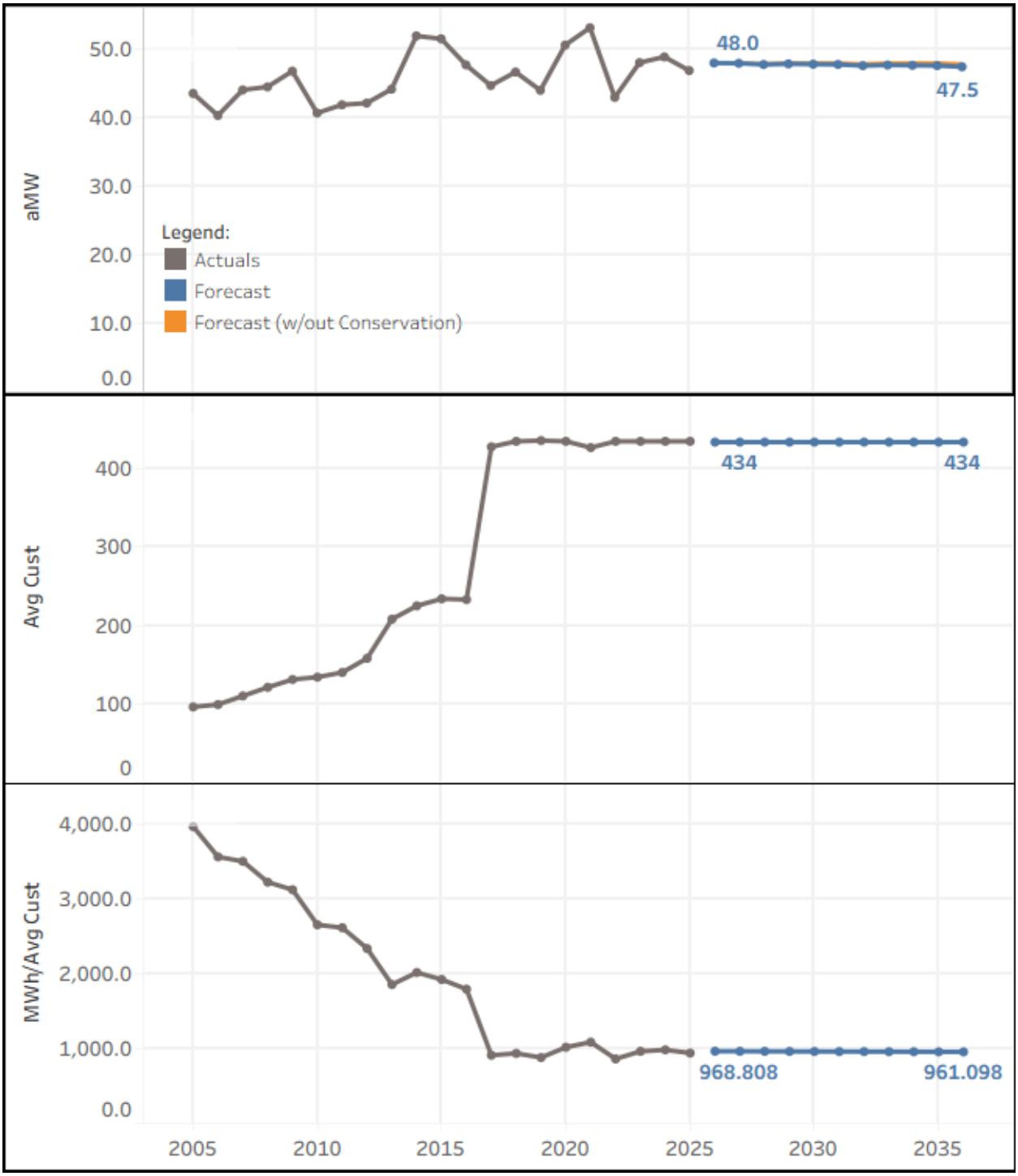


Figure 5-7 – Large Irrigation forecast of retail load, customers and usage per customer

Table 5-7 – Large Irrigation forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	43.6			381,927	96	3,978.407	96			
2006	40.4	-3.217	-7.4%	353,743	99	3,573.162	101	5	5.2%	
2007	44.1	3.728	9.2%	386,402	110	3,512.746	116	15	14.9%	
2008	44.6	0.447	1.0%	391,389	121	3,234.619	124	8	6.9%	
2009	46.8	2.291	5.1%	410,386	131	3,132.715	133	9	7.3%	
2010	40.7	-6.108	-13.0%	356,875	134	2,663.248	130	-3	-2.3%	
2011	41.9	1.201	2.9%	367,393	140	2,624.234	142	12	9.2%	
2012	42.2	0.248	0.6%	370,573	158	2,345.402	163	21	14.8%	
2013	44.2	2.037	4.8%	387,408	208	1,862.539	218	55	33.7%	
2014	52.0	7.766	17.6%	455,435	225	2,024.154	229	11	5.0%	
2015	51.6	-0.418	-0.8%	451,777	234	1,930.671	232	3	1.3%	
2016	47.8	-3.805	-7.4%	419,588	233	1,800.809	230	-2	-0.9%	
2017	44.7	-3.020	-6.3%	391,987	428	915.857	432	202	87.8%	
2018	46.7	1.973	4.4%	409,269	435	940.848	435	3	0.7%	
2019	44.1	-2.663	-5.7%	385,942	436	885.187	436	1	0.2%	
2020	50.7	6.594	15.0%	444,919	435	1,022.801	435	-1	-0.2%	
2021	53.2	2.538	5.0%	465,935	427	1,091.183	436	1	0.2%	
2022	43.0	-10.168	-19.1%	376,866	435	866.358	434	-2	-0.5%	
2023	48.1	5.075	11.8%	421,320	435	968.551	435	1	0.2%	
2024	48.9	0.834	1.7%	429,800	435	988.046	435	0	0.0%	
2025	46.9	-1.994	-4.1%	411,154	435	945.183	434	-1	-0.2%	
2026	48.0	1.109	2.4%	420,866	434	969.738	434	0	0.0%	0.047
2027	48.0	-0.046	-0.1%	420,463	434	968.808	434	0	0.0%	0.092
2028	47.8	-0.175	-0.4%	420,080	434	967.927	434	0	0.0%	0.136
2029	47.9	0.087	0.2%	419,693	434	967.034	434	0	0.0%	0.179
2030	47.9	-0.043	-0.1%	419,316	434	966.166	434	0	0.0%	0.222
2031	47.8	-0.043	-0.1%	418,943	434	965.306	434	0	0.0%	0.264
2032	47.7	-0.172	-0.4%	418,583	434	964.478	434	0	0.0%	0.305
2033	47.7	0.089	0.2%	418,222	434	963.646	434	0	0.0%	0.346
2034	47.7	-0.042	-0.1%	417,857	434	962.804	434	0	0.0%	0.388
2035	47.7	-0.042	-0.1%	417,485	434	961.947	434	0	0.0%	0.431
2036	47.5	-0.172	-0.4%	417,116	434	961.098	434	0	0.0%	0.472

5.8 Street Lighting

See **Figure 5-8** and **Table 5-8** for the details of the Street Lighting forecast.

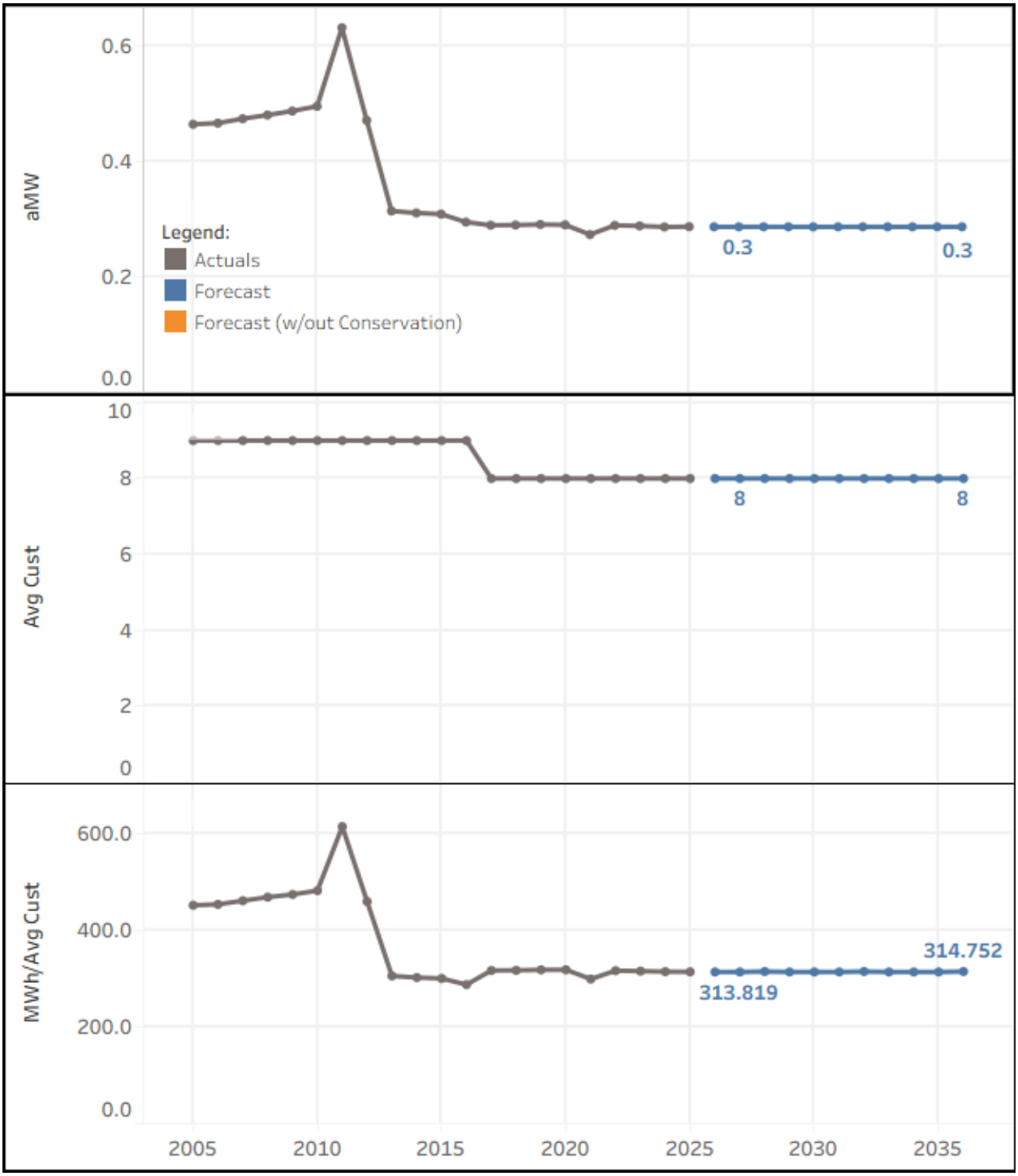


Figure 5-8 – Street Lighting forecast of retail load, customers and usage per customer

Table 5-8 – Street Lighting forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	0.5			4,067	9	451.882	9			
2006	0.5	0.002	0.4%	4,084	9	453.740	9	0	0.0%	
2007	0.5	0.008	1.7%	4,151	9	461.266	9	0	0.0%	
2008	0.5	0.006	1.3%	4,218	9	468.669	9	0	0.0%	
2009	0.5	0.007	1.5%	4,268	9	474.203	9	0	0.0%	
2010	0.5	0.008	1.7%	4,339	9	482.159	9	0	0.0%	
2011	0.6	0.136	27.5%	5,532	9	614.671	9	0	0.0%	
2012	0.5	-0.161	-25.4%	4,136	9	459.597	9	0	0.0%	
2013	0.3	-0.157	-33.3%	2,751	9	305.647	9	0	0.0%	
2014	0.3	-0.003	-1.1%	2,721	9	302.278	9	0	0.0%	
2015	0.3	-0.002	-0.6%	2,704	9	300.405	9	0	0.0%	
2016	0.3	-0.014	-4.5%	2,589	9	287.682	9	0	0.0%	
2017	0.3	-0.005	-1.8%	2,535	8	316.902	8	-1	-11.1%	
2018	0.3	0.000	0.1%	2,538	8	317.219	8	0	0.0%	
2019	0.3	0.001	0.3%	2,546	8	318.288	8	0	0.0%	
2020	0.3	-0.001	-0.2%	2,547	8	318.421	8	0	0.0%	
2021	0.3	-0.017	-5.8%	2,393	8	299.130	8	0	0.0%	
2022	0.3	0.016	5.8%	2,532	8	316.554	8	0	0.0%	
2023	0.3	-0.001	-0.3%	2,525	8	315.596	8	0	0.0%	
2024	0.3	-0.002	-0.6%	2,515	8	314.430	8	0	0.0%	
2025	0.3	0.001	0.2%	2,513	8	314.145	8	0	0.0%	
2026	0.3	0.000	-0.1%	2,511	8	313.819	8	0	0.0%	0.000
2027	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2028	0.3	0.000	0.0%	2,518	8	314.752	8	0	0.0%	0.000
2029	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2030	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2031	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2032	0.3	0.000	0.0%	2,518	8	314.752	8	0	0.0%	0.000
2033	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2034	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2035	0.3	0.000	0.0%	2,511	8	313.819	8	0	0.0%	0.000
2036	0.3	0.000	0.0%	2,518	8	314.752	8	0	0.0%	0.000

5.9 Security Lighting

See **Figure 5-9** and **Table 5-9** for details of the Security Lighting forecast.

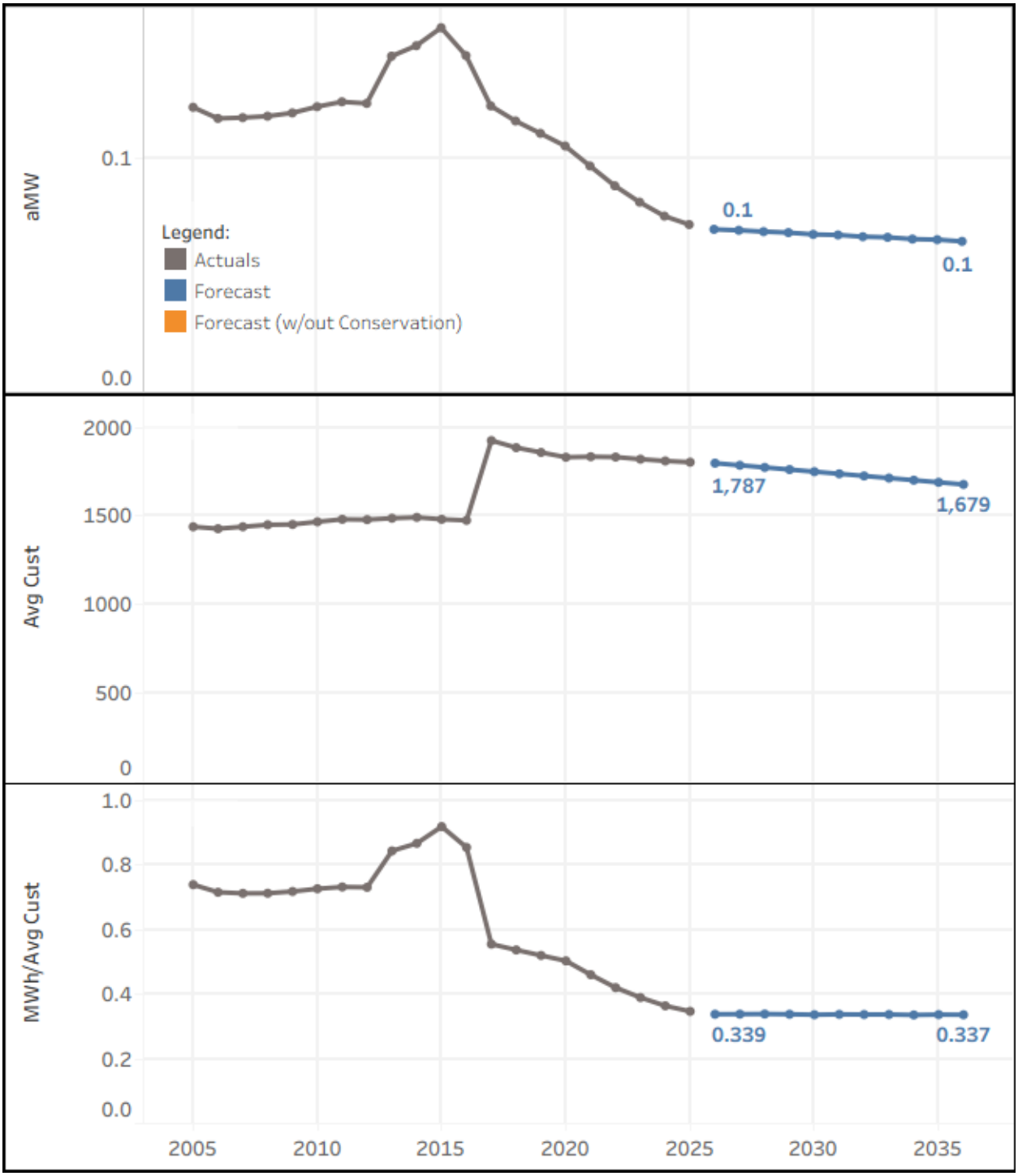


Figure 5-9 – Security Lighting forecast of retail load, customers and usage per customer

Table 5-9 – Security Lighting forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	0.1			1,066	1,440	0.741	1,435			
2006	0.1	-0.005	-3.9%	1,025	1,429	0.717	1,431	-4	-0.3%	
2007	0.1	0.000	0.3%	1,028	1,440	0.714	1,448	17	1.2%	
2008	0.1	0.001	0.5%	1,036	1,451	0.714	1,443	-5	-0.3%	
2009	0.1	0.001	1.2%	1,045	1,453	0.719	1,462	19	1.3%	
2010	0.1	0.003	2.2%	1,068	1,468	0.728	1,478	16	1.1%	
2011	0.1	0.002	1.7%	1,087	1,482	0.733	1,481	3	0.2%	
2012	0.1	-0.001	-0.6%	1,084	1,480	0.732	1,483	2	0.1%	
2013	0.1	0.020	16.3%	1,257	1,488	0.845	1,500	17	1.1%	
2014	0.1	0.004	3.1%	1,297	1,493	0.869	1,489	-11	-0.7%	
2015	0.2	0.008	5.2%	1,364	1,482	0.920	1,478	-11	-0.7%	
2016	0.1	-0.012	-7.6%	1,263	1,476	0.856	1,473	-5	-0.3%	
2017	0.1	-0.022	-15.0%	1,071	1,926	0.556	1,909	436	29.6%	
2018	0.1	-0.006	-5.3%	1,015	1,886	0.538	1,877	-32	-1.7%	
2019	0.1	-0.005	-4.6%	969	1,859	0.521	1,843	-34	-1.8%	
2020	0.1	-0.005	-4.9%	924	1,832	0.504	1,822	-21	-1.1%	
2021	0.1	-0.009	-8.1%	847	1,835	0.461	1,847	25	1.4%	
2022	0.1	-0.008	-8.8%	773	1,833	0.421	1,831	-16	-0.9%	
2023	0.1	-0.007	-7.9%	711	1,821	0.391	1,818	-13	-0.7%	
2024	0.1	-0.006	-7.3%	661	1,811	0.365	1,807	-11	-0.6%	
2025	0.1	-0.004	-4.8%	627	1,804	0.348	1,805	-2	-0.1%	
2026	0.1	-0.002	-2.8%	610	1,799	0.339	1,793	-12	-0.7%	0.000
2027	0.1	0.000	-0.6%	606	1,787	0.339	1,781	-12	-0.7%	0.000
2028	0.1	-0.001	-0.8%	603	1,775	0.340	1,769	-12	-0.7%	0.000
2029	0.1	0.000	-0.6%	597	1,763	0.339	1,757	-12	-0.7%	0.000
2030	0.1	-0.001	-1.1%	591	1,751	0.337	1,745	-12	-0.7%	0.000
2031	0.1	0.000	-0.4%	589	1,739	0.339	1,733	-12	-0.7%	0.000
2032	0.1	-0.001	-1.1%	584	1,727	0.338	1,721	-12	-0.7%	0.000
2033	0.1	0.000	-0.4%	580	1,715	0.338	1,709	-12	-0.7%	0.000
2034	0.1	-0.001	-1.1%	573	1,703	0.337	1,697	-12	-0.7%	0.000
2035	0.1	0.000	-0.4%	571	1,691	0.338	1,685	-12	-0.7%	0.000
2036	0.1	-0.001	-1.1%	566	1,679	0.337	1,673	-12	-0.7%	0.000

5.10 Unmetered Flats

See **Figure 5-10** and **Table 5-10** for details of the Unmetered Flats forecast.

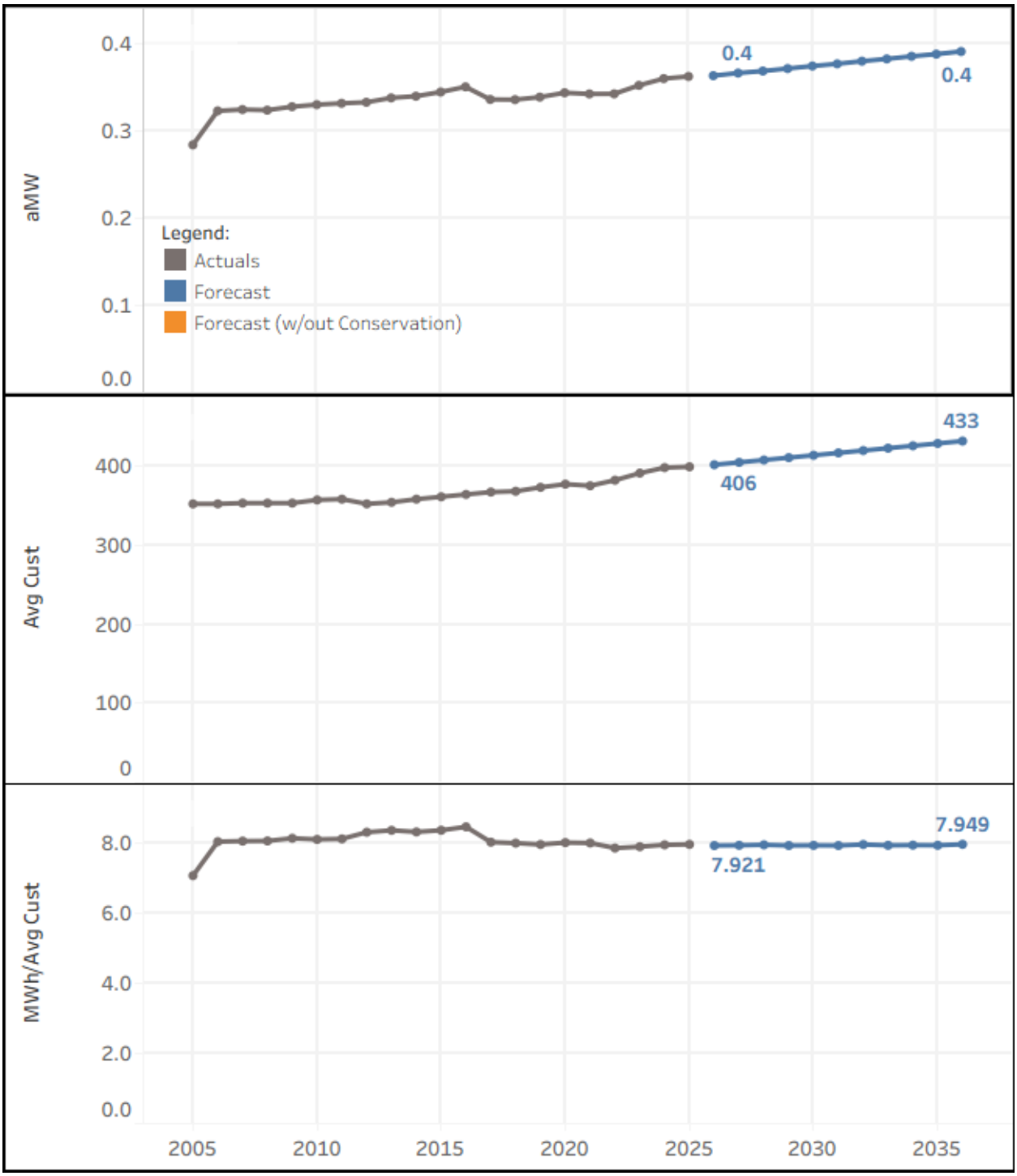


Figure 5-10 – Unmetered Flats forecast of retail load, customers and usage per customer

Table 5-10 – Unmetered Flats forecast of retail load, customers and usage per customer

Calendar Year	aMW	aMW Change	aMW Change %	MWh	Avg Cust Count	MWh / Avg Cust Count	Year-End Cust Count	Year-End Cust Count Change	Year-End Cust Count Change %	aMW EE
2005	0.3			2,492	353	7.059	352			
2006	0.3	0.039	13.7%	2,833	353	8.026	354	2	0.6%	
2007	0.3	0.002	0.5%	2,846	354	8.041	354	0	0.0%	
2008	0.3	-0.001	-0.2%	2,848	354	8.046	354	0	0.0%	
2009	0.3	0.004	1.2%	2,875	354	8.122	355	1	0.3%	
2010	0.3	0.002	0.7%	2,896	358	8.089	362	7	2.0%	
2011	0.3	0.002	0.5%	2,909	359	8.103	351	-11	-3.0%	
2012	0.3	0.001	0.4%	2,928	353	8.294	354	3	0.9%	
2013	0.3	0.005	1.5%	2,964	355	8.348	357	3	0.8%	
2014	0.3	0.002	0.6%	2,981	359	8.302	361	4	1.1%	
2015	0.3	0.005	1.4%	3,023	362	8.350	364	3	0.8%	
2016	0.4	0.006	1.7%	3,083	365	8.447	366	2	0.5%	
2017	0.3	-0.014	-4.1%	2,948	368	8.011	367	1	0.3%	
2018	0.3	0.000	-0.1%	2,946	369	7.984	370	3	0.8%	
2019	0.3	0.003	0.9%	2,971	374	7.944	377	7	1.9%	
2020	0.3	0.005	1.5%	3,023	378	7.998	381	4	1.1%	
2021	0.3	-0.001	-0.4%	3,003	376	7.987	382	1	0.3%	
2022	0.3	0.000	0.0%	3,004	383	7.843	386	4	1.0%	
2023	0.4	0.010	2.9%	3,090	392	7.882	396	10	2.6%	
2024	0.4	0.008	2.2%	3,166	399	7.935	400	4	1.0%	
2025	0.4	0.002	0.7%	3,179	400	7.947	401	1	0.3%	
2026	0.4	0.001	0.2%	3,187	403	7.915	404	3	0.7%	0.000
2027	0.4	0.003	0.8%	3,213	406	7.921	407	3	0.7%	0.000
2028	0.4	0.002	0.6%	3,242	409	7.935	410	3	0.7%	0.000
2029	0.4	0.003	0.8%	3,258	412	7.915	413	3	0.7%	0.000
2030	0.4	0.003	0.8%	3,284	415	7.920	416	3	0.7%	0.000
2031	0.4	0.002	0.7%	3,306	418	7.915	419	3	0.7%	0.000
2032	0.4	0.003	0.8%	3,342	421	7.945	422	3	0.7%	0.000
2033	0.4	0.003	0.7%	3,355	424	7.920	425	3	0.7%	0.000
2034	0.4	0.003	0.8%	3,381	427	7.926	428	3	0.7%	0.000
2035	0.4	0.002	0.6%	3,403	430	7.922	431	3	0.7%	0.000
2036	0.4	0.003	0.8%	3,439	433	7.949	434	3	0.7%	0.000

6. Appendix A – Summary Tables

Table 6-1 – Total system historical and forecast of annual load, losses and peak demand

Calendar Year	BPUD Retail Sales (aMW)			+ BPUD T&D[1] Losses (aMW)	(%)	= BPA Wholesale Load (aMW)			BPA Peak Demand (MW)		
2005	182.9			4.54	2.42%	187.5			366.5		
2006	177.6			5.34	2.92%	182.9			373.3		
2007	183.5			6.71	3.53%	190.2			384.3		
2008	186.7			7.29	3.76%	194.0			396.9		
2009	197.1			6.25	3.07%	203.3			402.1		
2010	181.8			7.03	3.72%	188.9			392.1		
2011	188.2			6.16	3.17%	194.3			379.5		
2012	187.3			5.84	3.02%	193.1			394.0		
2013	193.7			8.75	4.32%	202.4			414.5		
2014	203.3			5.07	2.43%	208.4			430.5		
2015	198.4			7.47	3.63%	205.9			429.5		
2016	192.9			7.43	3.71%	200.3			425.1		
2017	203.8			7.13	3.38%	210.9			426.0		
2018	198.8			5.83	2.85%	204.7			419.0		
2019	201.7			7.40	3.54%	209.1			407.7		
2020	198.1			7.26	3.53%	205.3			437.0		
2021	206.4			8.29	3.86%	214.7			489.6		
2022	206.3			6.33	2.98%	212.6			444.9		
2023	209.9			5.71	2.65%	215.6			438.4		
2024	205.8			6.46	3.04%	212.2			437.6		
2025	203.0			7.33	3.49%	210.3			453.1		
Forecast	**Low**	**Base**	**High**	**aMW**	**%**	**Low**	**Base**	**High**	**Low**	**Base**	**High**
2026	194.4	204.7	214.9	6.22	3.04%	200.4	210.9	221.4	412.2	433.9	455.6
2027	195.4	205.7	216.0	6.25	3.04%	201.4	212.0	222.6	413.6	435.4	457.2
2028	196.2	206.5	216.8	6.28	3.04%	202.2	212.8	223.4	415.5	437.4	459.2
2029	196.8	207.1	217.5	6.30	3.04%	202.8	213.4	224.1	414.4	436.3	458.1
2030	197.3	207.6	218.0	6.31	3.04%	203.3	214.0	224.7	414.0	435.8	457.5
2031	197.6	208.0	218.4	6.32	3.04%	203.6	214.3	225.0	412.7	434.5	456.2
2032	197.9	208.3	218.7	6.33	3.04%	203.9	214.6	225.4	412.5	434.2	455.9
2033	198.1	208.5	218.9	6.34	3.04%	204.1	214.9	225.6	409.6	431.2	452.7
2034	198.3	208.8	219.2	6.35	3.04%	204.4	215.1	225.9	407.9	429.4	450.8
2035	198.5	209.0	219.4	6.35	3.04%	204.5	215.3	226.1	406.0	427.3	448.7
2036	198.7	209.1	219.6	6.36	3.04%	204.7	215.5	226.2	405.0	426.4	447.7

1) BPUD T&D = Benton PUD Transmission & Distribution; Forecast loss factor is equal to the 4-year historical average.

Table 6-2 – Historical & BASE case forecast of annual retail load (aMW) by customer class

Calendar Year	Residential	Small General	Medium General	Large General	Large Industrial	Small Irrigation	Large Irrigation	Street Lights	Security Lights	Unmetered Flats	Total System	Annual % Change
2005	71.077	13.095	18.726	27.689	6.083	1.795	43.599	0.464	0.122	0.284	182.935	0.62%
2006	72.170	12.866	18.315	27.044	4.276	1.633	40.382	0.466	0.117	0.323	177.592	-2.92%
2007	73.561	13.133	18.857	25.493	5.599	1.809	44.110	0.474	0.117	0.325	183.478	3.31%
2008	75.867	13.162	19.305	25.610	5.437	1.826	44.557	0.480	0.118	0.324	186.687	1.75%
2009	82.388	13.879	20.007	26.645	4.442	1.927	46.848	0.487	0.119	0.328	197.071	5.56%
2010	74.746	12.955	19.505	24.964	6.320	1.649	40.739	0.495	0.122	0.331	181.827	-7.74%
2011	78.533	13.509	20.030	23.935	7.467	1.667	41.940	0.632	0.124	0.332	188.169	3.49%
2012	76.049	13.595	20.036	24.747	8.035	1.726	42.187	0.471	0.123	0.333	187.304	-0.46%
2013	79.667	14.033	20.234	25.036	7.968	1.736	44.225	0.314	0.144	0.338	193.696	3.41%
2014	79.544	14.188	20.781	25.877	8.204	1.964	51.990	0.311	0.148	0.340	203.347	4.98%
2015	75.971	13.870	20.846	25.819	7.642	1.875	51.573	0.309	0.156	0.345	198.404	-2.43%
2016	75.335	13.874	20.545	25.418	7.356	1.776	47.767	0.295	0.144	0.351	192.860	-2.79%
2017	86.644	16.045	24.699	21.596	7.660	1.613	44.747	0.289	0.122	0.337	203.752	5.65%
2018	79.660	15.816	24.963	21.600	7.534	1.799	46.720	0.290	0.116	0.336	198.835	-2.41%
2019	85.762	16.415	25.558	20.254	7.342	1.558	44.057	0.291	0.111	0.339	201.686	1.43%
2020	80.207	14.987	23.608	18.796	7.243	1.859	50.651	0.290	0.105	0.344	198.091	-1.78%
2021	81.273	15.862	24.942	21.057	7.430	1.920	53.189	0.273	0.097	0.343	206.385	4.19%
2022	89.169	16.595	25.471	22.193	7.401	1.704	43.021	0.289	0.088	0.343	206.274	-0.05%
2023	87.119	16.528	24.660	23.803	7.221	1.767	48.096	0.288	0.081	0.353	209.915	1.76%
2024	83.384	16.080	24.081	23.435	7.337	1.804	48.930	0.286	0.075	0.360	205.772	-1.97%
2025	83.183	15.607	24.341	23.084	7.359	1.743	46.935	0.287	0.072	0.363	202.973	-1.36%
2026	84.783	16.073	24.507	21.458	7.332	1.756	48.044	0.287	0.070	0.364	204.673	0.84%
2027	85.651	16.193	24.410	21.674	7.332	1.752	47.998	0.287	0.069	0.367	205.733	0.52%
2028	86.600	16.320	24.402	21.566	7.332	1.745	47.823	0.287	0.069	0.369	206.513	0.38%
2029	87.227	16.421	24.318	21.445	7.332	1.746	47.910	0.287	0.068	0.372	207.126	0.30%
2030	87.865	16.525	24.272	21.314	7.332	1.743	47.867	0.287	0.067	0.375	207.647	0.25%
2031	88.382	16.624	24.170	21.175	7.332	1.740	47.825	0.287	0.067	0.377	207.978	0.16%
2032	88.970	16.731	24.113	21.030	7.332	1.732	47.653	0.287	0.066	0.380	208.294	0.15%
2033	89.285	16.817	23.990	20.879	7.332	1.733	47.742	0.287	0.066	0.383	208.515	0.11%
2034	89.722	16.912	23.915	20.724	7.332	1.730	47.701	0.287	0.065	0.386	208.775	0.12%
2035	90.144	17.007	23.789	20.566	7.332	1.727	47.658	0.287	0.065	0.389	208.963	0.09%
2036	90.688	17.114	23.626	20.407	7.332	1.719	47.486	0.287	0.064	0.392	209.115	0.07%
AARG %[1] 2026-2031	0.83%	0.68%	-0.28%	-0.27%	0.00%	-0.18%	-0.09%	0.00%	-0.70%	0.74%	0.32%	
AARG %[1] 2026-2036	0.68%	0.63%	-0.37%	-0.50%	0.00%	-0.21%	-0.12%	0.00%	-0.76%	0.74%	0.21%	

1) AARG % = Annual Average Rate of Growth Percentage

Table 6-3 – Total System Historical BASE case forecast of MONTHLY and annual retail load (aMW)

Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2005	188.8	165.8	163.5	168.1	177.3	229.3	255.6	251.2	170.2	124.0	134.7	164.2	182.9
2006	167.3	162.9	155.4	151.7	177.2	221.6	250.4	233.4	171.8	131.1	135.0	171.0	177.6
2007	182.2	185.4	148.3	155.5	187.7	235.0	254.1	236.0	187.5	127.6	143.7	158.6	183.5
2008	176.4	188.5	147.5	182.2	191.7	228.2	262.4	234.6	177.5	149.1	127.3	174.0	186.7
2009	201.8	185.2	161.9	172.6	209.5	258.3	267.4	250.3	187.6	144.4	142.3	181.6	197.1
2010	191.9	157.1	150.6	180.6	175.6	204.6	253.5	250.5	167.1	133.4	129.5	183.6	181.8
2011	186.4	180.8	156.1	173.6	174.5	221.0	247.3	253.8	209.0	136.1	136.1	182.3	188.2
2012	190.0	188.1	145.8	165.4	205.4	207.7	245.0	258.7	197.4	141.2	146.8	155.2	187.3
2013	185.8	187.3	150.1	167.3	206.6	234.1	274.0	249.5	186.1	148.6	148.8	184.3	193.7
2014	194.0	207.4	161.0	184.7	210.4	265.2	283.5	255.1	199.3	161.9	145.4	172.1	203.3
2015	178.8	178.2	148.2	181.5	201.0	288.8	296.2	248.9	197.7	154.4	136.6	168.9	198.4
2016	191.6	175.0	145.0	193.5	205.2	257.1	258.1	249.9	190.4	143.8	135.2	168.4	192.9
2017	228.0	221.2	168.5	161.9	191.3	266.4	288.8	262.4	193.4	148.2	147.3	167.8	203.8
2018	194.7	178.4	163.3	170.5	210.0	260.8	285.2	263.1	191.2	146.1	148.9	171.2	198.8
2019	178.0	216.0	192.4	168.7	193.8	271.3	259.8	257.1	195.8	151.1	160.3	176.9	201.7
2020	179.0	181.0	163.9	194.4	188.2	242.9	274.7	277.5	202.0	152.4	149.4	170.5	198.1
2021	179.5	195.7	169.2	197.3	227.2	283.7	313.9	260.5	195.1	153.7	145.7	154.0	206.4
2022	214.6	202.6	164.1	164.9	166.0	206.6	275.7	298.3	231.6	161.2	178.9	209.1	206.3
2023	213.3	206.5	172.4	171.9	218.9	287.4	309.9	261.3	192.1	147.2	158.0	178.8	209.9
2024	209.2	204.8	163.4	174.9	197.7	261.2	292.3	276.1	203.4	160.9	148.8	175.5	205.8
2025	185.2	229.7	151.7	162.0	199.6	281.4	292.4	270.4	210.2	155.0	145.4	154.8	203.0
20-Year Min.	167.3	157.1	145.0	151.7	166.0	204.6	245.0	233.4	167.1	124.0	127.3	154.0	177.6
20-Year Avg.	191.3	190.4	159.2	173.5	195.9	248.2	273.3	257.1	193.2	146.3	145.0	172.5	195.6
20-Year Max	228.0	229.7	192.4	197.3	227.2	288.8	313.9	298.3	231.6	161.9	178.9	209.1	209.9
2026	198.1	206.6	157.2	167.1	202.9	270.0	293.0	270.4	203.0	153.8	155.7	177.8	204.7
2027	200.2	208.7	158.7	168.4	203.7	270.6	293.8	271.3	203.7	154.2	156.3	178.8	205.7
2028	201.5	210.0	159.3	168.9	204.0	271.0	294.4	272.2	204.5	154.7	157.1	179.9	206.5
2029	202.9	211.4	160.0	169.3	204.3	271.4	295.0	272.8	205.0	154.8	157.6	180.7	207.1
2030	203.9	212.5	160.5	169.6	204.4	271.6	295.3	273.4	205.5	155.1	158.1	181.5	207.6
2031	205.1	213.7	160.9	169.7	204.3	271.6	295.6	273.8	205.7	154.9	158.2	182.0	208.0
2032	205.9	214.5	161.1	169.7	204.2	271.6	295.7	274.2	206.0	155.0	158.5	182.7	208.3
2033	206.8	215.5	161.4	169.7	203.9	271.5	295.8	274.5	206.1	154.7	158.6	183.2	208.5
2034	207.6	216.4	161.5	169.7	203.8	271.4	296.0	274.8	206.4	154.7	158.9	183.9	208.8
2035	208.5	217.4	161.8	169.7	203.5	271.3	296.0	275.1	206.5	154.4	159.0	184.3	209.0
2036	209.3	218.1	161.9	169.6	203.2	271.1	296.1	275.3	206.5	154.1	159.0	184.8	209.1

Table 6-4 – 2026 BASE case forecast of MONTHLY and annual retail load (aMW) by customer class

Revenue Class	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2027
RES	127.1	130.7	85.4	70.4	58.2	66.6	80.1	89.0	77.4	56.0	81.1	108.7	85.7
SGS	18.2	19.5	14.3	14.0	13.6	15.7	17.3	19.1	17.7	13.8	14.9	16.4	16.2
MGS	25.3	27.2	21.4	21.5	21.2	24.0	24.8	26.9	27.0	24.9	24.8	24.3	24.4
LGS	18.8	20.8	17.5	18.5	17.1	18.4	18.9	21.6	22.1	22.2	21.3	19.0	19.7
LGS-EIL	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
LIND	7.7	7.4	7.4	7.5	7.6	7.4	7.4	7.6	6.7	6.5	7.8	7.2	7.3
SIRR	0.1	0.1	0.2	1.1	2.6	3.6	4.2	4.0	3.0	1.5	0.2	0.1	1.8
LIRR	0.3	0.3	9.7	32.7	80.6	132.0	138.5	100.4	47.2	26.6	3.5	0.3	48.0
SECL	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
STRL	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
UNM	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
TOTAL	200.2	208.7	158.7	168.4	203.7	270.6	293.8	271.3	203.7	154.2	156.3	178.8	205.7

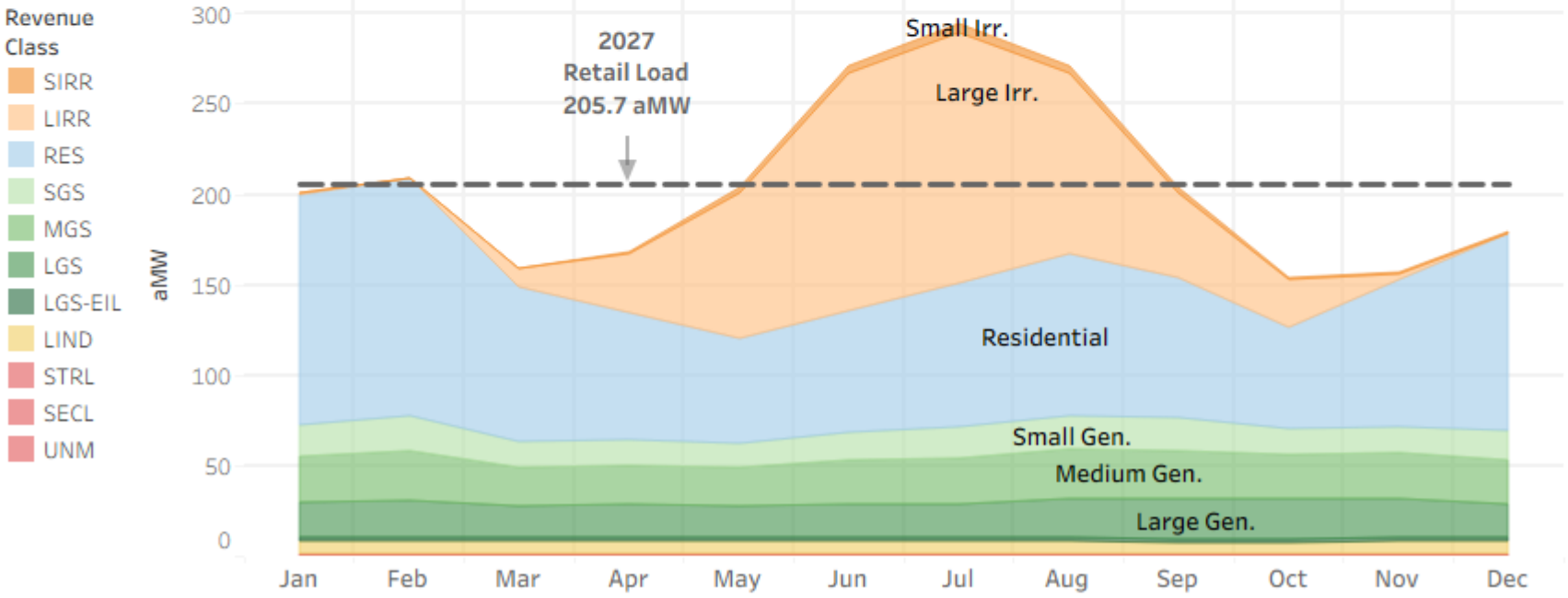


Table 6-5 – Historical and forecast of annual average number of customers by customer class

Calendar Year	Residential	Small General	Medium General	Large General	Large Industrial	Small Irrigation	Large Irrigation	Street Lights	Security Lights	Unmetered Flats	Total System	Annual % Change
2005	36,963	4,144	637	122	3	622	96	9	1,440	353	44,389	#N/A
2006	37,418	4,169	636	126	3	614	99	9	1,429	353	44,856	1.05%
2007	37,969	4,295	654	128	3	607	110	9	1,440	354	45,569	1.59%
2008	38,855	4,385	676	131	3	615	121	9	1,451	354	46,600	2.26%
2009	39,220	4,460	695	134	3	615	131	9	1,453	354	47,074	1.02%
2010	39,687	4,503	718	135	3	602	134	9	1,468	358	47,617	1.15%
2011	40,201	4,553	732	136	3	582	140	9	1,482	359	48,197	1.22%
2012	40,645	4,610	747	142	3	563	158	9	1,480	353	48,710	1.06%
2013	41,321	4,682	746	144	3	564	208	9	1,488	355	49,520	1.66%
2014	41,758	4,741	754	148	3	563	225	9	1,493	359	50,053	1.08%
2015	42,375	4,828	758	151	3	560	234	9	1,482	362	50,762	1.42%
2016	43,157	4,915	768	157	5	558	233	9	1,476	365	51,643	1.74%
2017	43,895	5,121	713	101	5	565	428	8	1,926	368	53,130	2.88%
2018	44,578	5,184	706	89	5	557	435	8	1,886	369	53,817	1.29%
2019	45,348	5,267	709	88	5	550	436	8	1,859	374	54,644	1.54%
2020	46,053	5,340	703	88	5	556	435	8	1,832	378	55,398	1.38%
2021	46,763	5,384	703	91	5	557	427	8	1,835	376	56,149	1.36%
2022	47,320	5,444	685	88	5	552	435	8	1,833	383	56,753	1.08%
2023	47,866	5,517	674	88	5	551	435	8	1,821	392	57,357	1.06%
2024	48,332	5,607	678	89	5	547	435	8	1,811	399	57,911	0.97%
2025	49,089	5,696	689	88	5	544	435	8	1,804	400	58,758	1.46%
2026	49,708	5,764	694	91	5	541	434	8	1,799	403	59,446	1.17%
2027	50,308	5,836	695	92	5	540	434	8	1,787	406	60,110	1.12%
2028	50,908	5,908	696	92	5	539	434	8	1,775	409	60,774	1.10%
2029	51,508	5,980	698	92	5	538	434	8	1,763	412	61,437	1.09%
2030	52,108	6,052	699	92	5	537	434	8	1,751	415	62,101	1.08%
2031	52,708	6,124	701	92	5	536	434	8	1,739	418	62,764	1.07%
2032	53,308	6,196	702	92	5	535	434	8	1,727	421	63,428	1.06%
2033	53,908	6,268	704	92	5	534	434	8	1,715	424	64,091	1.05%
2034	54,508	6,340	705	92	5	533	434	8	1,703	427	64,755	1.04%
2035	55,108	6,412	707	92	5	532	434	8	1,691	430	65,418	1.02%
2036	55,708	6,484	708	92	5	531	434	8	1,679	433	66,081	1.01%
AARG %[1] 2026-2031	1.18%	1.22%	0.20%	0.29%	0.00%	-0.19%	0.00%	0.00%	-0.68%	0.73%	1.09%	
AARG %[1] 2026-2036	1.15%	1.18%	0.20%	0.15%	0.00%	-0.19%	0.00%	0.00%	-0.69%	0.72%	1.06%	

1) AARG % = Annual Average Rate of Growth Percentage

Table 6-6 – Historical and BASE case forecast of annual usage per customer (kWh) by customer class

Calendar Year	Residential	Small General	Medium General	Large General	Large Industrial	Small Irrigation	Large Irrigation	Street Lights	Security Lights	Unmetered Flats	Total System	Annual % Change
2005	16,845	27,681	257,524	1,988,160	17,761,932	25,280	3,978,407	451,882	741	7,059	36,101	#N/A
2006	16,896	27,034	252,263	1,880,220	12,485,305	23,298	3,573,162	453,740	717	8,026	34,682	-3.93%
2007	16,972	26,787	252,577	1,744,660	16,348,383	26,110	3,512,746	461,266	714	8,041	35,271	1.70%
2008	17,151	26,366	250,845	1,717,234	15,920,098	26,086	3,234,619	468,669	714	8,046	35,190	-0.23%
2009	18,402	27,260	252,179	1,741,869	12,969,692	27,453	3,132,715	474,203	719	8,122	36,673	4.21%
2010	16,498	25,202	237,977	1,619,899	18,454,887	23,997	2,663,248	482,159	728	8,089	33,450	-8.79%
2011	17,113	25,991	239,704	1,541,682	21,803,603	25,097	2,624,234	614,671	733	8,103	34,201	2.24%
2012	16,435	25,905	235,607	1,530,826	23,525,055	26,936	2,345,402	459,597	732	8,294	33,777	-1.24%
2013	16,889	26,255	237,601	1,523,024	23,267,593	26,970	1,862,539	305,647	845	8,348	34,264	1.44%
2014	16,687	26,215	241,437	1,531,617	23,956,495	30,566	2,024,154	302,278	869	8,302	35,589	3.86%
2015	15,705	25,165	240,911	1,497,847	22,313,962	29,330	1,930,671	300,405	920	8,350	34,239	-3.79%
2016	15,333	24,795	234,983	1,422,089	12,922,450	27,952	1,800,809	287,682	856	8,447	32,804	-4.19%
2017	17,291	27,447	303,456	1,873,052	13,420,262	25,013	915,857	316,902	556	8,011	33,594	2.41%
2018	15,654	26,727	309,740	2,126,053	13,199,344	28,295	940,848	317,219	538	7,984	32,365	-3.66%
2019	16,567	27,301	315,786	2,016,155	12,863,616	24,812	885,187	318,288	521	7,944	32,332	-0.10%
2020	15,298	24,653	294,985	1,876,188	12,725,056	29,374	1,022,801	318,421	504	7,998	31,410	-2.85%
2021	15,225	25,808	310,801	2,027,005	13,016,760	30,198	1,091,183	299,130	461	7,987	32,199	2.51%
2022	16,507	26,703	325,729	2,209,181	12,967,032	27,049	866,358	316,554	421	7,843	31,839	-1.12%
2023	15,944	26,243	320,501	2,369,494	12,650,440	28,094	968,551	315,596	391	7,882	32,060	0.69%
2024	15,154	25,191	311,988	2,312,953	12,888,960	28,971	988,046	314,430	365	7,935	31,212	-2.65%
2025	14,844	24,003	309,467	2,297,917	12,892,624	28,063	945,183	314,145	348	7,947	30,260	-3.05%
2026	14,941	24,428	309,544	2,073,242	12,845,944	28,407	969,738	313,819	339	7,915	30,161	-0.33%
2027	14,914	24,306	307,878	2,069,324	12,845,944	28,405	968,808	313,819	339	7,921	29,982	-0.59%
2028	14,943	24,264	307,877	2,059,088	12,881,445	28,412	967,927	314,752	340	7,935	29,849	-0.45%
2029	14,835	24,055	305,389	2,041,963	12,845,944	28,407	967,034	313,819	339	7,915	29,533	-1.06%
2030	14,771	23,918	304,092	2,029,456	12,845,944	28,409	966,166	313,819	337	7,920	29,291	-0.82%
2031	14,689	23,780	302,236	2,016,188	12,845,944	28,409	965,306	313,819	339	7,915	29,028	-0.90%
2032	14,660	23,719	301,630	2,007,876	12,881,445	28,411	964,478	314,752	338	7,945	28,846	-0.62%
2033	14,509	23,503	298,711	1,988,017	12,845,944	28,412	963,646	313,819	338	7,920	28,500	-1.20%
2034	14,419	23,368	297,074	1,973,313	12,845,944	28,411	962,804	313,819	337	7,926	28,243	-0.90%
2035	14,329	23,235	294,943	1,958,204	12,845,944	28,411	961,947	313,819	338	7,922	27,982	-0.92%
2036	14,300	23,184	293,308	1,948,399	12,881,445	28,419	961,098	314,752	337	7,949	27,797	-0.66%
AARG %[1] 2026-2031	-0.34%	-0.54%	-0.48%	-0.56%	0.00%	0.00%	-0.09%	0.00%	-0.02%	0.00%	-0.76%	
AARG %[1] 2026-2036	-0.44%	-0.52%	-0.54%	-0.62%	0.03%	0.00%	-0.09%	0.03%	-0.05%	0.04%	-0.81%	

1) AARG % = Annual Average Rate of Growth Percentage

Table 6-7 – Historical and forecast annual year-end number of customers by customer class

Calendar Year	Residential	Small General	Medium General	Large General	Large Industrial	Small Irrigation	Large Irrigation	Street Lights	Security Lights	Unmetered Flats	Total System	Annual % Change
2005	37,236	4,128	627	123	3	619	96	9	1,435	352	44,628	#N/A
2006	37,802	4,232	641	127	3	602	101	9	1,431	354	45,302	1.51%
2007	38,285	4,324	665	131	3	609	116	9	1,448	354	45,944	1.42%
2008	39,095	4,445	683	132	3	615	124	9	1,443	354	46,903	2.09%
2009	39,430	4,484	707	135	3	610	133	9	1,462	355	47,328	0.91%
2010	39,973	4,528	725	135	3	594	130	9	1,478	362	47,937	1.29%
2011	40,432	4,576	747	141	3	573	142	9	1,481	351	48,455	1.08%
2012	40,955	4,652	742	143	3	555	163	9	1,483	354	49,059	1.25%
2013	41,561	4,709	750	146	3	563	218	9	1,500	357	49,816	1.54%
2014	42,039	4,784	758	151	3	559	229	9	1,489	361	50,382	1.14%
2015	42,724	4,883	762	153	3	558	232	9	1,478	364	51,166	1.56%
2016	43,574	4,949	775	160	5	556	230	9	1,473	366	52,097	1.82%
2017	44,244	5,191	701	88	5	565	432	8	1,909	367	53,510	2.71%
2018	44,967	5,189	710	90	5	553	435	8	1,877	370	54,204	1.30%
2019	45,717	5,302	704	86	5	539	436	8	1,843	377	55,017	1.50%
2020	46,420	5,374	708	92	5	557	435	8	1,822	381	55,802	1.43%
2021	47,033	5,410	695	88	5	552	436	8	1,847	382	56,456	1.17%
2022	47,573	5,454	679	88	5	549	434	8	1,831	386	57,007	0.98%
2023	48,133	5,565	678	89	5	547	435	8	1,818	396	57,674	1.17%
2024	48,576	5,641	684	87	5	546	435	8	1,807	400	58,189	0.89%
2025	49,383	5,725	693	90	5	542	434	8	1,805	401	59,086	1.54%
2026	49,983	5,797	694	91	5	541	434	8	1,793	404	59,750	1.12%
2027	50,583	5,869	695	92	5	540	434	8	1,781	407	60,414	1.11%
2028	51,183	5,941	697	92	5	539	434	8	1,769	410	61,078	1.10%
2029	51,783	6,013	698	92	5	538	434	8	1,757	413	61,741	1.09%
2030	52,383	6,085	700	92	5	537	434	8	1,745	416	62,405	1.08%
2031	52,983	6,157	701	92	5	536	434	8	1,733	419	63,068	1.06%
2032	53,583	6,229	703	92	5	535	434	8	1,721	422	63,732	1.05%
2033	54,183	6,301	704	92	5	534	434	8	1,709	425	64,395	1.04%
2034	54,783	6,373	706	92	5	533	434	8	1,697	428	65,059	1.03%
2035	55,383	6,445	707	92	5	532	434	8	1,685	431	65,722	1.02%
2036	55,983	6,517	708	92	5	531	434	8	1,673	434	66,385	1.01%
AARG %[1] 2026-2031	1.17%	1.21%	0.20%	0.22%	0.00%	-0.19%	0.00%	0.00%	-0.68%	0.73%	1.09%	
AARG %[1] 2026-2036	1.14%	1.18%	0.20%	0.11%	0.00%	-0.19%	0.00%	0.00%	-0.69%	0.72%	1.06%	

1) AARG % = Annual Average Rate of Growth Percentage

Table 6-8 – Historical and forecast annual change in number of customers by customer class

Calendar Year	Residential	Small General	Medium General	Large General	Large Industrial	Small Irrigation	Large Irrigation	Street Lights	Security Lights	Unmetered Flats	Total System	Annual % Change
2005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
2006	566	104	14	4	0	(17)	5	0	(4)	2	674	#N/A
2007	483	92	24	4	0	7	15	0	17	0	642	-4.75%
2008	810	121	18	1	0	6	8	0	(5)	0	959	49.38%
2009	335	39	24	3	0	(5)	9	0	19	1	425	-55.68%
2010	543	44	18	0	0	(16)	(3)	0	16	7	609	43.29%
2011	459	48	22	6	0	(21)	12	0	3	(11)	518	-14.94%
2012	523	76	(5)	2	0	(18)	21	0	2	3	604	16.60%
2013	606	57	8	3	0	8	55	0	17	3	757	25.33%
2014	478	75	8	5	0	(4)	11	0	(11)	4	566	-25.23%
2015	685	99	4	2	0	(1)	3	0	(11)	3	784	38.52%
2016	850	66	13	7	2	(2)	(2)	0	(5)	2	931	18.75%
2017	670	242	(74)	(72)	0	9	202	(1)	436	1	1,413	51.77%
2018	723	(2)	9	2	0	(12)	3	0	(32)	3	694	-50.88%
2019	750	113	(6)	(4)	0	(14)	1	0	(34)	7	813	17.15%
2020	703	72	4	6	0	18	(1)	0	(21)	4	785	-3.44%
2021	613	36	(13)	(4)	0	(5)	1	0	25	1	654	-16.69%
2022	540	44	(16)	0	0	(3)	(2)	0	(16)	4	551	-15.75%
2023	560	111	(1)	1	0	(2)	1	0	(13)	10	667	21.05%
2024	443	76	6	(2)	0	(1)	0	0	(11)	4	515	-22.79%
2025	807	84	9	3	0	(4)	(1)	0	(2)	1	897	74.17%
2026	600	72	1	1	0	(1)	0	0	(12)	3	664	-25.98%
2027	600	72	1	1	0	(1)	0	0	(12)	3	664	0.00%
2028	600	72	2	0	0	(1)	0	0	(12)	3	664	0.00%
2029	600	72	1	0	0	(1)	0	0	(12)	3	663	-0.15%
2030	600	72	2	0	0	(1)	0	0	(12)	3	664	0.15%
2031	600	72	1	0	0	(1)	0	0	(12)	3	663	-0.15%
2032	600	72	2	0	0	(1)	0	0	(12)	3	664	0.15%
2033	600	72	1	0	0	(1)	0	0	(12)	3	663	-0.15%
2034	600	72	2	0	0	(1)	0	0	(12)	3	664	0.15%
2035	600	72	1	0	0	(1)	0	0	(12)	3	663	-0.15%
2036	600	72	1	0	0	(1)	0	0	(12)	3	663	0.00%