

GRAND HAVEN BOARD OF LIGHT AND POWER MEETING AGENDA

Monday, April 28, 2025

Meeting to be held at 1700 Eaton Drive

6:00 PM

1. Call to Order / Roll Call / Excuse Absent Members
2. Approve Meeting Agenda (1) *
3. Pledge of Allegiance
4. Public Comment Period
5. Consent Agenda (1)
 - A. Approve Minutes
 1. March 20, 2025 Regular Meeting Minutes*
 - B. Receive and File: March Financial Statements, Power Supply & Retail Sales Dashboards *
 - C. Receive and File: March Key Performance Indicators (KPI) Dashboard *
 - D. Receive and File: MPPA ESP Resource Position Report (dated 3/27/2025) *
 - E. Approve Payment of Bills (\$2,460,652.52 in total)
 1. In the amount of \$2,261,229.81 from the Operation & Maintenance Fund
 2. In the amount of \$199,422.71 from the Renewal & Replacement Fund
 - F. Approve Confirming Purchase Orders (\$126,787 in total)
 1. PO #23376, Koppers, \$16,920 (Distribution Wood Poles for BLP Stock)
 2. PO #23379, Power Line Supply, \$109,867 (GH-T1 Transformer Bushings)
6. General Manager's Report *
 - A. Approve Purchase Orders (\$306,151 in total) (1)
 1. PO #23364, Border States, \$40,829 (Electric Meters for BLP Stock)
 2. PO #23370, Irby, \$112,906 (OH Transformers x 32 for BLP Stock)
 3. PO #23378, Holland BPW, \$8,000 (LEDS Safety Training)
 4. PO #23380, Dykstra Landscape, \$8,130 (Eaton Dr & Osipoff Lawn Care)
 5. PO #23389, Dewitt Trenching, \$21,600 (Sterns Bayou Directional Bore)
 6. PO #23392, HIS Workplace, \$6,300 (FY26 Safety Training Videos)
 7. PO #23393, Koppers, \$108,386 (Distribution Wood Pole for CIP Projects)
 - B. Strategic Goals Update – Transmission & Distribution (3) *
 - C. Preliminary Capital Plan & Expense Budget Presentation (2) *
7. Chairman's Report (4)
 - A. Joint City/BLP Meeting
8. Other Business (4)
 - A. APPA Diamond Level 2024 Safety Award
 - B. Mutual Aid Update
9. Public Comment Period
10. Adjourn

Notes:

(1) Board Action Required

(2) Future Board Action

* Information Enclosed

(3) Information RE: Policy or Performance

(4) General Information for Business or Education

GRAND HAVEN BOARD OF LIGHT AND POWER
MINUTES
MARCH 20, 2025

A regular meeting of the Grand Haven Board of Light and Power was held on Thursday, March 20, 2025, at 6:00 PM at the Board's office located at 1700 Eaton Drive in Grand Haven, Michigan and electronically via live Zoom Webinar.

The meeting was called to order at 6:00 PM by Chairperson Westbrook.

Present: Directors Knoth, Welling, and Westbrook.

Absent: Directors Crum and Polyak.

Others Present: General Manager Rob Shelley, Secretary to the Board Danielle Martin, Finance Manager Lynn Diffell, Operations and Power Supply Manager Erik Booth, Distribution and Engineering Manager Austin Gagnon and Patrick Bowland, CEO/General Manager of Michigan Public Power Association (MPPA).

25-03A Director Welling, supported by Director Knoth, moved to excuse Directors Crum and Polyak from the meeting due to personal reasons.

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

25-03B Director Welling, supported by Director Knoth, moved to add item 6F2 PO# 23048 to Power Line Supply in the amount of \$10,419 and remove item 11 from the meeting agenda.

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

25-03C Director Welling, supported by Director Knoth, moved to approve the agenda as amended.

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

Pledge of Allegiance

Public Comment Period

Jim Hagen, 400 Lake Avenue, asked questions regarding the MPPA presentation slides included in the Board's packet.

25-03D Patrick Bowland, CEO and General Manager of MPPA, provided a presentation on MPPA.

GHBLP is one of twenty two members of MPPA, which together serve 300,000 retail customers and sell 6.4 million megawatts of energy annually. MPPA is a project based agency which gives its members maximum flexibility to choose projects and services that meet their individual needs.

GRAND HAVEN BOARD OF LIGHT AND POWER
MINUTES
MARCH 20, 2025

Benefits of being an MPPA member include resource sharing to achieve economies of scale and scope, increased competitiveness, industry expertise, and risk management. Bowland highlighted resource adequacy concerns in the MISO market indicating new power generation must be built. Due to its hedging practices, the BLP is in a good position for the near future but will need to continue to work strategically to be prepared for longer term needs.

No formal action taken.

25-03E Director Welling, supported by Director Knoth, moved to approve the consent agenda. The consent agenda includes:

- Approve the minutes of the February 27, 2025 Regular Board Meeting
- Receive and File the February Financial Statements, Power Supply and Retail Sales Dashboards
- Receive and File the February Key Performance Indicator (KPI) Dashboard
- Receive and File the MPPA Energy Services Project Resource Position Report dated 02/28/2025
- Approve payment of bills in the amount of \$2,447,102.55 from the Operation & Maintenance Fund
- Approve payment of bills in the amount of \$393,150.66 from the Renewal & Replacement Fund
- Approve Purchase Order #23345 to the Joint Michigan Apprenticeship Program in the amount of \$12,000 for 2025 Lineman Apprenticeship Tuition
- Approve Purchase Order #23048 to Power Line Supply in the amount of \$10,419 for overage costs associated with the Harbor Drive Underground Project

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

24-03F Director Welling, supported by Director Knoth, moved to approve the Purchase Orders. The Purchase Orders include:

- Purchase Order #23341 to Total Fire and Security in the amount of \$5,400 for a new fire alarm panel
- Purchase Order #23347 to Irby in the amount of \$65,647 for overhead switches for capital improvement plan projects
- Purchase Order #23353 to Power Line Supply in the amount of \$22,566 for West Spring Lake Road project materials

GRAND HAVEN BOARD OF LIGHT AND POWER
MINUTES
MARCH 20, 2025

- Purchase Order #23354 to Power Line Supply in the amount of \$78,359 for the hospital circuit project materials
- Purchase Order #23356 to Power Line Supply in the amount of \$130,489 for Beechtree project materials
- Purchase Order #23357 to Irby in the amount of \$88,059 for 37 pole mount transformers for capital improvement plan projects
- Purchase Order #23358 to Newkirk Electric in the amount of \$1,148,359 for Beechtree project labor
- Purchase Order #23359 to Newkirk Electric in the amount of \$943,709 for the hospital circuit and West Spring Lake Road project labor

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

25-03G Power Supply Manager Erik Booth provided the initial power supply budget.

The BLP's renewable energy portfolio is projected to be in compliance with renewable energy legislation through 2036. Capacity prices in the MISO auction have been very volatile. The BLP is currently long on capacity but is projected become short on capacity starting in planning year 28/29. The BLP is seeing declining energy sales. In 2023, our third largest customer closed and in 2025 two large customer facilities will be changing operations. Additionally, the BLP must comply with energy waste reduction requirements. Energy prices are expected to increase incrementally in future years while transmission and capacity costs are projected to increase at a higher pace. Total power supply costs for fiscal year 2025 are projected to be \$19.7 million. The budgeted total cost for fiscal year 2026 is \$20 million. The average cost per megawatt hour for fiscal year 2026 is projected to be \$73.07. The base power supply cost built into our electric rates is \$59 per megawatt hour and may need to be updated. The capacity and transmission portions of overall power supply expenses are expected to increase in the coming years.

No formal action taken.

25-03H Director Welling, supported by Director Knoth, moved to approve the Resolution to Appoint HIPPA Privacy and Security Officers (Attachment A).

Roll Call Vote:

In favor: Directors Knoth, Welling and Westbrook; Opposed: None.
Motion carried.

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MINUTES
MARCH 20, 2025

Other Business

- April's Board meeting will be held on Monday, April 28th at 6:00pm at 1700 Eaton Drive.
- Work is soon beginning on the Harbor Drive project. Kent Power will work until Memorial Day and then pick back up after Labor Day.
- The Eaton Drive building project will soon be out for bid. We expect to bring contracts for this work for the Board's approval at its April meeting.

Public Comment Period

Jim Hagen, 400 Lake Avenue, commented on four solar projects MPPA is involved with and asked for Harbor Island to be considered for a community solar project.

Oliver Champine, 540 D Avenue, commented on the concept of placing wind turbines in lake Michigan and would like to see this option explored.

Adjournment

At 7:37 PM by motion of Director Welling, supported by Director Knoth, the March 20, 2025 Board meeting was unanimously adjourned.

Respectfully submitted,

Danielle Martin
Secretary to the Board

DM

GRAND HAVEN BOARD OF LIGHT AND POWER
MINUTES
MARCH 20, 2025

Attachment A

GRAND HAVEN BOARD OF LIGHT & POWER

RESOLUTION TO APPOINT PRIVACY OFFICER AND SECURITY OFFICER

WHEREAS, Grand Haven Board of Light and Power maintains one or more health plans which are subject to the privacy and security rules of the Health Insurance Portability and Accountability Act of 1996 (“HIPAA”), as modified by the Health Information Technology for Economic and Clinical Health Act (“HITECH”); and

WHEREAS, the HIPAA privacy and security rules, as modified by HITECH and the 2013 HHS regulations, require the appointment of a HIPAA privacy officer and a HIPAA security officer to implement privacy and security policies and procedures.

THEREFORE, BE IT RESOLVED, the Administrative Services Supervisor is appointed as the HIPAA privacy officer, and contact person for HIPAA related complaints or requests, and is authorized and directed to take whatever steps deemed reasonable and appropriate, including, but not limited to, the implementation of privacy policies and procedures, in order to ensure that Employer’s health plan(s) are in compliance with the HIPAA privacy rules.

BE IT FURTHER RESOLVED, the Information Technology Specialist is appointed as the HIPAA security officer and is authorized and directed to take whatever steps deemed reasonable and appropriate, including, but not limited to, the implementation of security policies and procedures, in order to ensure that Employer’s health plan(s) are in compliance with the HIPAA security rules.

RESOLUTION DECLARED ADOPTED

Dated: March 20, 2025

Danielle Martin, Board Secretary
Grand Haven Board of Light & Power

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Grand Haven Board of Light & Power, at a meeting held on March 20, 2025, and that public notice of said meeting was given pursuant to, and in compliance with, Act 267 of the Public Acts of Michigan of 1976, as amended.

Dated: March 20, 2025

Robert Shelley, General Manager
Grand Haven Board of Light & Power

**GRAND HAVEN BOARD OF LIGHT AND POWER
STATEMENT OF NET POSITION
FOR THE MONTH ENDING MARCH 2025**

	<u>MARCH 2025</u>	<u>MARCH 2024</u>
ASSETS		
CURRENT ASSETS		
CASH AND CASH EQUIVALENTS	\$29,405,927	\$22,252,634
ACCOUNTS RECEIVABLE	4,137,412	3,947,949
PREPAID	3,869	4,204
	33,547,208	26,204,787
NON-CURRENT ASSETS		
DEPOSITS HELD BY MPIA	10,395,795	8,666,690
DEPOSITS HELD BY MPPA	2,500,000	2,500,000
ADVANCE TO CITY OF GRAND HAVEN	527,588	641,145
MITIGATION FUND	17,031,342	14,207,534
2021A BOND FUND	0	5,910,746
2021A BOND REDEMPTION FUND	722,165	706,474
	31,176,890	32,632,589
CAPITAL ASSETS		
CONSTRUCTION IN PROGRESS	2,392,033	3,325,904
PROPERTY, PLANT AND EQUIPMENT	68,047,118	66,525,483
LESS ACCUMULATED DEPRECIATION	(31,403,464)	(31,884,624)
	39,035,687	37,966,763
TOTAL ASSETS	\$103,759,785	\$96,804,139
DEFERRED OUTFLOWS/(INFLOWS)		
PENSION/OPEB RELATED	3,736,804	4,681,112
LIABILITIES		
CURRENT LIABILITIES		
ACCOUNTS PAYABLE	1,778,560	1,107,341
SERIES 2021A BOND CURRENT	2,470,705	2,480,185
ACCRUED PAYROLL LIABILITIES	296,407	275,156
CUSTOMER DEPOSITS	966,953	987,165
ACCRUED TRANSFER FUND	145,650	138,051
	5,658,275	4,987,898
LONG TERM LIABILITIES		
ASSET RETIREMENT OBLIGATION - MITIGATION	17,064,700	16,702,802
ACCRUED SICK AND PTO	254,992	274,168
SERIES 2021A BOND	15,500,000	17,900,000
NET PENSION LIABILITIES	5,491,563	6,301,362
NET OTHER POST EMPLOYMENT BENEFIT	929,482	500,888
	39,240,737	41,679,220
TOTAL LIABILITIES	44,899,012	46,667,118
NET POSITION		
BEGINNING OF THE YEAR	56,080,669	48,794,255
YTD INCREASE IN NET ASSETS	6,516,908	6,023,878
NET POSITION	62,597,577	54,818,133
TOTAL LIABILITIES AND EQUITY	\$107,496,589	\$101,485,251

**GRAND HAVEN BOARD OF LIGHT AND POWER
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
FOR THE MONTH OF MARCH 2025**

	Current Period Actual	YTD Actual	YTD Budget	Variance Over (Under)	Percent Variance Actual vs Budget	Previous Year Current Period	Previous Year YTD	Variance Over (Under)	Percent Variance Actual vs Last Year
Operating Revenue									
Residential Sales	\$ 1,004,836	\$ 10,437,445	\$ 10,004,011	\$ 433,434	4.33%	\$ 909,947	\$ 9,882,085	\$ 555,360	5.62%
Commercial Sales	815,803	8,064,982	8,051,539	13,443	0.17%	765,290	7,800,419	264,563	3.39%
Industrial Sales	926,917	8,635,132	9,130,257	(495,125)	-5.42%	919,155	8,862,203	(227,071)	-2.56%
Municipal Sales	66,319	769,140	765,967	3,173	0.41%	68,124	759,628	9,512	1.25%
Total Charges for Services	2,813,875	27,906,699	27,951,774	(45,075)	-0.16%	2,662,516	27,304,335	602,364	2.21%
Street Lighting	28,141	252,774	252,000	774	0.31%	28,067	253,974	(1,200)	-0.47%
Other Revenue	8,062	465,791	224,699	241,092	107.30%	5,985	272,769	193,022	70.76%
Total Operating Revenue	2,850,078	28,625,264	28,428,473	196,791	0.69%	2,696,568	27,831,078	794,186	2.85%
Operating Expenses									
Net Purchased Power	1,377,053	14,841,847	15,446,625	(604,778)	-3.92%	1,295,783	13,937,982	903,865	6.48%
Distribution Operations	101,719	978,825	1,341,600	(362,775)	-27.04%	106,240	1,138,940	(160,115)	-14.06%
Distribution Maintenance	249,257	2,231,239	2,648,317	(417,078)	-15.75%	473,207	2,568,257	(337,018)	-13.12%
Energy Optimization	32,495	148,584	243,749	(95,165)	-39.04%	9,588	119,486	29,098	24.35%
Administration	197,004	2,156,031	2,341,903	(185,872)	-7.94%	235,387	2,162,561	(6,530)	-0.30%
Legacy Pension Expense	16,246	124,425	374,998	(250,573)	-66.82%	208,020	539,958	(415,533)	-76.96%
Operating Expenses Before Depreciation	1,973,774	20,480,951	22,397,192	(1,916,241)	-8.56%	2,328,225	20,467,184	13,767	0.07%
Operating Changes Before Depreciation	876,304	8,144,313	6,031,281	2,113,032	35.03%	368,343	7,363,894	780,419	10.60%
Depreciation	183,232	1,662,449	1,635,608	26,841	1.64%	171,462	1,565,925	96,524	6.16%
Operating Changes	693,072	6,481,864	4,395,673	2,086,191	47.46%	196,881	5,797,969	683,895	11.80%
Nonoperating Revenue/(Expenses)	71,231	726,161	463,663	262,498	56.61%	88,463	789,620	(63,459)	-8.04%
Asset Retirement Expense	-	24,698	-	24,698	#DIV/0!	-	123,492	(98,794)	-80.00%
Environmental Surcharge	70,992	728,588	749,997	(21,409)	-2.85%	70,437	727,066	1,522	0.21%
Non-Operating Revenue/(Expenses)	142,223	1,479,447	1,213,660	265,787	21.90%	158,900	1,640,178	(160,731)	-9.80%
Transfers to City of Grand Haven	(145,650)	(1,444,403)	(1,397,589)	(46,814)	3.35%	(138,051)	(1,414,269)	(30,134)	2.13%
Increase in Net Assets	\$ 689,645	\$ 6,516,908	\$ 4,211,744	\$ 2,305,164	54.73%	\$ 217,730	\$ 6,023,878	\$ 493,030	8.18%

**GRAND HAVEN BOARD OF LIGHT AND POWER
POWER SUPPLY DASHBOARD
FOR THE MONTH OF MARCH 2025**

Power Supply for Month (kWh)	<u>FY2025</u>		<u>FY2024</u>	
Net Purchased (Sold) Power	14,714,409	67.52%	15,076,405	69.72%
Renewable Energy Purchases	7,079,103	32.48%	6,548,710	30.28%
Monthly Power Supply Total	21,793,512		21,625,115	
 Days in Month	 31		 31	
 Average Daily kWh Supply for Month	 703,017		 697,584	
% Change	0.78%			

Power Supply FYTD	<u>FY2025</u>		<u>FY2024</u>	
Net Purchased (Sold) Power	157,884,631	74.52%	162,466,112	76.78%
Renewable Energy Purchases	53,981,718	25.48%	49,121,008	23.22%
FYTD Power Supply Total	211,866,349		211,587,120	
 FYTD Days (from 7/1)	 274		 275	
 Average Daily kWh Supply FYTD	 773,235		 769,408	
% Change	0.50%			

	<u>FY2025</u>		<u>FY2024</u>
Net Purchased Power Expenses	\$14,841,847		\$13,937,982
% Change	6.48%		
 Net Energy Expenses per kWh Supplied to System FYTD	 \$0.07005		 \$0.06587
% Change	6.34%		

**GRAND HAVEN BOARD OF LIGHT AND POWER
SALES DASHBOARD
FOR THE MONTH OF MARCH 2025**

<u>Monthly Retail Customers</u>	<u>FY2025</u>		<u>FY2024</u>	
Residential	13,284	87.56%	13,182	87.53%
Commercial	1,646	10.85%	1,638	10.88%
Industrial	128	0.84%	126	0.84%
Municipal	114	0.75%	114	0.76%
Total	15,172		15,060	
<u>Monthly Energy Sold (kWh)</u>				
Residential	6,501,194	31.93%	6,018,717	29.80%
Commercial	5,642,797	27.72%	5,501,733	27.24%
Industrial	7,633,531	37.49%	8,035,493	39.79%
Municipal	515,833	2.53%	573,768	2.84%
Retail Monthly Total	20,293,355	99.67%	20,129,711	99.67%
Street Lighting	66,371	0.33%	66,696	0.33%
Total Monthly Energy Sold	20,359,726		20,196,407	
Days in Primary Meter Cycle	28		29	
kWh Sold per Day	727,133		696,428	
% Change	4.41%			

<u>Energy Sold (kWh) FYTD</u>	<u>FY2025</u>		<u>FY2024</u>	
Residential	70,671,889	33.84%	67,147,771	32.21%
Commercial	58,745,035	28.13%	57,235,689	27.45%
Industrial	72,472,378	34.70%	76,978,759	36.92%
Municipal	6,358,160	3.04%	6,398,677	3.07%
Retail Energy Sold Total FYTD	208,247,462	99.71%	207,760,896	99.65%
Street Lighting	598,612	0.29%	722,420	0.35%
Energy Sold FYTD	208,846,074		208,483,316	
Weighted Days in Meter Cycles FYTD	273		274	
kWh Sold per Day	765,004		760,888	
% Change	0.54%			

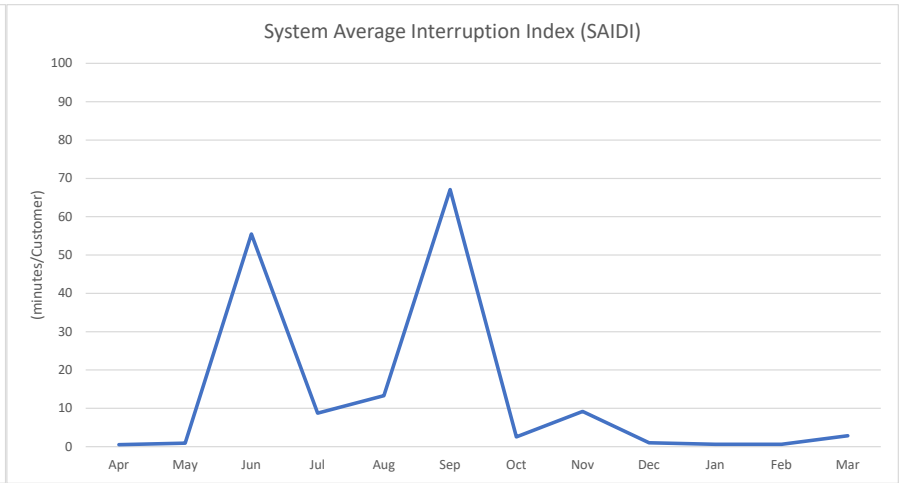
<u>Sales Revenue FYTD net ERS</u>	<u>FY2025</u>	<u>Average Rate (\$/kWh)</u>	<u>FY2024</u>	<u>Average Rate (\$/KWh)</u>	<u>Percent Change \$/kWh</u>
Residential	\$10,437,445	\$0.1477	\$9,882,085	\$0.1472	0.35%
Commercial	\$8,064,982	\$0.1373	\$7,800,419	\$0.1363	0.74%
Industrial	\$8,635,132	\$0.1192	\$8,862,203	\$0.1151	3.50%
Municipal	\$769,140	\$0.1210	\$759,628	\$0.1187	1.90%
Retail Sales Revenue FYTD	\$27,906,699	\$0.1340	\$27,304,335	\$0.1314	1.97%
Street Lighting	\$252,774		\$253,974		
Total Sales Revenue FYTD (Excl. Wholesale)	\$28,159,473	\$0.1348	\$27,558,309	\$0.1322	

	<u>FY2025</u>	<u>FY2024</u>
Approx. Distribution Losses FYTD	1.06%	1.11%
Net Energy Expenses/kWh Sold FYTD	\$0.07080	\$0.06660
% Change	6.30%	

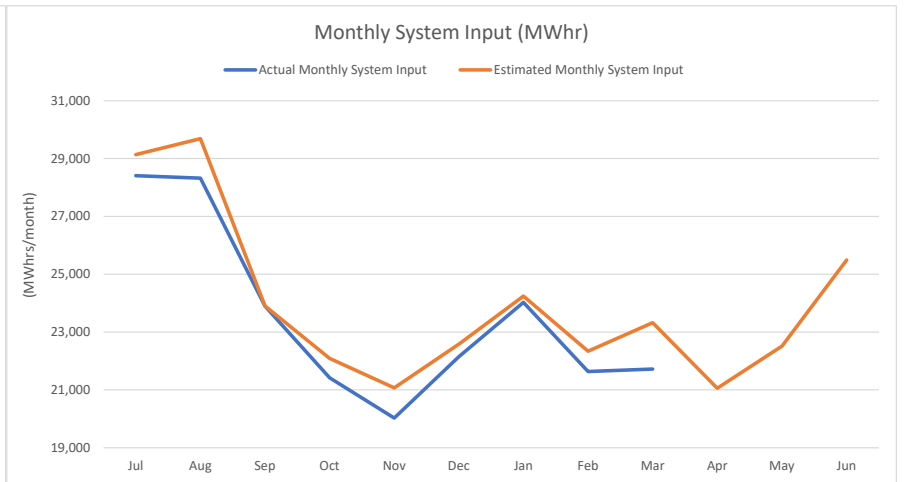
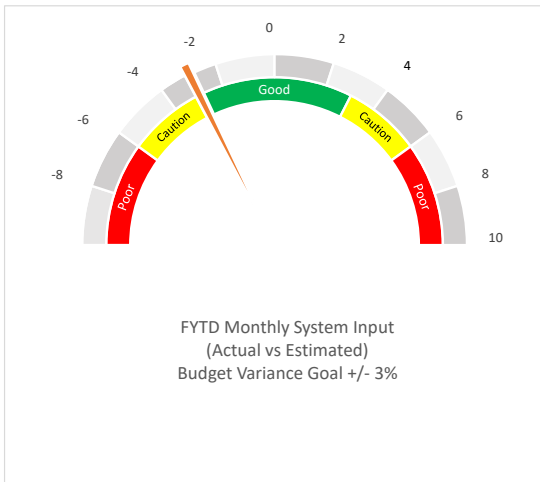
GHBLP Key Performance Indicators

April 10, 2025

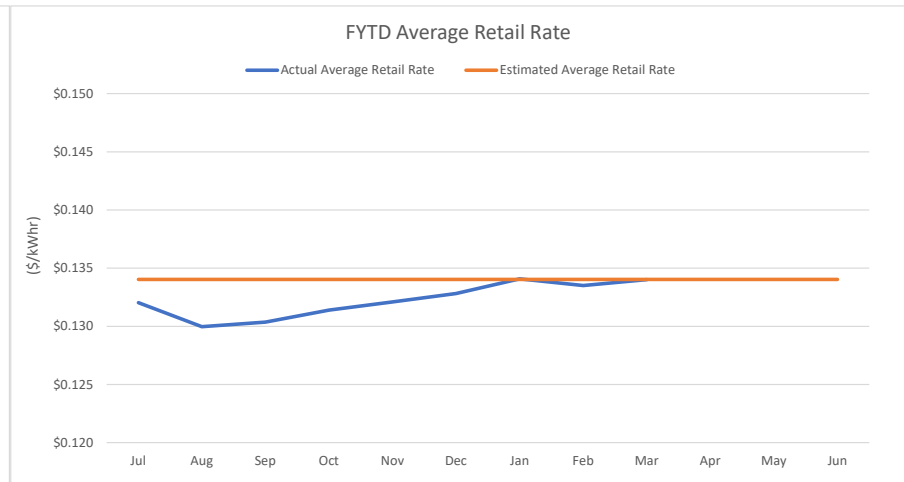
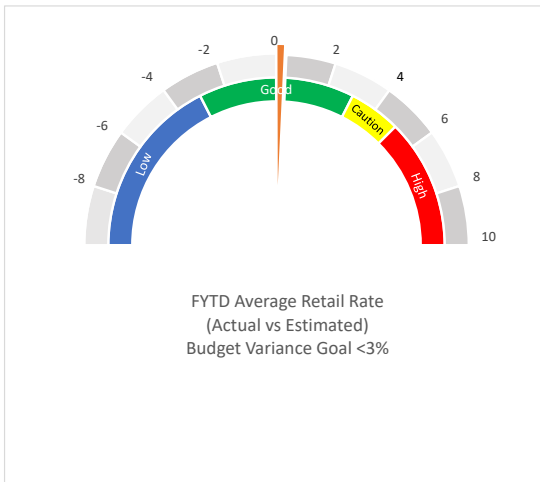
1) Reliability



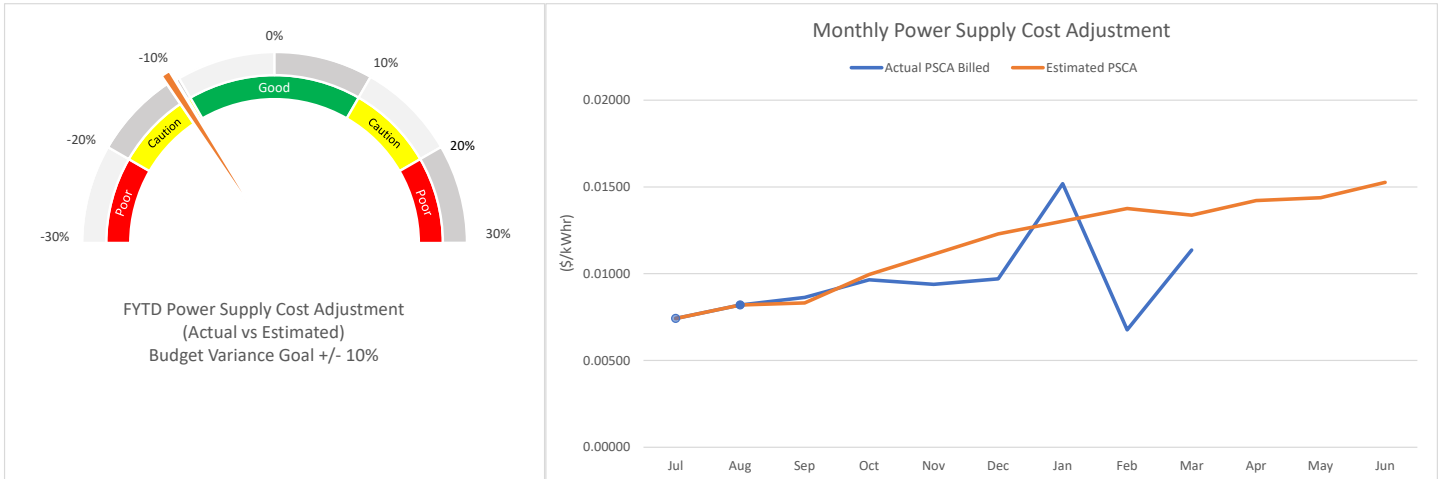
2) Power Supply



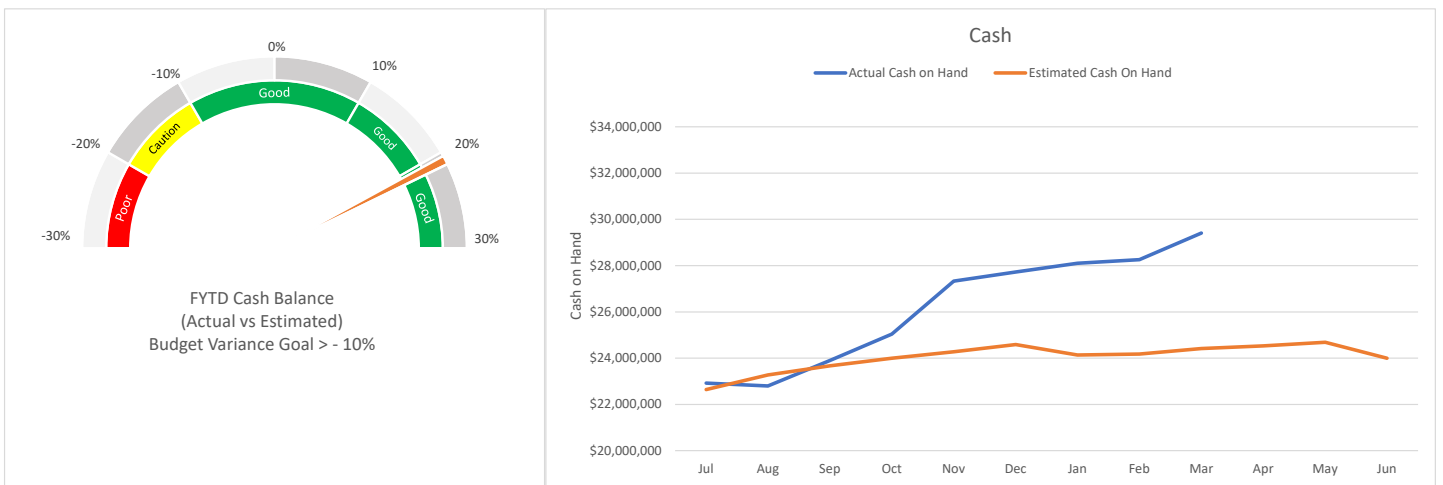
3) Average Retail Revenue per kWh



4) Rates/PSCA



5) Financial



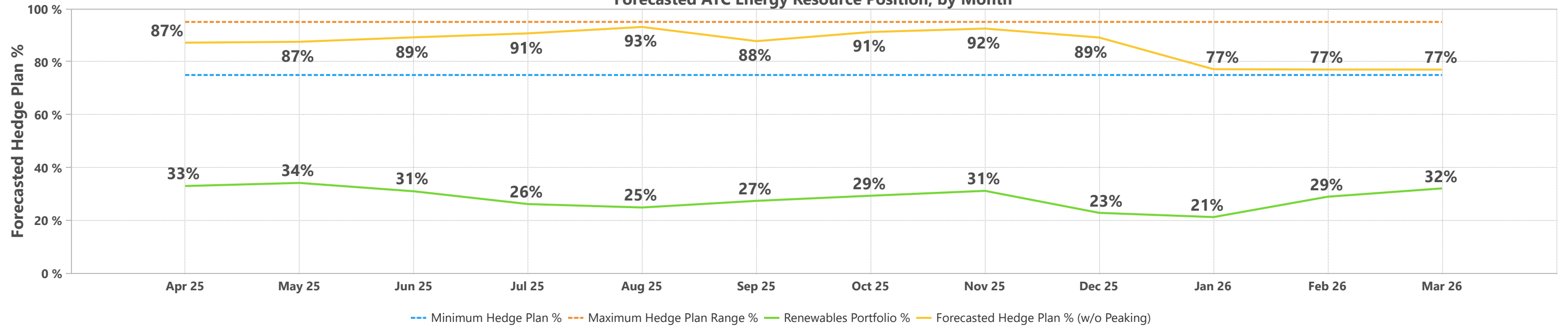
GRAN is forecasted to have an average of 87% of Around the Clock (ATC) Power Supply hedged over the upcoming 12 months, and Renewable Energy Resources are forecasted to provide an average of 28% towards load. Total Resources are forecasted to cost an average of \$51.68 Per MWh, and Market Balancing Energy is forecasted to come in at an average of \$51.80 per MWh. When including Locational Basis this results in a Total Forecasted Power Supply weighted average cost of \$52.60 over the upcoming 12 months.

Forecasted Prompt 12 Months Energy Resource Position for GRAN

Power Supply, MWh	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Total Resources, MWh	18,066	19,140	22,194	25,065	25,658	20,261	18,807	17,904	19,214	18,024	16,542	17,373
Project Assets	1,811	1,887	1,717	1,579	1,545	1,556	1,701	1,655	1,639	1,657	1,488	1,694
Landfill Project	1,811	1,887	1,717	1,579	1,545	1,556	1,701	1,655	1,639	1,657	1,488	1,694
Contracted Power Supply	16,256	17,252	20,477	23,485	24,113	18,705	17,106	16,250	17,575	16,367	15,054	15,679
Contracted ESP Renewable PPAs	5,011	5,567	5,977	5,628	5,283	4,747	4,327	4,360	3,266	3,285	4,712	5,530
Contracted Bilateral Energy Transactions	11,245	11,686	14,501	17,858	18,830	13,958	12,778	11,890	14,310	13,082	10,342	10,149

Total Power Supply	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Forecasted Hedge Plan % (w/o Peaking)	87%	87%	89%	91%	93%	88%	91%	92%	89%	77%	77%	77%
Minimum Hedge Plan %	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
Maximum Hedge Plan Range %	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Renewables Portfolio %	33%	34%	31%	26%	25%	27%	29%	31%	23%	21%	29%	32%
Forecasted Load	(20,736)	(21,881)	(24,895)	(27,647)	(27,566)	(23,099)	(20,627)	(19,362)	(21,569)	(23,378)	(21,492)	(22,577)
Forecasted Market Balancing, MWh	(2,669)	(2,741)	(2,701)	(2,583)	(1,907)	(2,839)	(1,821)	(1,458)	(2,355)	(5,354)	(4,950)	(5,204)
Forecasted Hedge % (w/ Peaking)	87%	87%	89%	91%	93%	88%	91%	92%	89%	77%	77%	77%

Forecasted ATC Energy Resource Position, by Month

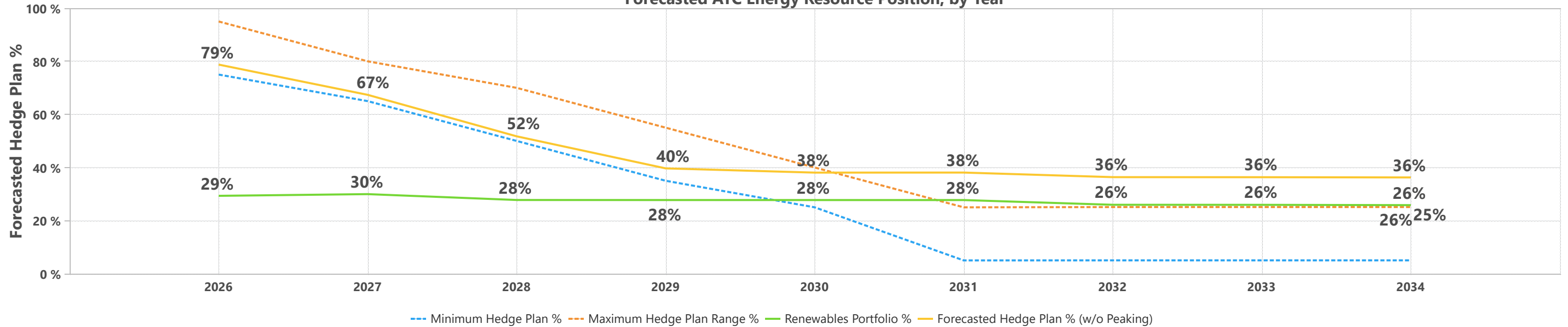


Forecasted Outer Years Energy Resource Position for GRAN

Power Supply, MWh	2026	2027	2028	2029	2030	2031	2032	2033	2034
Total Resources, MWh	215,667	183,992	140,957	107,834	103,261	103,069	98,162	97,876	97,422
Project Assets	19,325	13,564	7,493	7,493	7,493	7,490	2,654	2,654	2,382
Landfill Project	19,325	13,564	7,493	7,493	7,493	7,490	2,654	2,654	2,382
Contracted Power Supply	196,341	170,429	133,464	100,341	95,768	95,579	95,508	95,222	95,040
Contracted ESP Renewable PPAs	60,986	68,289	68,133	67,920	67,736	67,547	67,399	67,190	67,008
Contracted Bilateral Energy Transactions	135,355	102,139	65,331	32,422	28,032	28,032	28,109	28,032	28,032

Total Power Supply	2026	2027	2028	2029	2030	2031	2032	2033	2034
Forecasted Hedge Plan % (w/o Peaking)	79%	67%	52%	40%	38%	38%	36%	36%	36%
Minimum Hedge Plan %	75%	65%	50%	35%	25%	5%	5%	5%	5%
Maximum Hedge Plan Range %	95%	80%	70%	55%	40%	25%	25%	25%	25%
Renewables Portfolio %	29%	30%	28%	28%	28%	28%	26%	26%	26%
Forecasted Load	(273,817)	(273,108)	(272,433)	(271,826)	(271,205)	(270,564)	(269,910)	(269,308)	(268,718)
Forecasted Market Balancing, MWh	(58,150)	(89,116)	(131,475)	(163,992)	(167,944)	(167,495)	(171,748)	(171,432)	(171,296)
Forecasted Hedge % (w/ Peaking)	79%	67%	52%	40%	38%	38%	36%	36%	36%

Forecasted ATC Energy Resource Position, by Year



Forecasted Prompt 12 Months Energy Resource Cost for GRAN

Project Asset Costs are as forecasted in the MPPA Financial Plan, including fixed costs and all other anticipated costs in addition to Energy costs.

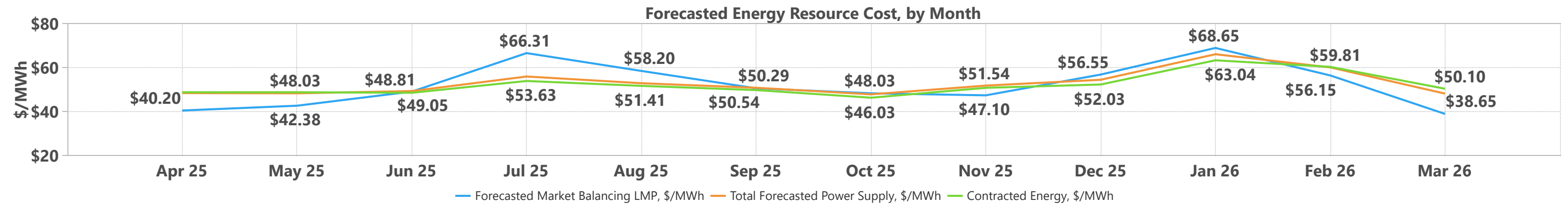
Power Supply \$'s	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Total Resources, \$'s	(\$876,488)	(\$928,688)	(\$1,071,247)	(\$1,344,115)	(\$1,318,997)	(\$1,002,686)	(\$865,656)	(\$904,602)	(\$999,642)	(\$1,136,173)	(\$993,404)	(\$870,377)
Project Assets	(\$203,833)	(\$213,218)	(\$192,646)	(\$195,899)	(\$180,738)	(\$182,027)	(\$137,671)	(\$194,173)	(\$191,977)	(\$196,648)	(\$177,654)	(\$142,926)
Landfill Project	(\$203,833)	(\$213,218)	(\$192,646)	(\$195,899)	(\$180,738)	(\$182,027)	(\$137,671)	(\$194,173)	(\$191,977)	(\$196,648)	(\$177,654)	(\$142,926)
Contracted Power Supply	(\$672,654)	(\$715,471)	(\$878,601)	(\$1,148,215)	(\$1,138,259)	(\$820,659)	(\$727,985)	(\$710,429)	(\$807,666)	(\$939,525)	(\$815,750)	(\$727,451)
Contracted ESP Renewable PPAs	(\$228,478)	(\$250,518)	(\$278,887)	(\$261,706)	(\$245,965)	(\$226,918)	(\$206,813)	(\$207,997)	(\$154,673)	(\$160,120)	(\$227,951)	(\$269,172)
Contracted Bilateral Energy Transactions	(\$444,177)	(\$464,952)	(\$599,713)	(\$886,509)	(\$892,294)	(\$593,741)	(\$521,172)	(\$502,432)	(\$652,993)	(\$779,405)	(\$587,799)	(\$458,279)

Locational Basis, \$'s	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Locational Basis (Projects)	(\$702)	(\$597)	(\$1,162)	(\$712)	(\$1,166)	(\$433)	\$403	(\$738)	\$852	(\$1,407)	(\$1,316)	(\$1,492)
Locational Basis (Contracted Power Supply)	(\$13,496)	(\$5,456)	(\$16,777)	(\$22,998)	(\$18,977)	(\$21,679)	(\$28,206)	(\$23,835)	(\$36,504)	(\$33,043)	(\$12,670)	(\$8,126)

Power Supply \$/MWh	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Power Supply \$/MWh												
Project Assets												
Landfill Project	\$112.58	\$112.97	\$112.22	\$124.06	\$116.98	\$117.00	\$80.94	\$117.35	\$117.16	\$118.70	\$119.42	\$84.36
Contracted Power Supply												
Contracted ESP Renewable PPAs	\$45.59	\$45.00	\$46.66	\$46.50	\$46.56	\$47.81	\$47.79	\$47.70	\$47.36	\$48.74	\$48.38	\$48.67
Contracted Bilateral Energy Transactions	\$39.50	\$39.79	\$41.36	\$49.64	\$47.39	\$42.54	\$40.79	\$42.26	\$45.63	\$59.58	\$56.83	\$45.16

Locational Basis, \$/MWh	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Locational Basis (Projects)	\$0.39	\$0.32	\$0.68	\$0.45	\$0.75	\$0.28	(\$0.24)	\$0.45	(\$0.52)	\$0.85	\$0.88	\$0.88
Locational Basis (Contracted Power Supply)	\$0.83	\$0.32	\$0.82	\$0.98	\$0.79	\$1.16	\$1.65	\$1.47	\$2.08	\$2.02	\$0.84	\$0.52

Total Power Supply	Apr 25	May 25	Jun 25	Jul 25	Aug 25	Sep 25	Oct 25	Nov 25	Dec 25	Jan 26	Feb 26	Mar 26
Forecasted Market Balancing LMP, \$/MWh	\$40.20	\$42.38	\$48.81	\$66.31	\$58.20	\$50.29	\$48.03	\$47.10	\$56.55	\$68.65	\$56.15	\$38.65
Forecasted Market Balancing LMP, \$'s	(\$107,316)	(\$116,184)	(\$131,820)	(\$171,246)	(\$111,002)	(\$142,753)	(\$87,452)	(\$68,671)	(\$133,163)	(\$367,562)	(\$277,960)	(\$201,141)
Total Forecasted Power Supply, \$/MWh	\$48.13	\$48.03	\$49.05	\$55.67	\$52.61	\$50.54	\$47.55	\$51.54	\$54.17	\$65.80	\$59.81	\$47.89
Total Forecasted Power Supply Costs, \$'s	(\$998,002)	(\$1,050,924)	(\$1,221,006)	(\$1,539,071)	(\$1,450,143)	(\$1,167,551)	(\$980,912)	(\$997,846)	(\$1,168,458)	(\$1,538,185)	(\$1,285,350)	(\$1,081,136)



Forecasted Outer Years Energy Resource Cost for GRAN

Project Asset Costs are as forecasted in the MPPA Financial Plan, including fixed costs and all other anticipated costs in addition to Energy costs.

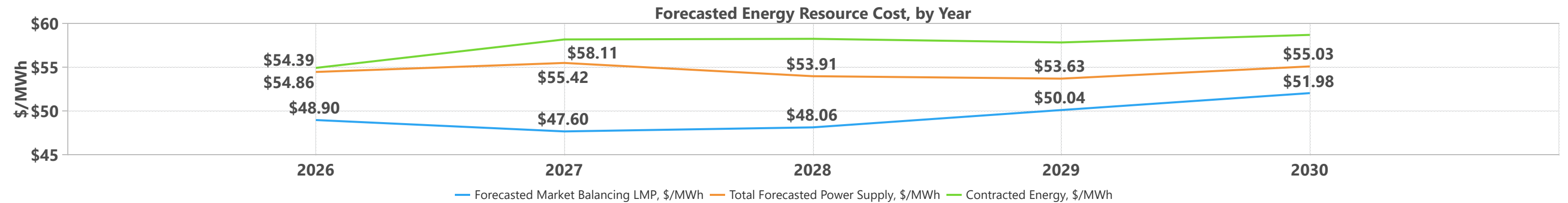
Power Supply \$'s	2026	2027	2028	2029	2030
Total Resources, \$'s	(\$11,830,797)	(\$10,691,768)	(\$8,200,972)	(\$6,229,120)	(\$6,054,201)
Project Assets	(\$2,121,355)	(\$1,492,827)	(\$862,621)	(\$884,885)	(\$907,489)
Landfill Project	(\$2,121,355)	(\$1,492,827)	(\$862,621)	(\$884,885)	(\$907,489)
Contracted Power Supply	(\$9,709,443)	(\$9,198,940)	(\$7,338,351)	(\$5,344,235)	(\$5,146,712)
Contracted ESP Renewable PPAs	(\$2,962,560)	(\$3,362,930)	(\$3,402,330)	(\$3,439,293)	(\$3,478,808)
Contracted Bilateral Energy Transactions	(\$6,746,882)	(\$5,836,010)	(\$3,936,021)	(\$1,904,942)	(\$1,667,904)

Locational Basis, \$'s	2026	2027	2028	2029	2030
Locational Basis (Projects)	(\$8,489)	(\$8,617)	(\$1,576)	(\$1,515)	(\$1,518)
Locational Basis (Contracted Power Supply)	(\$211,174)	(\$194,191)	(\$165,058)	(\$141,212)	(\$138,991)

Power Supply \$/MWh	2026	2027	2028	2029	2030
Power Supply \$/MWh					
Project Assets					
Landfill Project	\$109.77	\$110.06	\$115.12	\$118.10	\$121.11
Contracted Power Supply					
Contracted ESP Renewable PPAs	\$48.58	\$49.25	\$49.94	\$50.64	\$51.36
Contracted Bilateral Energy Transactions	\$49.85	\$57.14	\$60.25	\$58.76	\$59.50

Locational Basis, \$/MWh	2026	2027	2028	2029	2030
Locational Basis (Projects)	\$0.44	\$0.64	\$0.21	\$0.20	\$0.20
Locational Basis (Contracted Power Supply)	\$1.08	\$1.14	\$1.24	\$1.41	\$1.45

Total Power Supply	2026	2027	2028	2029	2030
Forecasted Market Balancing LMP, \$/MWh	\$48.90	\$47.60	\$48.06	\$50.04	\$51.98
Forecasted Market Balancing LMP, \$'s	(\$2,843,530)	(\$4,241,899)	(\$6,319,084)	(\$8,206,423)	(\$8,729,119)
Total Forecasted Power Supply, \$/MWh	\$54.39	\$55.42	\$53.91	\$53.63	\$55.03
Total Forecasted Power Supply Costs, \$'s	(\$14,893,990)	(\$15,136,474)	(\$14,686,690)	(\$14,578,271)	(\$14,923,829)



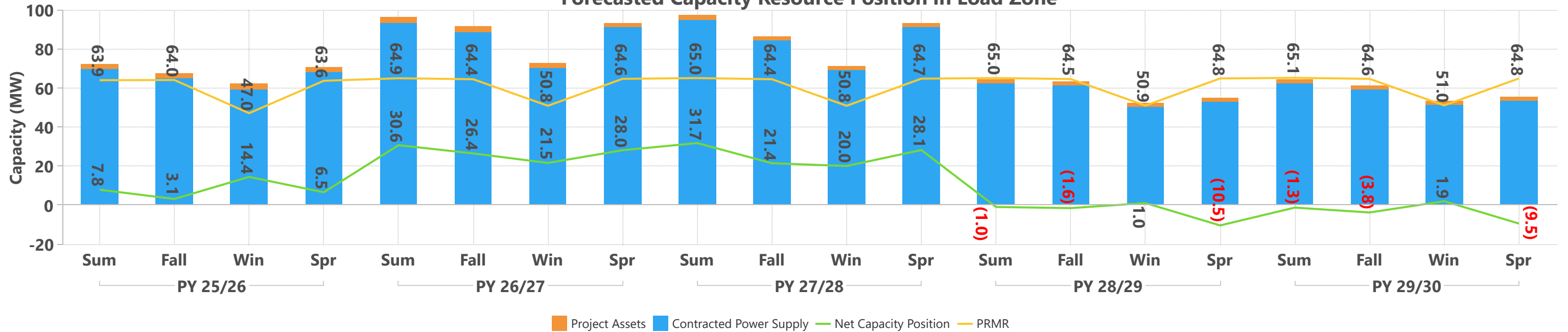
Forecasted Outer Years Capacity Resource Position for GRAN

Capacity Resources, MW	PY 25/26				PY 26/27				PY 27/28				PY 28/29				PY 29/30			
	Sum	Fall	Win	Spr	Sum	Fall	Win	Spr	Sum	Fall	Win	Spr	Sum	Fall	Win	Spr	Sum	Fall	Win	Spr
Net Capacity Position	7.8	3.1	14.4	6.5	30.6	26.4	21.5	28.0	31.7	21.4	20.0	28.1	(1.0)	(1.6)	1.0	(10.5)	(1.3)	(3.8)	1.9	(9.5)
Zone 7	7.8	3.1	14.4	6.5	30.6	26.4	21.5	28.0	31.7	21.4	20.0	28.1	(1.0)	(1.6)	1.0	(10.5)	(1.3)	(3.8)	1.9	(9.5)
Contracted Power Supply	69.9	65.2	59.6	68.2	93.5	88.8	70.3	91.2	95.2	84.3	69.3	91.4	62.5	61.4	50.4	52.8	62.3	59.3	51.5	53.8
Contracted Bilateral Capacity Transactions	57.2	57.2	57.2	57.2	78.4	77.3	67.2	77.3	79.7	74.1	66.5	77.5	55.0	54.3	48.7	50.1	55.6	54.0	50.0	51.3
Contracted ESP Renewable PPAs	12.7	8.0	2.4	11.0	15.1	11.5	3.1	13.9	15.5	10.2	2.8	13.9	7.5	7.2	1.7	2.8	6.7	5.3	1.5	2.6
Planning Reserve Margin Requirement	(63.9)	(64.0)	(47.0)	(63.6)	(64.9)	(64.4)	(50.8)	(64.6)	(65.0)	(64.4)	(50.8)	(64.7)	(65.0)	(64.5)	(50.9)	(64.8)	(65.1)	(64.6)	(51.0)	(64.8)
PRMR	(63.9)	(64.0)	(47.0)	(63.6)	(64.9)	(64.4)	(50.8)	(64.6)	(65.0)	(64.4)	(50.8)	(64.7)	(65.0)	(64.5)	(50.9)	(64.8)	(65.1)	(64.6)	(51.0)	(64.8)
Project Assets	1.8	1.9	1.8	1.9	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Landfill Project	1.8	1.9	1.8	1.9	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

Net Contracted Bilateral Capacity	PY 25/26			PY 26/27			PY 27/28			PY 28/29			PY 29/30		
	Net Bilat MW	Net Bilat \$'s	\$/kw-mo.	Net Bilat MW	Net Bilat \$'s	\$/kw-mo.	Net Bilat MW	Net Bilat \$'s	\$/kw-mo.	Net Bilat MW	Net Bilat \$'s	\$/kw-mo.	Net Bilat MW	Net Bilat \$'s	\$/kw-mo.
Total Net Capacity Bilats	(57.2)	(\$2,814,000)	\$4.10	(75.1)	(\$3,864,492)	\$4.29	(74.5)	(\$3,831,299)	\$4.29	(52.0)	(\$2,975,371)	\$4.77	(52.7)	(\$3,014,516)	\$4.77
Sum	(57.2)	(\$703,500)	\$4.10	(78.4)	(\$1,015,036)	\$4.32	(79.7)	(\$1,033,970)	\$4.32	(55.0)	(\$787,057)	\$4.77	(55.6)	(\$795,312)	\$4.77
Fall	(57.2)	(\$703,500)	\$4.10	(77.3)	(\$997,389)	\$4.30	(74.1)	(\$951,859)	\$4.28	(54.3)	(\$776,036)	\$4.77	(54.0)	(\$771,574)	\$4.77
Win	(57.2)	(\$703,500)	\$4.10	(67.2)	(\$852,918)	\$4.23	(66.5)	(\$843,277)	\$4.23	(48.7)	(\$695,997)	\$4.77	(50.0)	(\$714,426)	\$4.77
Spr	(57.2)	(\$703,500)	\$4.10	(77.3)	(\$999,148)	\$4.31	(77.5)	(\$1,002,193)	\$4.31	(50.1)	(\$716,281)	\$4.77	(51.3)	(\$733,203)	\$4.77

Net Capacity Position	PY 25/26			PY 26/27			PY 27/28			PY 28/29			PY 29/30		
	Market Cap MW	Market Cap \$'s	Total Cap \$'s	Market Cap MW	Market Cap \$'s	Total Cap \$'s	Market Cap MW	Market Cap \$'s	Total Cap \$'s	Market Cap MW	Market Cap \$'s	Total Cap \$'s	Market Cap MW	Market Cap \$'s	Total Cap \$'s
Total Net Capacity Position	3.1	\$213,900	(\$2,600,100)	21.5	\$1,483,500	(\$2,380,992)	20.0	\$1,560,000	(\$2,271,299)	(10.5)	(\$850,500)	(\$3,825,871)	(9.5)	(\$798,000)	(\$3,812,516)
Sum	3.1	\$53,475	(\$650,025)	21.5	\$370,875	(\$644,161)	20.0	\$390,000	(\$643,970)	(10.5)	(\$212,625)	(\$999,682)	(9.5)	(\$199,500)	(\$994,812)
Fall	3.1	\$53,475	(\$650,025)	21.5	\$370,875	(\$626,514)	20.0	\$390,000	(\$561,859)	(10.5)	(\$212,625)	(\$988,661)	(9.5)	(\$199,500)	(\$971,074)
Win	3.1	\$53,475	(\$650,025)	21.5	\$370,875	(\$482,043)	20.0	\$390,000	(\$453,277)	(10.5)	(\$212,625)	(\$908,622)	(9.5)	(\$199,500)	(\$913,926)
Spr	3.1	\$53,475	(\$650,025)	21.5	\$370,875	(\$628,273)	20.0	\$390,000	(\$612,193)	(10.5)	(\$212,625)	(\$928,906)	(9.5)	(\$199,500)	(\$932,703)

Forecasted Capacity Resource Position in Load Zone



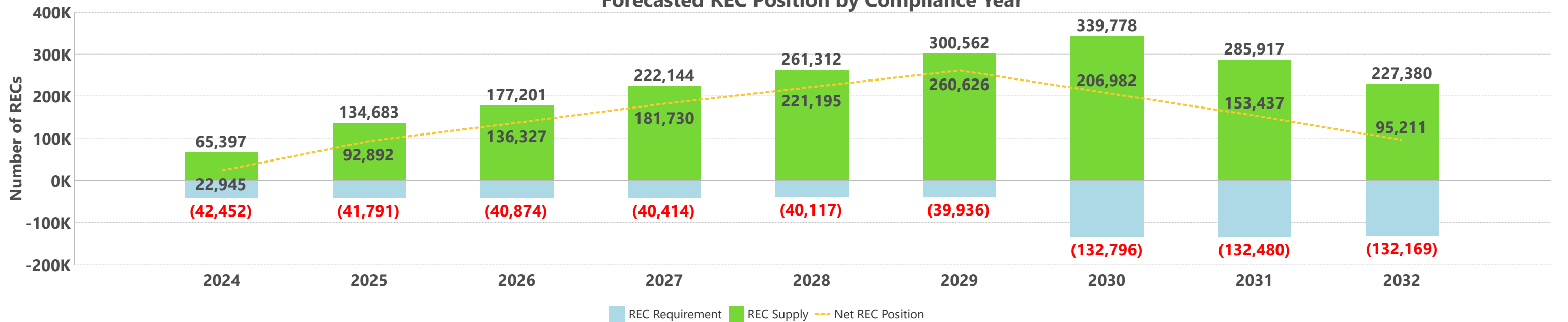
Forecasted Renewable Energy Credit (REC) Position for GRAN

Forecasted REC volumes are based on actual meter data when available and use the latest modeled generation for future timeframes.
Available Banked RECs in a compliance year reflect the forecasted Net REC Position at the end of the previous year.

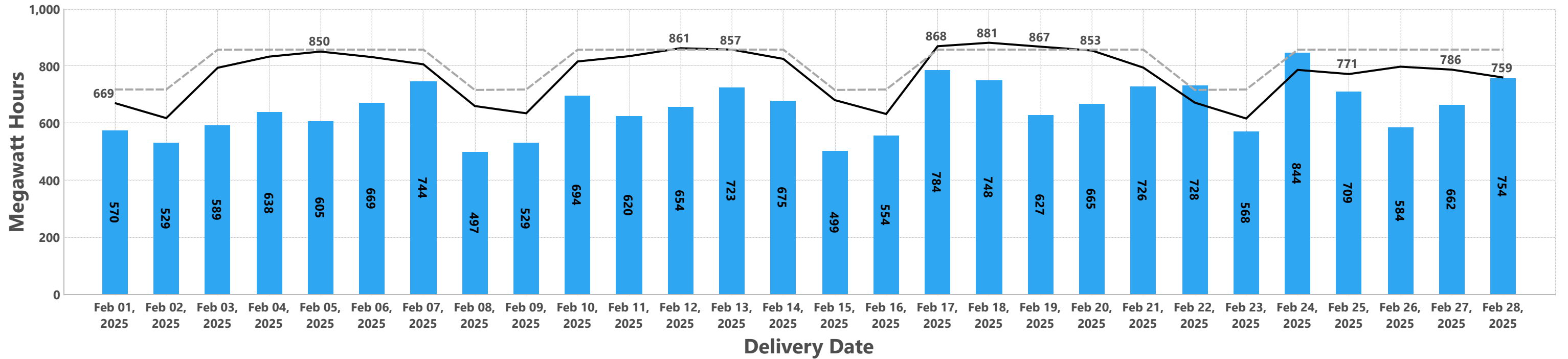
Compliance Year	2024	2025	2026	2027	2028	2029	2030	2031	2032
Net REC Position	22,945	92,892	136,327	181,730	221,195	260,626	206,982	153,437	95,211
Available Banked RECs	22,377	54,147	92,892	136,327	181,730	221,195	260,626	206,982	153,437
Hedge Policy REC Requirement	(42,452)	(41,791)	(40,874)	(40,414)	(40,117)	(39,936)	(132,796)	(132,480)	(132,169)
Assembly Solar	5,925	10,695	10,608	10,548	10,495	10,448	10,388	10,334	10,286
Assembly Solar Phase II	4,995	8,902	8,792	8,745	8,700	8,657	8,610	8,565	8,528
Beebe	2,918	5,983	5,803	5,802	5,800	5,803	5,804	5,802	5,802
Brandt Woods Solar		2,915	4,515	4,492	4,477	4,447	4,425	4,403	4,389
Hart Solar			161	7,628	7,618	7,582	7,559	7,537	7,526
Invenergy Calhoun Solar	6,379	13,178	13,764	13,716	13,674	13,632	13,588	13,542	13,509
Landfill Project (EDL)	10,253	15,642	14,458	8,697	2,639	2,644	2,644	2,644	2,639
Landfill Project (NANR)	3,168	4,722	4,839	4,839	4,839	4,839	4,839	4,836	
Pegasus	9,383	17,744	17,546	17,546	17,546	17,548	17,547	17,542	17,546
White Tail Solar		755	3,824	3,805	3,794	3,767	3,748	3,729	3,719

Compliance Year	2024	2025	2026	2027	2028	2029	2030	2031	2032
3 Year Avg Retail Sales	(283,015)	(278,604)	(272,494)	(269,429)	(267,444)	(266,240)	(265,592)	(264,959)	(264,338)
Hedge Policy REC Target %	15.0%	15.0%	15.0%	15.0%	15.0%	15.0%	50.0%	50.0%	50.0%
Hedge Policy REC Requirement	(42,452)	(41,791)	(40,874)	(40,414)	(40,117)	(39,936)	(132,796)	(132,480)	(132,169)
VGP REC %	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
VGP REC Requirement	0	0	0	0	0	0	0	0	0

Forecasted REC Position by Compliance Year

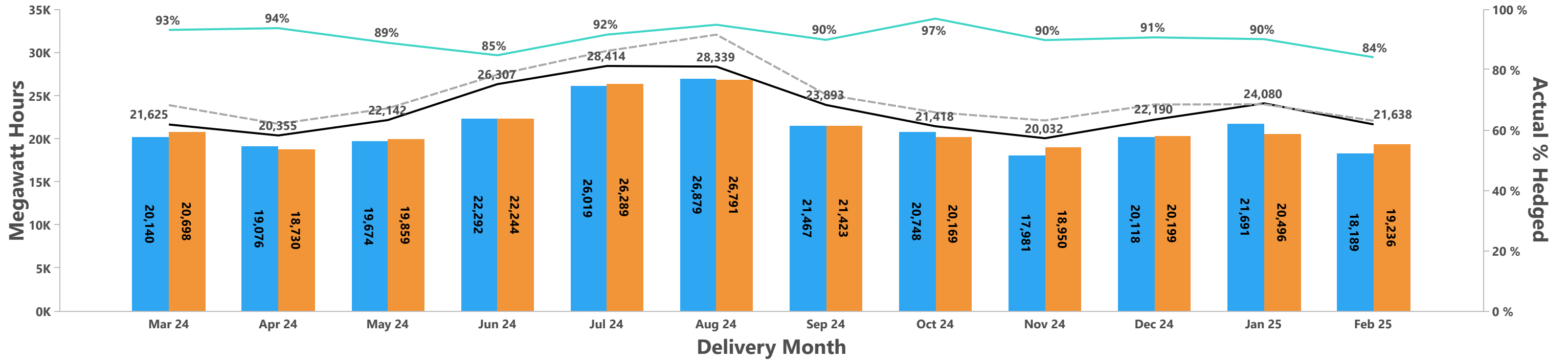


Daily Actual Lookback for GRAN



Actual Supply (w/o Peaking) Actual Load Avg Budgeted Load

Actual vs Budget Lookback for GRAN



Actual Supply (w/o Peaking) Budgeted Supply (w/o Peaking) Actual Load Budgeted Load Actual % Hedged

GRAND HAVEN BOARD OF LIGHT AND POWER
 GENERAL MANAGER'S REPORT
 BOARD MEETING OF APRIL 28, 2025

6. B. The BLP Financial Statements and Dashboards for the month ending March 31, 2025, are provided for your information. These financial statements represent the BLP's financial position through 75% of the fiscal year.

Income Statement Budget Variance	
	over(under)
Total Charges for Service	\$ (44,301)
Other Revenue	241,092
	196,791
Purchased Power	(604,778)
Departments Salary and Fringe	(478,858)
Departments Other	(486,867)
Other	(345,738)
	(1,916,241)
Depreciation	26,841
Non-Operating Revenue (Expenses)	265,788
Transfers to City of Grand Haven	46,814
Increase in Net Assets	\$ 2,305,164

INCOME STATEMENT

Operating Charge revenues are 76% of annual budgeted revenues. Industrial charges are below budget, yet Residential charges are above budget. We are seeing an unexpected decrease in usage from our largest industrial customer year over year. In total, Kwh's and Sales per Kwh are very close to budget. See below:

Retail Sales Budget Variance			
Kwh Over (Under) Budget	-0.15%	(306,357)	Kwh \$ (41,058)
Sales\$ per Kwh Over (Under) Budget	-0.01%	\$ (0.00002)	per Kwh \$ (4,017)
			\$ (45,075)

Operating expenses are 70% of annual budgeted operating expenses. All departments are under budget. Purchased power Kwh's purchased are under budget along with cost per Kwh.

Purchased Power Budget Variance			
Kwh Over (Under) Budget	-2.98%	(6,503,651)	Kwh \$ (460,042)
Cost Over (Under) Budget per Kwh	-0.97%	\$ (0.68315)	per Kwh \$ (144,736)
			\$ (604,778)

GRAND HAVEN BOARD OF LIGHT AND POWER
GENERAL MANAGER'S REPORT
BOARD MEETING OF APRIL 28, 2025

Year-to-Date **Renewable Energy Purchases equal 53,981,718 Kwh's, or 25.5%, of total power purchases.**

The Increase in Net Position for the year is equal to \$6,516,908.

BALANCE SHEET

Cash and Cash Equivalents are \$29,405,927. This is \$11,405,927 above the minimum cash reserve of \$18,000,000 and does not include funds set aside for remediation, bond funds and working capital held with MPIA and MPPA.

The **Capital Plan** approved for FY25 was \$5,747,500. As of March 31, 2025, 43% of the capital projects budgeted funds have been disbursed.

5. F. Confirm Purchase Orders – There are two (2) confirming Purchase Order on the Consent Agenda this month of **\$126,787** for your confirmation.

Confirming Purchase Orders on the Consent Agenda are either routine expenses within approved budgeted parameters, with prequalified and approved contractors or vendors, services or supplies that may have required immediate attention, again using prequalified and approved contractors or vendors when possible or change orders under a previously approved PO (and we are seeking after the fact concurrence/confirmation of the expenditure by the Board).

The PO number, contractor name, associated dollar value, and short description of this item are listed on the agenda.

All applicable purchasing policy provisions associated with these Purchase Orders were followed. Budgeted funds are available. Staff is recommending approval. (Board action is requested through the approval of the Consent Agenda).

6. A. Approve Purchase Orders – There are seven (7) Purchases Order totaling **\$306,151** on the regular agenda.

The PO number, contractor name, associated dollar value, and short description of this item are listed on the agenda.

I, or an appropriate staff member, can answer any further questions you may have regarding these items.

All applicable purchasing policy provisions associated with these items were followed. Capital planning or budgeted funds are available. Staff is recommending approval of these Purchase Orders. (Board action is requested).

GRAND HAVEN BOARD OF LIGHT AND POWER
GENERAL MANAGER'S REPORT
BOARD MEETING OF APRIL 28, 2025

RS/dm

Attachments 4/23/25



Strategic Plan

Fiscal Years 2022-2026

Grand Haven Board of Light & Power

Our Mission & Core Values

The GHBLP mission is to meet our community's expectations for reliable electric service that returns value to our customers, and ensures the economic and environmental sustainability of the utility.

Our core values are to:

Work cooperatively as a team

- Prioritize wellness, education and training
- Maintain a safe and secure workplace
- Treat our team members fairly, equitably and with mutual respect
- Value the contributions of everyone on the team

Continuously improve our performance

- Maintain modern and reliable infrastructure
- Consider the environmental impacts of what we do
- Implement best and sustainable practices
- Utilize technology cost effectively

Serve with integrity

- Be accountable for our actions
- Serve openly and honestly
- Treat all in our community fairly, equitably, and respectfully

Provide value to the community

- Improve the community we serve
- Remain a trusted energy partner
- Engage and understand our customers

Strategic Priorities





Transmission and Distribution

Strategic Objective:

GHBLP will operate a reliable, modern system to provide future capacity and support a diverse power supply portfolio.

Specific Areas of Focus:

- Distribution system undergrounding
- Long-term capital planning to address aging infrastructure
- Distribution Automation
- Data Analytics
- Regulatory compliance
- System reliability
- Transition of utility operations focus away from generation to distribution



Goals:

- Update, maintain, and implement a rolling 5-year capital improvement plan to effectively address aging T & D infrastructure
- Complete GIS system inventory by June 30, 2023
- Deploy grid analytics software and integrate utilization of the information into system operations
- Integrate System Operations and Technical Services department by June 30, 2023 to utilize workforce efficiently and effectively

GIS Audit and Grid Analytics

- ▶ Full System Audit Completed
 - ▶ OH/UG Lines, Transformers, Lights, Structures, and Customers
- ▶ AMI Data and GIS Records are utilized to identify and predict reliability problems.
 - ▶ Customer Voltage Problems
 - ▶ Overloaded Transformers
 - ▶ Safety Issues
- ▶ Data is used to drive future projects



PLUGGED



Investing in
Reliability



September 2023

Capital Improvement Plan

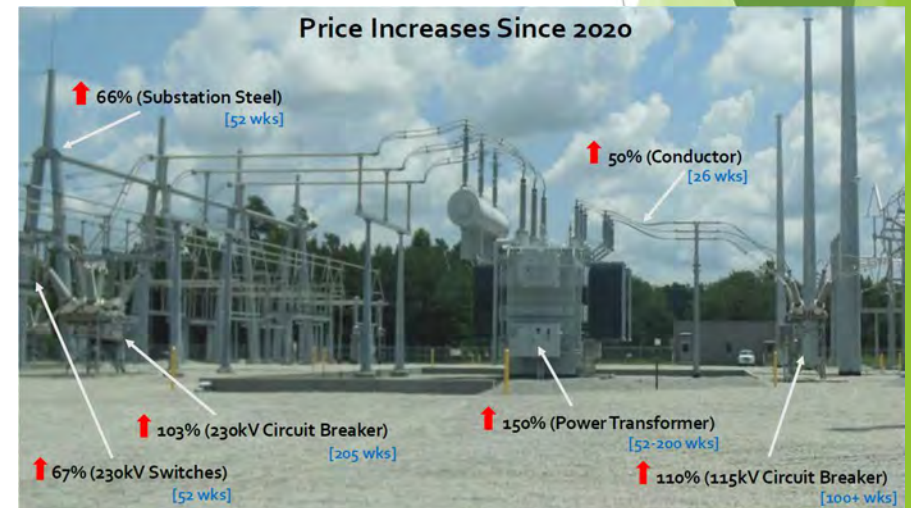
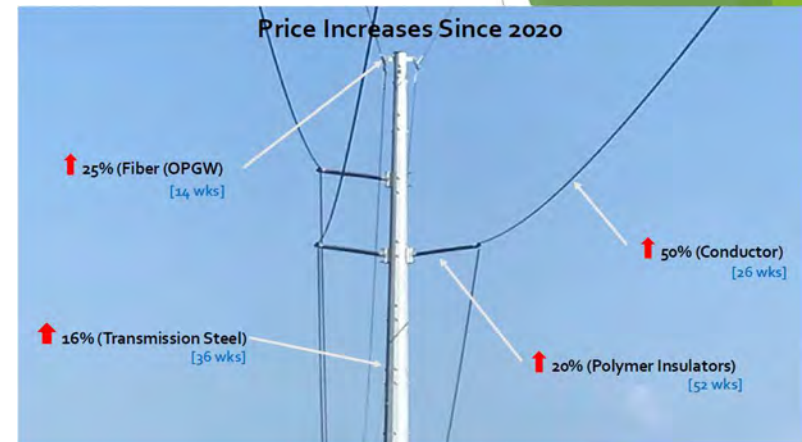
- ▶ Major Projects Completed - 2020-2025
 - ▶ All Substations Rebuilt/Refurbished since 2020
 - ▶ All 2400V Distribution Converted to 13,200V
 - ▶ New Distribution Circuits - NG-61, OF-34 and 42
 - ▶ Pole Replacement Program
 - ▶ LED Street Light Conversions

Capital Improvement Plan

Why are we behind?

- ▶ Delay in Design - ~6 Months
 - ▶ Full system study completed in 2024
 - ▶ Data used to design capital projects
- ▶ Cost increases
 - ▶ Material - 25%-100% increase since 2020
 - ▶ Contract Labor - **Up 100% since 2024**
 - ▶ Contractors are at capacity
- ▶ CIP budget is estimated to increase to ~\$5M/year

Images from Brian Gray, Santee Cooper



Capital Improvement Plan

Upcoming Projects - In Fiscal Years

▶ Hardening Overhead

- ▶ Beechtree and Marion Rebuild - '26
- ▶ Hospital Circuit - '26
- ▶ West Spring Lake Rd. - '26
- ▶ Waverly and Eastern - '27-28
- ▶ Grand Avenue - '27
- ▶ Circuit 21 & 22 - '27-28

▶ Strategic Undergrounding

- ▶ Harbor Drive Underground - '25-26
- ▶ Stearn's Bayou - '25-26
- ▶ Ohio & Ferry - '25
- ▶ 172nd Expansion - '25
- ▶ River Haven Cable - '28-29

*All Major projects delayed 6M-1Y

Reliability Update

► IEEE Standard Metrics

SAIDI

Outage Hours per Customer - *How many hours/year will I be without power?*

SAIFI

Outages per Customer - *How many outages will I have per year?*

CAIDI

Hours per Outage - *What is the average restoration time?*

ASAI

System Availability - *What % of the time is the electric system operational?*

GHBLP Reliability



2024	Total Incidents	SAIDI (hr)	SAIFI	CAIDI (hr)	ASAI (%)	# of Major Events
All Outages	506	3.958	2.469	1.602	99.954	
Without Major Events	430	0.483	0.263	1.833	99.994	9
Without Planned	222	3.876	2.404	1.612	99.955	

2023	Total Incidents	SAIDI (hr)	SAIFI	CAIDI (hr)	ASAI (%)	# of Major Events
All Outages	593	2.645	1.449	1.824	99.969	
Without Major Events	479	0.482	0.291	1.657	99.994	7
Without Planned	263	2.547	1.387	1.835	99.970	

2024 Explained

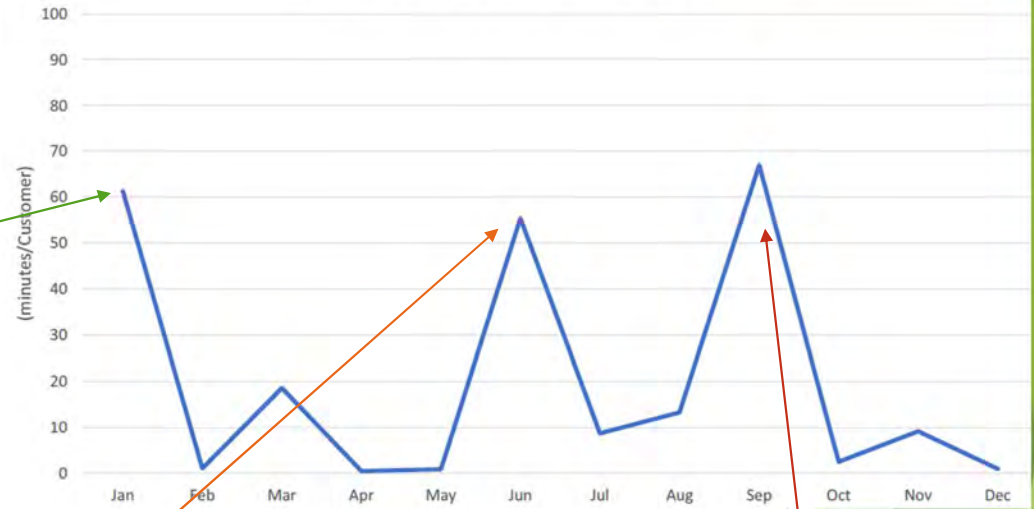
Winter Storm

high winds are expected to blast the West Michigan region, with snowfall accumulations reaching up to 14 inches and wind gusts as high as 50 mph.

Mlive - 1-12-24



System Average Interruption Index (SAIDI)



Thunderstorms



WZZM 6-25-24

Transmission Outage

System Wide Outage - 9/9/24
Customers affected 51-71 Min

Top Outage Causes - 2024

Total Outages - 506

Planned - 284

Capital Improvement, Maintenance

Animals - 24

Fuse Blown - 13

Trees - 106

*January Winter Storm
June Thunderstorms*

Bad Underground - 13

Substation - 1

September System Wide Outage

SAIDI Comparisons - 2023 All Outages

How many hours/year will I be without power?

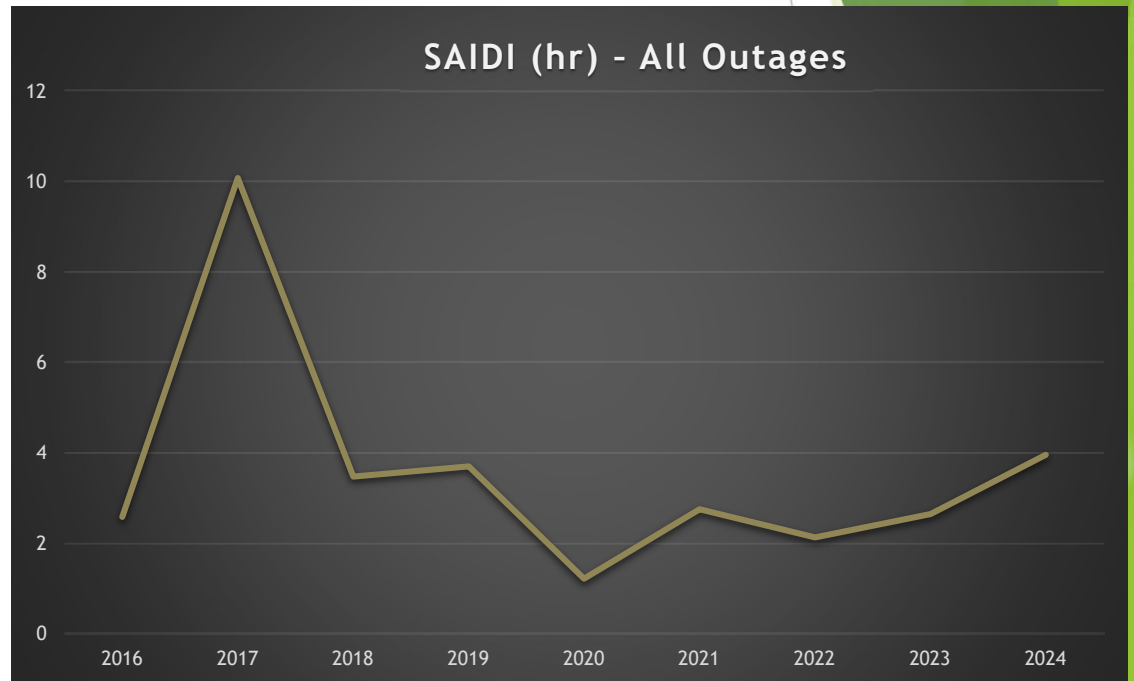
GHBLP: 2.65

National: 5.7

Public Power - 2.49
Co-Op - 7.71
IOU - 6.23

Michigan: 5.07

Public Power - 1.28
Co-Op - 6.46
IOU - 9.07
Consumer's - 15.21



SAIFI Comparisons - 2023 All Outages

How many outages will I have per year?

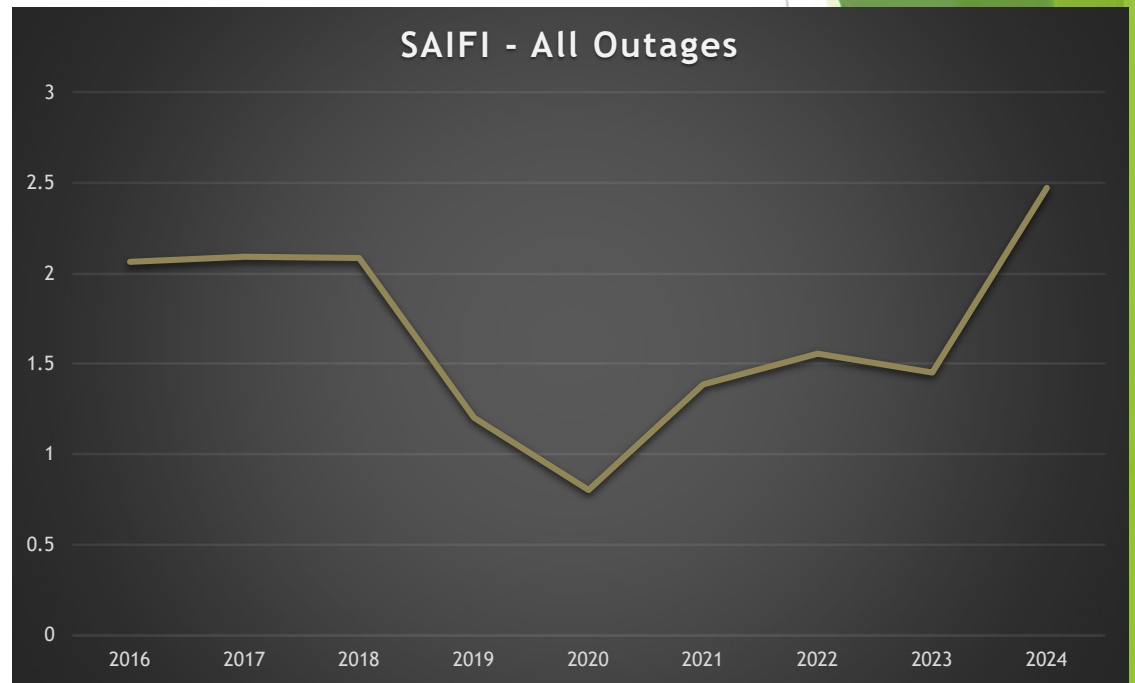
GHBLP: 1.44

National: 1.67

Public Power - 1.1
Co-Op - 2.21
IOU - 1.44

Michigan: 1.1

Public Power - 0.66
Co-Op - 1.49
IOU - 1.34
Consumer's - 1.37



CAIDI Comparisons - 2023 *All Outages*

What is the average restoration time?

GHBLP: 1.82

National: 2.82

Public Power - 1.99

Co-op - 3.04

IOU - 3.69

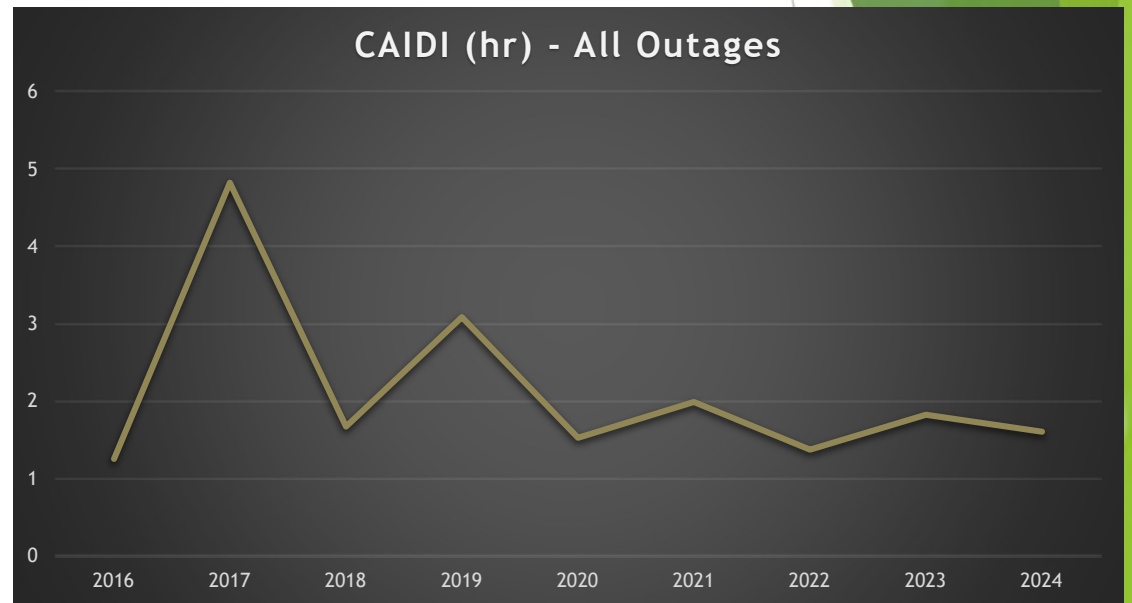
Michigan: 3.96

Public Power - 1.93

Co-Op - 4.73

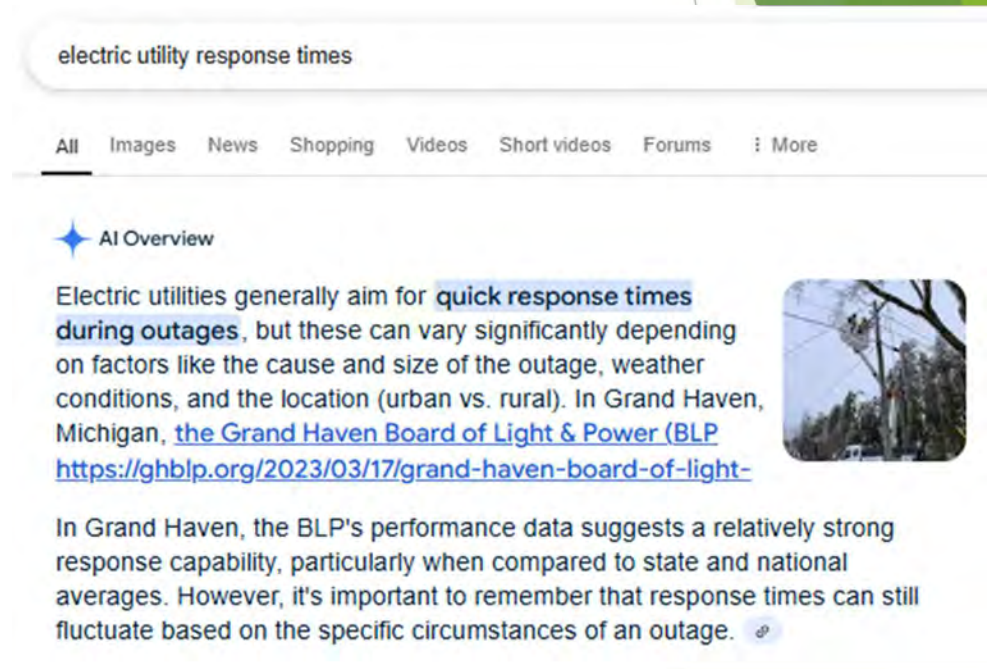
IOU - 6.07

Consumer's - 11.09



Maintaining & Increasing Reliability

- ▶ Continue performing best practice maintenance
 - ▶ Inspection Programs
 - ▶ Line Clearance
 - ▶ Preventative Maintenance
- ▶ Identify and address “Low Hanging Fruit”
 - ▶ Animal Guard
 - ▶ Cable Replacements
- ▶ Plan for capital expenditures
 - ▶ Hardening Overhead
 - ▶ Strategic Undergrounding




electric utility response times

All Images News Shopping Videos Short videos Forums More

AI Overview

Electric utilities generally aim for **quick response times during outages**, but these can vary significantly depending on factors like the cause and size of the outage, weather conditions, and the location (urban vs. rural). In Grand Haven, Michigan, [the Grand Haven Board of Light & Power \(BLP\)](https://ghblp.org/2023/03/17/grand-haven-board-of-light-) <https://ghblp.org/2023/03/17/grand-haven-board-of-light->



In Grand Haven, the BLP's performance data suggests a relatively strong response capability, particularly when compared to state and national averages. However, it's important to remember that response times can still fluctuate based on the specific circumstances of an outage.

Grand Haven Board of Light and Power
FY 2025-2026 Budget
Preliminary



Key Budget Components

- Operating Sales-Power Sold (MWh)
- Operating Expenses
 - Purchased Power - Erik's presentation in March
 - Department Expenses
 - Energy Optimization - Erik's presentation in March
- Depreciation
- Transfer Fund - 5% of Sales
- Non-Operating Revenue and Expenses
- 5-year Capital Plan
- Corresponding Balance Sheet Changes

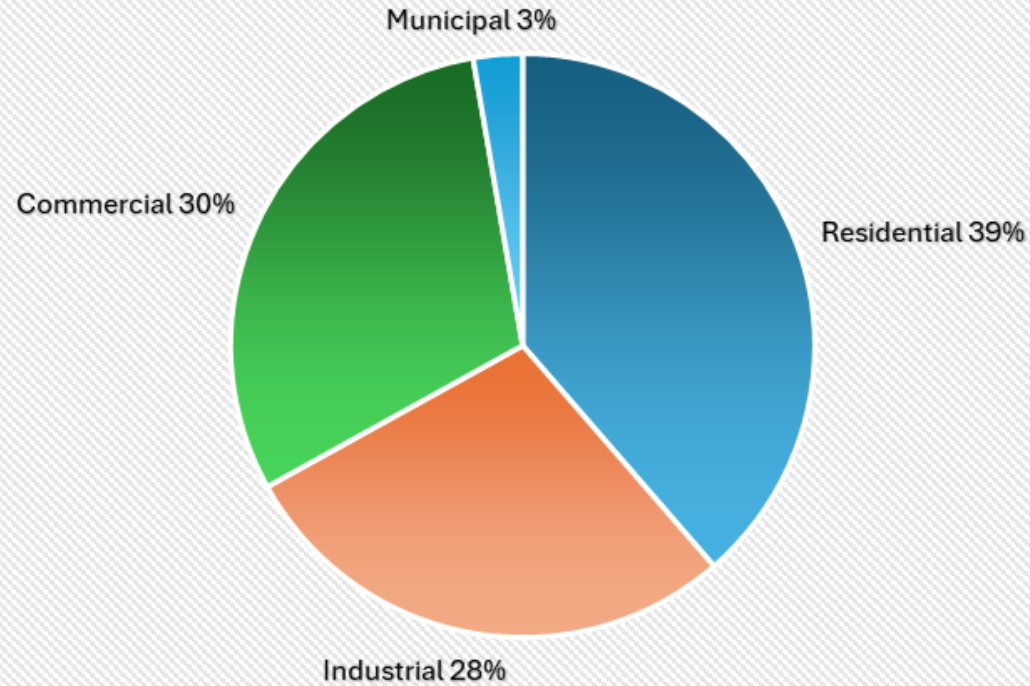
Operating Sales-Power Sold-15,200 Meters

excluding streetlights

	<u>Retail Sales Volume Mwh</u>	<u>Charges</u>	<u>Average Cost Per Kwh</u>
• Actual FY2023	283,192	\$36,213,923	\$.1278
• Actual FY2024	272,364	\$35,713,834	\$.1311
• Forecast FY2025	273,500	\$36,642,000	\$.1340
• Budget FY2026	266,910	\$36,471,852	\$.1366

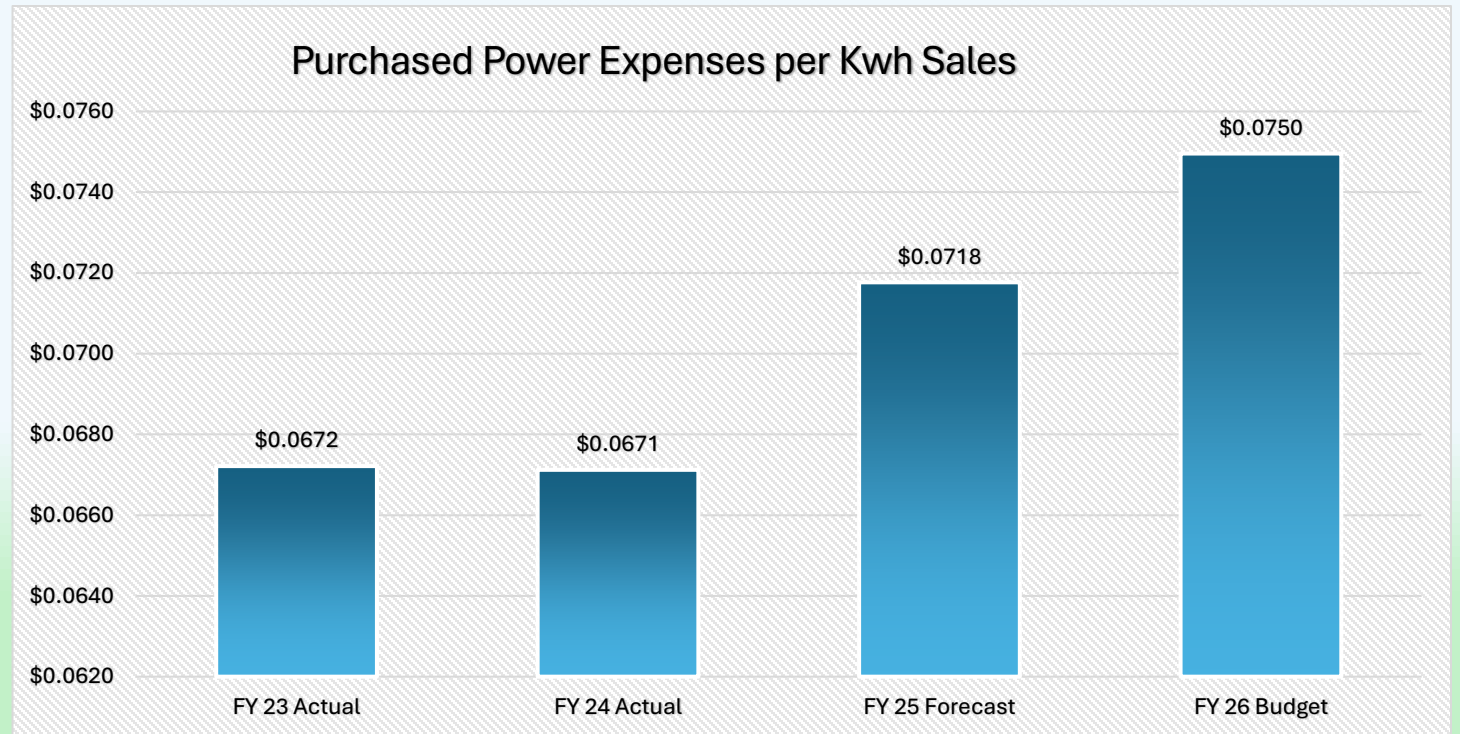
Operating Sales-Power Sold

FY2025 Budgeted Charges



Purchased Power- 69% of Operating Expenses

- Actual FY2023 \$19,034,752
- Actual FY2024 \$18,281,810
- Forecast FY2025 \$19,628,066
- Budget FY2026 \$20,006,655



Department Expenses

Payroll and Benefits- 20% of Operating Expenses

- Payroll-38 FTEs with a 3% cost of living increase and an additional 1% of payroll equity add if needed.
- Benefits are budgeted at current levels.

Legacy Pension Expense- 1.5% of Operating Expenses - \$400,000-yearly contribution above employer contribution for current employees of 10%

Energy Optimization- 1% of Operating Expenses - \$125,000 for ½ of the year includes incentives for Residential, Commercial and Industrial customers. A new program will be mandated for the remainder of the fiscal year.

Other Department Expenses- 8.5% of Operating Expenses - are budgeted at expected disbursements

Depreciation Expense

Approximately 45% of our Capital Assets are depreciated and the average age of our system is 14.4 years.

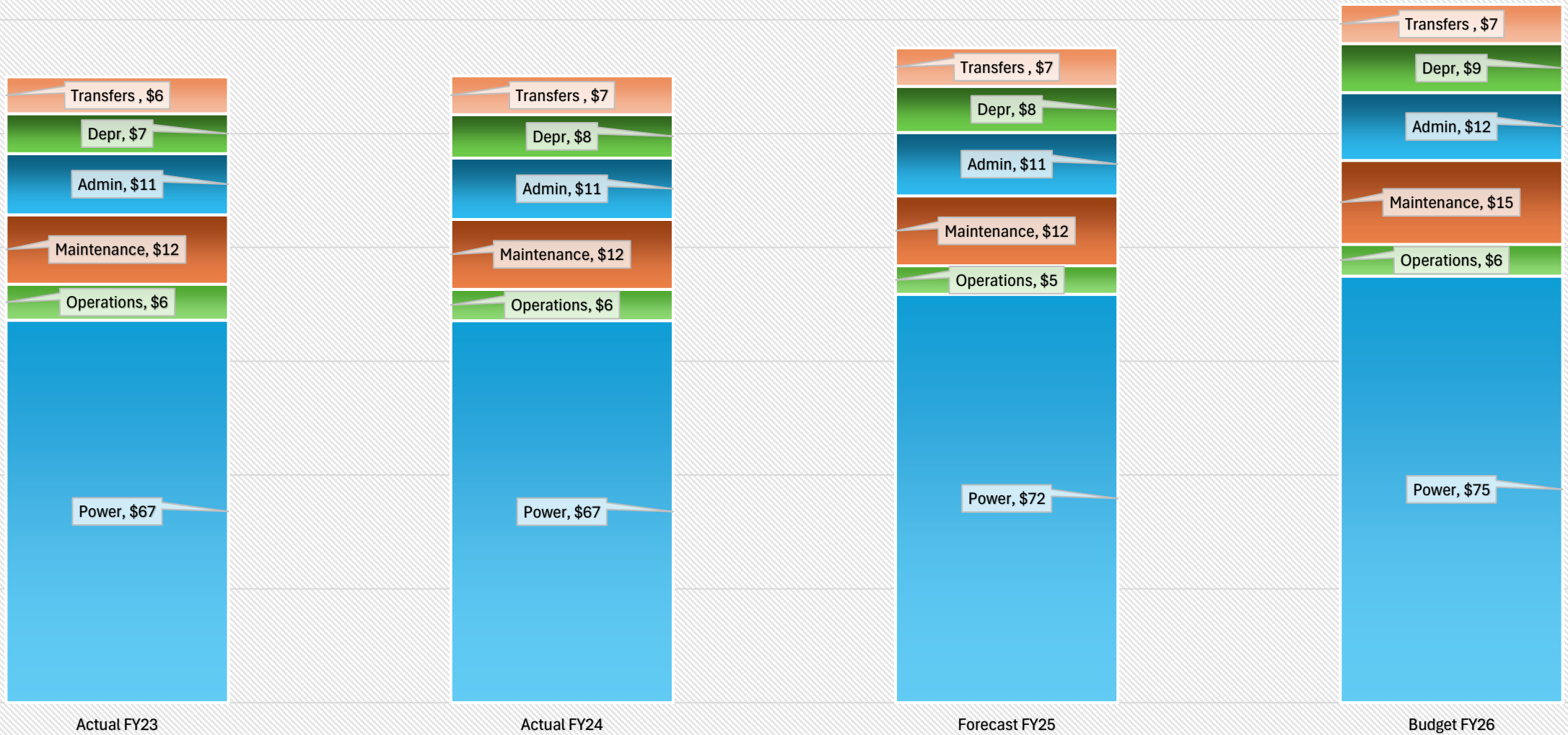
Annual Depreciation is budgeted at **\$2,300,000** for FY26.

Transfer Fund

Per the City of Grand Haven's charter, a transfer of 5% of gross monthly sales is required monthly to the City of Grand Haven.

We are estimating this transfer to be equal to **\$1,840,400** for FY26.

Dollar Spent per MWh Sold



Non-Operating Revenue & Expenses

All interest earned and paid (2021A Direct Purchase) are Non-Operating.

- FY26 Interest Expense on Direct Purchase Bond will be \$263,860 at an interest rate of 1.58%
- We currently have \$15,000,000 invested in Treasury Bills at rates of 3.9%-4.2%. I have budgeted 3% for FY26.

Capital Plan

5-year capital plan (FY26-FY30) totals \$27,605,000.

FY26 \$7,252,000

Vehicle Replacements	\$690,000
Circuit Rebuilds	\$2,370,000
Harbor drive Undergrounding	\$652,000
Renovations to Eaton Drive site	\$2,200,000

Balance Sheet

Cash/Deposits/Asset Retirement/Bond Payments

In addition to the Capital Plan, we are budgeted to:

- Contribute to MPIA and MPPA Working Capital reserve funds
 - \$800,000
- Add to the Asset Retirement Obligation Liability by means of the Environmental Remediation Charge
 - \$1,000,000
- Pay Principal payment on Direct Purchase
 - \$2,400,000

Ending Working Cash is estimated to be \$26,300,000

**GRAND HAVEN BOARD OF LIGHT AND POWER
BUDGET FY2026**

	<u>Actual 2022-2023</u>	<u>Actual 2023-2024</u>	<u>Budget 2024-2025</u>	<u>Forecast 2024-2025</u>	<u>Budget 2025-2026</u>	<u>Budget to Forecast Variance</u>	<u>Budget to Budget Variance</u>
Mwh (non street light)	283,192	272,364	274,500	273,500	266,910		
Operating Revenue							
Residential Sales	12,850,114	12,766,448	13,167,349	13,433,000	14,091,395	658,395	924,046
Commerical/Industrial/Municipal Sales	23,599,129	23,027,646	23,622,973	23,209,000	22,380,457	(828,543)	(1,242,516)
Total Charges for Services	36,449,244	35,794,094	36,790,322	36,642,000	36,471,852	(170,148)	(318,470)
Street Lighting	340,330	338,039	336,000	336,000	336,000	-	-
Other Revenue	487,803	363,629	299,600	533,262	382,600	(150,662)	83,000
Total Operating Revenue	37,277,377	36,495,762	37,425,922	37,511,262	37,190,452	(320,810)	(235,470)
Operating Expenses							
Purchased Power	19,034,752	18,281,810	20,263,682	19,628,066	20,006,655	378,589	(257,027)
<u>Distribution</u>						-	-
Distribution Operations	1,791,039	1,500,117	1,968,107	1,370,280	1,489,483	119,203	(478,624)
Distribution Maintenance	3,451,720	3,344,651	3,531,103	3,359,268	3,936,709	577,441	405,606
Energy Optimization	150,294	171,607	325,000	200,000	125,000	(75,000)	(200,000)
Administration	3,046,088	2,938,759	2,943,250	3,045,717	3,179,914	134,197	236,664
Legacy Pension Expense	<u>1,302,851</u>	<u>1,226,872</u>	<u>500,000</u>	<u>200,000</u>	<u>400,000</u>	<u>200,000</u>	<u>(100,000)</u>
Operating Expenses before Depreciation	28,776,744	27,463,814	29,531,142	27,803,331	29,137,761	1,334,430	(393,381)
Operating Net Income Before Depreciation	8,500,633	9,031,948	7,894,780	9,707,931	8,052,691	(1,655,240)	157,911
Depreciation	<u>1,986,280</u>	<u>2,080,300</u>	<u>2,180,820</u>	<u>2,218,000</u>	<u>2,300,000</u>	<u>82,000</u>	<u>119,180</u>
Operating Net Income	6,514,352	6,951,648	5,713,960	7,489,931	5,752,691	(1,737,240)	38,731
Nonoperating Income/(Expenses)	676,128	2,064,938	618,220	744,395	382,140	(362,255)	(236,080)
Environmental Remediation Expense	(1,069,855)	(829,545)	(1,000,000)	(975,302)	(1,000,000)	(24,698)	-
Environmental Remediation Surcharge		<u>953,037</u>	<u>1,000,000</u>	<u>1,000,000</u>	<u>1,000,000</u>	-	-
	<u>(393,728)</u>	<u>2,188,430</u>	<u>618,220</u>	<u>769,093</u>	<u>382,140</u>	<u>(386,953)</u>	<u>(236,080)</u>
Transfers to the City of Grand Haven	(1,831,462)	(1,853,665)	(1,839,516)	(1,848,929)	(1,840,400)	8,529	(884)
Increase in Net Assets	4,289,162	7,286,413	4,492,664	6,410,096	4,294,431	(2,115,665)	(198,233)
Cash Flow							
Starting on hand Including Bond Redemption Fund 3/31/25						30,128,092	
Increase in Operating Net Assets						4,294,431	
Depreciation in Increase of in Net Assets						2,300,000	
Deposits to MPIA						(800,000)	
Purchase of Capital Assets						(7,252,000)	
Bond Principal Payment Due 1/2026						(2,400,000)	
Ending						26,270,523	

**GRAND HAVEN BOARD OF LIGHT AND POWER
5 YEAR CAPITAL PLAN FY 2026-2030**

		FY25 Estimate	FY26	Revised FY26	FY27	Revised FY27	FY28	Revised FY28	FY29	Revised FY29	FY30	5 YEAR Cost
DISTRIBUTION MAINTENANCE AND OPERATIONS												
Blanket Accounts												
Pole Blanket	DB0011	85,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	125,000	625,000
Overhead Lines Blanket	DB0021	200,000	200,000	230,000	200,000	230,000	200,000	230,000	200,000	230,000	230,000	1,150,000
Underground Lines Blanket	DB0041	261,000	130,000	150,000	130,000	150,000	130,000	150,000	130,000	130,000	130,000	710,000
Transformers Blanket	DB0051	400,000	200,000	300,000	200,000	300,000	200,000	300,000	200,000	300,000	300,000	1,500,000
New Services Blanket	DB0061	70,000	70,000	70,000	70,000	70,000	70,000	70,000	75,000	75,000	75,000	360,000
New Metering Blanket	DB0071	41,000	42,500	50,000	42,500	50,000	45,000	50,000	45,000	50,000	50,000	250,000
New Street Lights Blanket	DB0081	50,000	20,000	50,000	25,000	25,000	25,000	30,000	25,000	30,000	30,000	165,000
City Road Upgrades Blanket	DB0101	-	80,000	40,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	360,000
<i>Smith's Bridge Rebuild</i>				150,000		25,000						175,000
Vehicle Replacement	DVXXXX		660,000		780,000		480,000	540,000	545,000	545,000	485,000	1,570,000
<i>Puller</i>	D01010	24,400										-
<i>Tree Bucket</i>	DV2501	233,278										-
<i>Tree Chipper</i>	DV2510	59,000										-
<i>Dump Trailer</i>	DV2502	12,284										-
<i>Line Bucket</i>	DV2600			360,000								360,000
<i>Service Bucket</i>	DV2610			275,000								275,000
<i>Digger Derrick</i>						350,000						350,000
<i>Pickup Replacements</i>	DV2620			55,000		55,000						110,000
<i>Dump Truck</i>						125,000						125,000
<i>HD Pickup</i>						65,000						65,000
												-
Overhead Circuit Reconductor/Rebuild			1,450,000		1,850,000		2,450,000		2,500,000	2,000,000	3,000,000	5,000,000
<i>Ckt 13 & 14(Beechtree) & Marion Ave Rebuild</i>	D00750	500,000		1,240,000								1,240,000
<i>Ckt 41 Hospital Feed</i>	D00500	200,000		765,000								765,000
<i>West Spring Lake Rd (Williams to 168th)</i>	D00510	60,000		275,000								275,000
<i>Beechtree/Waverly Area</i>	D00400	70,000				950,000	950,000					1,900,000
<i>Grand Avenue Rebuild</i>	D02035					850,000						850,000
<i>Ckt 21 & 22 Rebuild</i>	D02025					1,400,000	1,400,000					2,800,000
<i>OH Pole Replacement/BlueJ&Elliott Subs</i>	D02110	28,068										-
<i>16215 Harbor Point Pole Relocation</i>	D02220	980										-
												-
Undergrounding Circuit Reconductor/Rebuild			975,000		1,000,000		500,000		825,000	280,000	400,000	680,000
<i>Harbor Drive URD</i>	D02100	610,000	500,000	652,000								652,000
<i>Ohio & Ferry Apts URD</i>	D02055	35,000										-
<i>Pine Island & Taft Cable URD</i>	D02065			55,000								55,000
<i>Osner/Johnson URD</i>	D02075	25,000		35,000								35,000
<i>River Haven Cable URD</i>	D02085						875,000		875,000			1,750,000
<i>Underground Cable Replacement</i>						40,000	150,000		220,000			410,000
Substation Upgrades												-
<i>Morford Sub Line Relaying Upgrade</i>	D00841	58,000										-
												-
Service Area Expansion		20,000	100,000	100,000	100,000	100,000	100,000	100,000	125,000	100,000	100,000	500,000
<i>UG Service North Shore Marina</i>	D02090	11,541										-
<i>Cottage Shores Development</i>		5,000										-
<i>172nd Expansion</i>		10,000										-
Misc Items												-
<i>OMS Texting</i>	D03000	14,800										-
<i>Locator and Clamps</i>	D03020	15,841		17,000								17,000
<i>Cap Banks</i>			15,000									-
<i>Metronet make Ready-Will be reimbursed</i>	D02210	39,500										-
												-
SUBTOTAL		3,139,692	4,567,500	4,994,000	4,602,500	4,990,000	4,405,000	5,050,000	4,875,000	5,040,000	5,005,000	25,079,000
ADMINISTRATION/FACILITIES												
Admin Facility	A00400	60,000	600,000	2,200,000								2,200,000
East HVAC	AM2501	30,000										-
Misc. Admin-Furniture			35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	175,000
SUBTOTAL		90,000	635,000	2,235,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	2,375,000
TECHNOLOGY												
Technology Upgrades	A00320				10,000	5,000	10,000	10,000	10,000	10,000	10,000	35,000
Substation Backup Network	A00330	68,000										-
Network Backup System												-
Host Server Replacement												-
Printers Replacement			10,000	13,000								13,000
San Storage												-
Microsoft Windows Server Upgrades							12,000	12,000	13,000	13,000	13,000	38,000
Network Infrastructure					10,000	25,000	10,000	10,000	10,000	10,000	10,000	55,000
Wi-Fi Upgrades			5,000	10,000								10,000
Firewall			25,000									-
SUBTOTAL		68,000	40,000	23,000	20,000	30,000	32,000	32,000	33,000	33,000	33,000	151,000
TOTAL CAPITAL		\$ 3,297,692	\$ 5,242,500	\$ 7,252,000	\$ 4,657,500	\$ 5,055,000	\$ 4,472,000	\$ 5,117,000	\$ 4,943,000	\$ 5,108,000	\$ 5,073,000	\$ 27,605,000

27,605,000