



April 23, 2026
Zeeland Board of Public Works



AGENDA

- INTRODUCTIONS
- OUR BOARD OF COMMISSIONERS
- DEPARTMENT OVERVIEW
- WATER DISTRIBUTION
- ELECTRIC TRANSMISSION & DISTRIBUTION
- POWER PRODUCTION
- ANNOUNCEMENTS FOR APRIL 29 SESSION
- BUCKET TRUCK DEMO / POWER PLANT TOUR / WATER DEPT. DEMO



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OUR COMMISSIONERS



Linda Boerman
Chair
2028



Mark Cooney
Vice Chair
2030



Ann Query
2027



Jon Walters
2030
(reappointed
April 2026)



Mike VanAst
2029

5-year terms ending June 30



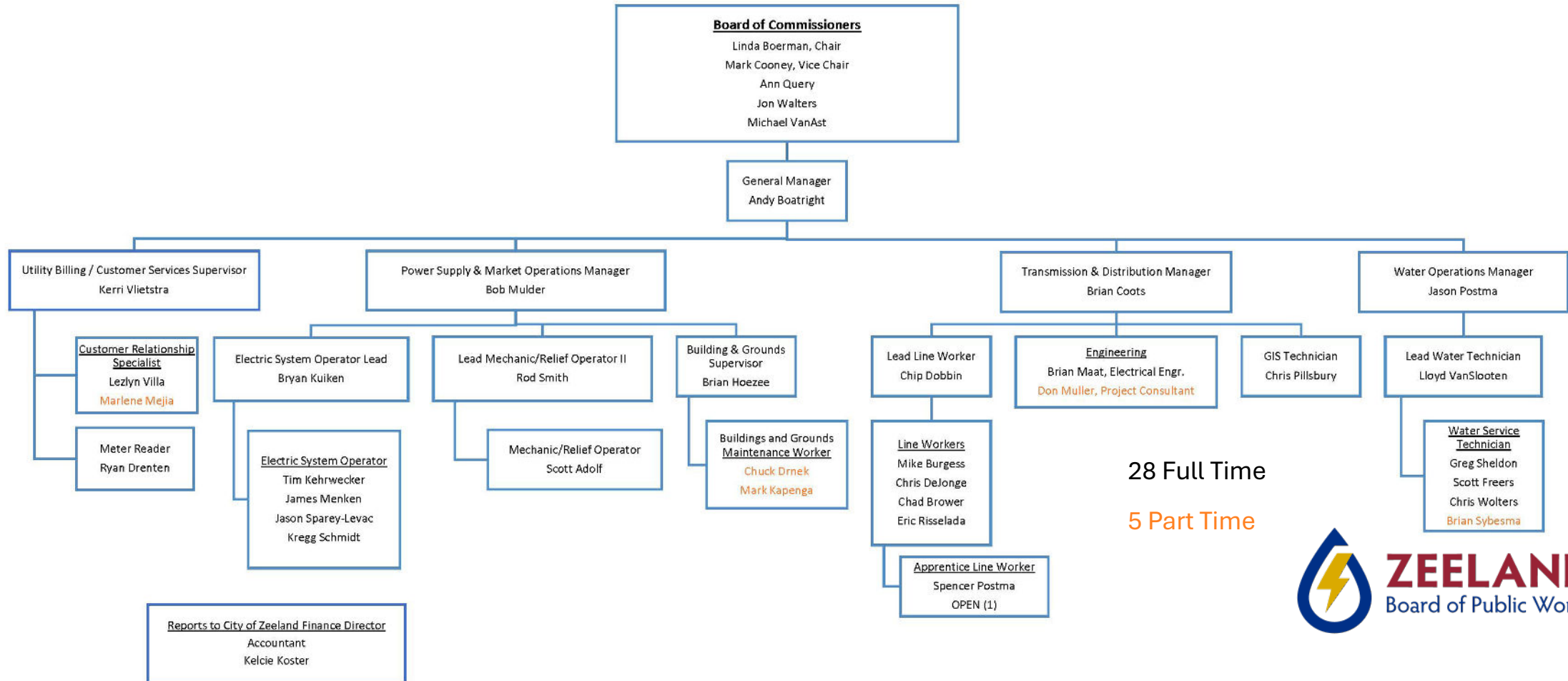


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ORG CHART



ZBPW WATER SERVICE TERRITORY

Holland
Charter Twp.

Zeeland
Charter Twp.

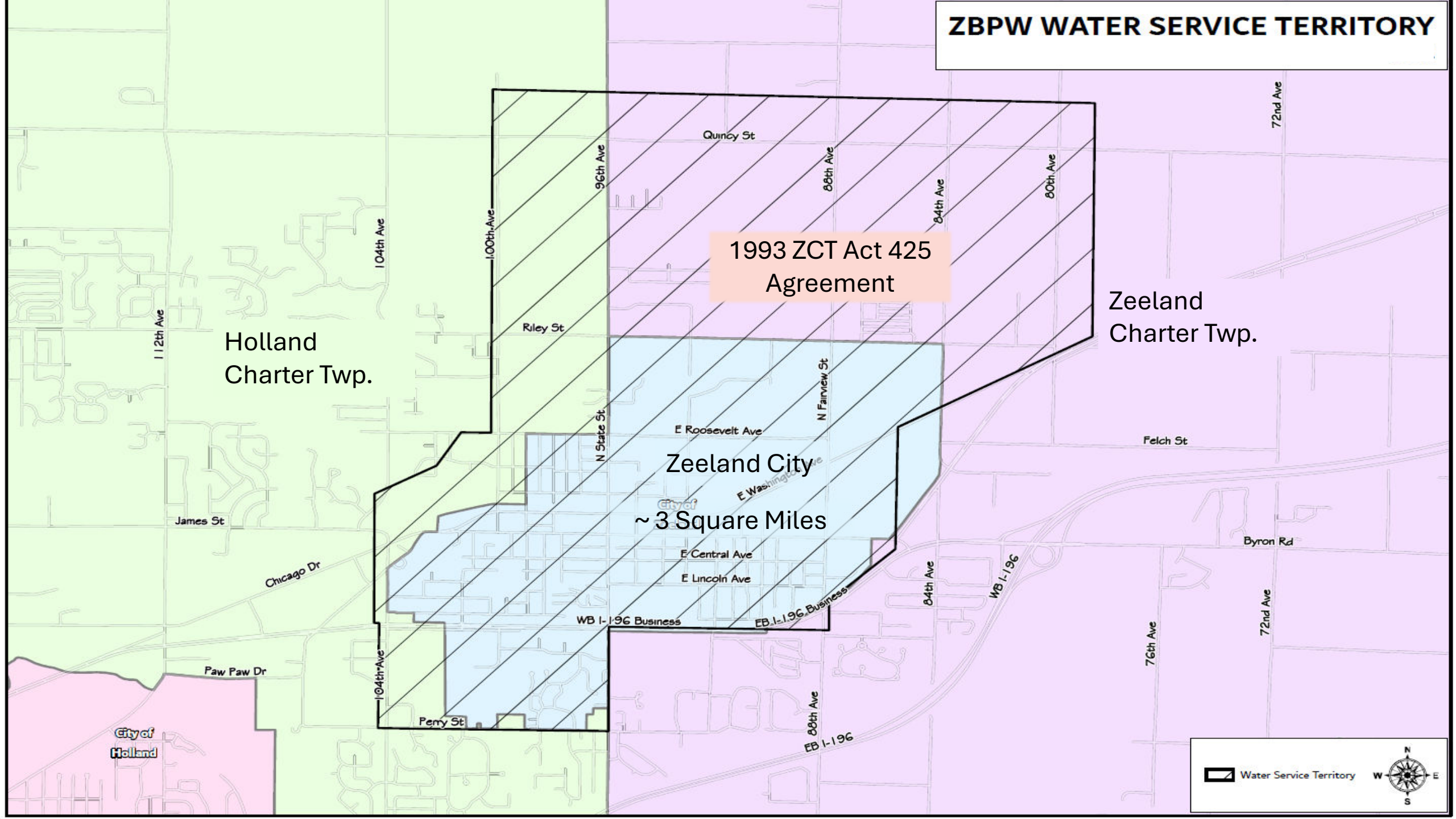
1993 ZCT Act 425
Agreement

Zeeland City
~ 3 Square Miles

Water Service Territory



A legend in the bottom right corner shows a black-outlined rectangle with diagonal hatching, labeled "Water Service Territory". To its right is a north arrow with "N" at the top, "S" at the bottom, "W" on the left, and "E" on the right.





WATER

- Number of Customers: 3,300*
- Customer Classification Breakdown*

	# of Customers / Accounts	Sales
Residential	73 %	8 %
Commercial	15 %	7 %
Industrial	12 %**	85 %

* 2025 data

** Includes fire protection services



ZBPW ELECTRIC SERVICE TERRITORY

Holland Charter Twp.

Zeeland Charter Twp.

Zeeland City

~ 25 Square Miles

Legend:  Electric Service Territory





ELECTRIC

- Number of Customers: 7,117*
- Customer Classification Breakdown*:

	# of Customers / Accounts	Sales
Residential	85 %	11 %
Commercial	13 %**	12 %
Industrial	2 %	77%

* 2025 data

** Includes public buildings, streetlights, and flat rate accounts





WATER

Annual Water Sold (Million Gal.):	2,104*
Peak Usage (Million Gal. / Day):	12.29 (June 24, 2025)
Avg. Retail Rate (per 1,000 Gal.):	\$2.23
Annual Revenues:	\$5.5 Million*
Annual Expenses:	\$5.3 Million*

The Water Enterprise is Debt-Free



* 2025 data



ELECTRIC

Annual Megawatt-hours Sold:	447,122*
System Peak (Megawatts):	91.7 (June 24, 2025, HE 2PM)
Avg. Retail Rate (per Kilowatt-hour):	\$0.084
Annual Revenues:	\$38.2 Million*
Annual Expenses:	\$36.9 Million*
Annual Transfer to City of Zeeland:	\$645,473*
The Electric Enterprise is Debt-Free	

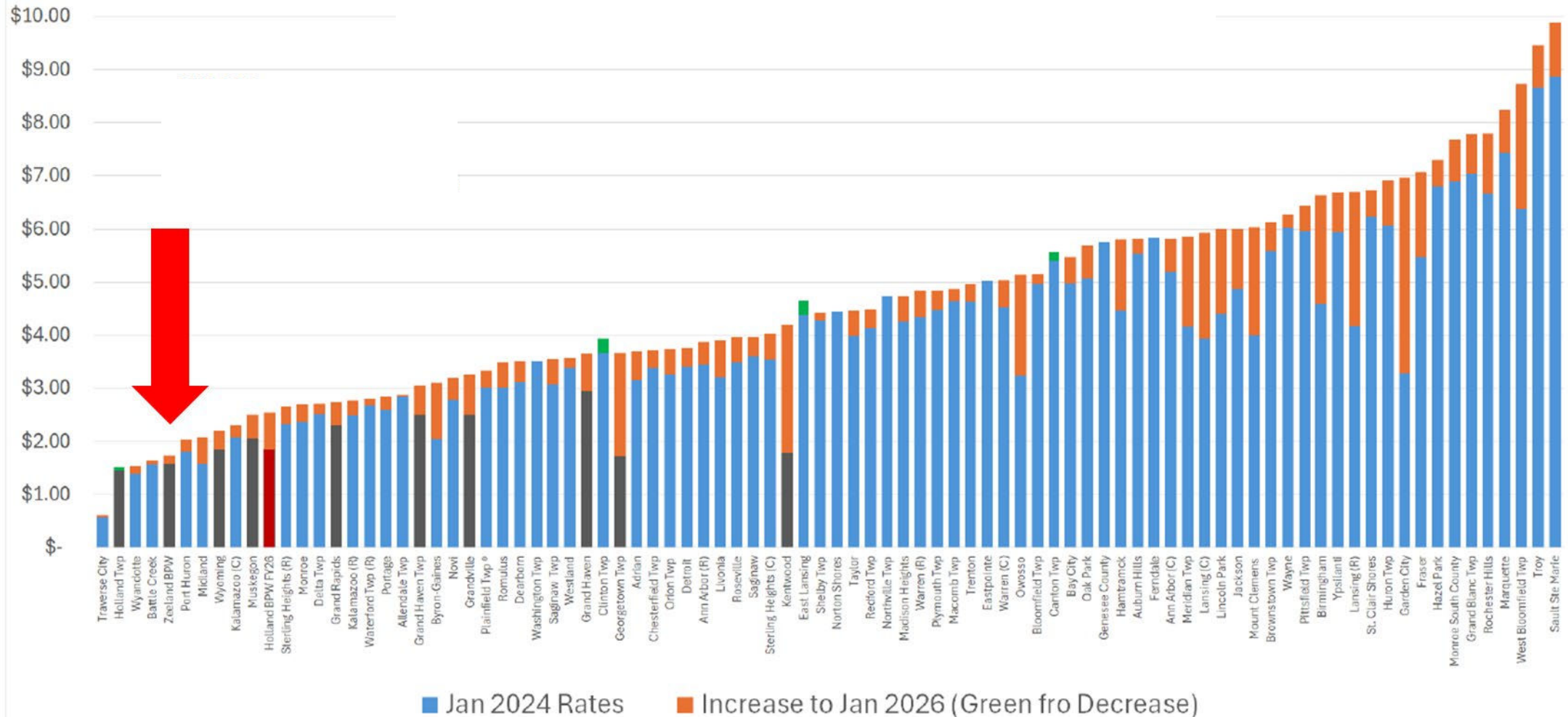


* 2025 data



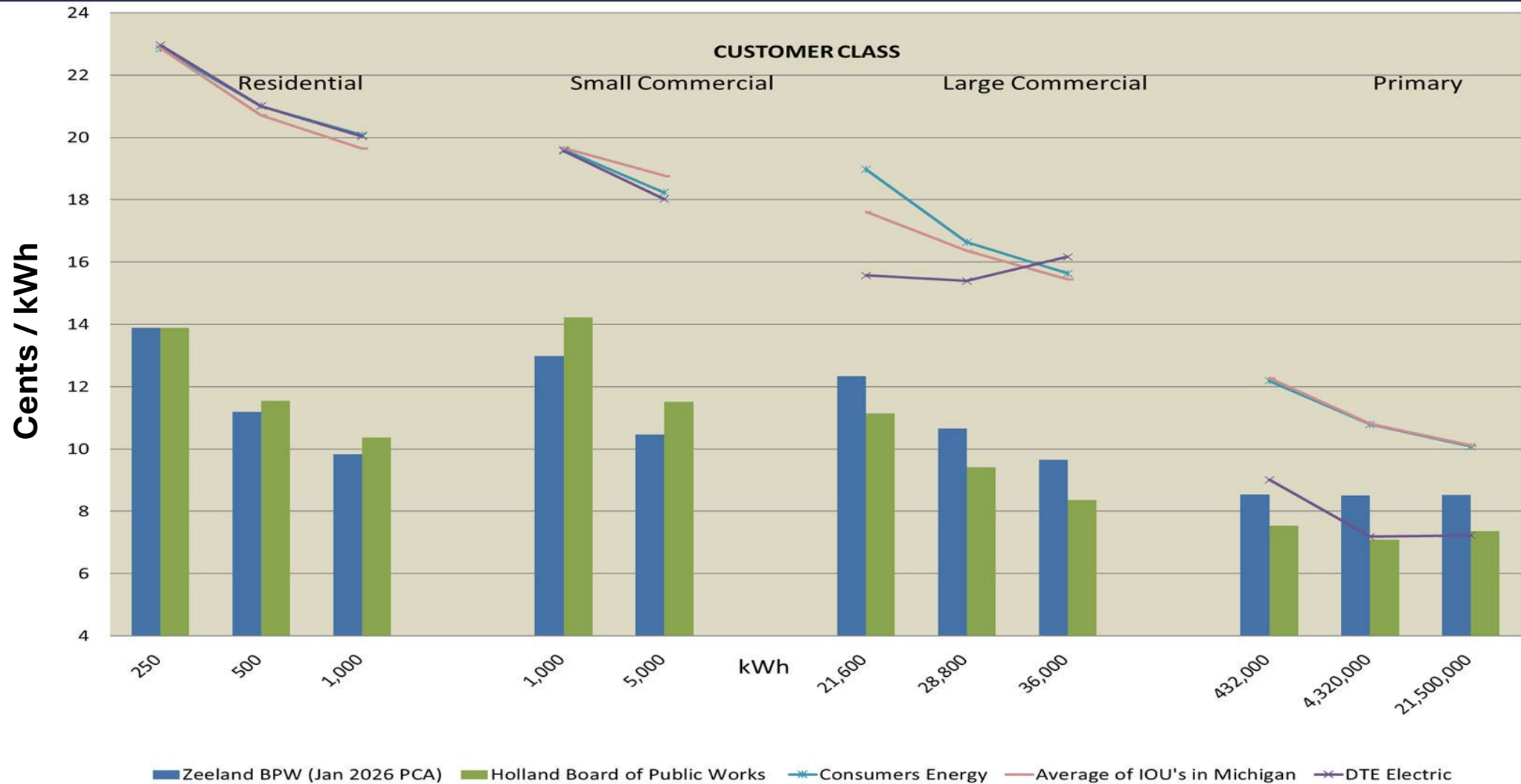
WATER RATES

FY 2025 Average Summer Water Bill – 5/8” (11 CCF)





ELECTRIC RATES





WATER TOP TEN*

Name	Description	Million Gallons	Percent of Total Water
Consumer's Energy - ZGS	Electricity Generation	852.314	40.51%
Reckitt	Infant Formula	557.769	26.51%
Gentex Corporation	Automotive & Glass Parts	314.913	14.97%
Plascore, Inc.	Structural Honeycomb Products	26.503	1.26%
Millerknoll	Institutional Furniture	25.472	1.21%
Aurorium	Chemicals	22.836	1.09%
Royal Park Condos	Condominiums	17.362	0.83%
City of Zeeland	Local Municipality	16.827	0.80%
ITW Drawform	Stamping Operations	12.616	0.60%
Zeeland Public Schools	Education	9.985	0.47%
		1,856.597	88.25%

* 2025 data





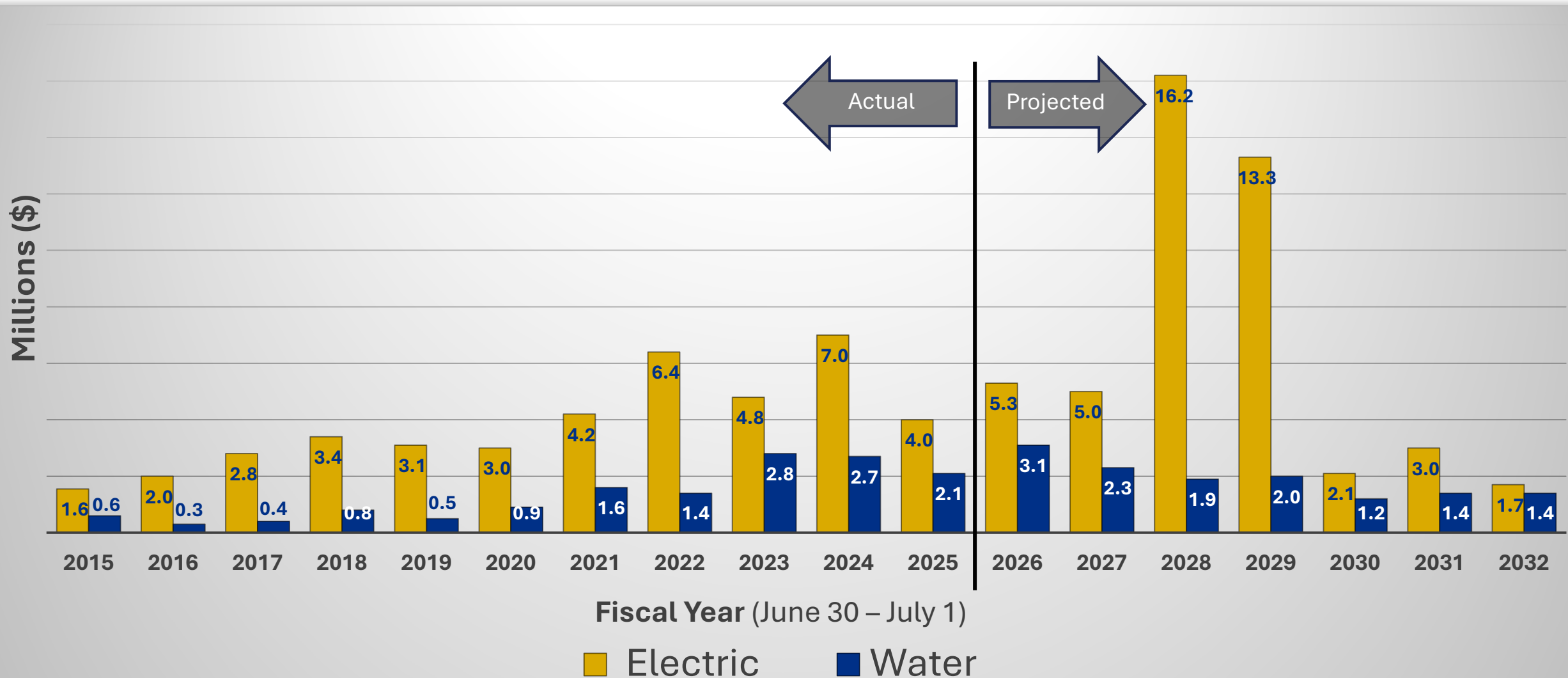
ELECTRIC TOP TEN*

Name	Description	MWH	Percent of Total MWH
Gentex Corporation	Automotive & Glass Parts	180,329.978	40.33%
Reckitt	Infant Formula	49,467.600	11.06%
Millerknoll	Institutional Furniture	26,816.069	6.00%
Plascore, Inc.	Structural Honeycomb Products	14,725.680	3.29%
Zeeland Public Schools	Education	11,990.059	2.68%
Aurorium	Chemicals	8,012.887	1.79%
ITW Drawform	Stamping Operations	7,999.200	1.79%
Woodward FST	Aerospace Fuel System Parts	7,798.300	1.74%
Stone Plastics	Plastic Thermoformers	6,962.400	1.56%
Spectrum Health Hospitals	Health Care	6,054.713	1.35%
		320,156.886	71.60%

*2025 data



10-Year Capital Acquisitions/Construction





VISION-ALIGNED IMPACT

"... a key contributor to the community's quality of life and long-term success."

Programs

- Holiday Power Dollars
- Numerous Sponsorships
- Community Grant Program
- Energy Efficiency Incentives
- EV Charger Rebates

Initiatives

- Power Supply Portfolio Strategic Planning
- On-System Generation Expansion
- Office Remodel / Expansion
- Water Conservation
- Demand Response Program (Voltus)





WATER AWARDS



2024 Professional Excellence – Organization Award



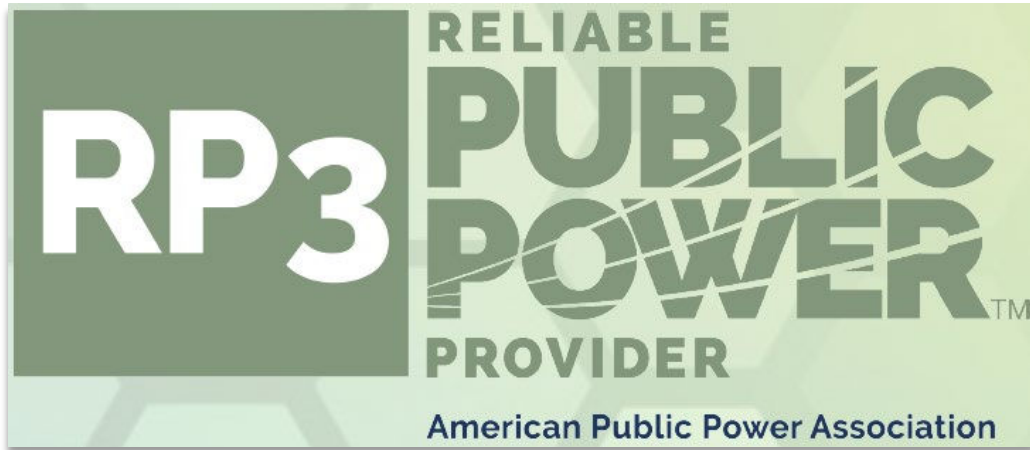
2024 Professional Excellence – Individual Award
Chris Pillsbury, GIS Technician



2025 Water Utility of the Year



ELECTRIC NATIONAL RECOGNITION



**SMART
ENERGY
PROVIDER**

American Public Power Association



WHAT IS PUBLIC POWER?

A Public Power Utility...

- ✓ Brings electricity to homes and businesses
- ✓ May generate and/or buy power
- ✓ Is a not-for-profit entity
- ✓ Is owned by the community
- ✓ Is usually a division of local government
- ✓ Is transparent (subject to sunshine laws)
- ✓ Involves citizens in decision-making



THREE TYPES OF ELECTRIC UTILITIES



PUBLIC POWER UTILITIES



RURAL ELECTRIC COOPERATIVES



INVESTOR-OWNED UTILITIES

BUSINESS MODEL:

Not for profit, **community**-owned

Not for profit, **member**-owned

For profit, **shareholder**-owned

FERC JURISDICTION:

Only for interstate transmission

Only for interstate transmission

For wholesale rates

**REGULATED BY
STATE PUBLIC
UTILITY COMMISSION:**

Very limited instances

Some

All

GOVERNED BY:

Elected/appointed boards –
mayors, city council members,
citizens

Member-elected boards

Private boards



ELECTRICITY CUSTOMERS SERVED BY...



PUBLIC POWER UTILITIES



INVESTOR-OWNED UTILITIES

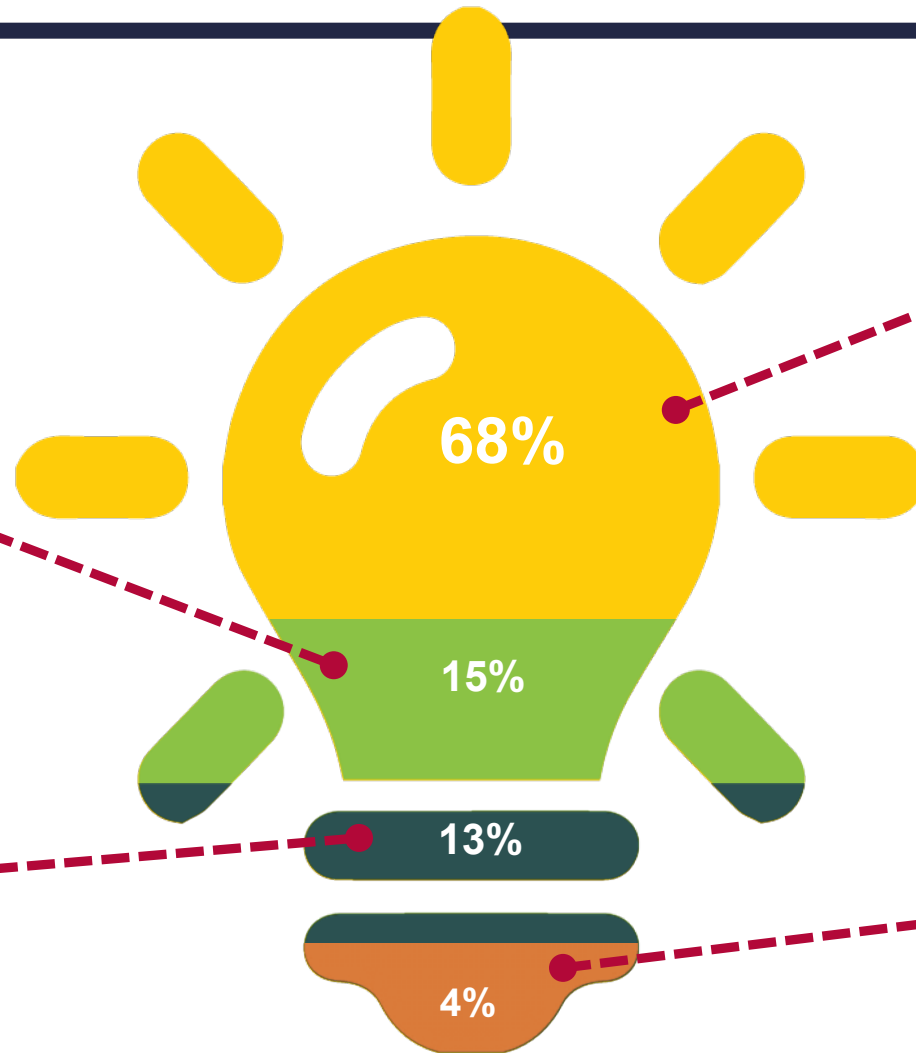


RURAL ELECTRIC COOPERATIVES

(MOSTLY IN TEXAS)



POWER MARKETERS



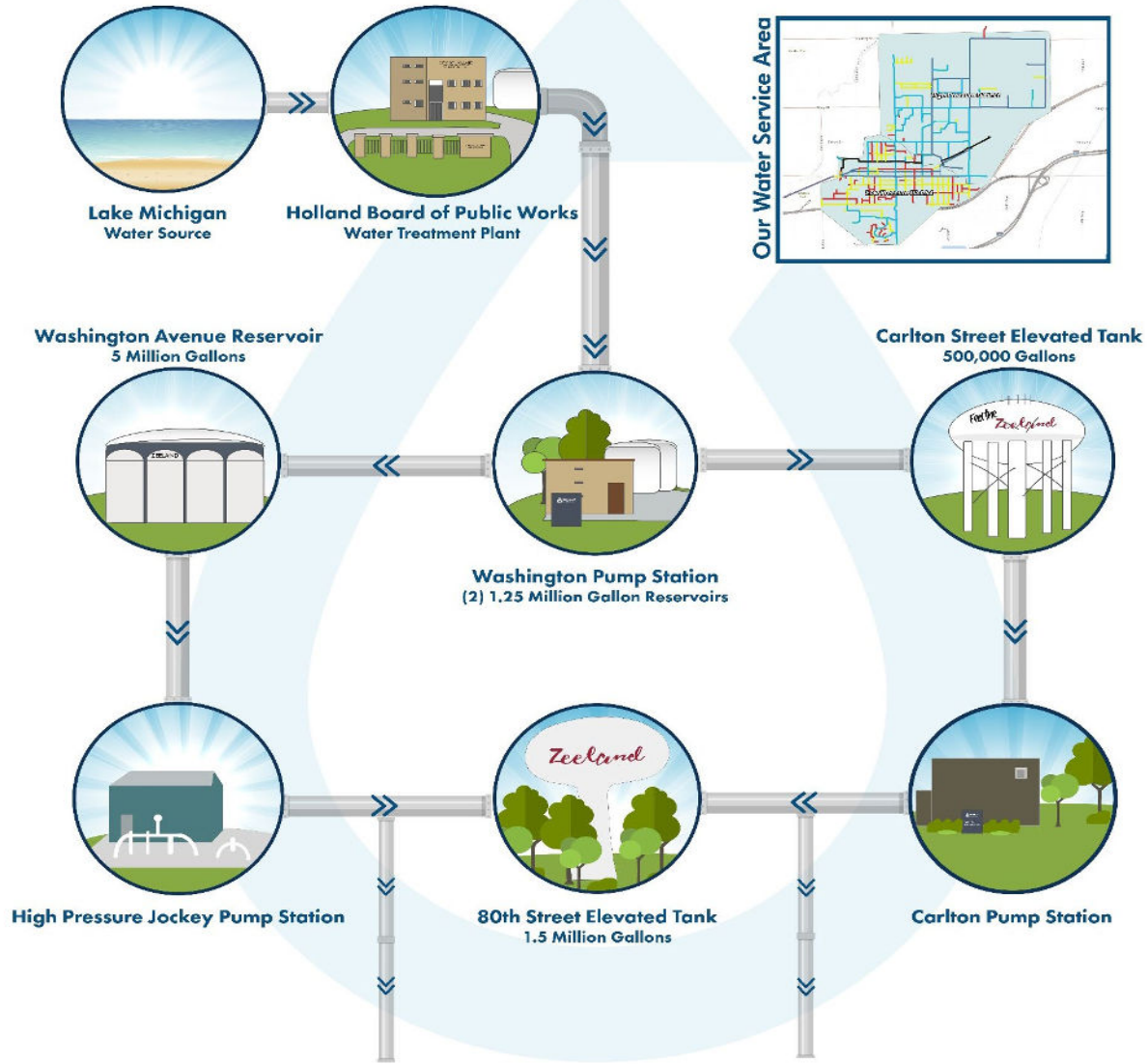


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WATER DISTRIBUTION SYSTEM



Quality water delivered to you.





WATER MAJOR INITIATIVES

- Advanced Metering
- Galvanized Service Line Replacements
- Other Capital Projects





WATER MAJOR INITIATIVES

The screenshot displays the 'myBPW' web portal interface. At the top left is the 'myBPW' logo, and at the top right is the 'ZEELAND Board of Public Works' logo. The browser address bar shows 'my.zeelandbpw.com/customer/water-smart-meters'. The page title is 'AMI Meters' with a sub-header 'Overview of all ami meters available for the water service'. A sidebar on the left contains navigation links: Home, Services, Financials, Profile, AMI Meters, Water, Electric, Help & FAQ, Contact Us, and Sign out. The main content area includes:

- Account Information:** Account: 10001758 / Andrew Boaright / 127 S Woodland St. Meter: SA91081397.
- Last 7 Days:** An average of a week. 0.2 CCF/day. 0% compared to previous 7 days. Comparison bars for Previous and Current are both at 0.2.
- Monthly Estimated Usage:** An average of a month. 0.17 CCF/day. 0% compared to last month. Comparison bars for Mar and Apr are both at 0.17.
- Monthly Usage Comparison (CCF):** A yearly comparison among months. A bar chart showing usage from May to April, with 'Previous' in grey and 'Current' in blue.
- Your Meter:** Meter Number: SA91081397, Device: 91081397-CUBIC_FEET, Last Meter Read: 554.09, Meter Read Date & Time: Apr-10-2026 11:00.
- Continuous Water Consumption Event Alert Settings:** Current Threshold: 0.025 CCF/h for last 24h. Alert Notification: Manage.
- High Water Consumption Event Settings:** Current Threshold: 0.25 CCF During Last Day. Alert Notification: Manage.
- Water Interval Profile:** Date Range: 04/05/2026 - 04/10/2026. Interval: Show hourly data. A dual-axis chart showing Consumption (CCF) as blue bars and Temperature (°F) as a grey line.

At the bottom left, there is a 'Download my data' link. At the bottom right, there is a 'Select Language' dropdown.

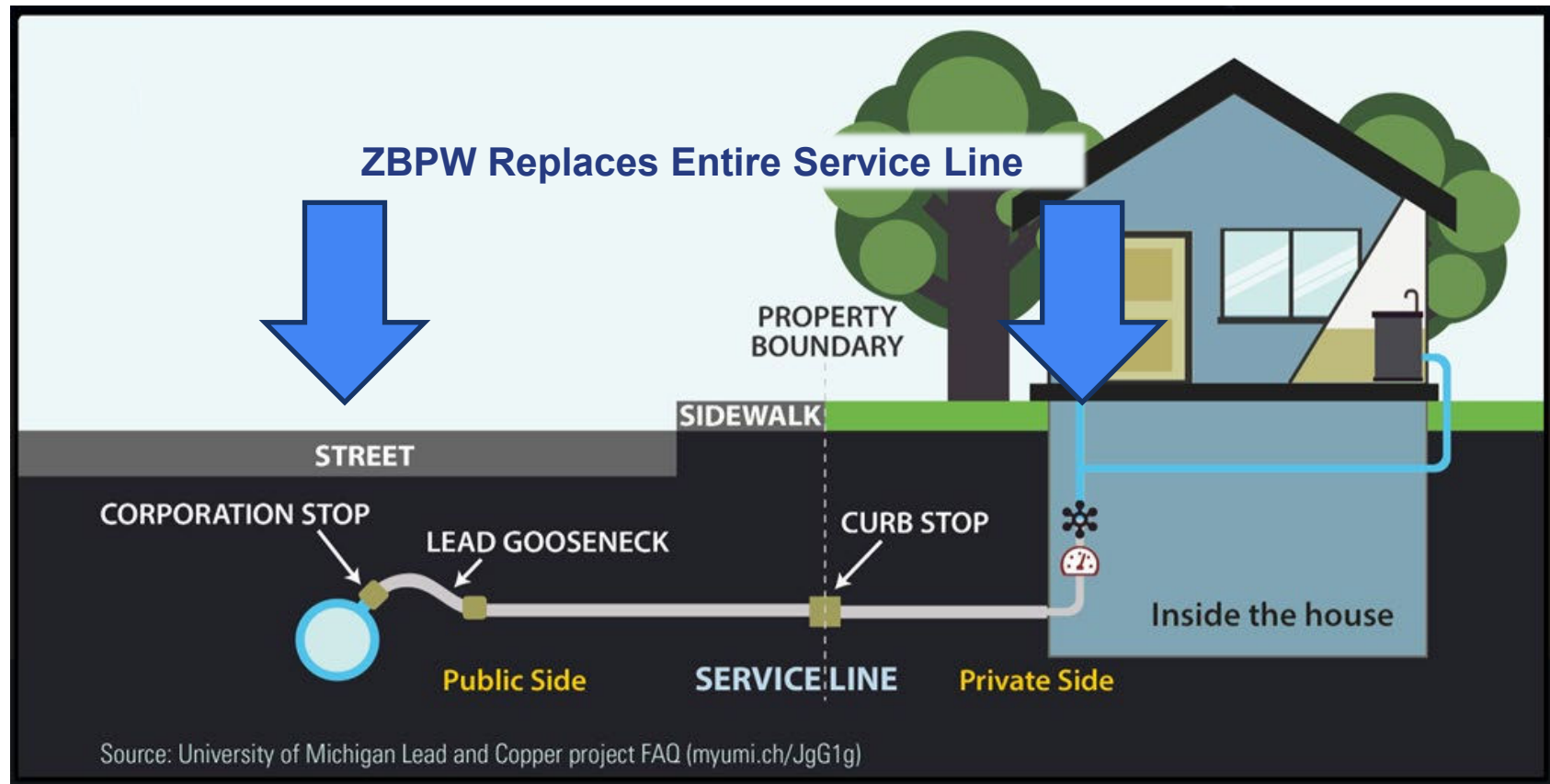
Advanced Metering





WATER MAJOR INITIATIVES

- Galvanized Service Line Replacements





WATER MAJOR INITIATIVES

- Galvanized Service Line Replacements

Total Replacements System-Wide: 978

GSLRs Replaced To-Date: 730 (since 2018 start)

Projected Completion Date: 12/31/2026

The Water Enterprise is Debt-Free



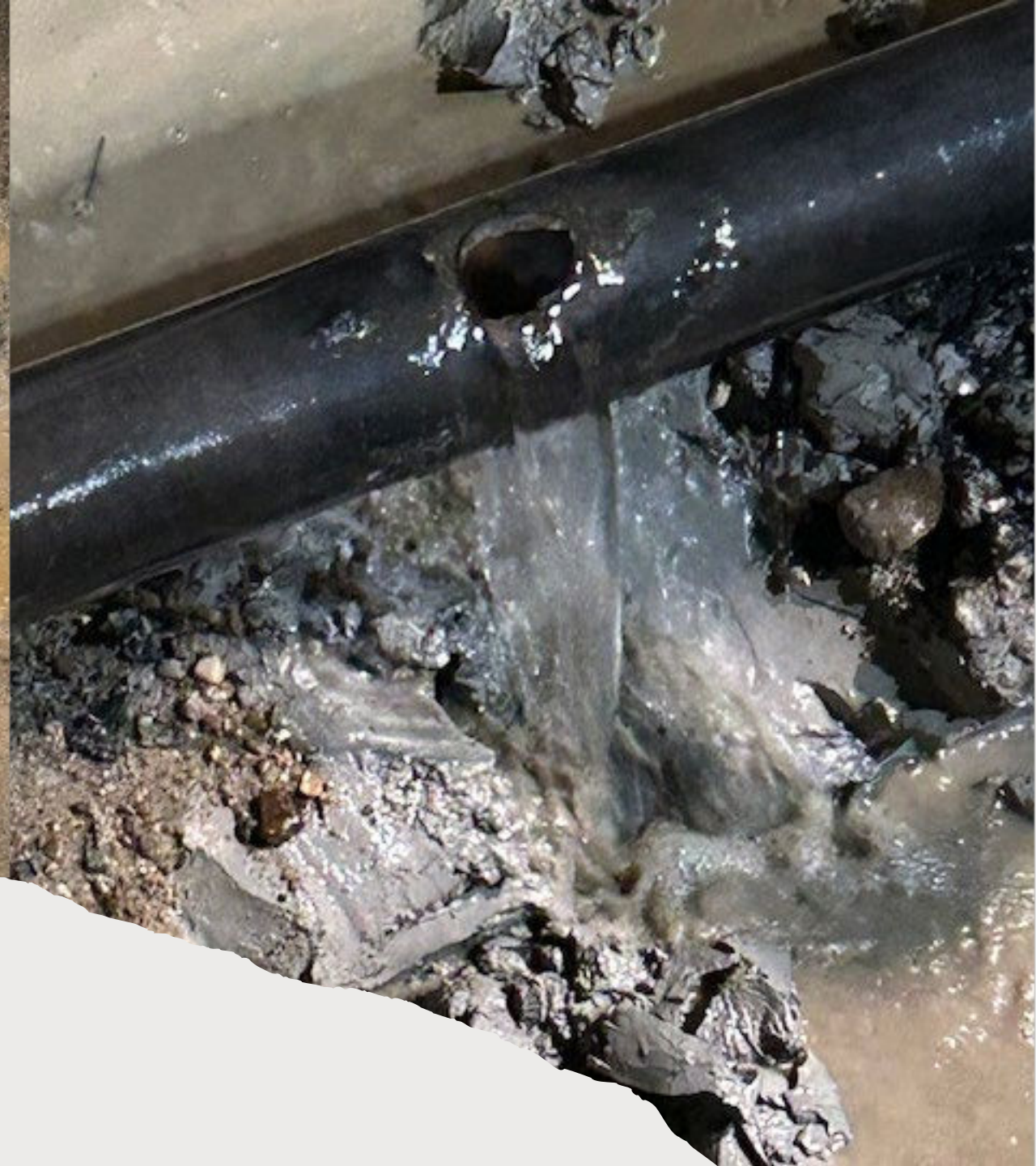


Washington Pump Station





5 Million Gallon Ground Storage



Water Main Repair

Taft Street – September 10, 2024



Coming Soon!



Water Conservation Program



Leak Detection Through AMI Metering



Best Practices for Usage Reduction



Community Partnership



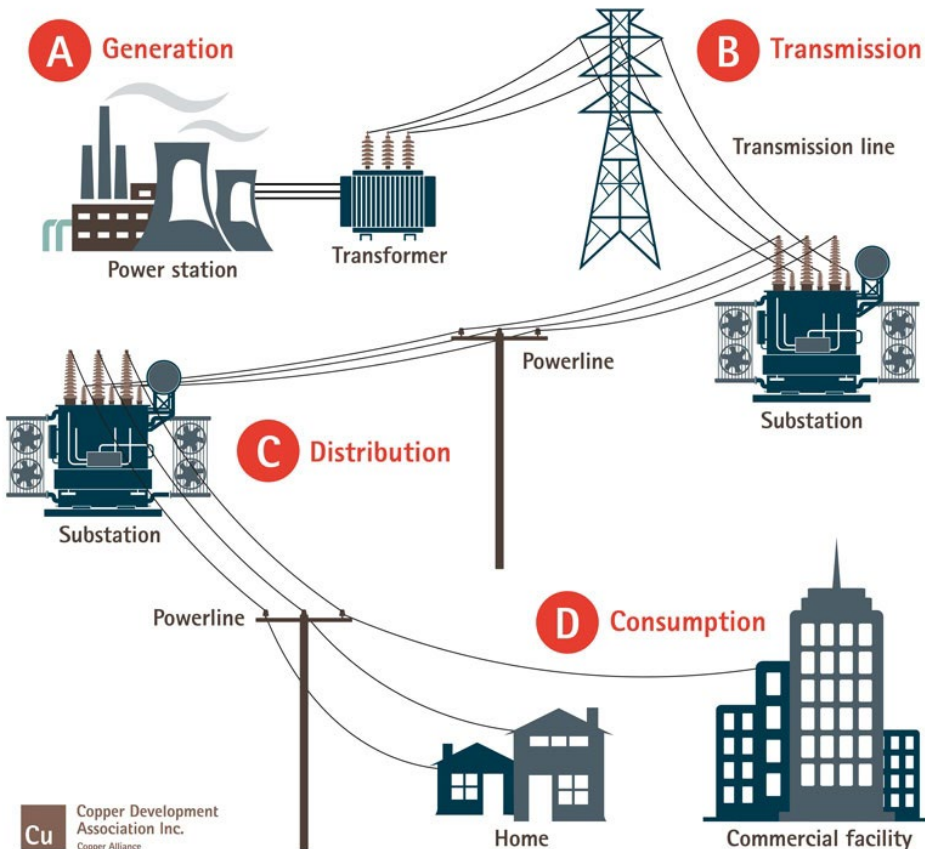


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ELECTRIC FACILITIES



- **Generation** – Own and operate roughly 36MW between three facilities all tied to our distribution system.
- **Transmission** – Feeds into our system from both ITC & Wolverine at the 138kV level.
- **Distribution** – Currently supplying thirty (30) 12.47kV distribution circuits throughout ZBPW service territory.
- **Consumption** – Coincident Peak (93.5MW 2025)



ELECTRIC RELIABILITY

		2019	2020	2021	2022	2023	2024	2025
ALL	SAIDI	27.07	66.86	3.80	1.99	33.43	5.04	25.15
	SAIFI	0.89	0.69	0.11	0.01	0.26	0.13	0.26
	CAIDI	30.48	96.34	34.85	181.27	127.30	38.79	95.10
No ME	SAIDI	27.07	37.64	3.80	1.99	13.49	5.04	25.15
	SAIFI	0.89	0.65	0.11	0.01	0.14	0.13	0.26
	CAIDI	30.48	57.56	34.85	181.27	94.84	38.79	95.10
Zeeland BPW EIA Reliability Data								

- **SAIDI** - average duration (in minutes) of an interruption per customer served by the utility
- **SAIFI** - average instances a customer on the utility system will experience a sustained interruption
- **CAIDI** - average duration (in minutes) of an interruption experienced by customers

		2019	2020	2021	2022	2023	2024	2025
ALL	SAIDI	257.09	410.68	436.58	317.43	315.84	356.97	N/A
	SAIFI	1.59	1.61	1.65	1.70	1.14	1.47	N/A
	CAIDI	147.50	194.04	191.01	156.00	242.60	231.28	N/A
No ME	SAIDI	135.77	136.91	131.61	144.64	113.85	131.67	N/A
	SAIFI	1.23	1.22	1.17	1.27	0.81	0.97	N/A
	CAIDI	103.38	104.11	104.22	105.15	129.81	124.32	N/A
Michigan Utilities EIA Reliability Data								





ELECTRIC RELIABILITY

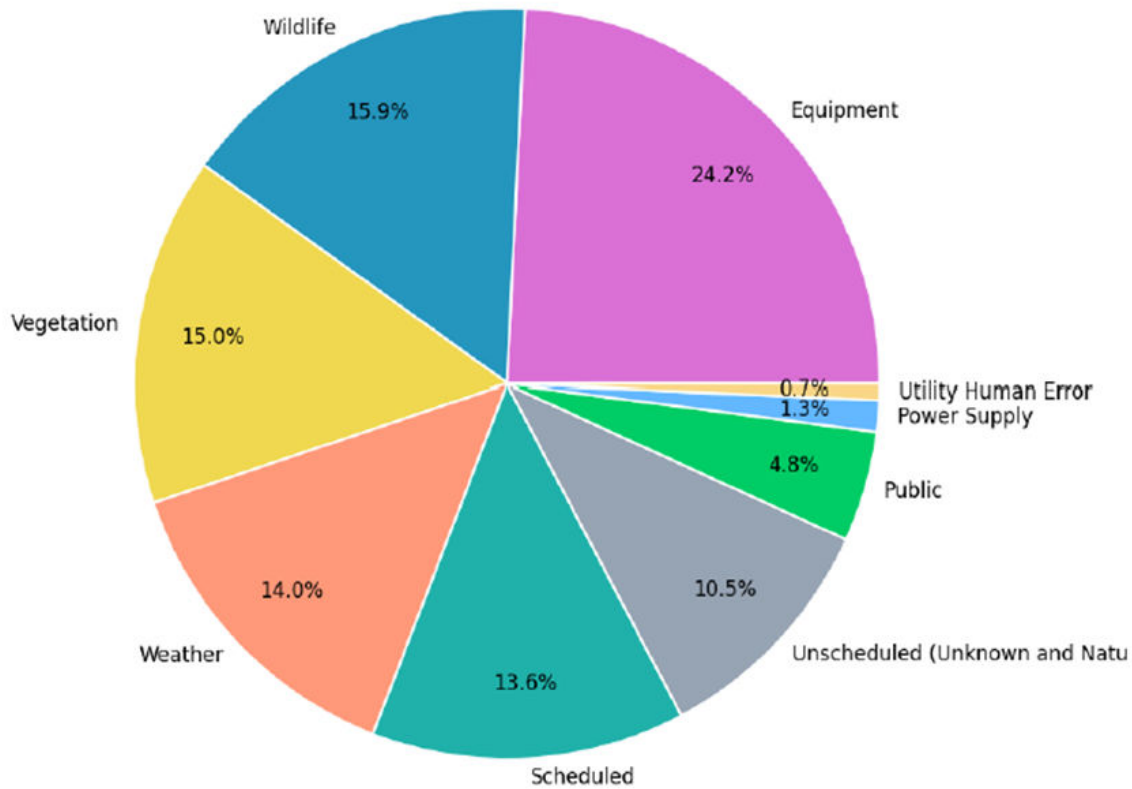


Figure 9. Top five causes of sustained outages for all utilities that use the PowerTRX Reliability^[3]

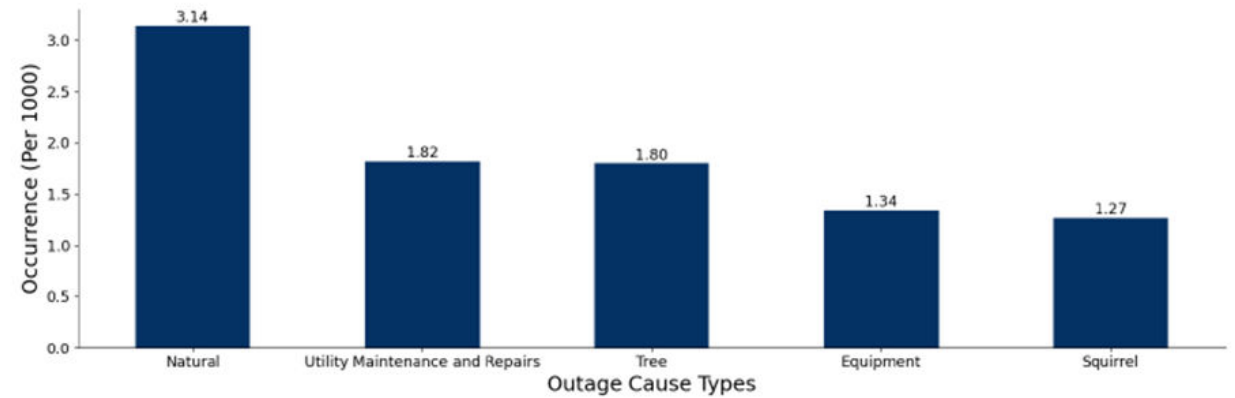
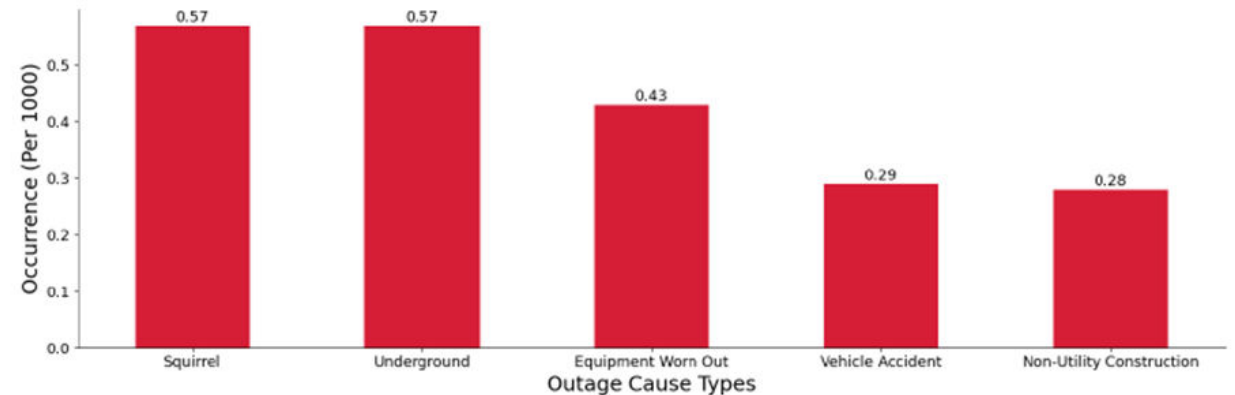


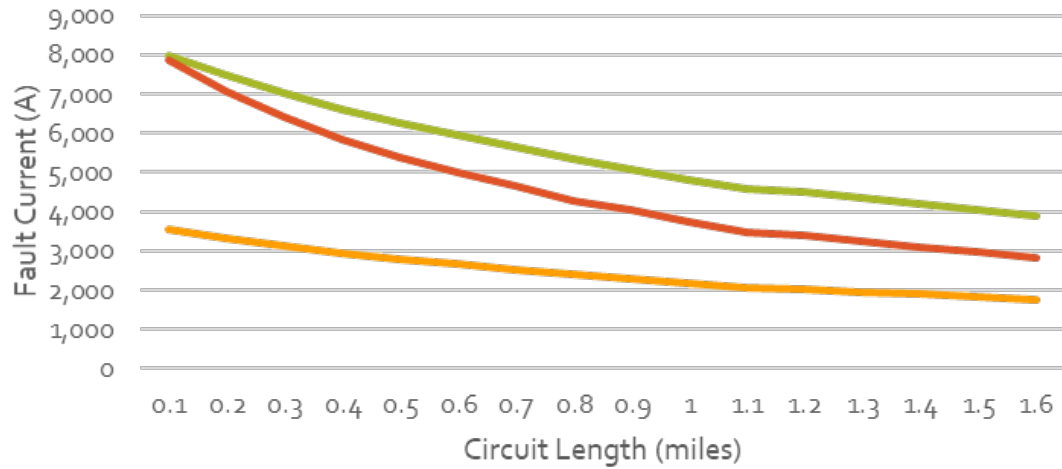
Figure 10. Top five causes of sustained outages for your utility^[4]



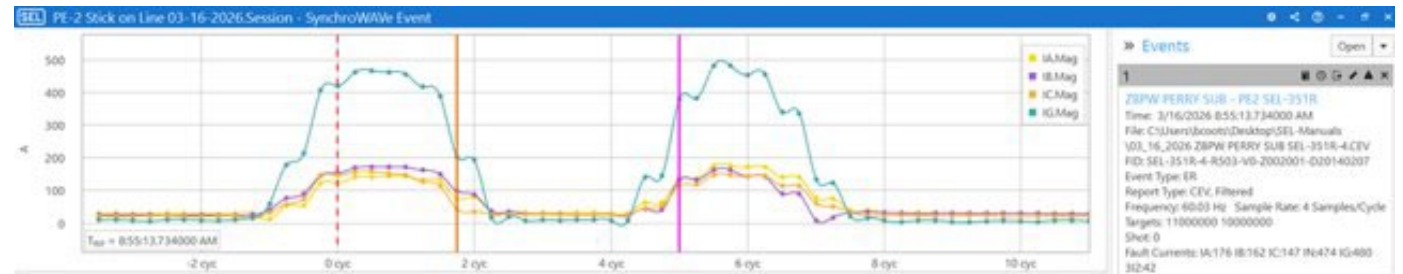
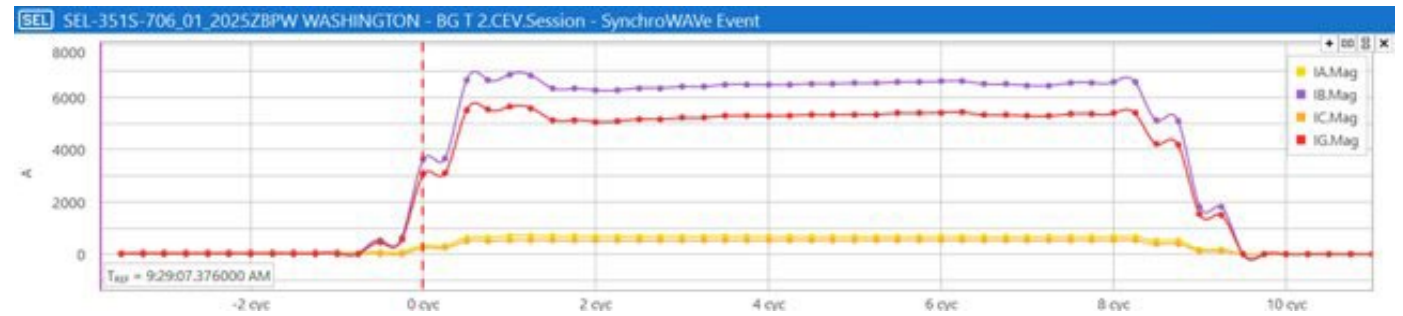
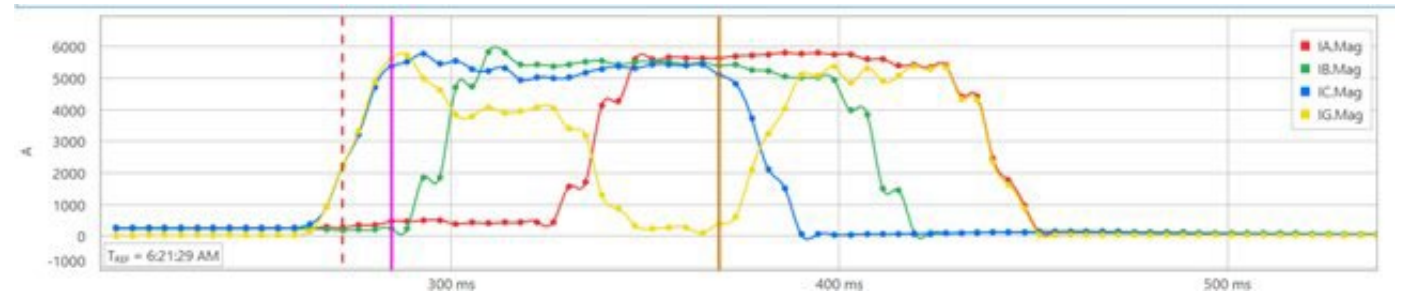


ELECTRIC RELIABILITY

Feeder Fault Current Map



— 3ph — L-G — L-L-G


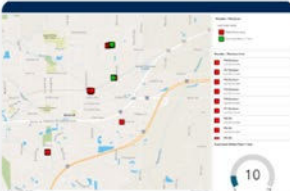
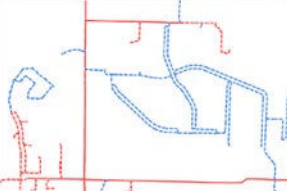


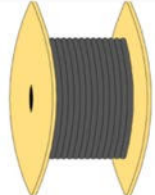

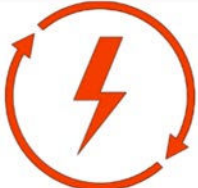




ELECTRIC RELIABILITY

 Electric T&D Maps & Applications


[GIS Home](#) [BPW Electric](#) [BPW Water](#) [Clean Water Plant](#) [Streets Garage](#)

 Animal Guarding Explore	 Breaker Exercising Explore	 Circuit Map Explore	 Circuit Map 2.0 Explore
 Conductor Age Map Explore	 Conductor Footage Statistics Explore	 Electric Meters Explore	 Electric T&D Map Explore

8:47 LTE 98

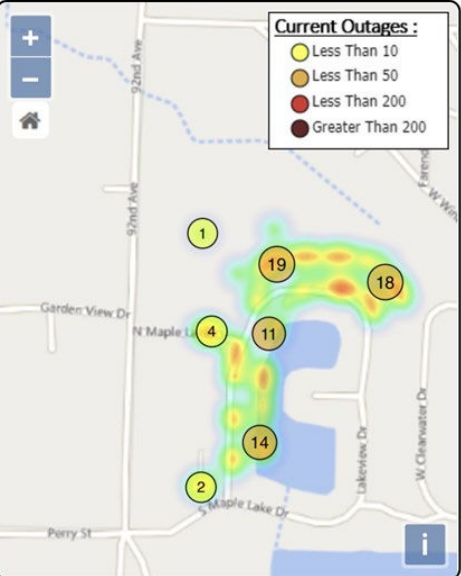
Current Outages: 70

[Report an Outage Online](#) or call (616)772-6212

ZEELAND Board of Public Works  **ZEELAND** Board of Public Works

Current Outages :

- Less Than 10
- Less Than 50
- Less Than 200
- Greater Than 200



Map Will refresh in 15 seconds.

ext.zeelandbpw.com



DISTRIBUTION SYSTEM - RESTORATION





DISTRIBUTION SYSTEM - RESTORATION





DISTRIBUTION SYSTEM - RESTORATION





DISTRIBUTION SYSTEM - RESTORATION





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POWER SUPPLY 101 - OVERVIEW

Energy

- Electricity that is produced and consumed over a period of time, measured in units of kilowatt-hours (kWh) or megawatt-hours (MWh).

Capacity

- The maximum output of electricity that a generator can physically produce, typically measured in megawatts (MW).
- To meet *Resource Adequacy* requirements, utilities must own or have rights to sufficient generating capacity to meet their projected peak demand plus an established reserve margin, a value referred to as the *Planning Reserve Margin Requirement* (PRMR). Different types of resources are accredited differently based on historical performance.
- MISO requires that utilities have sufficient capacity to meet their PRMR for the current planning year. The State of Michigan requires that utilities have at least 95% of their forecasted PRMR secured four years in advance.
- Dispatchable vs. Intermittent Resources





POWER SUPPLY 101 - OVERVIEW

Renewable Energy

- Energy derived from natural sources that are replenished at a rate higher than they are consumed.

Examples: Wind, Solar, Hydroelectric, Landfill Gas, Geothermal, Biomass, Others

Energy & Capacity Procurement Models

- Owned Assets: Owned or jointly-owned assets: BPW Peaking Units, MPPA Belle-River Project
 - Load Modifying Resources (LMR's) & Behind the Meter Generation (BTMG)
- Purchase Power Agreements (PPAs)
- Bilateral Transactions
- Market Balancing Energy: Day Ahead and Real Time Markets



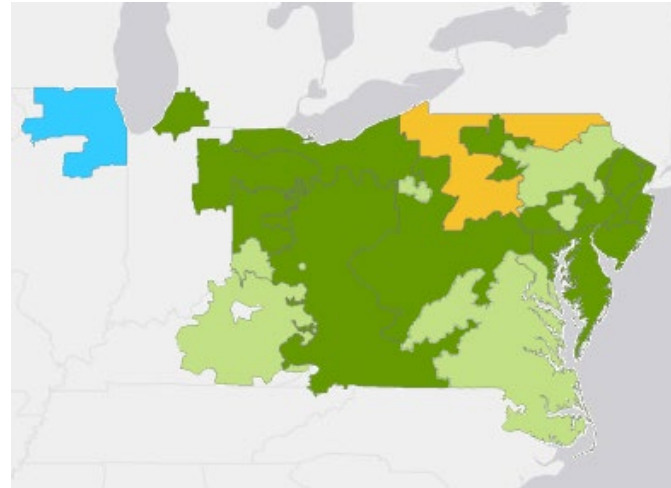
POWER SUPPLY 101 – RTO's

Regional Transmission Operators (RTOs)

- Responsible for managing the flow of electricity across multiple states
- RTOs ensure the reliability of the power supply and plan for transmission to prevent shortcomings
- RTOs also design and run energy spot markets, manage capacity markets, and oversee transmission planning
 - *MISO - Midcontinent Independent System Operator, operates in 15 states and the Canadian province of Manitoba*
 - *PJM - Operates in all or parts of 13 states and the District Of Columbia*



MISO RTO Footprint



PJM RTO Footprint



MICHIGAN PUBLIC POWER AGENCY

Michigan Public Power Agency (MPPA): A Joint Action Agency (JAA)

- Founded in 1978, MPPA is a not-for-profit project based joint action agency
- Works collectively with municipally-owned utilities
- Comprised of 22 Members and 6 Associate Members, accounting for 80% of the public power electric load in the State of Michigan.
 - Over 275,000 Retail Customers
 - Over 6 Million MWh of Retail Sales
 - 1.4 GW (1,400 MW) Peak Load
- Most of the BPW's Power Supply needs are met through MPPA

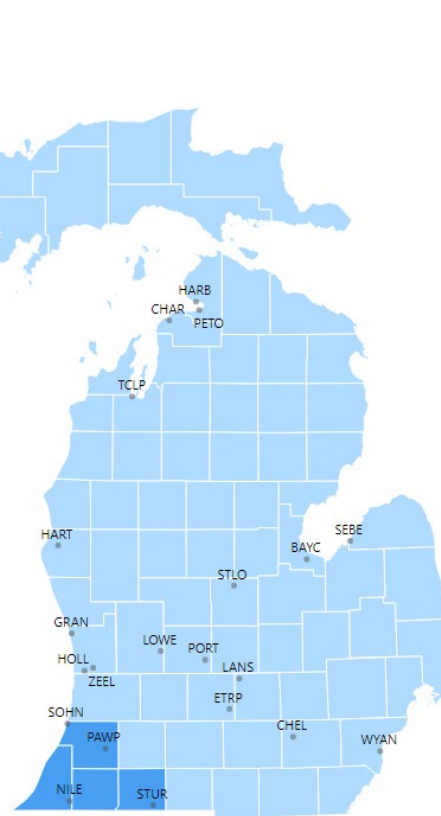




MICHIGAN PUBLIC POWER AGENCY



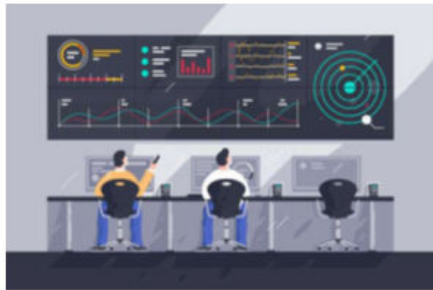
MISO
PJM





MICHIGAN PUBLIC POWER AGENCY

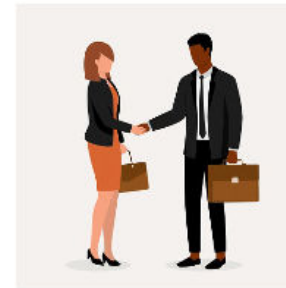
What MPPA Does for Members



Interface Wholesale Energy Markets



Power Supply Portfolio Management



Power Supply Commitment

Economies of Scale

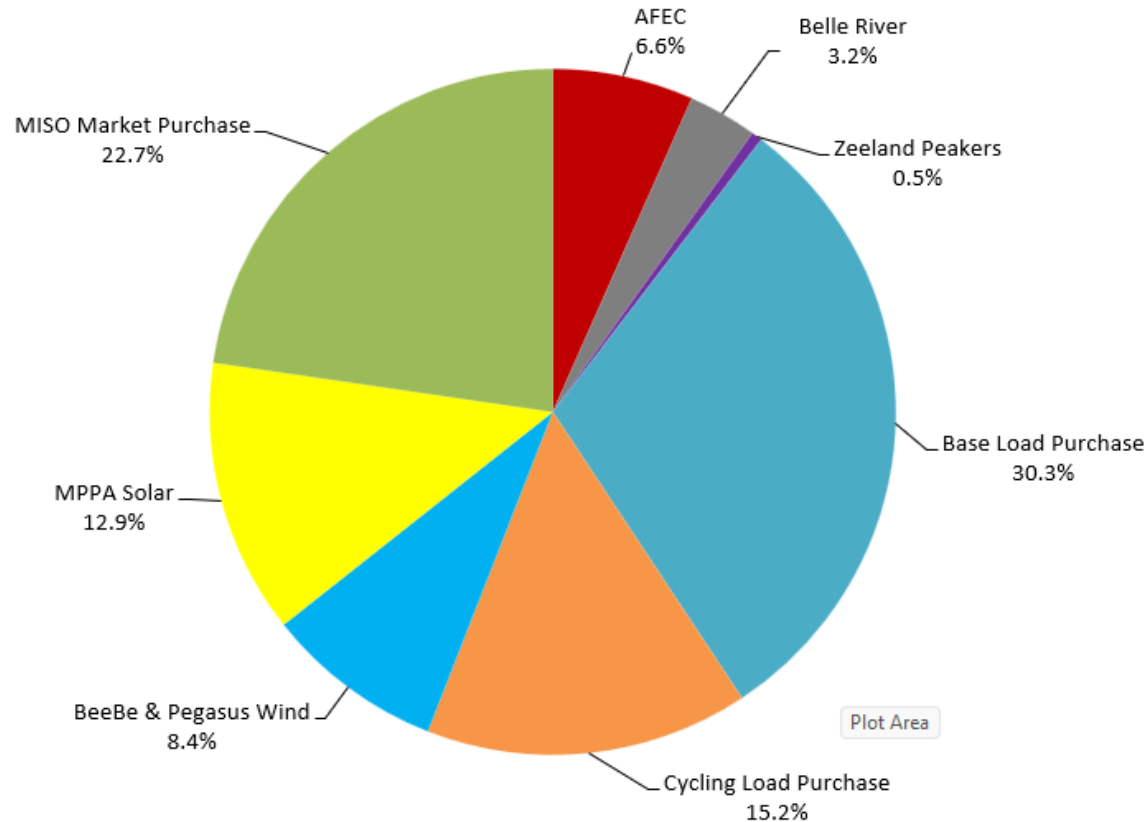
Risk Diversification





POWER SUPPLY PORTFOLIO

- Forecasted Power Supply Portfolio (FY2027 Budget)

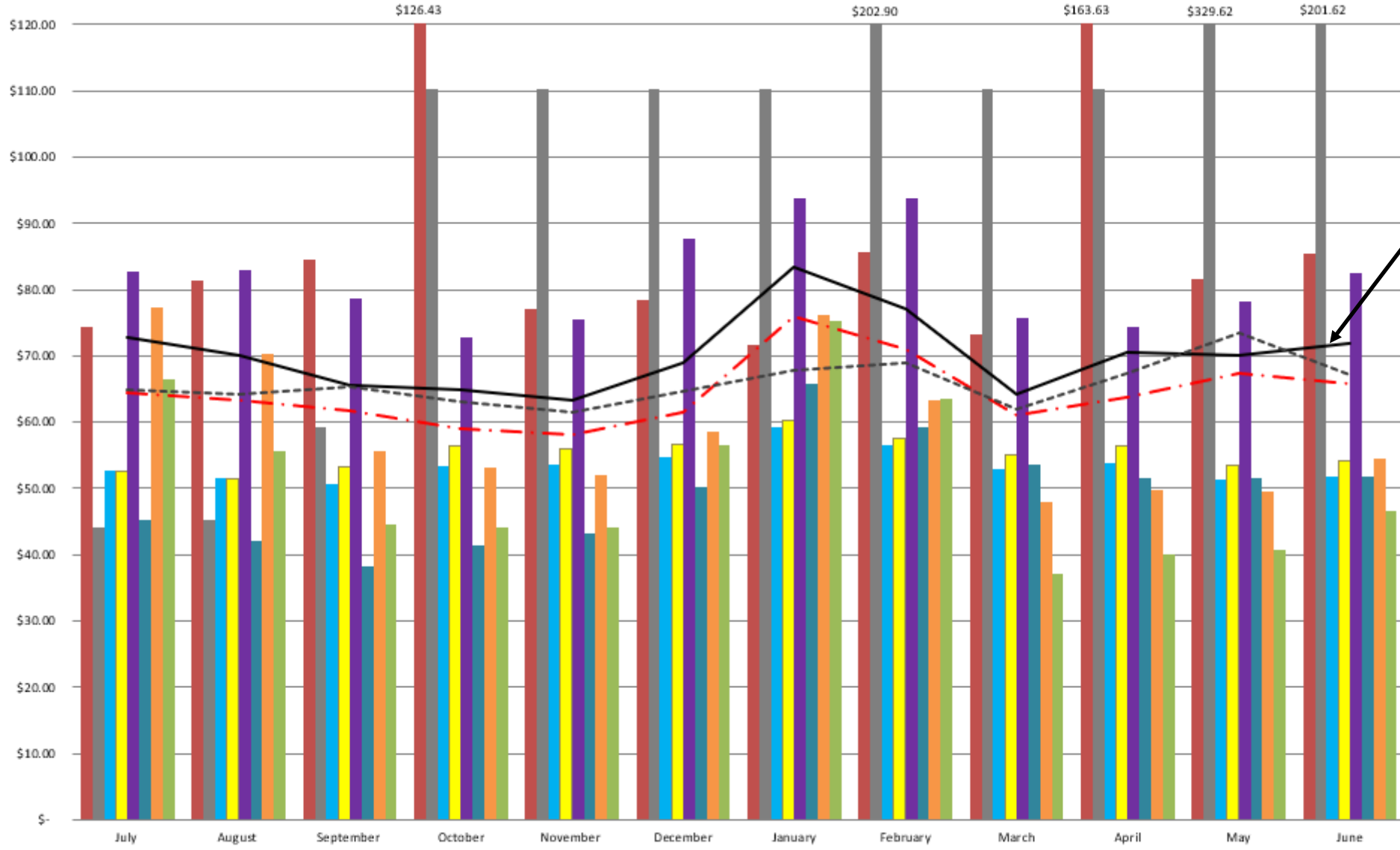


Total Energy Supply: 486,796 MWh

Peak Load: 92.1 MW



FY2027 Resource ENERGY Pricing (\$/MWh)



**FY2027 Budgeted
Total Cost
\$70.29/MWh**





ON-SYSTEM GENERATION

Washington Ave. Generation Facility

- Seven (7) R.I.C.E. Units (1.0 MW – 6.0 MW Units): 22.2MW
- Natural Gas / Diesel Fired

Riley Generation Facility

- Five (5) R.I.C.E. Units (2.0 MW Each): 10.0 MW
- Natural Gas Fired

West Washington Generation Facility

- Two (2) R.I.C.E. Units (1.0 MW Each): 2.0 MW
- Natural Gas Fired

R.I.C.E.: Reciprocating Internal Combustion Engines





JOINTLY-OWNED GENERATION

DTE Energy's Belle River Power Plant

- Zeeland BPW Share: 11.58MW (MPPA Project)
- 2 Units, Converting from Coal to Natural Gas by Winter 2026
- Date of Commercial Service: 1984 & 1985
- St. Clair County, MI



AMP Fremont Energy Center (AFEC)

- Zeeland BPW Share: 7.06 MW (MPPA Project)
- 2 Units, Natural Gas (Combined Cycle)
- Date of Commercial Service: 2012
- Fremont, OH (Located in PJM RTO)



R.I.C.E.: Reciprocating Internal Combustion Engines



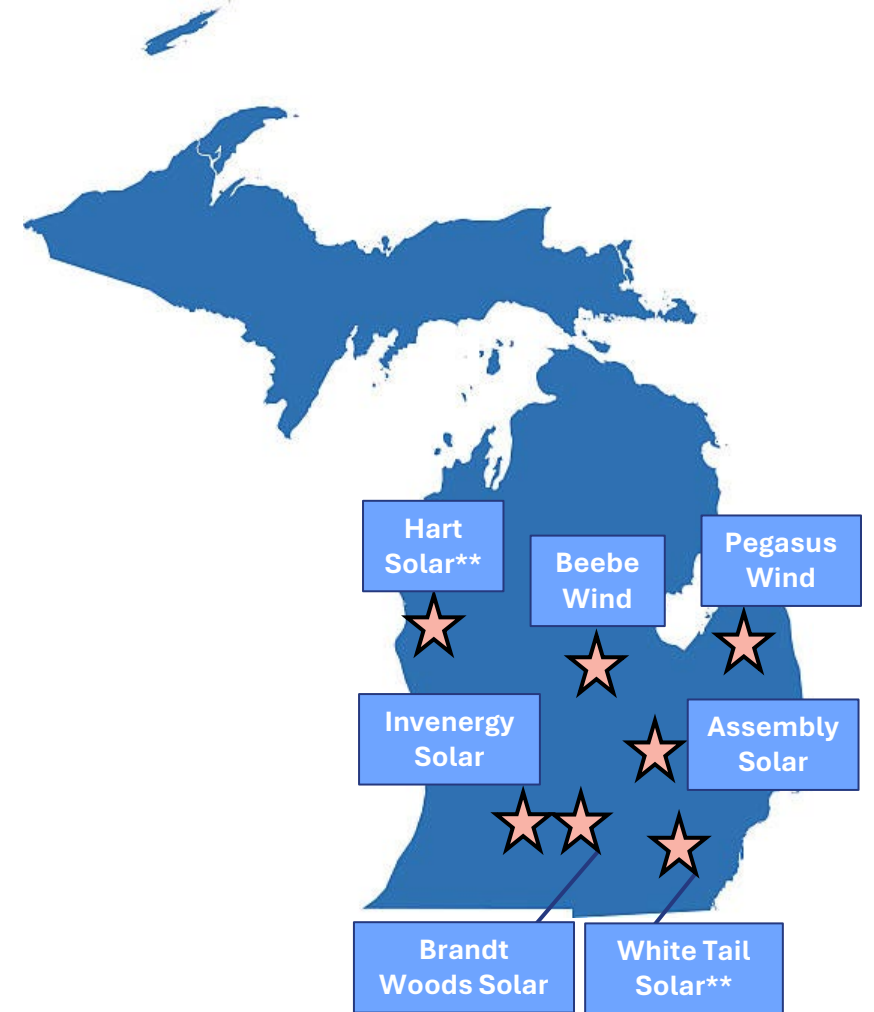
PURCHASE POWER AGREEMENTS

Purchase Power Agreements (Through MPPA)

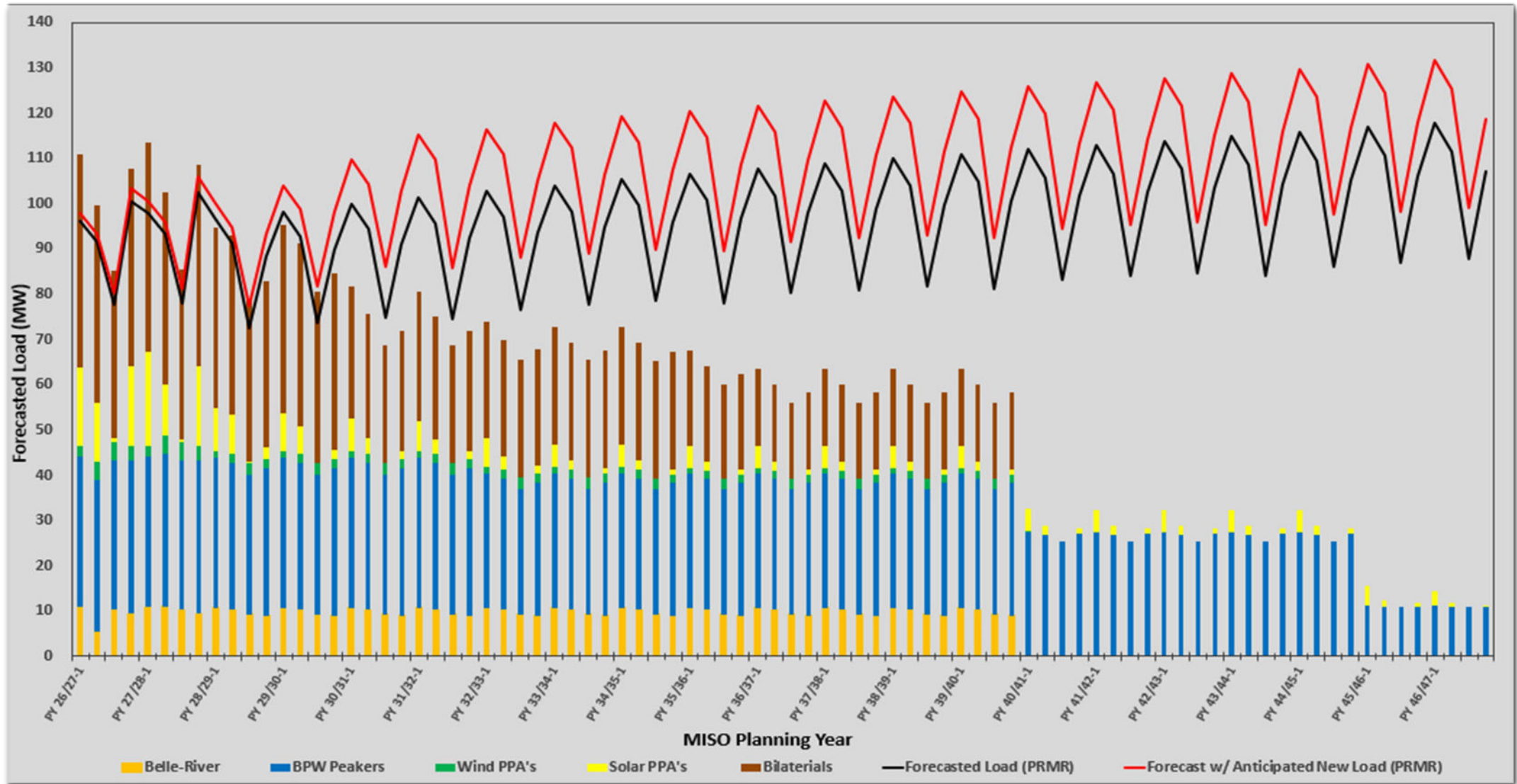
- Exelon Beebe Wind Farm 2.28 MW
Ithaca, MI (12/2014)
- NextEra Pegasus Wind Farm 12.20 MW
Caro, MI (12/2019)
- Assembly Solar - Phases 1&2 14.20 MW
Shiawassee County, MI (12/2020 & 12/2021)
- Invenergy Calhoun Solar 8.00 MW
Calhoun County, MI (4/2023)
- Brandt Woods Solar 2.90 MW
Calhoun County, MI (3/2025)
- White Tail Solar 2.80 MW
Washtenaw County, MI (11/2025)
- Hart Solar** 5.60 MW
Hart, MI (COD 12/2026)

Total: 47.98 MW

**Presently Under Construction



Capacity Position Forecast: PY2026/27 – 2046/47

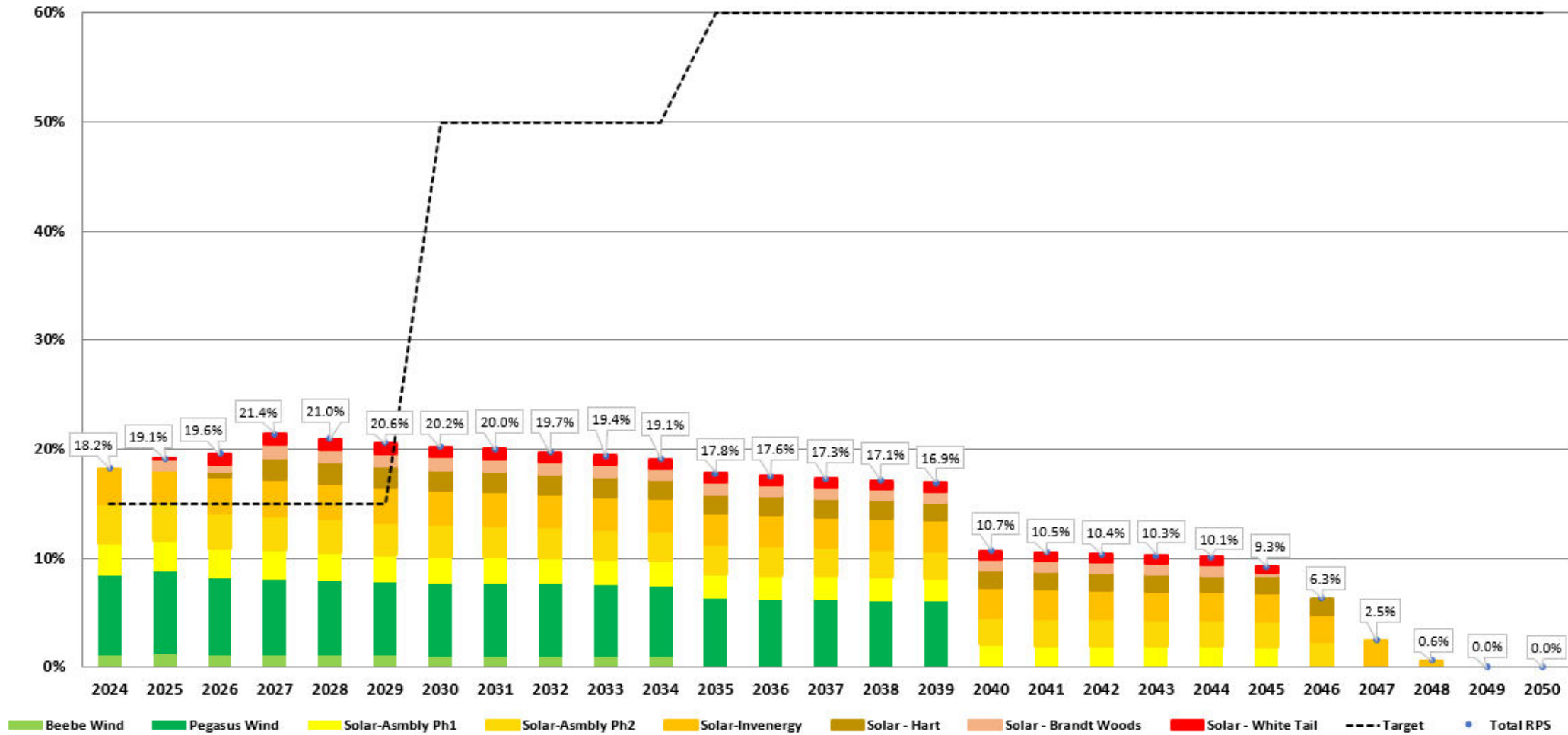


*Includes current resources owned, under contract, and executed transactions.
 The forecast is based on projected margins and MISO resource accreditation.
 Does not include BPW's share of AMP Fremont Energy Center (AFEC, 7.06MW), located in the PJM RTO*

Renewable Energy Forecast: 2026-2050

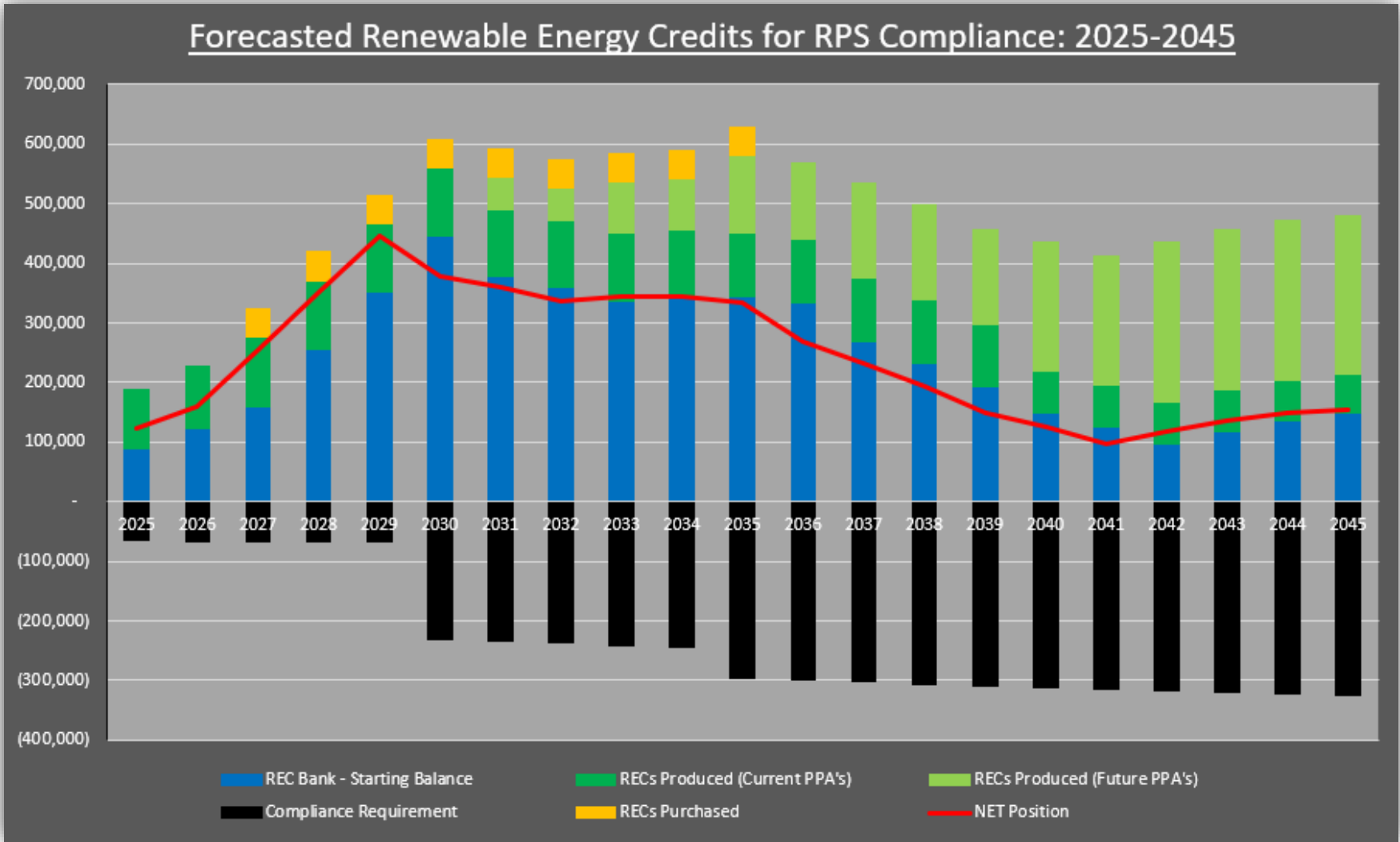
2024-2025: Actual Data

2026-2050: Forecasted Data



*Forecasted Renewable Energy Received, Not Our RPS Compliance Plan (PA235)
Does Not include Future Renewable Energy PPA's, Only Those Presently Under Contract*

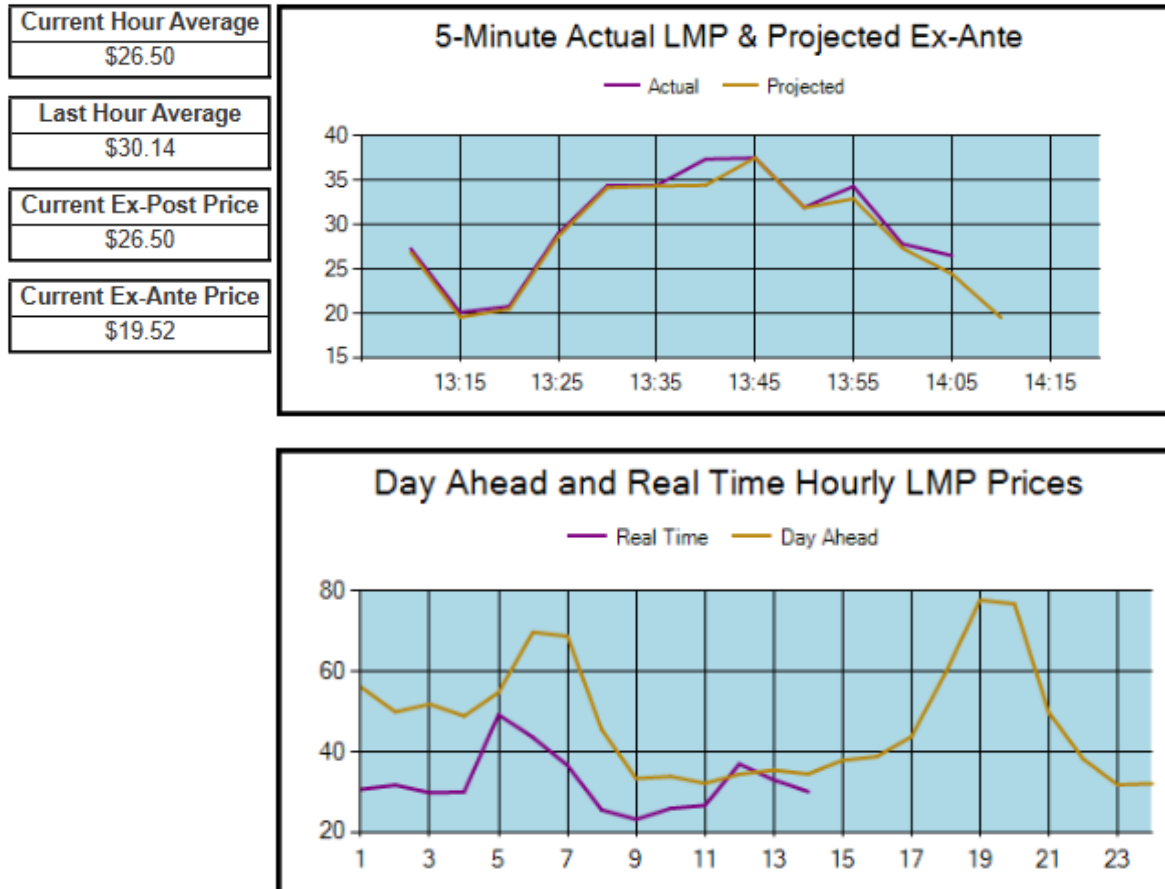
Renewable Energy Portfolio (RPS) Compliance Forecast



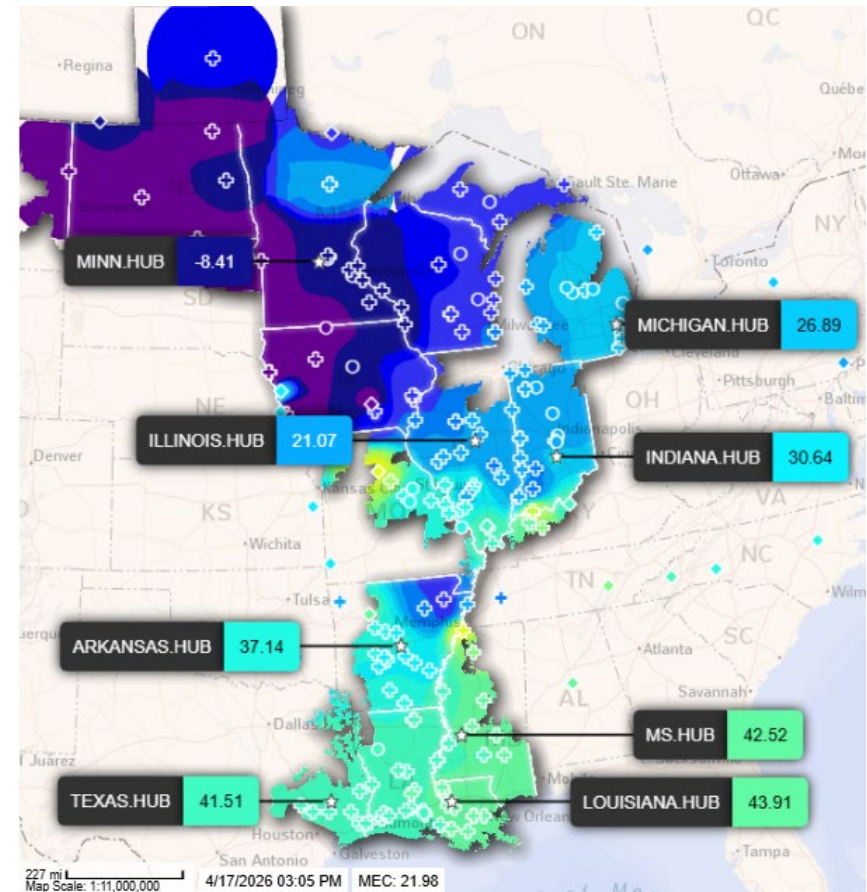


ENERGY MARKETS

MPPA Real-Time & Day-Ahead LMP's (4/17/2026, 3:05pm, HE15)



MISO Contour Map (4/17/2026, 3:05pm, HE15)





ENERGY MARKETS

MISO Day Ahead Market (4/14/2026)

Date	Hour Ending	Forecasted Load	Belle River Ent	Bilateral	Solar Ent	Wind Ent	Renewables	Must Run	Forecasted LMP MW	Day Ahead Generation	Day Ahead LMP MW	Day Ahead LMP Price	Temp	Humidity
4/14/2026	1	50.2	5.6	19.9	0.0	12.1	0.0	0.0	27.5	0.0	12.6	\$34.70	64	81
4/14/2026	2	50.3	5.6	19.9	0.0	12.4	0.0	0.0	27.6	0.0	12.4	\$31.27	63	84
4/14/2026	3	50.2	5.6	19.9	0.0	12.5	0.0	0.0	27.5	0.0	12.3	\$31.40	62	86
4/14/2026	4	51.1	5.6	19.9	0.0	12.5	0.0	0.0	28.4	0.0	13.2	\$31.64	62	86
4/14/2026	5	54.4	5.6	19.9	0.0	12.9	0.0	0.0	31.7	0.0	16.1	\$34.97	61	87
4/14/2026	6	57.3	5.6	19.9	0.0	12.9	0.0	0.0	34.6	0.0	19.0	\$48.45	61	87
4/14/2026	7	60.8	5.6	23.2	0.9	13.2	0.0	0.0	34.8	0.0	18.0	\$55.26	60	90
4/14/2026	8	61.8	5.6	23.2	5.0	13.2	0.0	0.0	35.8	0.0	14.9	\$46.23	61	87
4/14/2026	9	62.7	5.6	23.2	13.1	13.4	0.0	0.0	36.7	0.0	7.4	\$37.70	61	87
4/14/2026	10	63.2	5.6	23.2	17.4	13.6	0.0	0.0	37.2	0.0	3.5	\$36.71	61	87
4/14/2026	11	63.2	5.6	23.2	20.4	13.5	0.0	0.0	37.2	0.0	0.5	\$38.52	63	81
4/14/2026	12	62.7	5.6	23.2	18.6	13.5	0.0	0.0	36.7	0.0	1.9	\$39.30	64	81
4/14/2026	13	63.5	5.6	23.2	19.9	13.5	0.0	0.0	37.5	0.0	1.3	\$45.89	66	75
4/14/2026	14	62.8	5.6	23.2	18.7	13.5	0.0	0.0	36.8	0.0	1.7	\$46.75	67	76
4/14/2026	15	61.2	5.6	23.2	21.8	12.9	0.0	0.0	35.2	0.0	-2.3	\$50.14	69	75
4/14/2026	16	59.6	5.6	23.2	16.4	10.4	0.0	0.0	33.6	0.0	4.0	\$57.51	68	84
4/14/2026	17	58.1	5.6	23.2	11.7	5.7	0.0	0.0	32.1	0.0	11.9	\$82.27	68	81
4/14/2026	18	56.9	5.6	23.2	8.2	2.7	0.0	0.0	30.9	17.6	-0.4	\$116.21	67	81
4/14/2026	19	56.1	5.6	23.2	3.0	2.0	0.0	0.0	30.1	26.8	-4.4	\$141.33	66	78
4/14/2026	20	56.1	5.6	23.2	0.0	2.3	0.0	0.0	30.1	26.8	-1.8	\$151.30	65	81
4/14/2026	21	55.1	5.6	23.2	0.0	3.6	0.0	0.0	29.1	17.6	5.1	\$108.44	65	81
4/14/2026	22	52.5	5.6	23.2	0.0	7.0	0.0	0.0	26.5	0.0	16.7	\$66.22	64	84
4/14/2026	23	51.0	5.6	19.9	0.0	9.4	0.0	0.0	28.3	0.0	16.2	\$49.45	63	84
4/14/2026	24	50.4	5.6	19.9	0.0	9.9	0.0	0.0	27.7	0.0	15.0	\$44.73	62	86
		1,371.2	134.0	530.4	175.2	248.2	0.0	0.0	773.6	88.8	194.6			

MISO Real Time Market (4/14/2026)

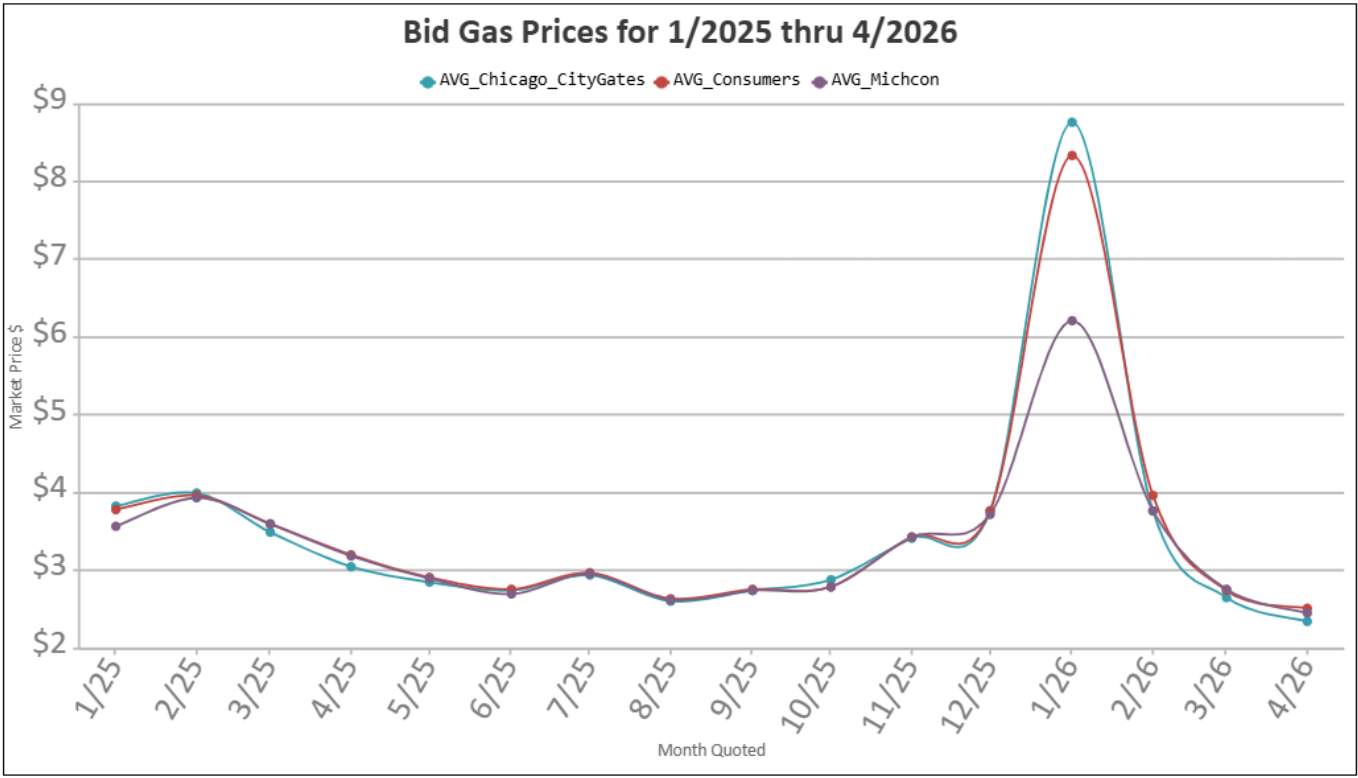
Date	Hour Ending	Actual Load	Belle River Ent	Bilateral	Solar Ent	Wind Ent	Renewables	Day Ahead LMP MW	Actual Gen	Real Time LMP MW	Real Time LMP Price	Temp	Humidity
4/14/2026	1	52.026	5.233	19.9	0.000	7.117	0.000	12.6	0.000	7.176	\$26.55	70	73
4/14/2026	2	52.178	5.236	19.9	0.000	12.464	0.000	12.4	0.000	2.178	\$23.05	70	73
4/14/2026	3	52.548	5.236	19.9	0.000	11.474	0.000	12.3	0.000	3.638	\$23.52	70	73
4/14/2026	4	53.184	5.243	19.9	0.000	13.249	0.000	13.2	0.000	1.592	\$25.78	55	90
4/14/2026	5	54.058	5.255	19.9	0.000	12.245	0.000	16.1	0.000	0.558	\$25.46	56	84
4/14/2026	6	57.559	5.255	19.9	0.000	9.382	0.000	19.0	0.000	4.022	\$29.22	57	87
4/14/2026	7	60.687	5.251	23.2	0.475	11.041	0.000	18.0	0.000	2.720	\$27.99	57	93
4/14/2026	8	61.445	5.230	23.2	1.894	8.362	0.000	14.9	0.000	7.859	\$27.31	60	86
4/14/2026	9	62.687	5.243	23.2	6.137	10.030	0.000	7.4	3.569	7.108	\$23.83	61	84
4/14/2026	10	63.845	5.247	23.2	9.743	9.124	0.000	3.5	1.610	11.421	\$31.72	65	78
4/14/2026	11	63.896	5.352	23.2	13.259	3.541	0.000	0.5	0.000	18.044	\$31.50	71	66
4/14/2026	12	63.865	5.333	23.2	17.478	0.357	0.000	1.9	0.000	15.597	\$30.73	71	66
4/14/2026	13	65.273	5.285	23.2	17.992	0.126	0.000	1.3	1.952	15.418	\$28.00	74	60
4/14/2026	14	64.905	5.242	23.2	17.710	0.228	0.000	1.7	0.000	16.825	\$31.42	74	57
4/14/2026	15	64.441	5.335	23.2	16.781	0.653	0.000	-2.3	0.000	20.772	\$32.69	75	55
4/14/2026	16	63.802	5.419	23.2	14.525	1.364	0.000	4.0	0.000	15.061	\$44.62	77	56
4/14/2026	17	62.863	5.491	23.2	18.422	1.140	0.000	11.9	1.170	1.540	\$49.27	77	60
4/14/2026	18	61.727	5.550	23.2	13.780	1.176	0.000	-0.4	18.844	-0.423	\$72.11	77	62
4/14/2026	19	61.375	5.600	23.2	4.304	1.239	0.000	-4.4	26.996	4.436	\$92.20	75	69
4/14/2026	20	61.700	5.601	23.2	0.007	3.254	0.000	-1.8	26.807	4.631	\$107.85	75	66
4/14/2026	21	60.709	5.605	23.2	0.000	7.882	0.000	5.1	15.902	3.020	\$50.85	72	69
4/14/2026	22	56.122	5.517	23.2	0.000	10.910	0.000	16.7	0.000	-0.205	\$32.65	70	71
4/14/2026	23	54.056	5.265	19.9	0.000	11.844	0.000	16.2	0.000	0.847	\$49.69	66	78
4/14/2026	24	52.833	5.579	19.9	0.000	7.371	0.000	15.0	0.000	4.983	\$83.54	62	86
		1,427.784	128.603	530.4	152.507	155.573	0.000	194.8	97.083	168.818			





ENERGY MARKETS

Natural Gas Markets: January 2025 – April 2026 (Monthly Avg.)



4/17/2026: Generator Market Offer Pricing

Generation Portfolio

Bucket Prices

Date	Gas Price	Bucket#1	Bucket#2	Bucket#3	Bucket#4	Bucket#5	Bucket#6	Bucket#7	Bucket#8	Bucket#9
4/17/2026	2.4000	\$250.00	\$400.00	\$120.00	\$170.00	\$108.00	\$84.00	\$72.00	\$60.00	\$96.00

Unit Summary

Unit Name	Unit Code	Variations	MinMW	MaxMW	PriceRange	Select
Gen#1	422	1	0.0	1.2	170.00	<input type="checkbox"/>
Gen#2	423	1	0.0	1.0	170.00	<input type="checkbox"/>
Gen#7	424	1	0.0	1.8	250.00	<input type="checkbox"/>
Gen#8	425	1	0.0	1.4	170.00	<input type="checkbox"/>
Gen#9	427	1	0.0	4.0	120.00	<input type="checkbox"/>
Gen#10	428	1	0.0	5.2	120.00	<input type="checkbox"/>
Gen#11	429	1	0.0	5.6	108.00	<input type="checkbox"/>
Riley#1	430	1	0.0	2.0	84.00	<input type="checkbox"/>
Riley#2	431	1	0.0	2.0	84.00	<input type="checkbox"/>
Riley#3	432	1	0.0	2.0	84.00	<input type="checkbox"/>
Riley#4	433	1	0.0	2.0	84.00	<input type="checkbox"/>
Riley#5	434	1	0.0	2.0	84.00	<input type="checkbox"/>
WashingtonPump#1	435	1	0.0	1.0	96.00	<input type="checkbox"/>
WashingtonPump#2	436	1	0.0	1.0	96.00	<input type="checkbox"/>

Hourly Data Download

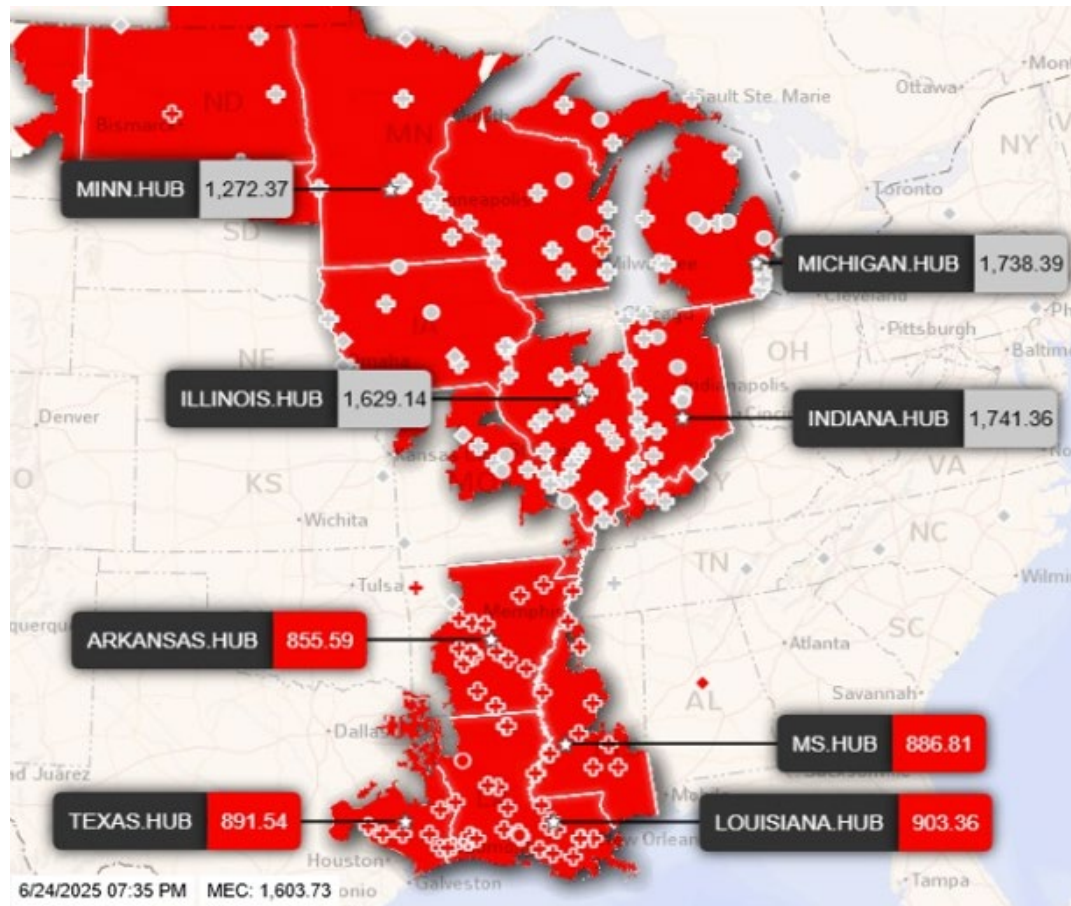
Start Date:

End Date:

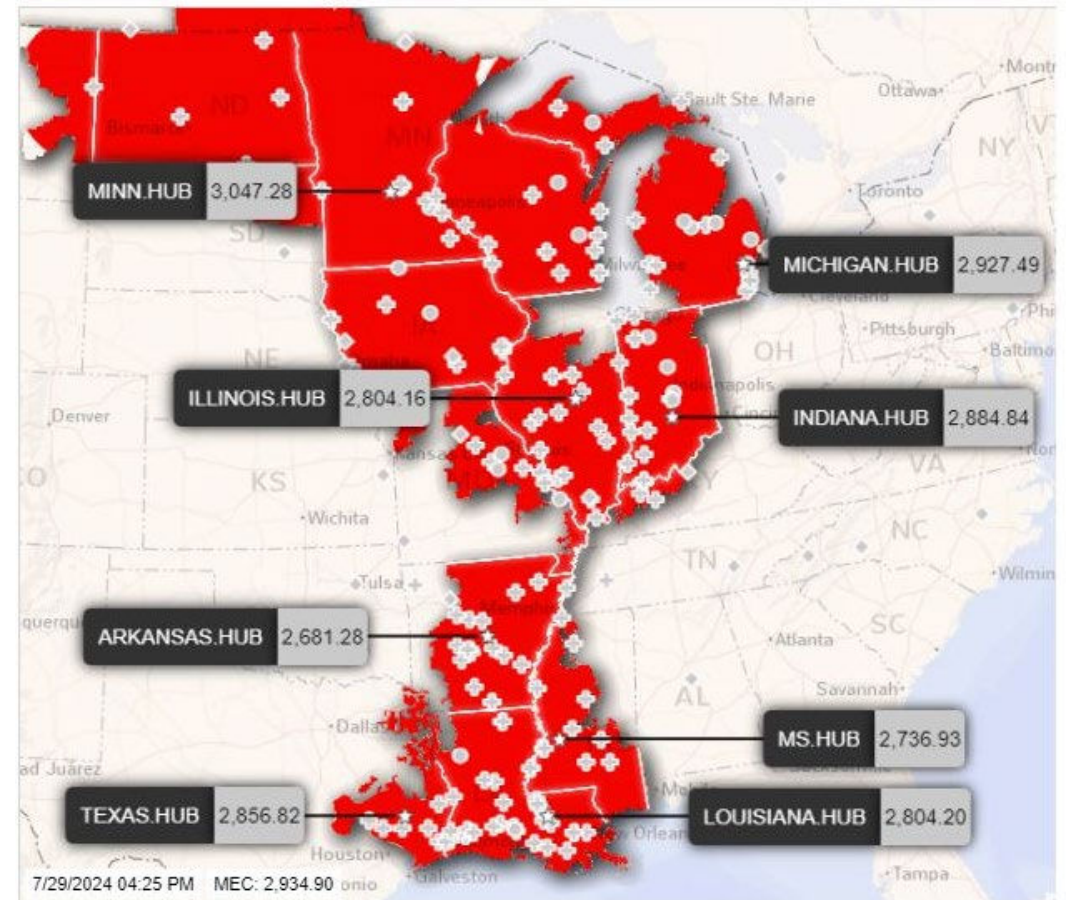


ENERGY MARKETS

6/24/2025 7:35pm (Tuesday, HE19)



7/29/2024 4:25pm (Monday, HE16)





RISK MANAGEMENT

MPPA Stability Hedge Plan: Prompt Year Plus 8-Year Hedging Horizon

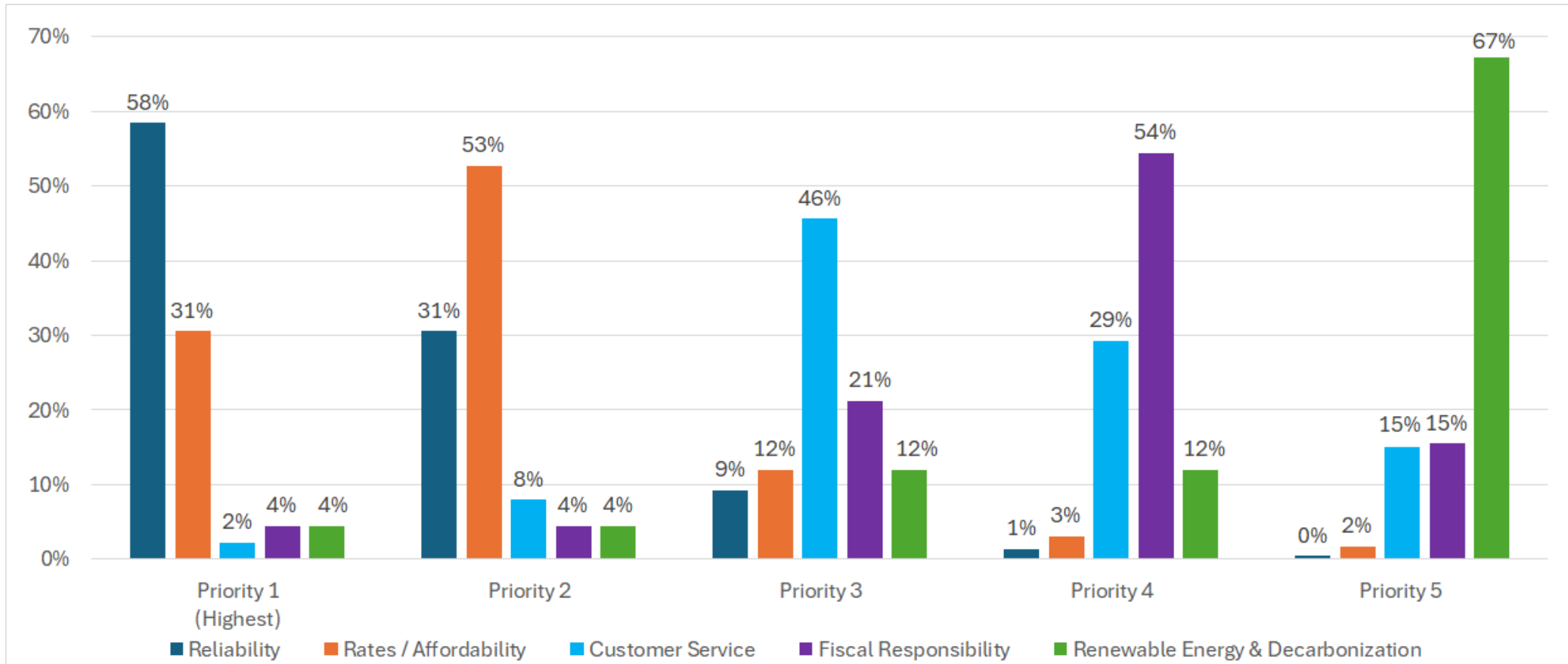
- The BPW has selected MPPA's 'Stability Plan' as our energy risk management and hedge plan.
- The BPW must have committed resources in place to supply specific levels of its forecasted energy requirements extending into the future as specified by the plan.

Year	Target Forecasted Hedge %	
	Minimum	Maximum
0 (Current Year)	75%	95%
1	75%	95%
2	65%	80%
3	50%	70%
4	35%	55%
5	25%	40%
6	5%	25%
7	5%	25%
8	5%	25%
9	5%	25%



Customer Survey Results

Customer Priorities: Electric Utility Service

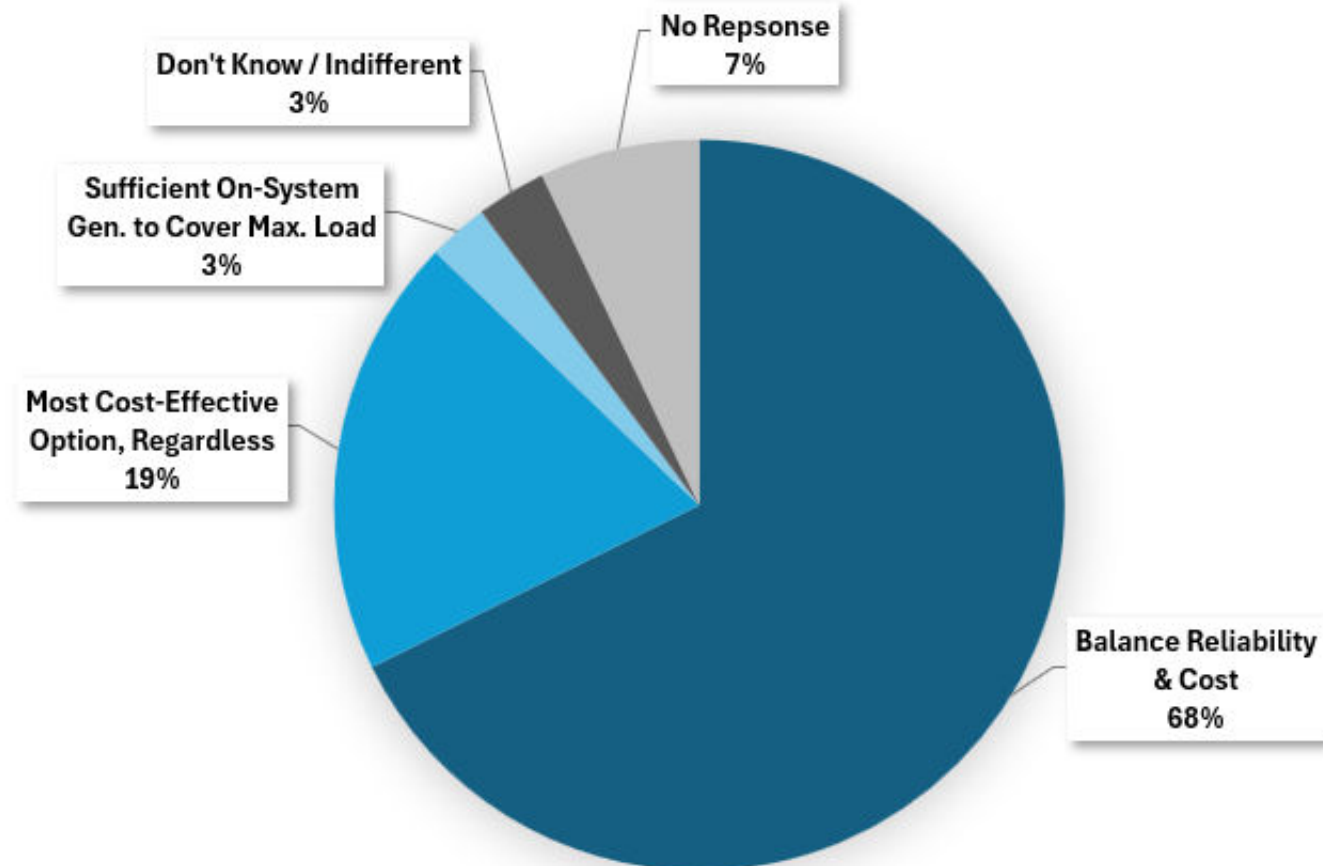


October 2025 Survey Results Based on 226 Responses



Customer Survey Results

Perceived Value & Scale of On-System Generation



October 2025 Survey Results Based on 226 Responses



Integrated Resource Plan Update & Stakeholder Engagement Process

Integrated Resource Plan (IRP) Update

- An IRP evaluates how a utility can best meet the projected loads of its customers
- Balance multiple objectives:
 - System Reliability
 - Costs
 - Risk
 - Environmental Responsibility & Regulatory Compliance
- IRP process involved a Stakeholder Engagement Portion with multiple meetings
- Final Report is due in May



Integrated Resource Plan Update & Stakeholder Engagement Process

Preliminary Results

- Open capacity positions provide flexibility to shift strategy as economics and policies evolve
- Participation in large generating units offers strong value
 - Prioritize participation as early as possible
 - Make near-term decisions that preserve future ability to participate
- Reliance on local generation alone is the higher cost portfolio strategy
- Delay aggressive implementation of PA235 for the least incremental cost exposure
- Portfolios that meet the requirements of PA235 increase costs by an estimated 30-40%



Integrated Resource Plan Update & Stakeholder Engagement Process

Preliminary Results (continued)

- Portfolios that meet the requirements of PA235 increase costs by an estimated 30-40%

Levelized Cost (2026 \$/MWh, 2026-2050)	BAU	PA 235	Incremental Cost (\$/MWh)
Economically Optimized	\$70.04	\$97.75	\$27.71
Large Units Available 2035	\$76.16	\$97.85	\$21.69
Local Generation	\$85.41	\$109.06	\$23.65

Levelized Costs are inclusive of variable operating costs and incremental capital and fixed costs to meet load requirements over the 2026-2050 study period.



Integrated Resource Plan Update & Stakeholder Engagement Process

Next Steps

1. Ensure Resource Adequacy to Maintain Reliability
 - Pursue opportunities to add local generation
 - Explore joint development opportunities
2. Participate in Larger Generation Project(s) that Provide Economies of Scale
 - Large units provide lowest cost of meeting our long-term energy and capacity needs
 - Seek our collaborative partners and projects
3. Monitor PA235 and Potential Policy / Regulatory Changes
 - Plan for compliance while advocating for a more measured approach
 - Continue pursuing renewable resources when available and cost-effective



Visit the Website

<https://zeelandbpw.com/power-plan/>





AGENDA

- INTRODUCTIONS
- OUR BOARD OF COMMISSIONERS
- DEPARTMENT OVERVIEW
- WATER DISTRIBUTION
- ELECTRIC TRANSMISSION & DISTRIBUTION
- POWER PRODUCTION
- **ANNOUNCEMENTS FOR APRIL 29 SESSION**
- BUCKET TRUCK DEMO / POWER PLANT TOUR / WATER DEPT. DEMO



ITINERARY

SESSION 3: Parks & Cemetery, Streets and Finance

Wednesday, April 29 / City Hall Council Chambers, 2nd Floor (21 S. Elm Street) / 5:45-9 PM, includes dinner

- Take a bus tour through the City's park system and beautifully manicured cemeteries.
- Become familiar with the City's future infrastructure plans and the operations of the Streets Department.
- Learn about the City's budget and finance process, funding sources and millage rates.

SESSION 4: Meet Your Public Safety Team : Police, Fire/Rescue

Wednesday, May 6 / Public Safety Building (29 W. Main Avenue) / 5:45-9 PM, includes dinner

- Understand the City's approaches to public safety through policing, fire protection and emergency rescue.

SESSION 5: Information Technology & Clean Water Plant

Wednesday, May 13 / Clean Water Plant Facility (144 E. Lincoln Avenue) / 5:45-9 PM, includes dinner

- Realize the importance of the City's in-house IT Department.
- Witness the functions of the City's Clean Water Plant and tour the facility.



ITINERARY (cont')

SESSION 6: Marketing, Community Development & Downtown Zeeland

Wednesday, May 20 / City Hall Council Chambers, 2nd Floor (21 S. Elm Street) / 5:45-9 PM, includes dinner

- Gain an understanding of how the City plans and implements a vision for the future. Including information on planning & zoning.
- Take a bus tour through Zeeland's industrial sector and downtown development projects.
- Learn more about the City's FEEL THE ZEEL brand and community events.

GRADUATION CEREMONY @ City Council Meeting

Monday, June 1 / City Hall Council Chambers, 2nd Floor (21 S. Elm Street) / 6PM, includes cake

- Participants who have completed at least 5 out of 6 Citizen's Academy sessions will be recognized at a Zeeland City Council Meeting.
- Participants are invited to bring their families!



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THANK YOU!

