

Safety Report

October 2024



Safety@Grant



Our Commitment to Safety

*We believe that a safe workplace and community is founded upon an environment where **all voices can and will speak up, ask questions, and be heard without reprisal.***

We will provide and maintain the proper training, tools, job layout, equipment and employees to perform work safely.

Injuries Reported

Date	Body Part	Description & Response
9/4	Back	<p style="text-align: center;">Back</p> <p>Toward the end of shift, employee was walking and their lower back tightened up. Employee believes this is related to a previous injury. Good example of reporting injuries no matter the significance.</p>
9/10	Eye	<p style="text-align: center;">Allergic Reaction in the Eye</p> <p>Employee was exposed to Caddisflies resulting in a severe allergic reaction that caused the eye to become bloodshot with itching, redness, and swelling. It also resulted in the white portion of the eye to become swollen resembling a blister causing blurred vision. Employee is seeking Ophthalmology (Eye Doctor) assistance to remedy the issue. Reminder - wash hands before touching eyes. PPE is available for those who are exposed to these insects.</p>
9/20	Shoulder	<p style="text-align: center;">Strained Shoulder</p> <p>While cleaning the right bank fish crowder of milfoil buildup, employee strained upper back muscles between the shoulder blades. There is a capitol project under review for approval that will address the primary concerns for this task to be performed as safely as possible.</p>

Injuries Reported

Date	Body Part	Description & Response
9/30	Right Thumb	<p style="text-align: center;">Right Thumb</p> <p>While stripping wire, employee sustained a laceration to their right thumb. Employee was wearing proper PPE. Employee had to seek medical attention and received stitches.</p>

Vehicle Incidents

Date	Location	Description & Response
9/5	Transmission Line Corridor	<p style="text-align: center;">Damaged Vehicle</p> <p>While driving, employee struck a stump with the right side of vehicle. At the time, the noise didn't seem loud enough to stop and look for damage but when employee got back to the service center, they noticed damage to the right-side running board and small dent to lower passenger door. Reminder to continue the use of good situational awareness.</p>
9/17	Wanapum Dam	<p style="text-align: center;">Scratched Bumper</p> <p>Employee was attempting to drive across the Wanapum deck with a boat trailer. Employee was unaware of the deck blockage. Employee had a spotter helping me turn around but the rear bumper on the driver side scraped the concrete wall. The bumper sustained minimal scratching. A reminder that if you are submitting a CR involving a mobile incident, please check the box in the submission form. This notifies Transportation so that they can look into the incident and get vehicles repaired.</p>
9/19	SR 28 EB	<p style="text-align: center;">Cracked Windshield</p> <p>While traveling back to Ephrata Warehouse after EAD, a rock was kicked up by a semi causing it to hit the windshield of the vehicle. The windshield did crack and started to spider as well from the impact. Great job reporting the incident.</p>

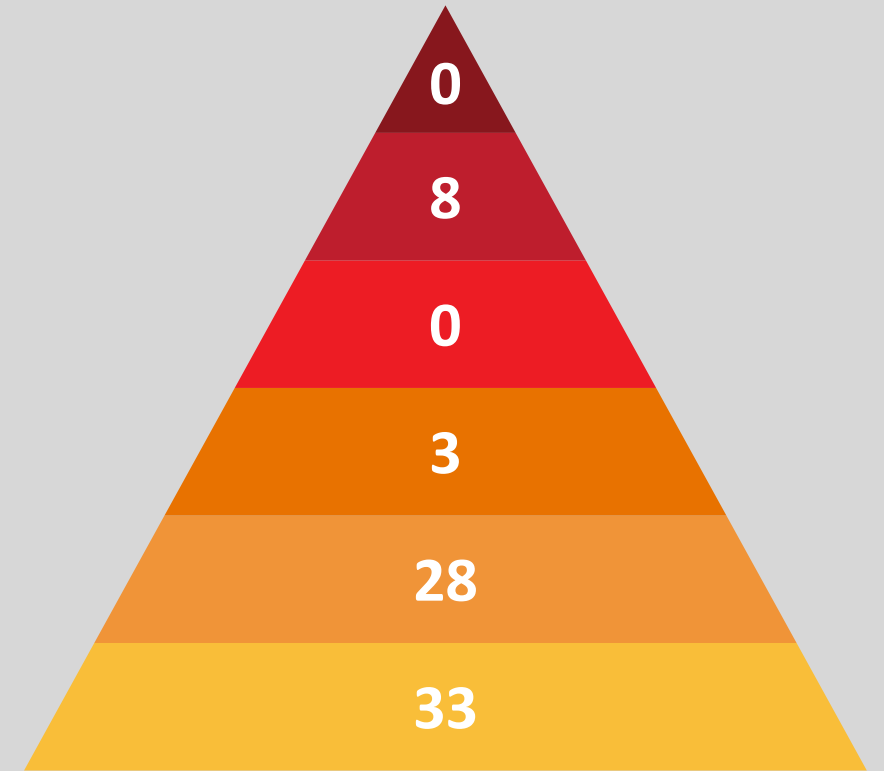
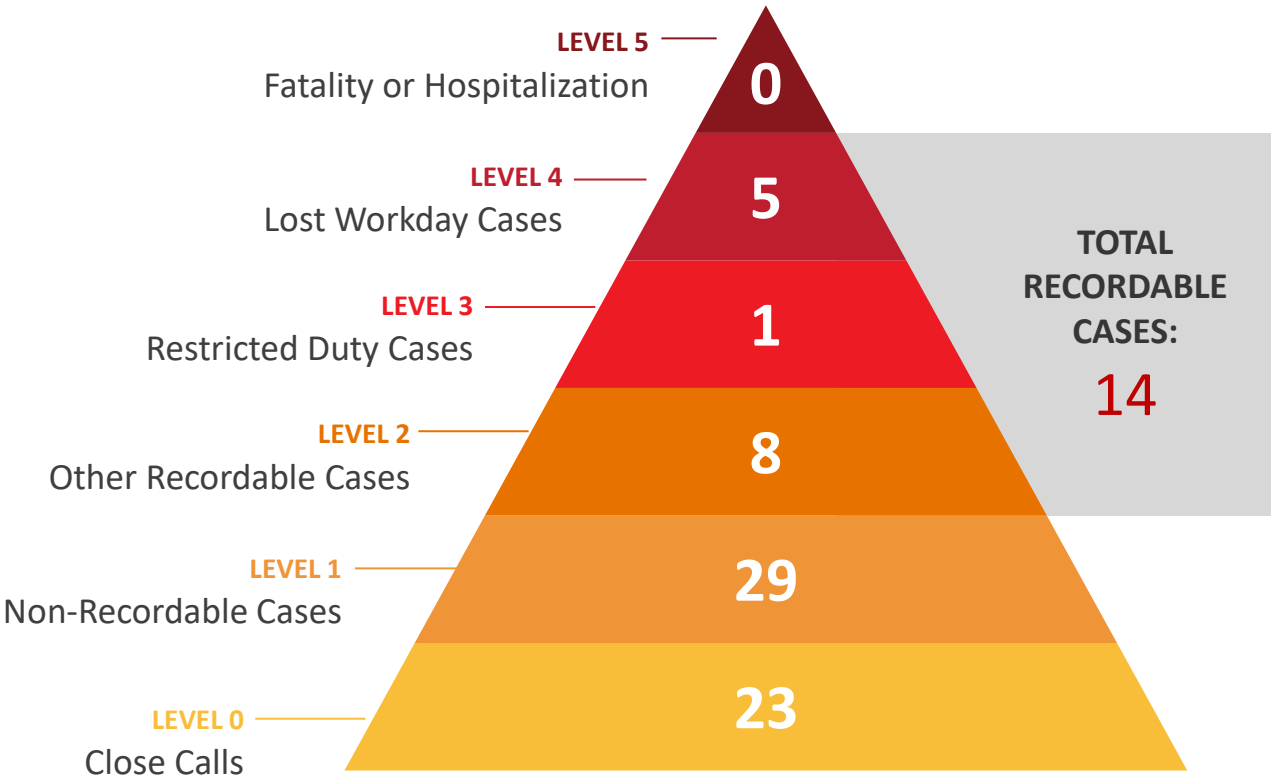


	Last Month	Year-to-Date
Total Injuries Reported	4	30
Other Recordable Case(s)	1	8
Restricted Duty Case(s)	0	1
Lost Workday Case(s)	0	5

2024 Incidents Summary

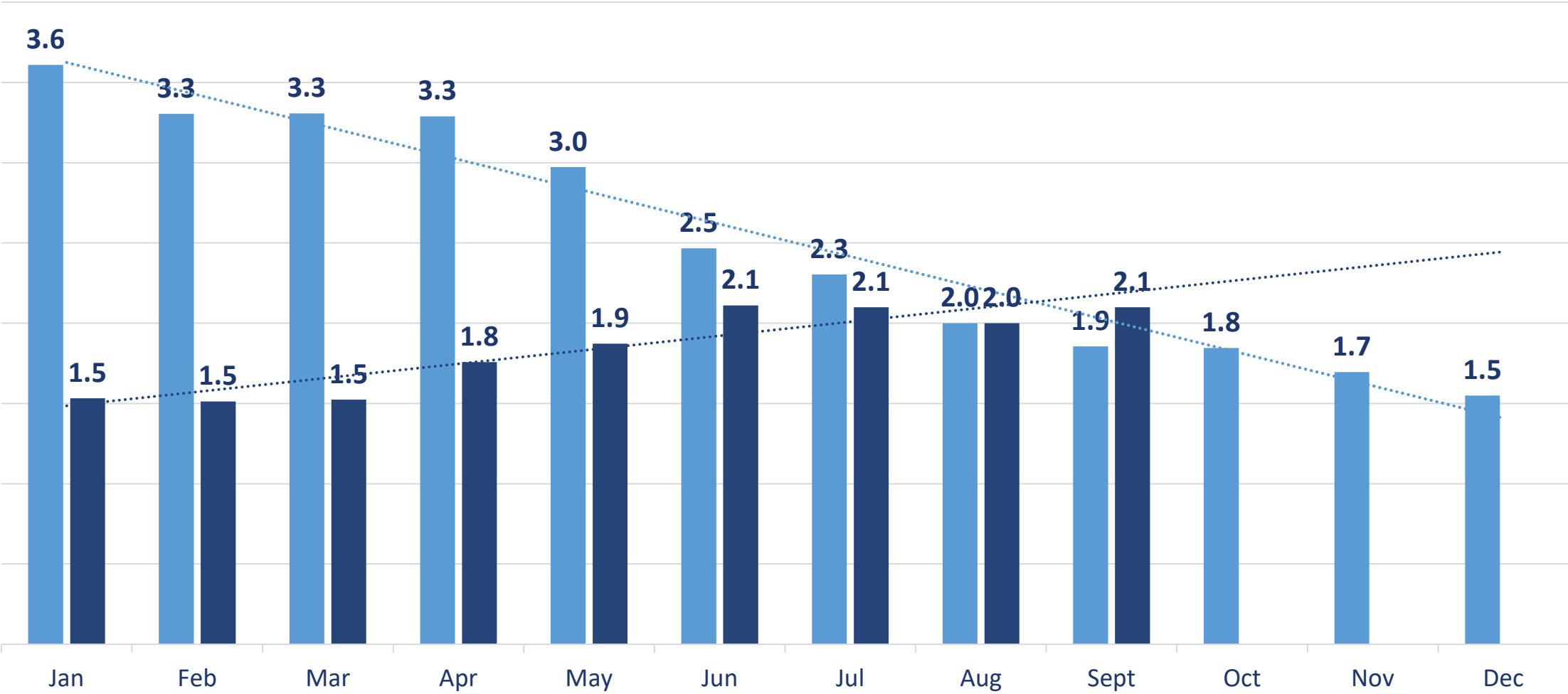
VS

2023



Leading & Lagging Indicators

12 Month Rolling – Recordable Injury Rate – 2023 vs 2024



Recordable Injury Projection



Total number of recordable incidents × 200,000
Total number of hours worked by all employees

At the current injury rate, we
will likely record

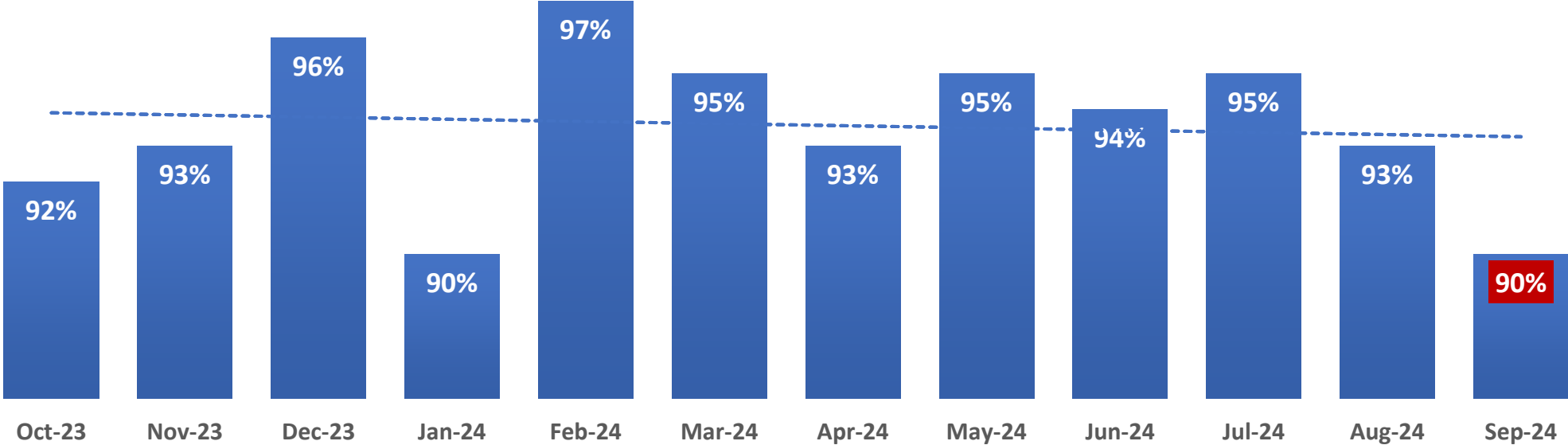
17

injuries on our OSHA Logs by
the end of 2024.

← The “recordable injury rate” is a calculation that describes the number of employees per 100 full-time workers or per 200,000 hours worked that have been involved in an injury or illness that requires medical treatment beyond first-aid.

Leading & Lagging Indicators

Safety Meeting Attendance



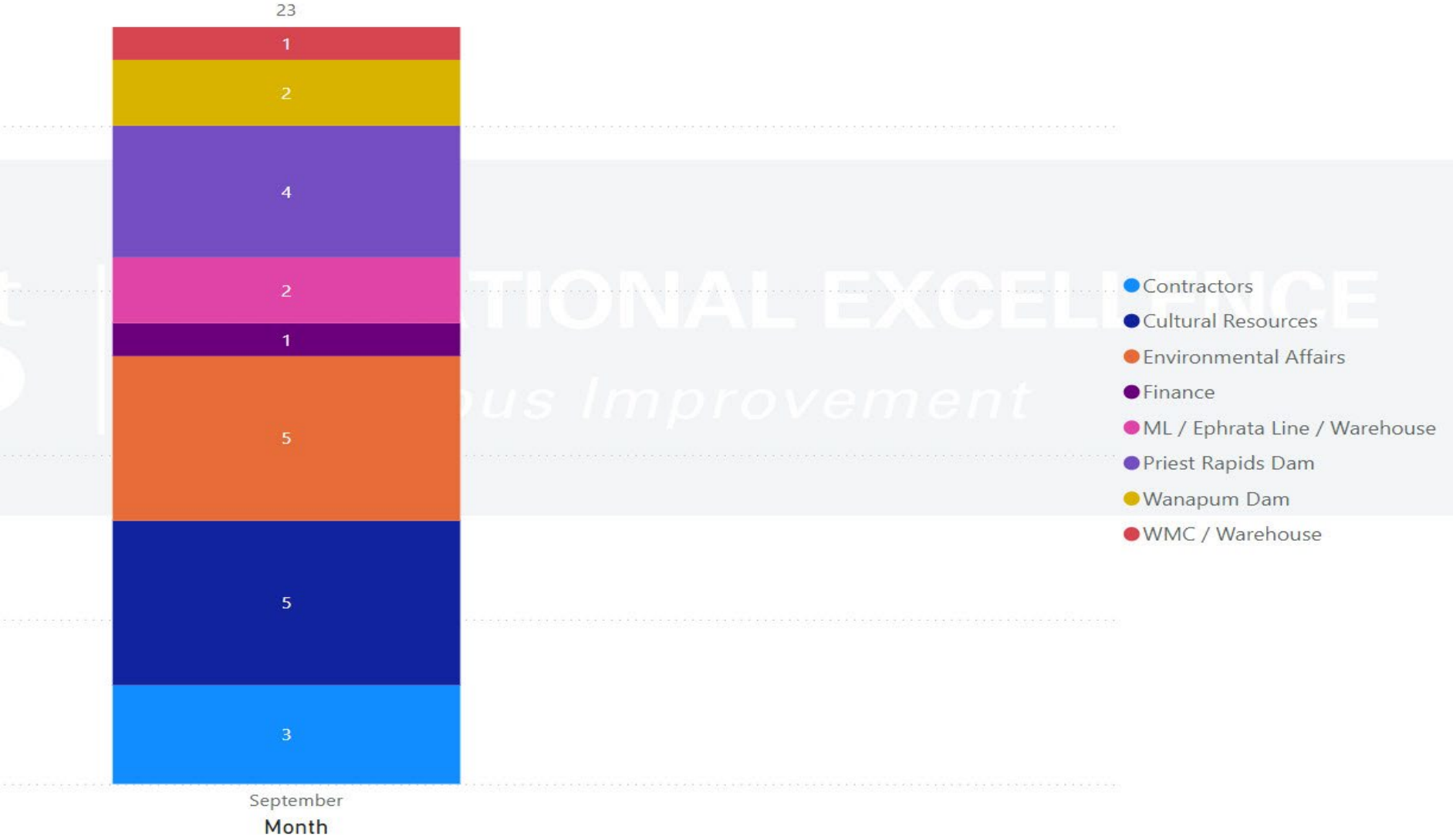
*Due to technical difficulties within PowerApps, safety meeting attendance for Sept is an estimate.

JSRs-Grant PUD

Reset All Filters		Select Month	Safety Meeting Group	Location Area	Job Site Reviews Created	Job Site Reviews Completed
		September	All	All	23	23
Hazards Identified in Job Site Reviews						
Hazard	September	Total				
Slip, Trip, Fall	18	18				
Environmental	12	12				
Noise	9	9				
Equipment	8	8				
Fatigue	8	8				
Pinch Points	8	8				
Strain, Sprain	8	8				
Vehicle or Foot Traffic	8	8				
Energy Source	7	7				
Ergonomics	7	7				
Overhead	6	6				
Working from Heights	6	6				
On, Over or Near Water	5	5				
Confined-Enclosed Spaces	3	3				
Hazardous Chemical	2	2				
Excavation	1	1				
Actions Observed						
Hazard Corrected						
5						
Safe						
111						
			Job Brief Completed?		JHA Available?	
			No		No	
			8		12	
			Yes		Yes	
			15		11	

Coming Soon: All District employees will have access to this data in PowerBI.

JSRs-Grant PUD



New Safety Action Items

Safety Concern CR #	Date	Summary	Response	WO # / Status
28585	9/11	AVTEC phone system issues	<p>CRT Details: Most of the affected equipment has been bypassed. The remaining components that cannot be bypassed are considered to pose only minimal risk to the District.</p> <p>Telecom has been actively addressing this issue since 3/2024 and is pursuing an aggressive strategy to provide resolution.</p> <p>An apparent cause evaluation will be performed.</p>	368859 / Waiting Approval from Responsible Manager
28694	9/24	Sub-contractor not following procedure/test plan checklist	<p>CRT Details: A good catch by this employee. A safety stand down was performed to ensure the contractor understands the District's expectations. A WO has been assigned to ensure that the DRs and project staff are informed when the contractor is to perform High Potential and Megger testing is to take place.</p>	369657 / Waiting Approval from Responsible Manager

Completed Safety Action Items

Safety Concern CR #	Completed Date	Summary	Response	WO #
12090	9/5/24	Turbine pit top deck lacks toe-kick	WO Details: Toe boards will be installed around the perimeter of the thrust bearing inspection platform above the turbine pit. Toe boards will also be installed at the stairway entrance to the turbine pit at the handrail openings.	276156
28462, 28463	9/3/24	MLLO Carpet Repair	It has been reported that the carpet at MLLO has a tear in it and needs to be glued down. The carpet coming out of the lunchroom in the hallway near restroom is torn.	368288
27524	9/20/24	CAP WO remove/correct Safety contact information	All outdated Safety Dept contact information sheets need to be removed/corrected within the district, including all conference rooms.	364199
26284	9/17/24 10/1/24	PRD vault lids with faded "NO LOAD" paint.	A crane was being moved in the area and there was potential for the covers to have been driven over. Vault covers at PRD and WD were inspected. It was found that many of the covers were no longer clearly labeled. WOs issued for re-labeling vaults with faded paint.	360699, 361126

Safety Action Items



We are currently working to determine the best way to categorize and report specific data regarding safety action items.

Thank you for your patience!

WORKPLACE VIOLENCE

Policy Update

REVIEW & SIGN

POLICYTECH

EMERGENCY?



**MAKE THE
RIGHT
CALL!**



STARTING OCT. 1st



CALL 911 from all Grant PUD locations

When using a landline, the system will route your call to the appropriate Public Safety Access Point (PSAP), whether MACC Dispatch or the appropriate Control Room, automatically.

NOTE: With the new configuration, we need to be certain that all phone adds and moves are performed by Electronic Technicians by generating a Service Desk+ ticket. More details will follow.

ELT Talking Points

October 2024

Winter Driving Tire Check

■ Tires

- Studded tires are permitted in WA November 1st through March 31
- Consider carrying chains, especially if traveling over passes
- Ensure tire tread is at least 4/32"
- Make sure tire pressure is within to the manufacture's recommended PSI

Take a penny or quarter and place it head-down into a tire groove.



2/32" — If you can see the top of Lincoln's head, your tire has less than 2/32" of tread left and needs to be replaced immediately.

4/32" — If you can see the top of Washington's head, but not Lincoln's, the tire is OK but close to wearing out.

Winter Driving Battery & Wipers Check

- **Battery**

- When was the battery last replaced?
- Clean any corrosion around the terminals to ensure proper connection

- **Wiper Blades & Washer Fluid**

- Replace wiper blades
- Windshield washer fluid



Winter Driving Tips

- General tips for winter driving
 - Be sure you always keep at least half a tank of fuel
 - Maintain longer stopping distances
 - Avoid sudden acceleration or braking when icy
 - Check weather conditions/forecasts before you leave for your destination
 - Stay up on your vehicle's preventative maintenance per the manufacture's recommendations.
 - What winter driving tips do you recommend?



- ✓ Choose to drive safe.
- ✓ Every trip.
- ✓ Every time.

Safe roads start with choices.



Thank You!



Safety@Grant

5-year, 80 MW Solar PPA *and* Proposed 3-Year 10% Slice Sale

Rich Flanigan, Sr. Manger of Wholesale Marketing and Supply
Phil Law, Senior Term Marketer

Commission Meeting

10/22/2024



Powering our way of life.

Proposed 5-year Solar PPA



Items for Discussion – Solar PPA

- Review of 2024 Request for Proposal (RFP)
 - Purpose / Structure
 - Results / Recommendation
- Tie to Integrated Resource Plan (IRP)
 - Selected Portfolio Additions
- Proposed PPA Details
 - Project Description
 - PPA Structure
- Q&A

Purpose of the RFP

This RFP is intended to help Grant PUD prepare for future and current challenges including:

- Serving customers under stable rates
- Sourcing appropriate and sufficient power to provide reliable service
- Positioning Grant PUD to meet future clean energy standards

It also is intended to help Grant PUD:

- Get a better understand a very competitive market for power supply
- Focus on finding long-term clean energy solutions
- Let developers know Grant PUD is looking for capacity

Two Categories of Proposals Requested

Group A Proposals include:

- Power Purchase Agreements Only
- Minimum of 50 MW, Maximum of 300 MW
- PPA start date between **Jan 1, 2025**, and **Dec 31, 2029**
- Term of 1 to 5 years

Group B Proposals include:

- Power Purchase Agreements or Ownership Offers
- Minimum of 50 MW, Maximum of 300 MW
- PPA or Ownership start date **no later than Jan 1, 2035**

- Term of 10 to 20 years

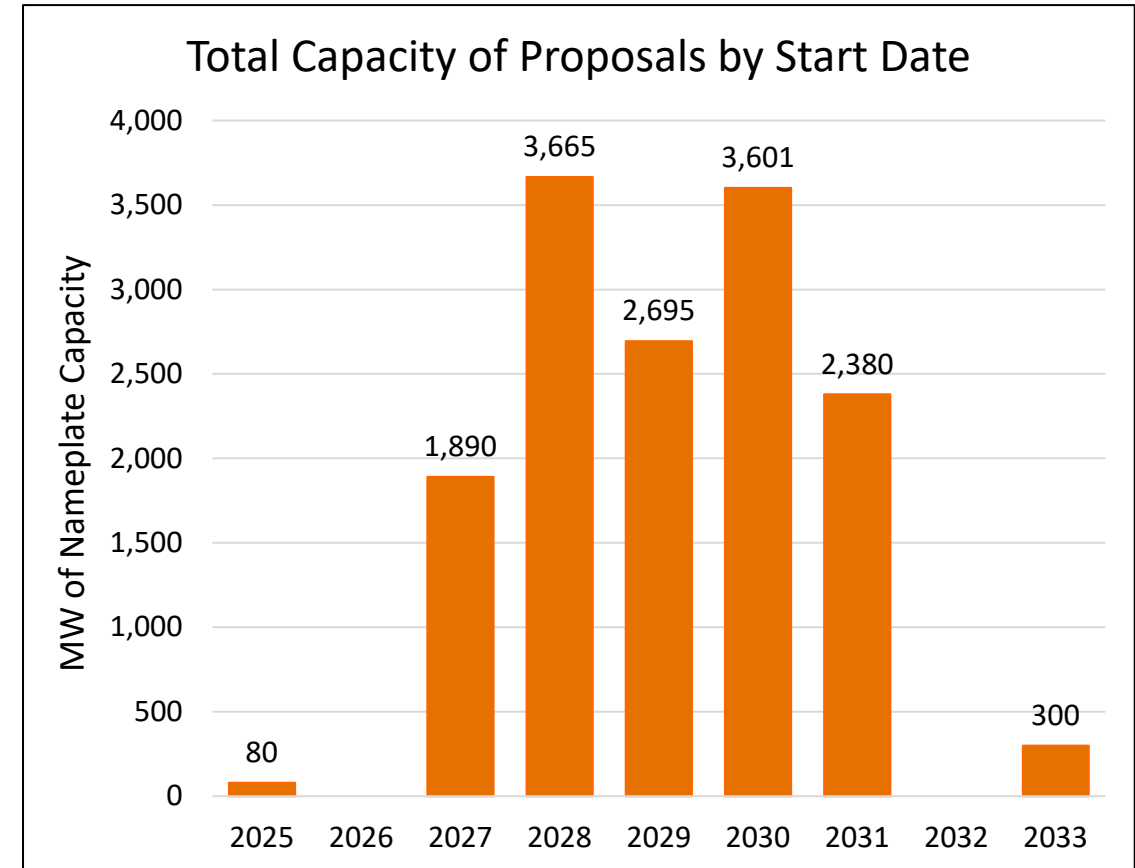


RFP Responses

- 14 proposals offered ownership; the remainder offered Power Purchase Agreements (PPA) only

82 Evaluated Proposals by Technology Type:

- 35 Solar
- 31 Solar + Storage
- 13 Stand Alone Storage
- 2 Wind
- 1 Biodiesel



Evaluation Criteria

Economic Evaluation (70%)

- Assessment of project potential market performance
- Valuation of performance in the GCPUD resource portfolio
- Economic evaluation performed using Ascend Analytics' PowerSIMM platform
- Included ex-post inclusion of value of ability to provide ancillary services

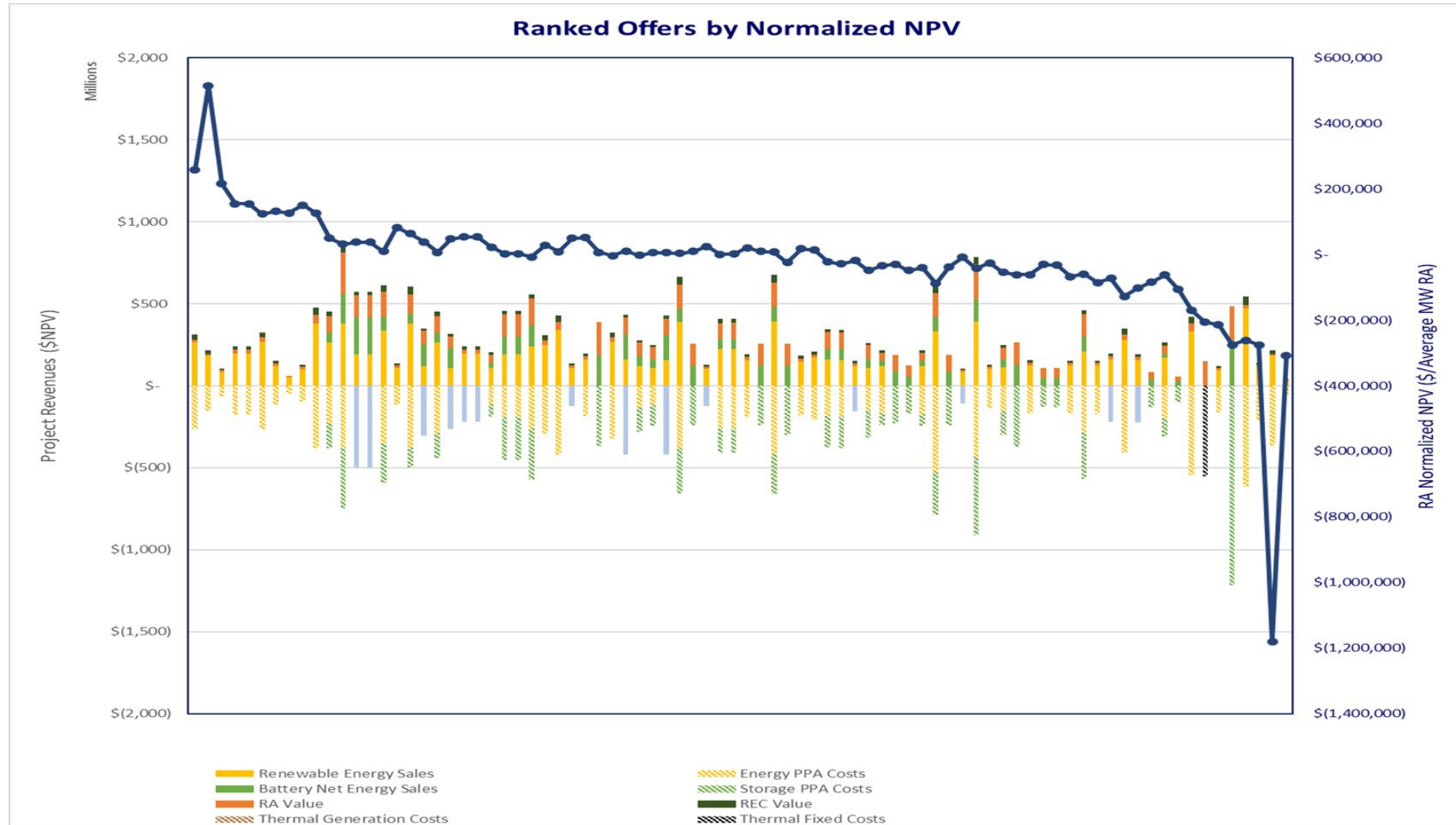
Risk Assessment (15%)

- Company strength
- Project Viability

Strategic Alignment (15%)

- Contribution to GCPUD's capacity needs, including emphasis on ability to contribute to entering binding WRAP program
- Contribution to GCPUD's energy needs

Request for Proposal – Modeling Results

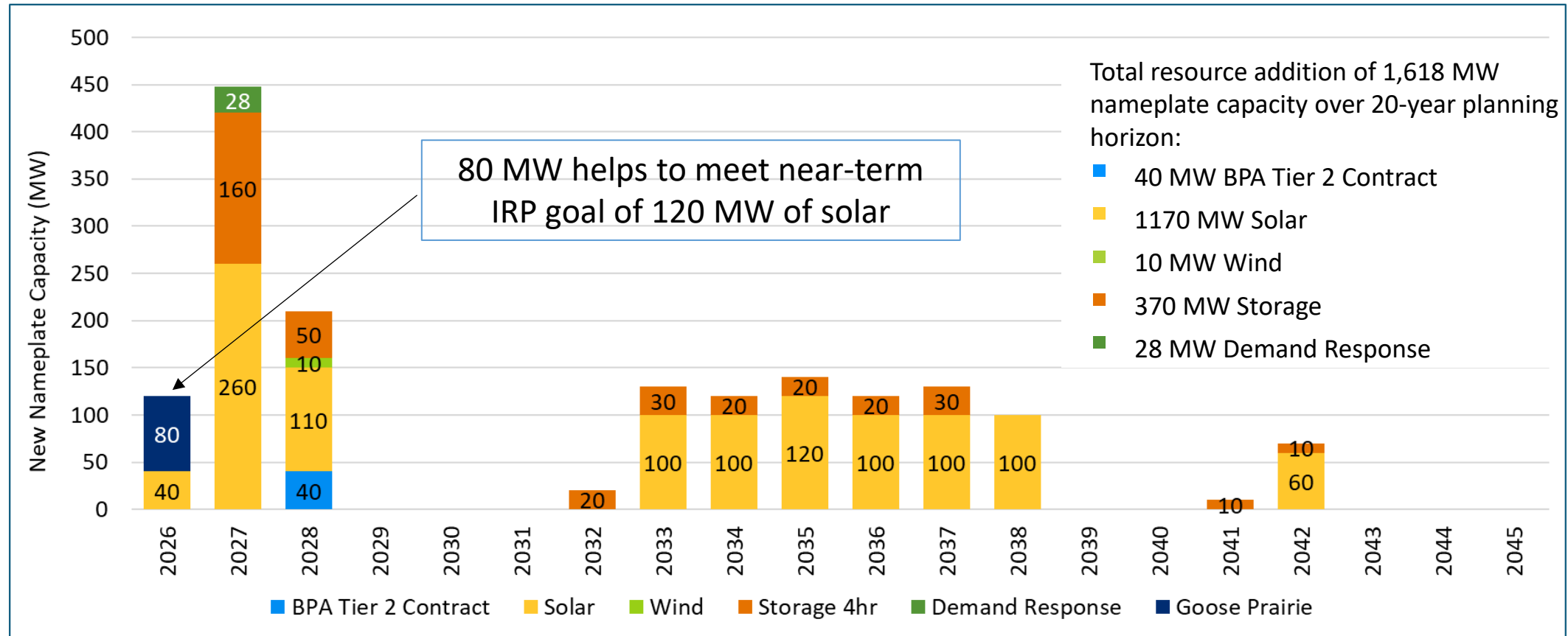


Responses Selected for Further Examination

Project Name	Developer	Term (Years)	Start Date	County	Offer Structure	Nameplate Capacity MW
Dry Falls Solar*	NextEra	20	Dec 2027	Grant	PPA	300
Dry Falls Solar plus Storage*	NextEra	20	Dec 2027	Grant	PPA	300 Solar 150 Storage
Goose Prairie Solar	Brookfield	5	Mar 2025	Yakima	PPA	80
Quincy Solar	Invenergy	20	Jan 2027	Grant	PPA or Ownership	120
Quincy Solar plus Storage	Invenergy	20	Jan 2027	Grant	PPA or ownership	120 Solar 120 Storage
Stateline Wind*	NextEra	10	Jan 2027	Walla Walla	PPA	300

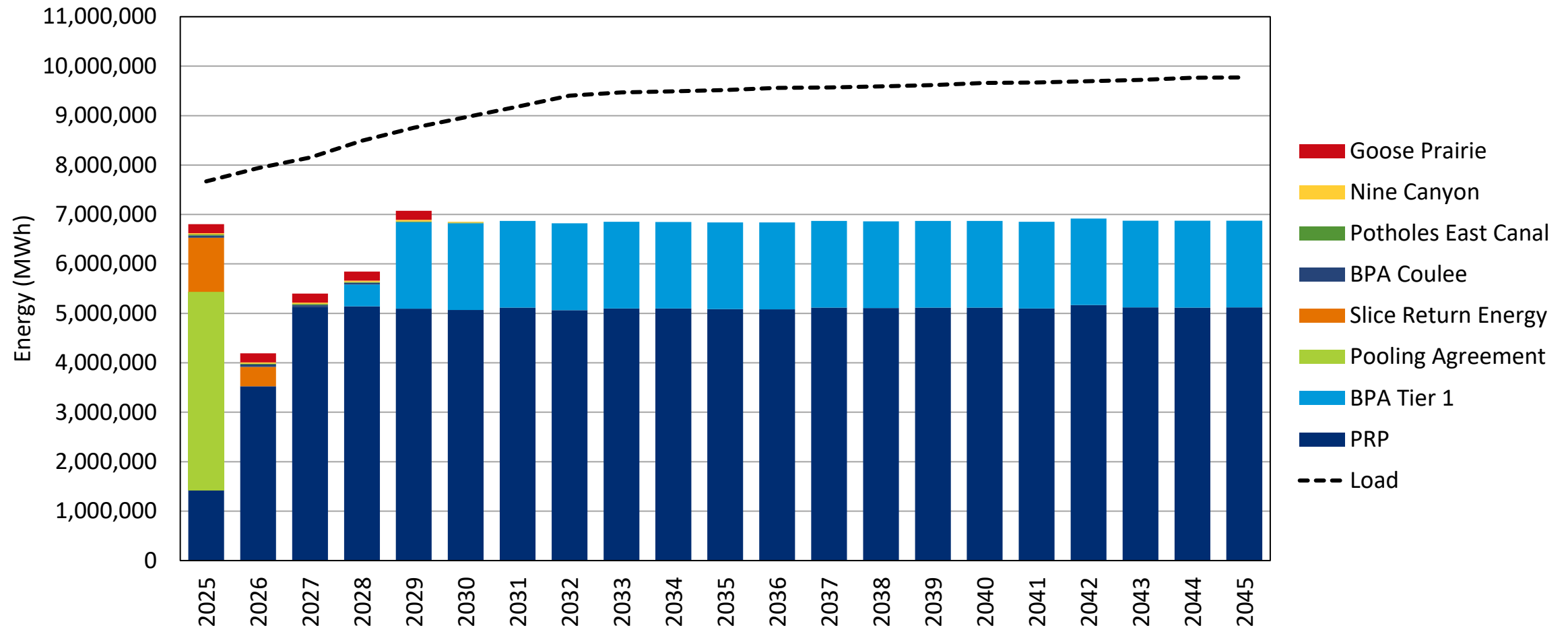
* Project already contracted before short-listing.

IRP Selected Portfolio Additions – Reference Case



- Figure shows year of addition only ; All additions are retained over planning horizon

Energy Position of Existing Portfolio



Project Information

- **Project Owner**
 - Goose Prairie Solar, LLC
- **Project Type**
 - 80 MW Solar
- **Project Location**
 - Located east of Moxee, Washington in Yakima County
- **Project Balancing Area**
 - Bonneville Power Administration

PPA Structure

- **Term**

- 5-years beginning on 1/8/2025

- **Product**

- Energy output at project bus (27.5% expected capacity factor)
- Capacity meets Western Resource Adequacy Program (WRAP) requirements
- BPA transmission to Grant BA (Grant has rights to Tx during term)

PPA Structure - *continued*

- Price / Power Portfolio Results

- In RFP average range \$70 – \$72 per MWh (includes Tx wheel)
- Cost increases by \$1.7M on an annual average (5-year term)
- Value at Risk (VaR) reduction of \$4.3M (4.5%) annual average basis

- Risk Management

- Subject Matter Expert and Legal sign-off on contract

Questions on proposed Solar PPA?



Proposed 10%, 3-year Slice



Items for Discussion – 10% Slice

- Future look at Grant's 63.31% Share of the Priest Rapids Project
- Tie to Strategic Plan
- Proposed Slice Details
- Indicative RFP Process
- Q&A

Grant PUD's 63% Retained Share as of 1/1/2025

Counterparty	Size	Year		
		2025	2026	2027
Morgan Stanley	33%			
PGE	20%			
Brookfield	10%			

Slice Attributes tie to Strategic Plan

- **Consistent with Strategic Plan Objectives**
 - **Maintain a Strong Financial Position**
 - Revenue certainty (eliminates water risk)
 - Strong premium for ancillary services and non-carbon attributes
 - Favored by bond rating agencies
 - **Provide Long Term Low Rates**
 - Insulates Grant PUD from some hydro variability (operational risk)
 - Maximizes value of Grant PUD Hydro capacity, flexibility, energy, and attributes

Transaction Terms

- 10% 3-year slice sale of Priest Rapids Project Output (PRPO) to Brookfield Renewables Trading and Marketing LP (Brookfield)
 - Starting date of 01/01/2025
 - Ending date of 12/31/2027
- Return firm energy purchase in shape of Grant PUD's retail load

Deal Structure

- Very similar to the terms of the other slice contracts
 - Brookfield is entitled to the following attributes
 - Energy
 - Capacity
 - Pondage
 - Ancillary services
 - Green attributes *(language included to protect under new carbon legislation)*

Contract Overview

- **Contract work with Brookfield**
 - Used the recent 10%, 3-year contract as the initial template
 - Review from internal council for legal compliance
 - Large internal stakeholder reviews
 - Finance
 - Accounting
 - Dispatch
 - Control Systems Engineering
 - Financial Planning and Analysis
 - Compliance
 - Risk
 - Added language to returned energy to have Western Resource Adequacy Program eligibility

Indicative RFP Valuation

- The indicative RFP process was broken down into three (3) components
 1. Fixed amount of shaped energy sold to bidder
 2. Firm Return Energy shaped to Grant PUD's retail load purchased from bidder
 3. Premium (\$) above shaped energy
- The indicative RFP process was broken down into four (4) phases;
 1. Phase I – Indicative bidding round from interested bidders
 2. Phase II – Identify top 3 bidders from Phase I and begin detailed structuring of product.
 3. Phase III – Second indicative bid from top 3 bidders
 4. Phase IV – Bilateral negotiations with top bidder from Phase III

Questions on proposed 3-year, 10% Slice of PRP?



Next Steps for the Commission

- **November 12th Commission Meeting**
 - Memo and redacted copies of both contracts in Commission packet for review
- **November 19th Commission Meeting**
 - First opportunity for Commission approval

Load Variance Report

Business Intelligence & Market Analytics
2024 Q3

Matt Birch
Senior Economist

Shaun Harrington
Senior Economist



Powering our way of life.

Overview

Actual & Forecast Billed Sales

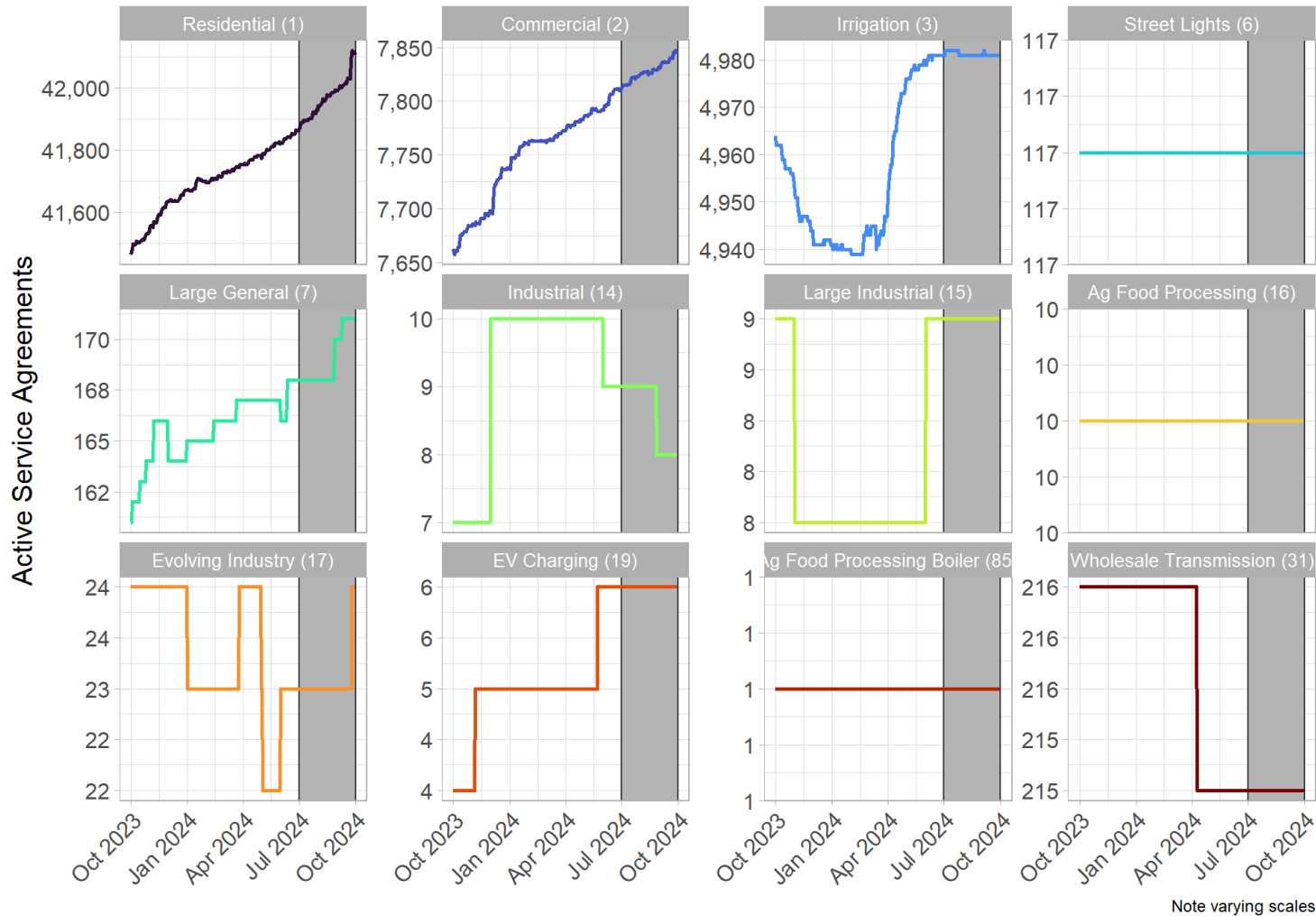
Grant PUD Actual & Forecast Billed Loads

	Actual YTD	Budget Forecast YTD	Budget Forecast EOY	Current Forecast EOY
Residential (1)	75.6	71.7	43.1	99.8
Commercial (2)	51.7	49.9	14.2	23.9
Irrigation (3)	170.6	138.5	91.6	67.9
Street Lights (6)	0.7	0.5	0.5	0.5
Large General (7)	41.8	38.4	38.4	46.0
Industrial (14)	34.2	47.0	48.7	51.1
Large Industrial (15)	314.1	354.5	355.1	312.0
Ag Food Processing (16)	41.6	42.2	41.3	35.4
Evolving Industry (17)	45.7	40.6	40.9	43.4
EV Charging (19)	0.3	0.1	0.1	0.2
New Large Load (94)	26.1	52.3	54.1	37.3
Total GCPUD	802.4	835.7	728.0	717.5

- 2024 Q3 total billed loads were 802.4 aMW.
 - This is 33.3 aMW (4%) below the projected 835.7 aMW.
- Large Industrial (15) accounted for the largest deviation from the forecast at 40.4 aMW above forecast.



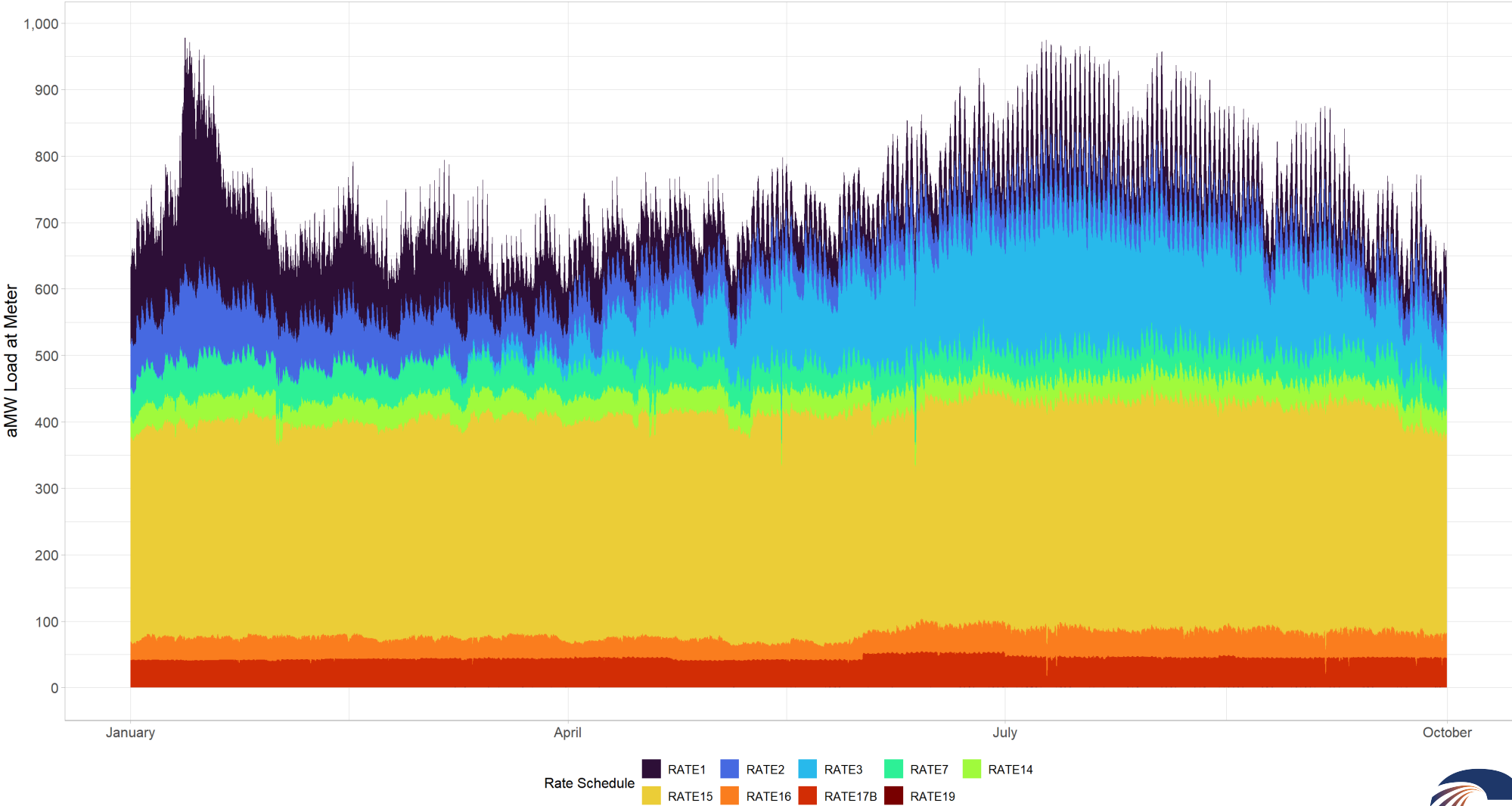
Customer Counts



- Customer counts are counts of active service agreements
- RS3 demonstrates seasonal fluctuation of irrigation customers

Hourly Loads at Meter

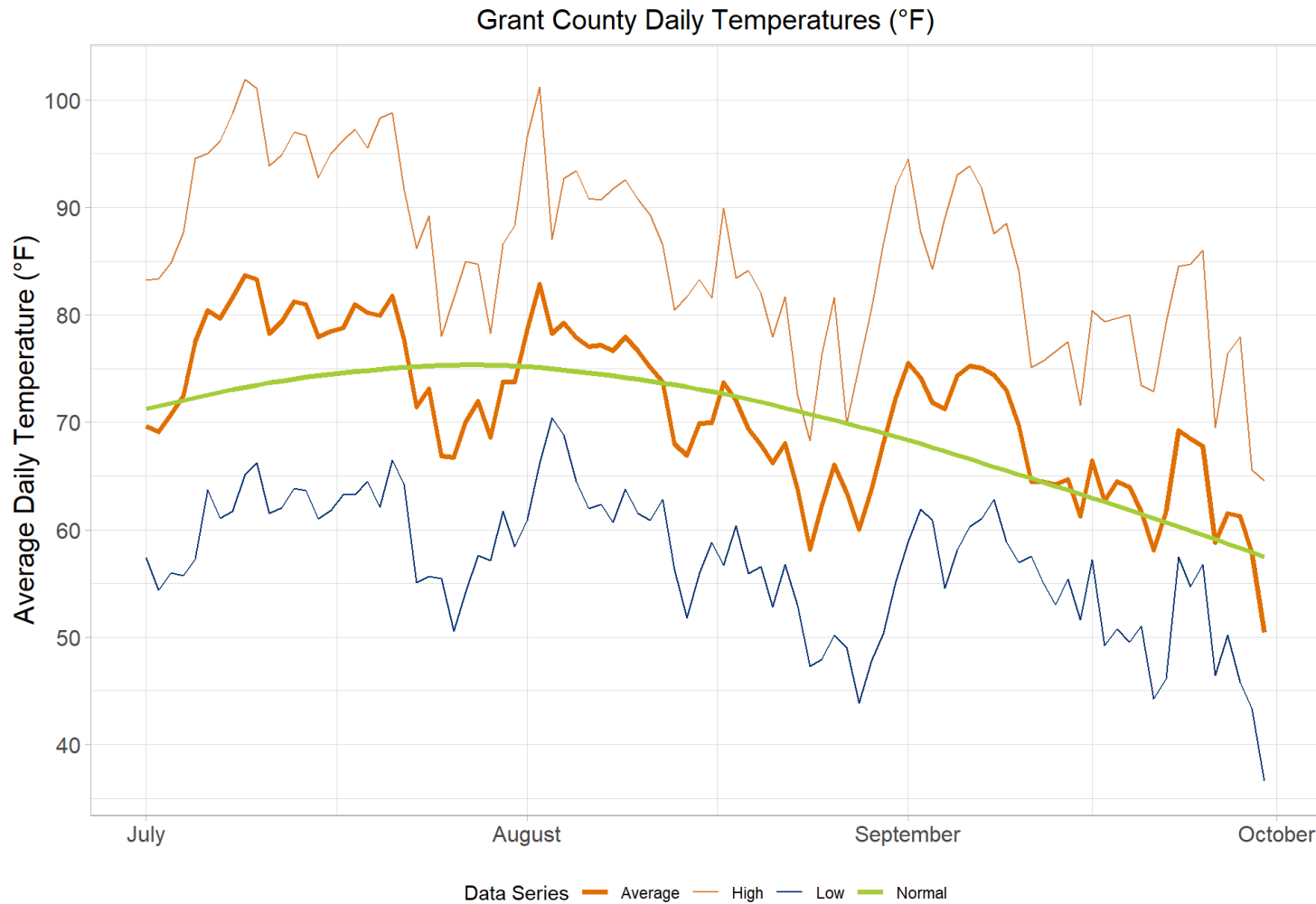
Grant PUD Hourly Loads at Meter by Rate Schedule



Powering our way of life.

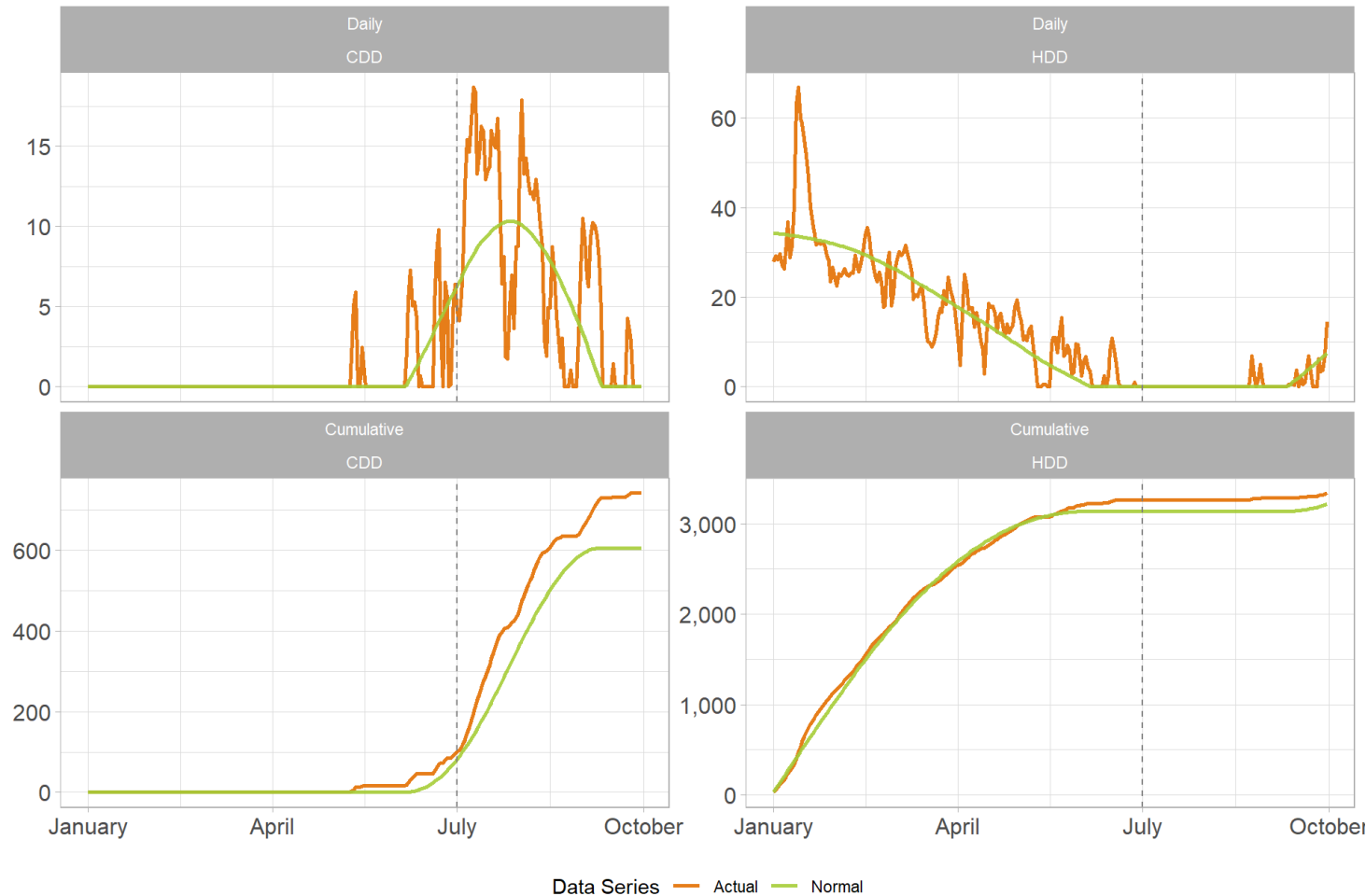
Weather

Daily Temperatures



- 57 days with an average temperature above normal.
- 35 days with an average temperature below normal.

Heating & Cooling Degree Days

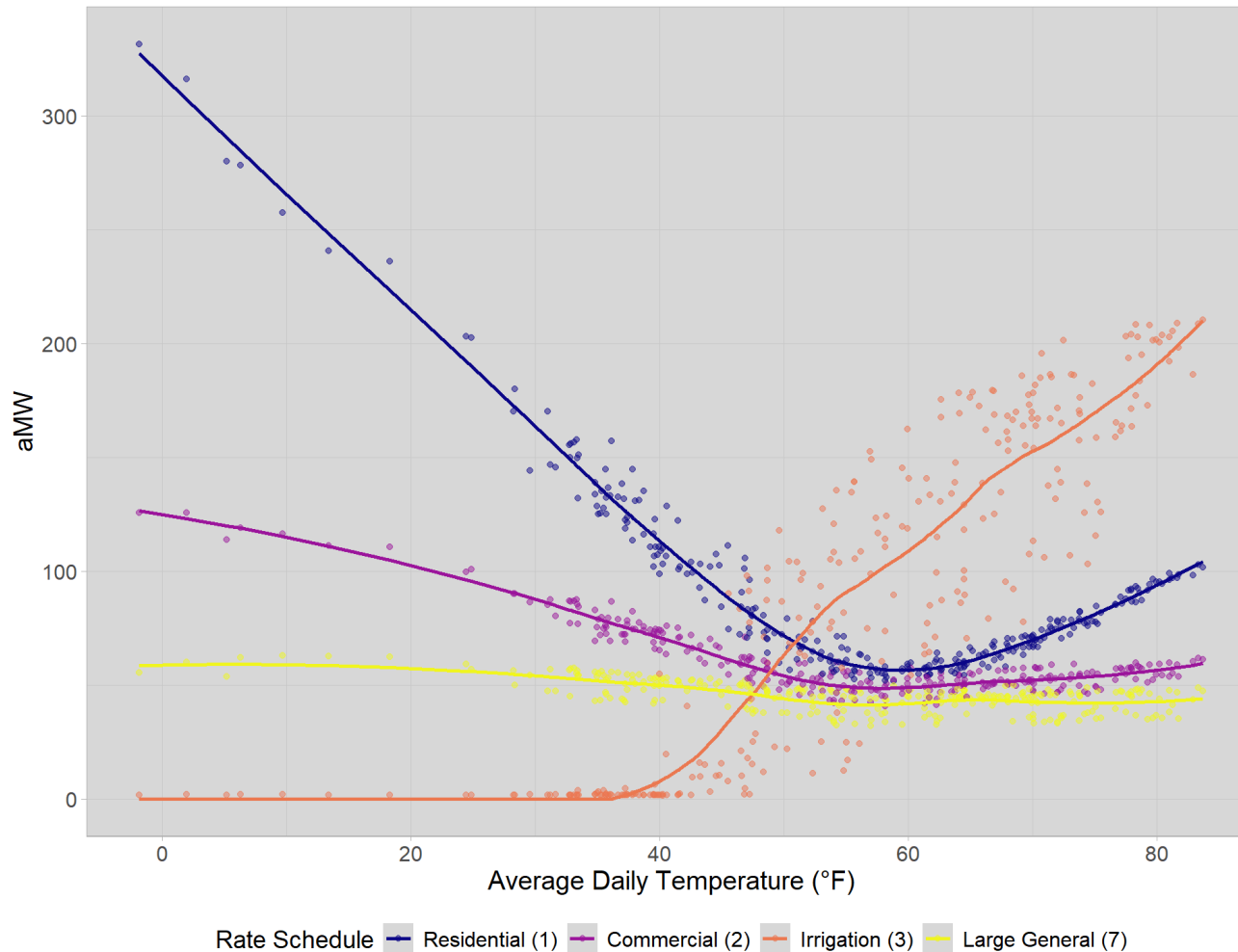


Source: weather.wsu.edu

- Gap between normalized and actual daily values is smaller for HDD than CDD.
- 1.6% more HDD than normal.
- 21.8% more CDD than normal.

Load Sensitivity to Temperature

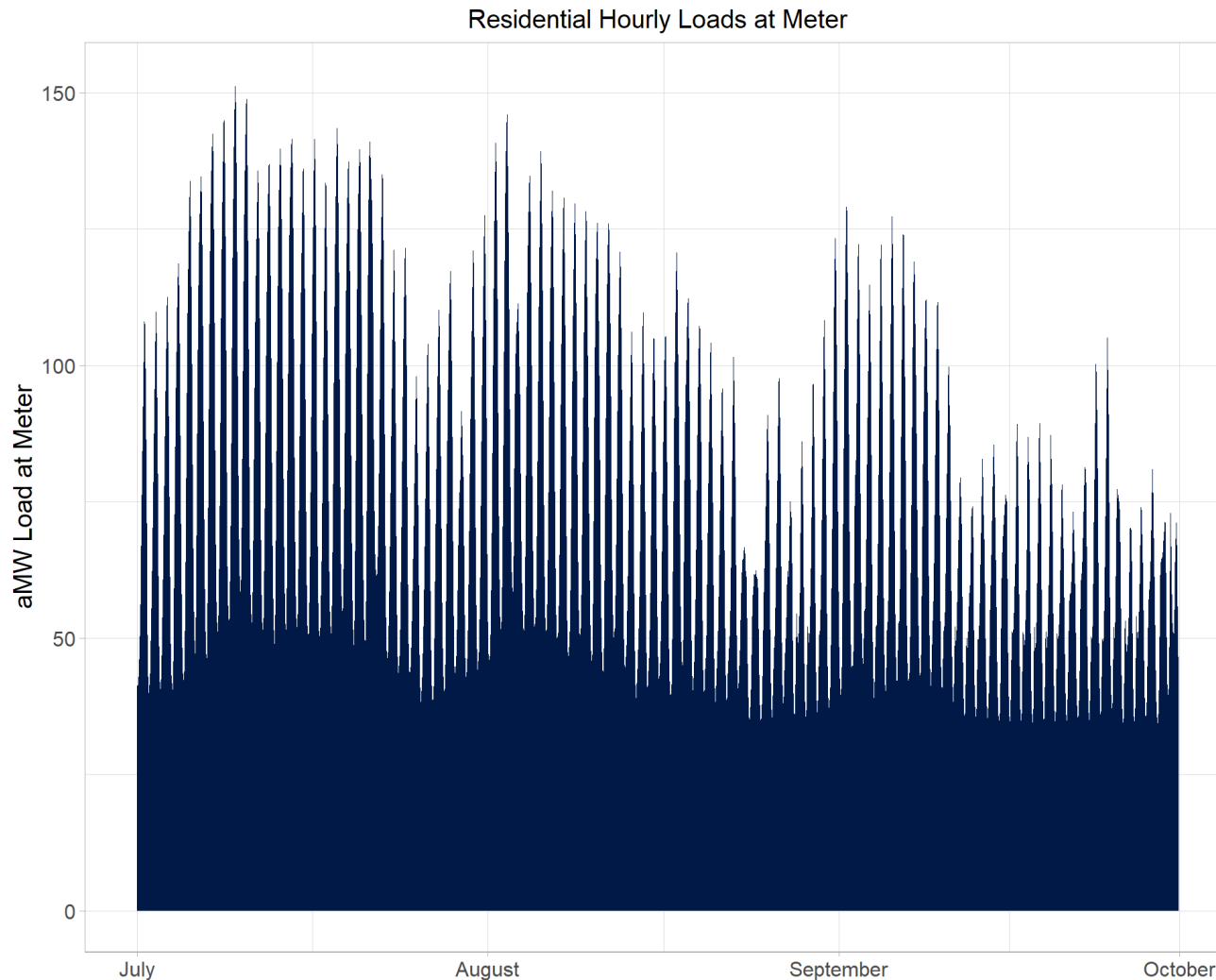
Grant PUD Core Customer Daily Loads & Temperature: 2024 YTD



- Residential & commercial demand is minimized around 60°F.
- Irrigation demand picks up at 40°F.
 - Rather than Heating & Cooling Degree days to model irrigation demand, Growing Degree Days are used with a base of 40°F.

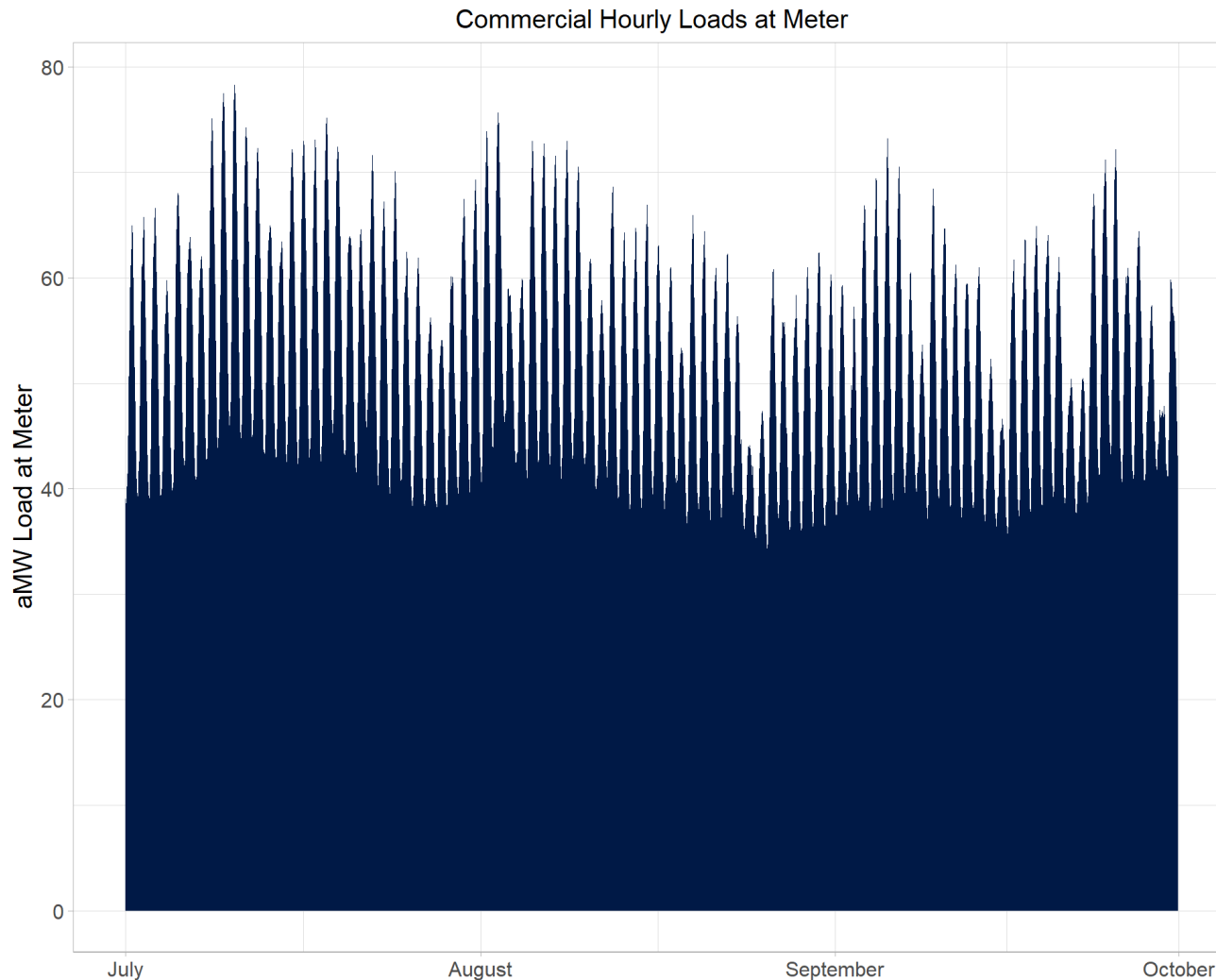
aMW Sales Detail

Residential: Rate Schedule 1



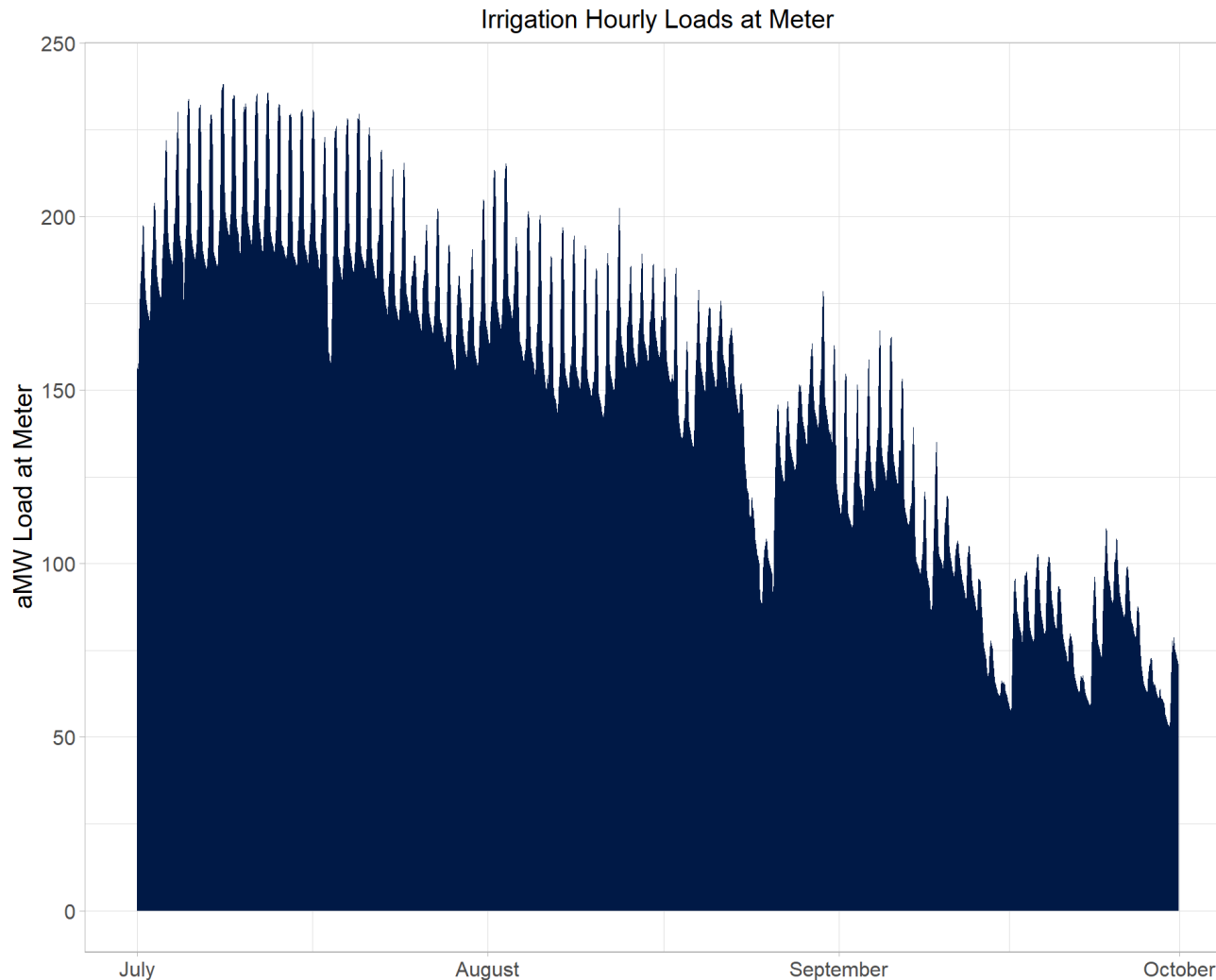
- Approximate weather-normalized load of 71.4 aMW compared to actual load of 74.8.
 - That is 4.6% below actual.
- 1.5% customer growth year-over-year.
 - 42,103 customers in 2024 Q3, compared to 41,464 a year ago.

Commercial: Rate Schedule 2



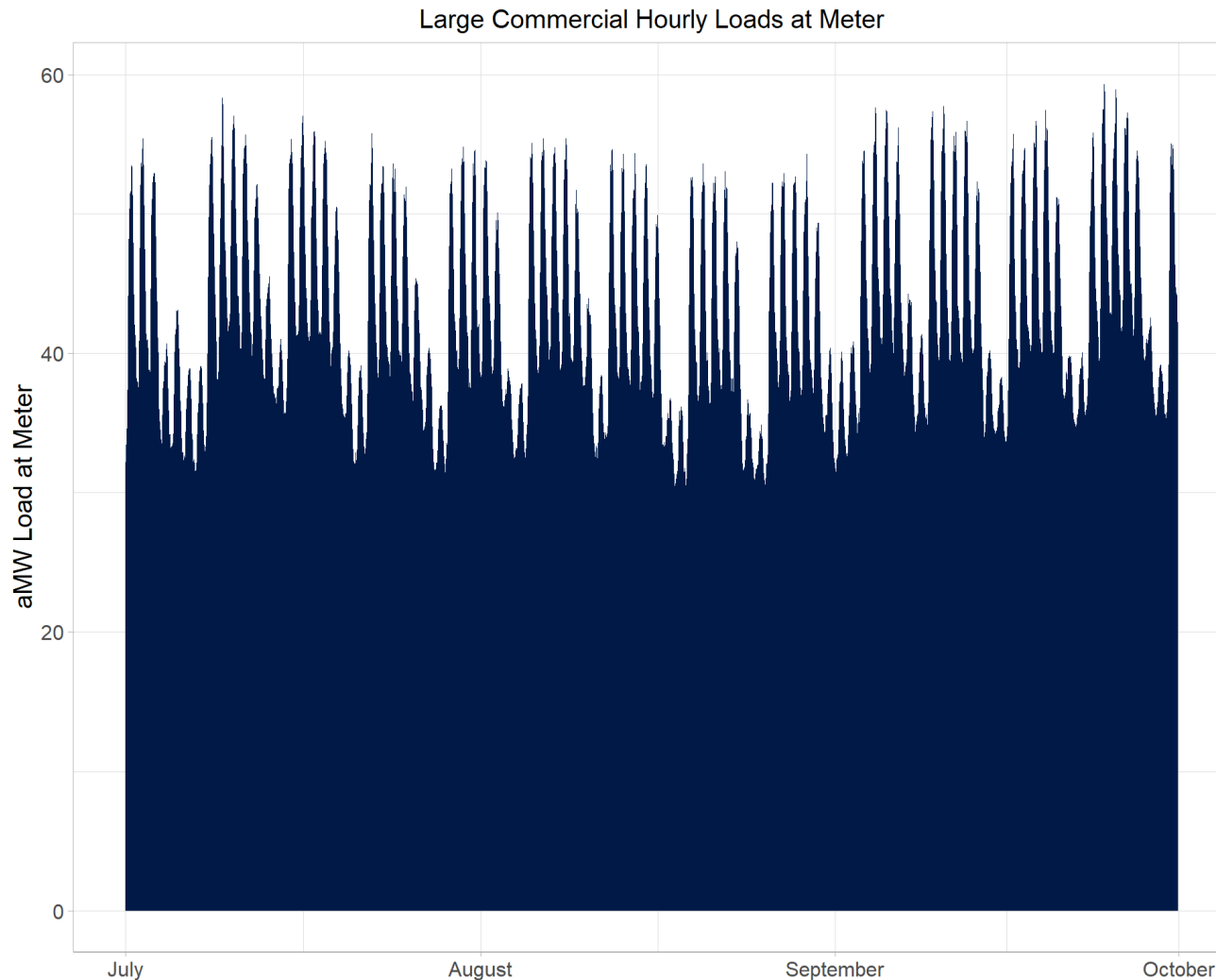
- Approximate weather-normalized load of 51.1 aMW compared to actual load of 52.1.
 - That is 1.86% below actual.
- 2.4% customer growth year-over-year.
 - 7,847 customers in 2024 Q3, compared to 7,663 a year ago.

Irrigation: Rate Schedule 3



- 0.3% customer growth year-over-year.
 - 4,980 customers in 2024 Q3, compared to 4,964 a year ago.

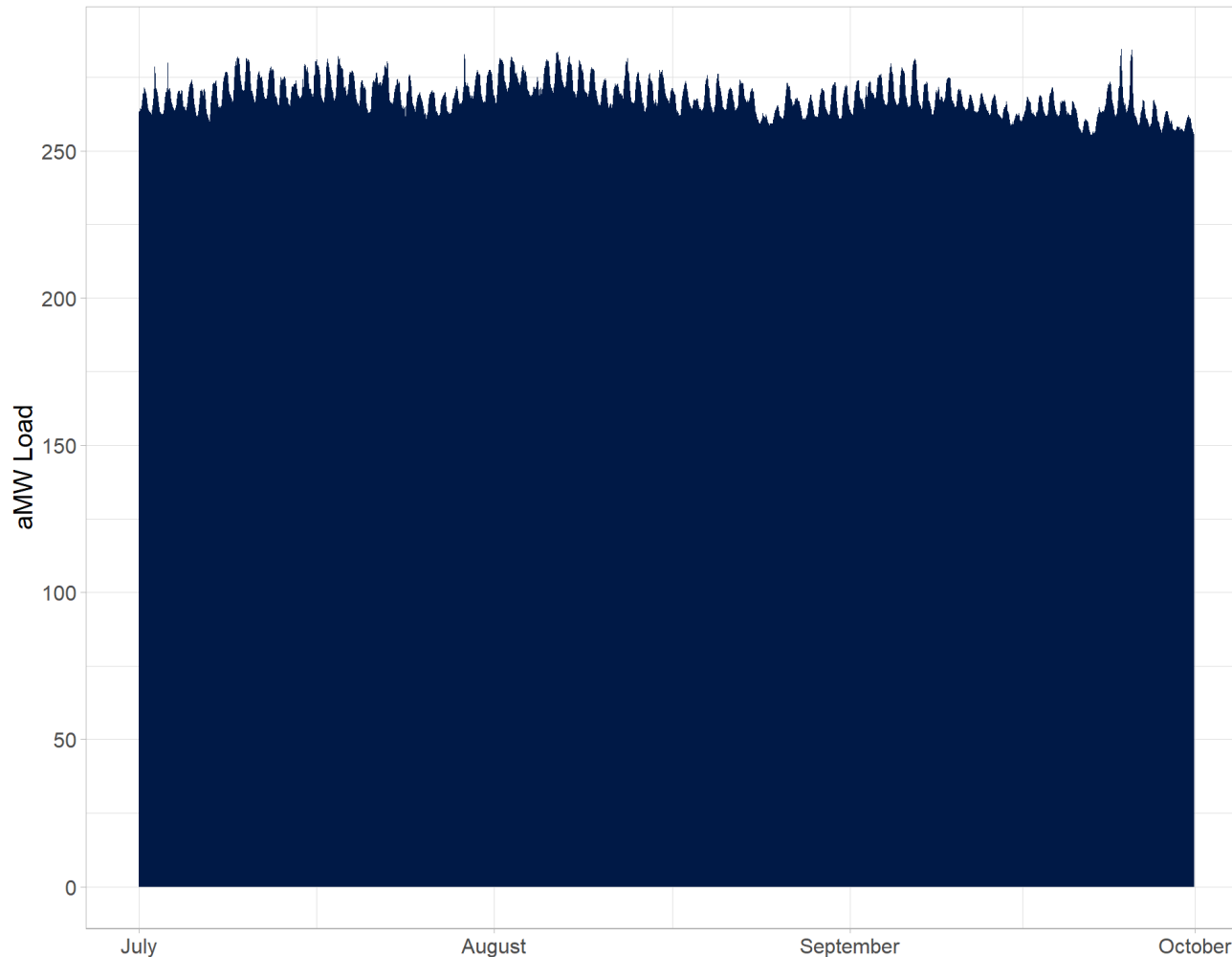
Large General: Rate Schedule 7



- Approximate weather-normalized load of 43 aMW compared to actual load of 43.
 - That is a 0.1% decrease.
- 6.2% customer growth year-over-year.
 - 171 customers in 2024 Q3, compared to 161 a year ago.

Industrial: Data Centers

Aggregate Hourly Data Center Loads at the Meter



- 7 customers
- Data centers were -11.1 aMW (4%) below forecast.
- 4 customers were above forecast, the rest were below.
- 0 were within 10% of their forecast.
- One data center missed its expectation by 28.09 aMW.

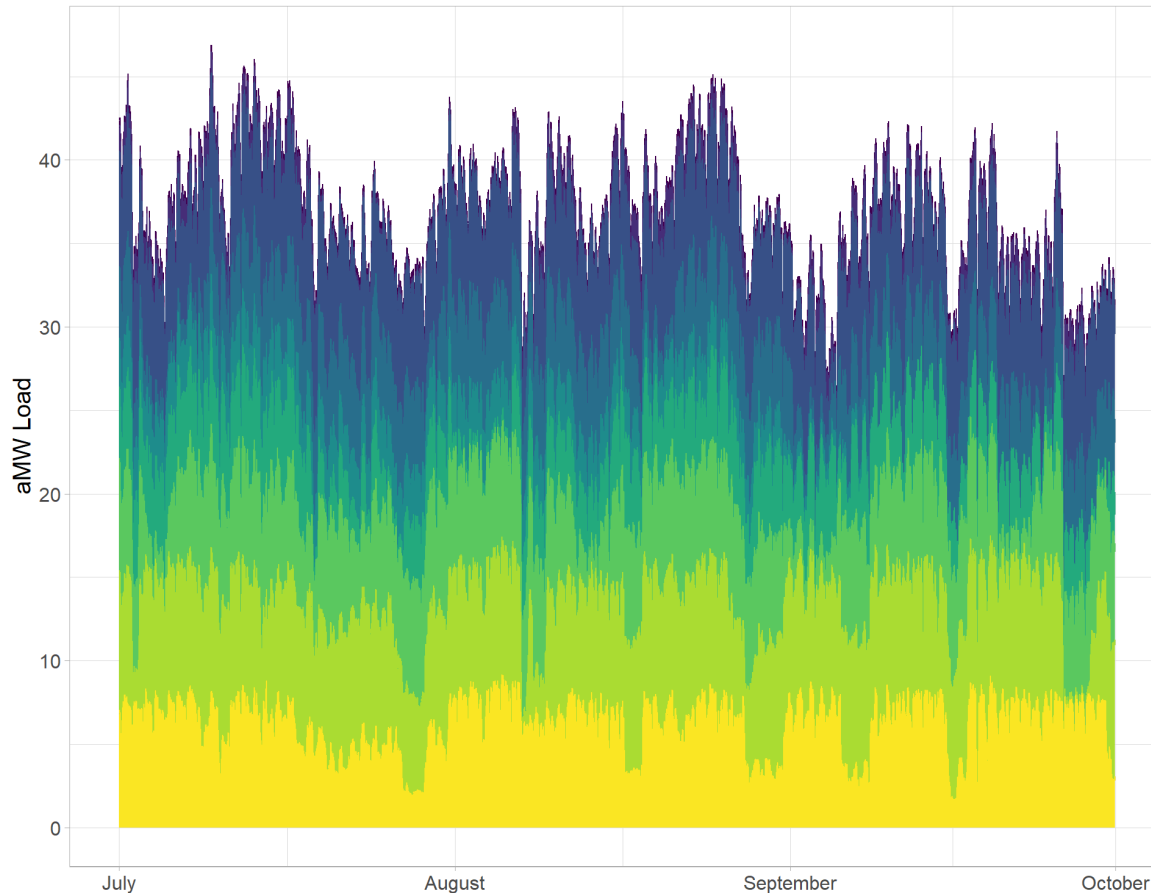
Industrial: Manufacturing



- This group represents 9 customers involved with differing manufacturing processes.
- Manufacturing loads were 24.9 aMW (23.3%) below forecast.
- One customer has not ramped up as quickly as anticipated and accounts for 64.2% of the difference.
- Two premises all but shut down for maintenance, but they will be resuming activities in October.

Industrial: Ag Food Processing

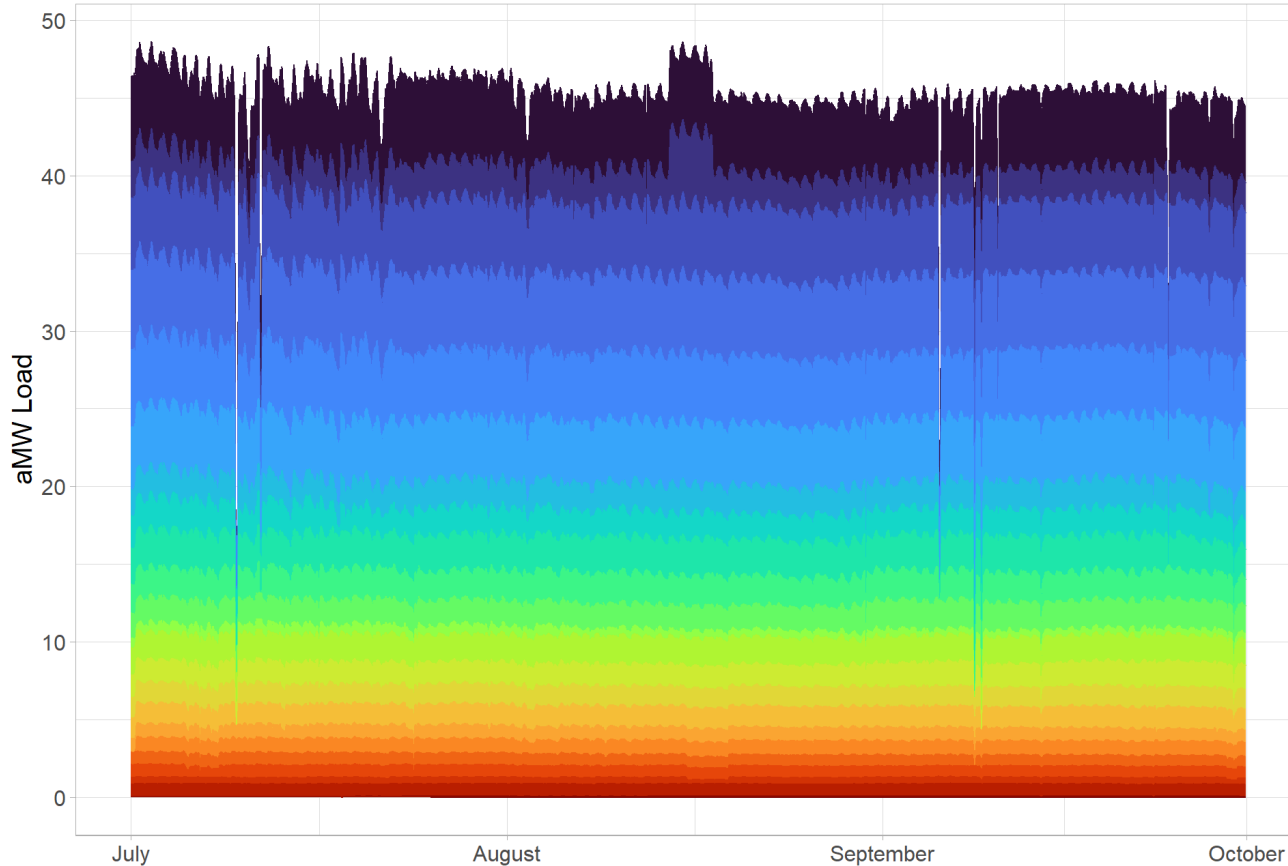
Hourly Ag Processing & Storage Loads at the Meter



- 7 customers.
- Not completely synonymous with Rate Schedule 16.
- Ag Food Processing & Storage loads were 0.6 aMW (2.3%) below forecast.
- 0 customer missed expectations by 1 aMW or more, and the largest miss was 0.5 aMW below expectations.

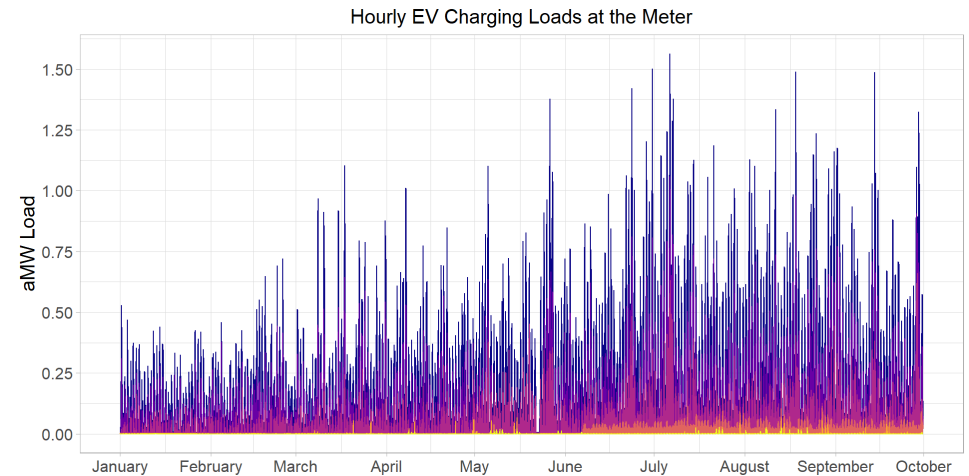
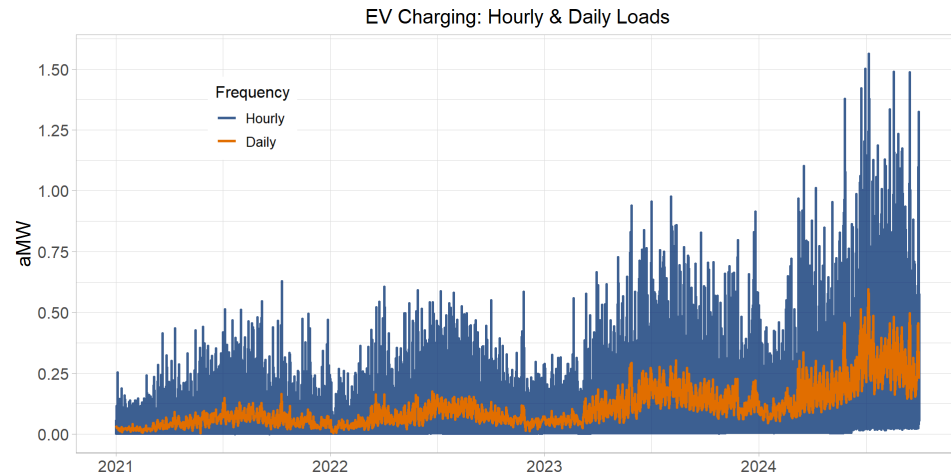
Cryptocurrency: Rate Schedule 17

Hourly Evolving Industry Loads at the Meter



- 16 customers
- Actual aMW was 45.7, and the forecast amount was 40.6 aMW.
 - That is 12.6% above forecast.

EV Fast Charging: Rate Schedule 19



- 3 customers within rate schedule.
- 55 hour-long periods surpassed 1 aMW this quarter.
 - Up from 22 hour-long periods in Q2.
- EV sales were 133% above forecast.

Key Takeaways

- Total system billed loads were 33.3 aMW (4%) below forecast.
- Large Industrial (15) accounts for the largest share of the forecast error at 40.4 aMW.
- 19.29% more degree days than a typical Q3.
- EV Charging capacity needs continues to grow quickly.

Power Delivery

October 2024 Business Report

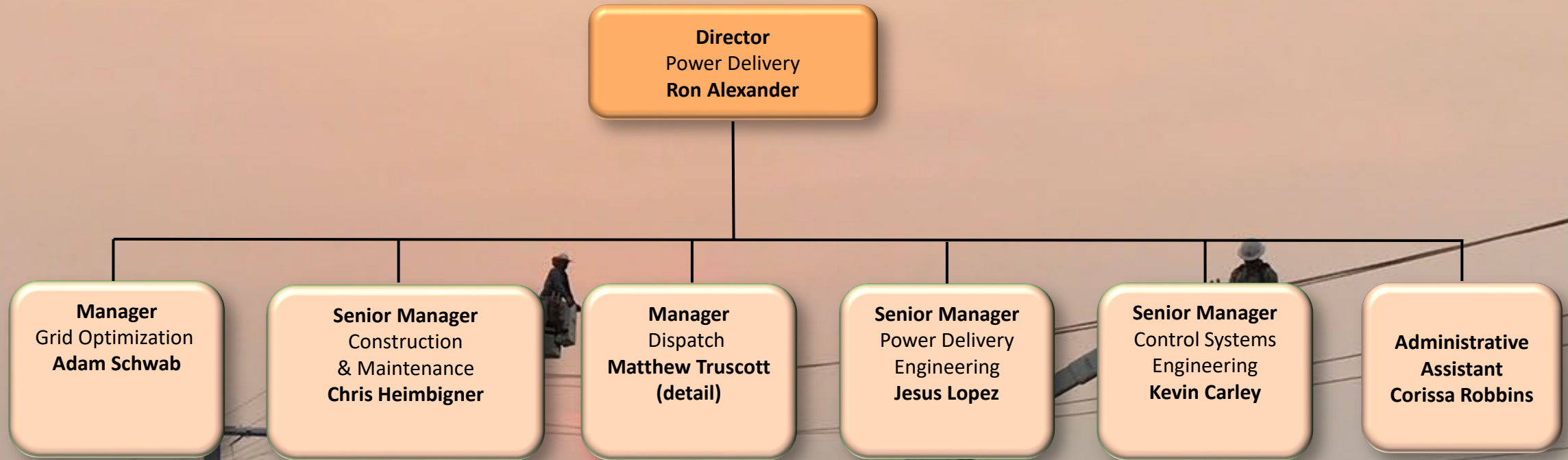
Purpose and Goal

Purpose: Provide our customers a safe and reliable transmission and distribution electric system.

Goal: Achieve our purpose while championing a culture of safety and operational excellence with focus on our values of safety, innovation, service, teamwork, respect, integrity and heritage.



Structure and Personnel



- Line Department –
- Power System Electricians
- Meter/Relay
- Maintenance Engineering
- Standards

- System Operations
- Operations Technical Assistants

- Systems Planning & Protection
- Transmission, Substation & Automation
- Customer & Distribution Engineering

- Control Systems
- Energy Accounting

SAFETY

Month	By Cost Center	Safety Mtg. No Attended	Safety Mtg. No Potential	Safety Mtg % Attended	# JSRs	# Close Calls	# Vehicle Incidents	Non-Recordables
July	PD	3	3	100%	3			
August	PD	3	3	100%	3			
September	PD	3	3	100%	3			
July	C&M	98	98	100%				1
August	C&M	96	98	98%				2
September	C&M	*86	97	89%			1	
July	PD Dispatch	16	17	94%				
August	PD Dispatch	15	16	100%				
September	PD Dispatch	15	16	94%				
July	PD Engineering	*						
August	PD Engineering	*						
September	PD Engineering	*						
				97%	9	0	1	3

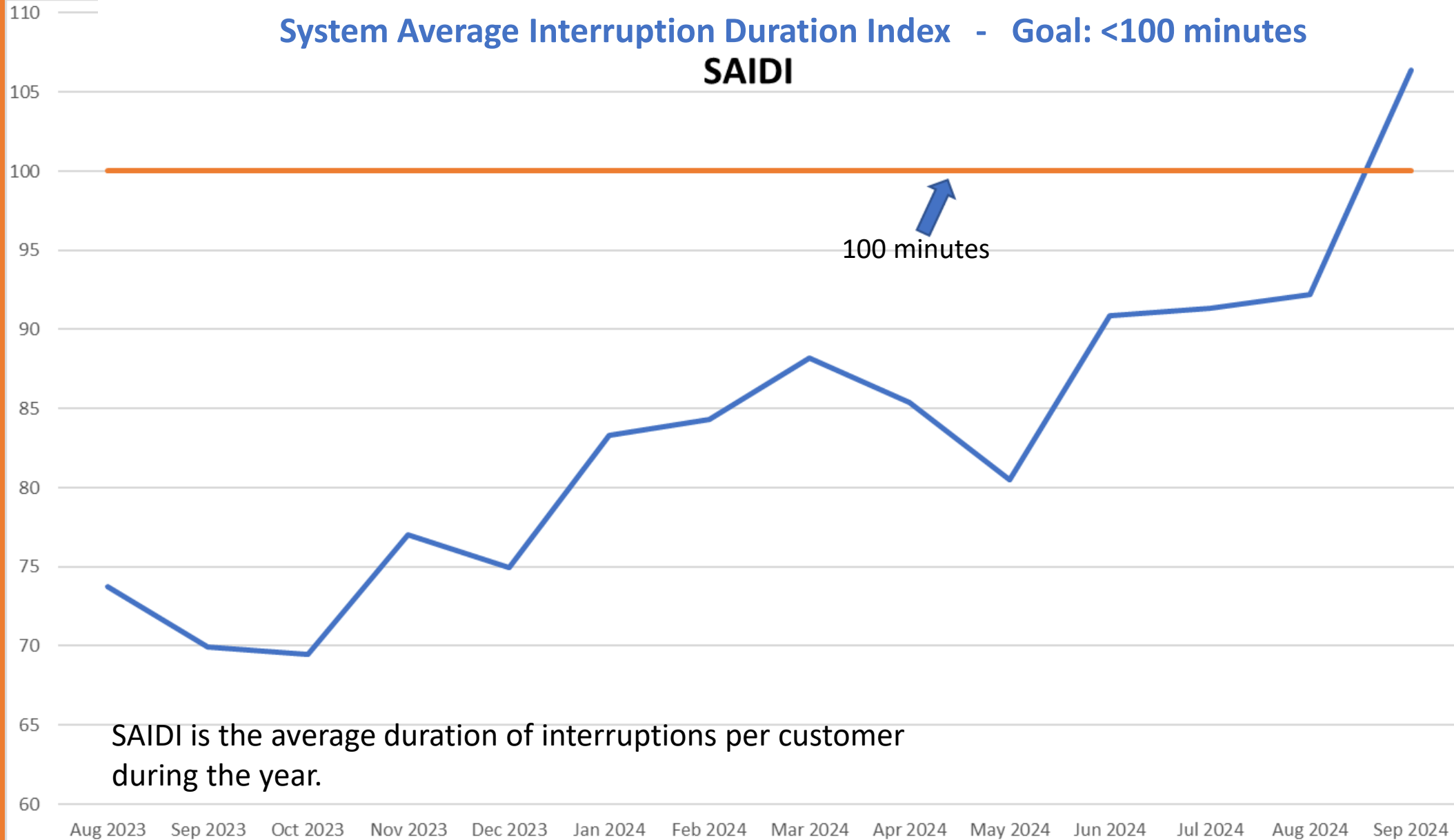
* People assigned to PD Engineering was incorrect, Safety is updating the actual numbers



Operational Performance - SAIDI

System Average Interruption Duration Index - Goal: <100 minutes

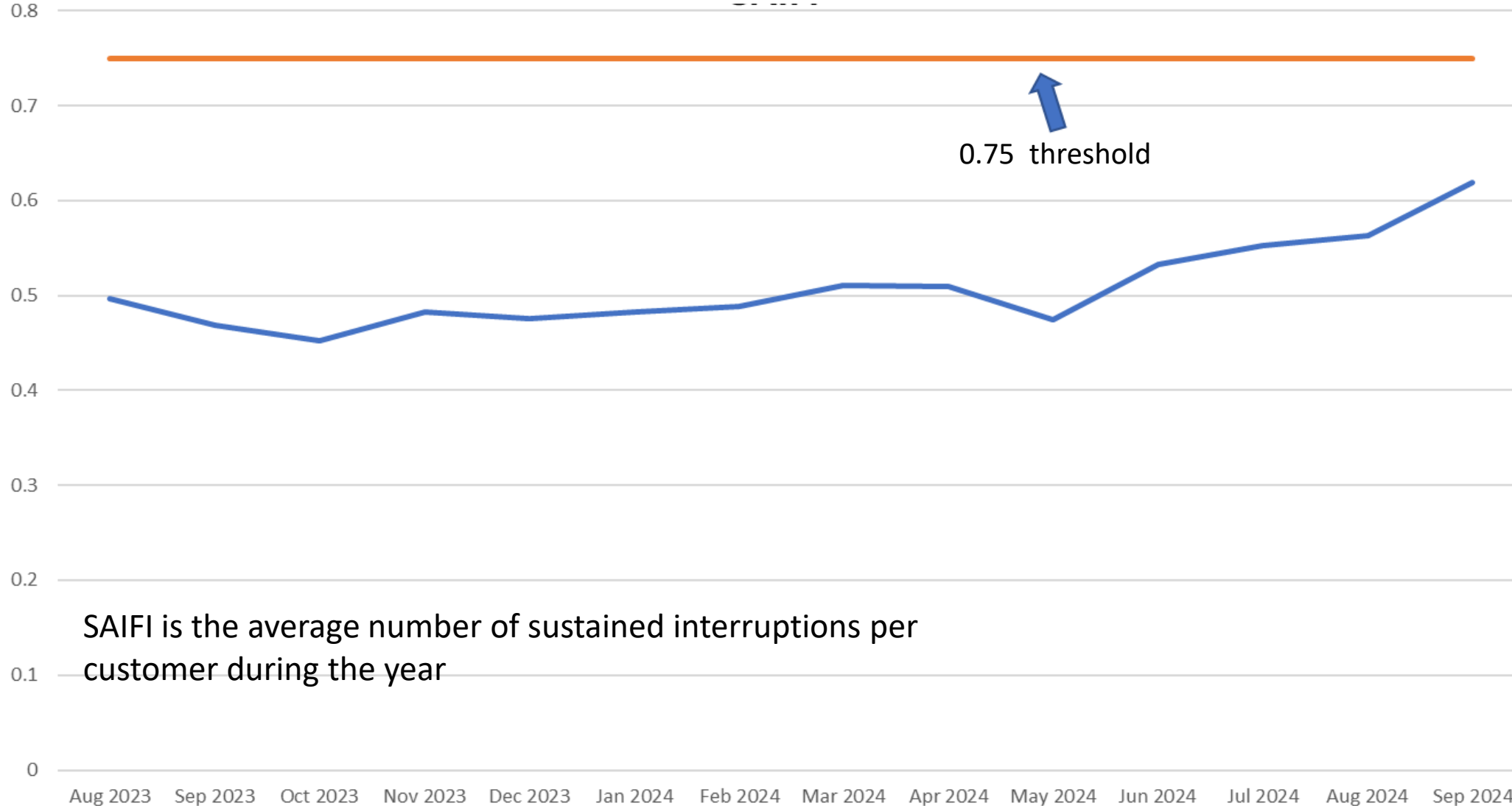
SAIDI



Month	SAIDI	Target
Dec 2021	124.403	100
Jan 2022	122.361	100
Feb 2022	120.573	100
Mar 2022	122.319	100
Apr 2022	132.05	100
May 2022	129.496	100
Jun 2022	133.322	100
Jul 2022	110.56	100
Aug 2022	104.565	100
Sep 2022	78.307	100
Oct 2022	83.247	100
Nov 2022	67.597	100
Dec 2022	75.249	100
Jan 2023	77.667	100
Feb 2023	77.802	100
Mar 2023	77.376	100
Apr 2023	72.022	100
May 2023	82.617	100
Jun 2023	73.226	100
Jul 2023	78.645	100
Aug 2023	73.712	100
Sep 2023	69.935	100
Oct 2023	69.442	100
Nov 2023	77.018	100
Dec 2023	74.979	100
Jan 2024	83.34	100
Feb 2024	84.294	100
Mar 2024	88.174	100
Apr 2024	85.4	100
May 2024	80.523	100
Jun 2024	90.888	100
Jul 2024	91.357	100
Aug 2024	92.175	100
Sep 2024	106.372	100

Operational Performance - SAIFI

System Average Interruption Frequency Index - Goal: <0.75 Incidents per customer

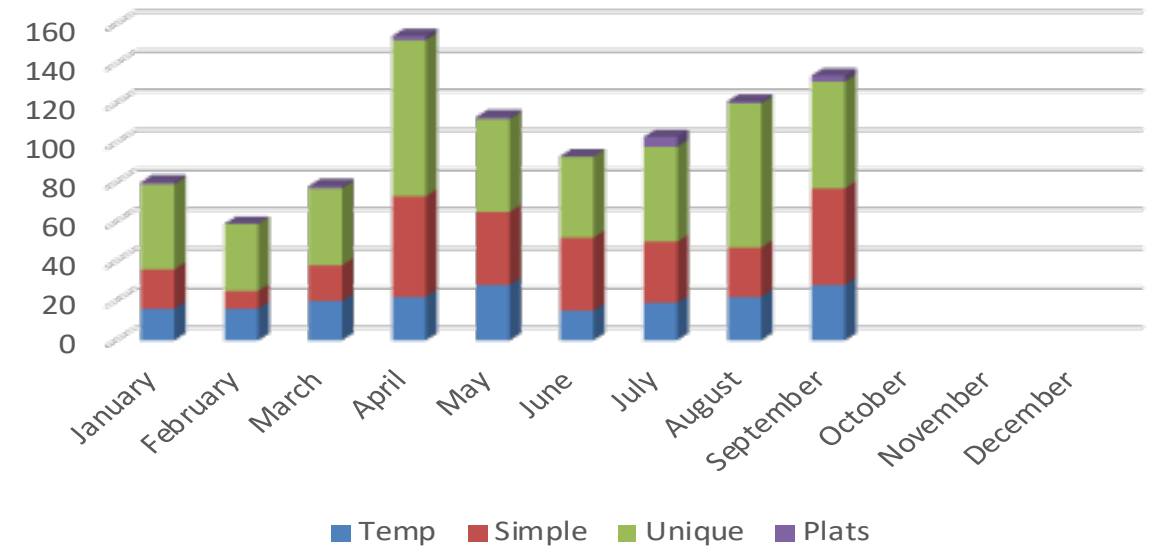


Month	SAIFI	Target
Dec 2021	0.75	0.75
Jan 2022	0.727	0.75
Feb 2022	0.708	0.75
Mar 2022	0.714	0.75
Apr 2022	0.77	0.75
May 2022	0.785	0.75
Jun 2022	0.826	0.75
Jul 2022	0.597	0.75
Aug 2022	0.567	0.75
Sep 2022	0.568	0.75
Oct 2022	0.583	0.75
Nov 2022	0.494	0.75
Dec 2022	0.498	0.75
Jan 2023	0.519	0.75
Feb 2023	0.517	0.75
Mar 2023	0.522	0.75
Apr 2023	0.483	0.75
May 2023	0.551	0.75
Jun 2023	0.512	0.75
Jul 2023	0.538	0.75
Aug 2023	0.497	0.75
Sep 2023	0.469	0.75
Oct 2023	0.452	0.75
Nov 2023	0.483	0.75
Dec 2023	0.476	0.75
Jan 2024	0.483	0.75
Feb 2024	0.488	0.75
Mar 2024	0.511	0.75
Apr 2024	0.51	0.75
May 2024	0.475	0.75
Jun 2024	0.533	0.75
Jul 2024	0.552	0.75
Aug 2024	0.563	0.75
Sep 2024	0.619	0.75

Operational Performance – Work Orders Rec'd

CUSTOMER ENGINEERING WORK ORDERS

WORK ORDER TYPES



2024	Temp	Simple	Unique	Plats	Total	Total
January	16	20	43	1	80	
February	16	9	34	0	59	
March	20	18	39	1	78	217
April	22	51	79	2	154	
May	28	37	47	1	113	
June	15	37	41	0	93	360
July	19	31	48	5	103	
August	22	25	73	1	121	
September	28	49	54	3	134	358
October					0	
November					0	
December					0	0
	186	277	458	14		
						Yearly Total: 935



POWER DELIVERY – INVESTING IN OUR PEOPLE!

***NEW* - 5-year strategy “finalized” for Power Delivery**

- Asset Stewardship: power quality, tracking of non warehouse stock, reduction of variety in equipment
- Work Management: identifying all work performed within PD and time required to accurately identify human resource capacity
- Workforce Development: Updating position descriptions, developing career ladders for all union and salaried positions, development plans for each employee to grow in their career, field or expertise
- Grid of Tomorrow: Looking to the future, identifying needs for Transmission and Distribution growth and reliability, staying ahead of industry and regulation driven changes/needs.



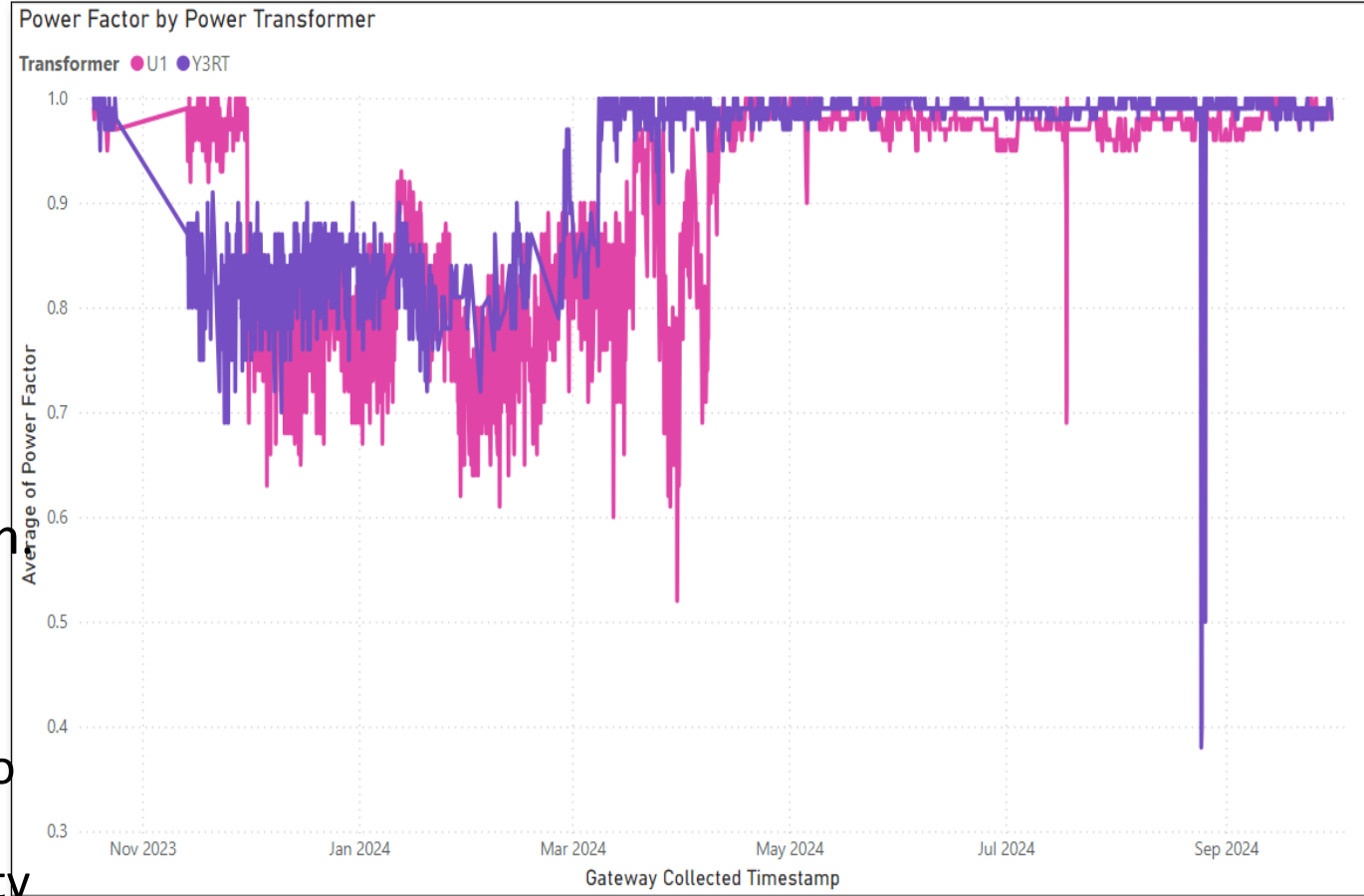
***NEW* - sample of Key Performance Indicators within PD:**

- 100% Safety attendance and JSR completion by end of 2024
- Position Descriptions and Career Development plans for 50% staff updated by end of 2025
- 5-year strategy target dates met within 20% of scheduled time frame
- Deployment of distribution feeder audits for GIS and Synergi update to begin by end of 2024 with at least 10 station feeders updated annually



Grid Optimization

- White Trail HP feeder audits completed. 10 sites found in excess of 100% transformer loading, one meter site found to have broken PT wire and only showing 1/3rd of registration
- WT5 issues found and being corrected
- 11 Cap Bank sites based on review are being designed
- 3 new cap bank locations being proposed due to audits
- Round Lake and Black Sands moved up in priority for feeder audits based on AMI data showing poor power factor
- GIS discrepancies from what is seen in the field are regularly being addressed
- New bi-annual regulator inspection form deployed, finding PF and Harmonic issues in the County



Power Delivery Engineering

QTEP

- Mountain View Switchyard 60% design complete and in review.
- Preparing Quincy east transmission steel structure procurement documents.
- Supporting easement acquisition and environmental reviews.

West Canal & Quincy Foothills Substations

- Supporting testing and commissioning:
 - West Canal first lineup energized and in service on 9/17.
 - West Canal second lineup energization scheduled by 10/18.
- Began testing and commissioning of first lineup at Quincy Foothills.

Painted Hills Switchyard

- Working on 90% design package.
- Commenced procurement of long-lead items.

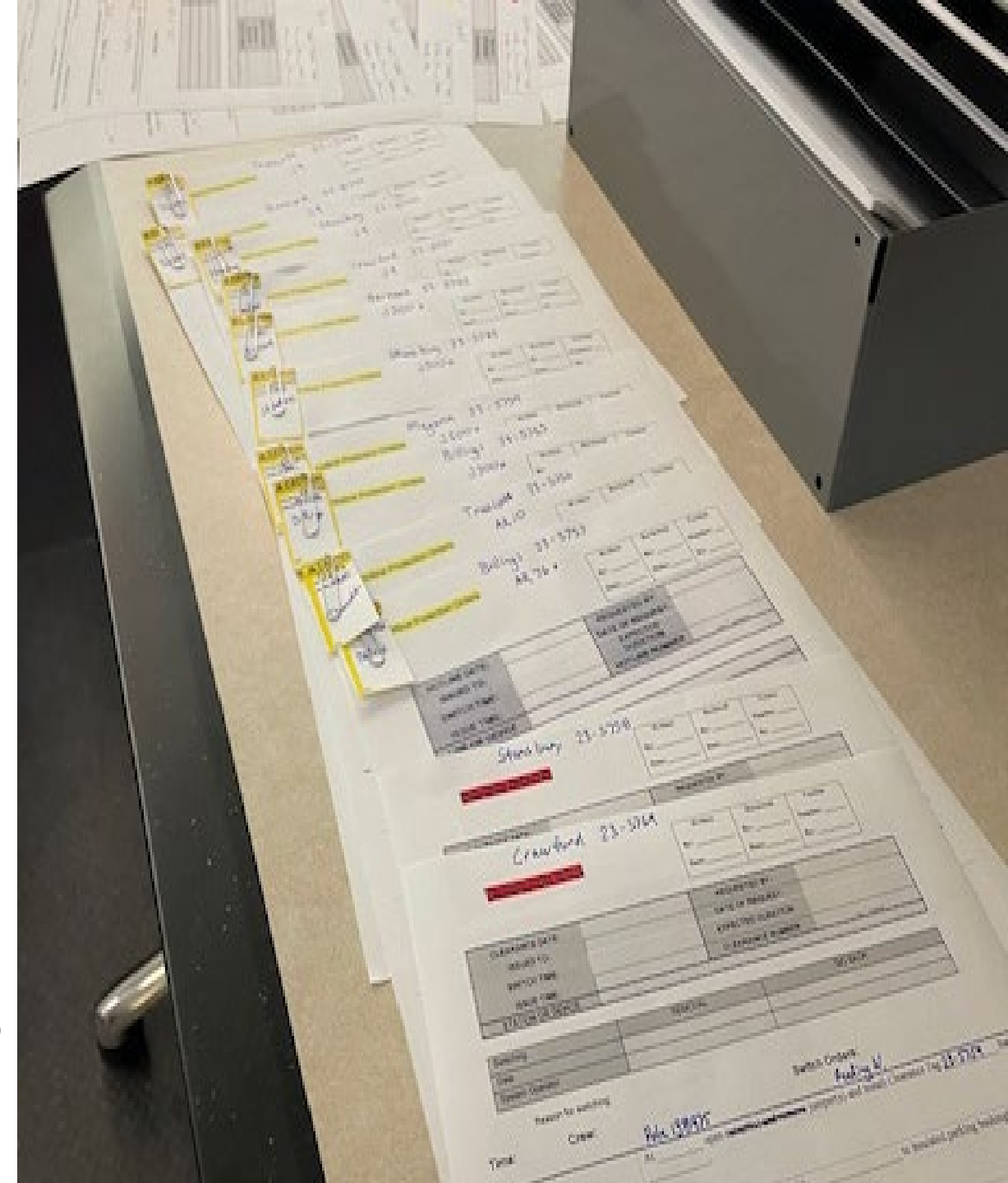
Procurement

- Managing development of multi-year procurement contracts:
 - High voltage circuit breakers
 - High voltage disconnect switches
 - Station instrument transformers



System Operations (Dispatch)

- Q5 load re-allocation of load – This is being finalized. Crews have the work order and coordinating with electric shop to get the primary meter installed.
- Ancient Lake Relay Upgrade – Relays ordered and scheduled to be upgraded this winter. An upgrade being reviewed to add transfer trip to AL-FH 115.
- Avtec Phone issue – Telecomm working to upgrade Avtec systems or go to an IP solution and away from Avtec
- Training for System Operators last quarter included: Wholesale Markets and Reliable Operations; Pacific Northwest Operations and RAS; Operating Reserves
- Max Peak Loading 1085MW (Hourly 1056MW)
- Dispatch Manager detail being allowed for a few personnel that have shown interest in the position. Currently: Matthew Truscott
- Dispatcher Kelly Schwint temporarily assigned to dayshift to assist with development of the EMS system



Control Systems Engineering

- **Generation Management System (GMS) ongoing**

- Continuing work on SCADA development for P01 turbine/generator replacement/rehab project, scheduled for completion in Q1 of 2025.
- Commissioning and SCADA work continues for Wanapum Dam Station Service replacement project.
- Anticipate year end completion of the GMS instrumentation and programming project work at Priest Rapids to obtain Grant's NPDES permit. (National Pollutant Discharge Elimination System)

- **Energy Management System (EMS) ongoing**

- OSI onsite 9/30 – 10/11 to perform SAT of the new Monarch EMS system.
- New ConsoleWorks, FortiAnalyzer, FortiManager, and FortiAuthenticator were installed
- West Canal commissioning complete for both line-ups.
- EMS configuration for Quincy Foothills is in-process and scheduled to be completed by 10/15

- **Operational Cyber Security/Infrastructure**

- Configured new Firewalls for Quincy Foothills, Potholes East Canal and Quincy Chute. All 3 devices scheduled to be installed in Q4.
- Performed our 3-year CIP-010 Active Vulnerability assessment and implemented security remediation identified during the review.

- **Energy Accounting System (EAS)**

- Migrated all Energy Accounting SQL databases to new primary and backup server.
- Working with ESM to transition the short-term load forecast to Amperon by 10/31.
- Signed contract with OATI to implement WestTrans and Oasis as part of our TSP registration. Implementation will begin in Q4 and will continue into Q2 2025.



Power Delivery: Construction and Maintenance Update



Powering our way of life.

Meter and Relay Shop

- West Canal Test and commissioning underway, nearly completed
- Commencing all of the Quincy Foothills work we can complete while contractor on site to help meet customer needs
- Completion of Rocky Ford testing
- Completed several areas for Transmission Relay testing





Power System Electricians

- Support Design build At South Ephrata substation transformer replacement.
- Support efforts at Quincy Foothills build and West Canal.
- Breaker replacement at McDonald substation and prompt restoration of power for Basic American food.
- Planning for Transformer exchange at Seep Lake substation starting. Work is scheduled to start end of October or beginning of November.
- Installed temporary drainage solution at Pelican Horn Substation. Maintenance engineering is working on permanent solution.

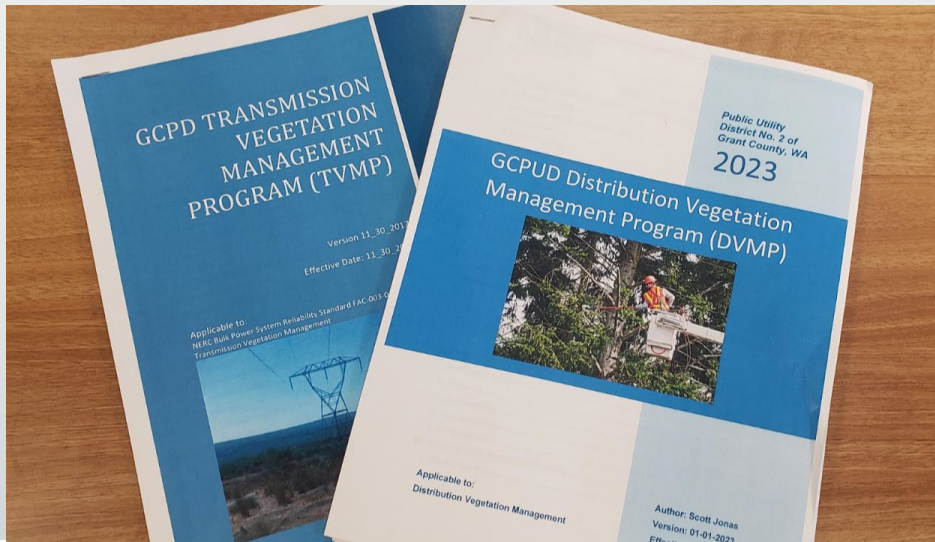
Line Crew

- Customer Service Work is at a 3 week backlog
- Group14 constructed and energized
- Phase 1 of Rainer Simplot complete
- Transmission tree trimming complete for 2024. Internal crews being hired in 2025 to reduce financial impact in the future
- Building additional 20MW feeder on the line ups at Quincy Foothills to accelerate completion of project



PD Maintenance Engineering

- Testing support
- Supervisor/Craft support
- ME's reporting to Supervisors



Protection System Maintenance Program

Public Utility District #2 of Grant County

Version 2.3

2/17/2020



Thank You For Your Ongoing Support



Grant County
PUBLIC UTILITY DISTRICT



Power Production

Strong Performance.....

Quarterly Commission Briefing 10/22/2024

Rey Pulido



Powering our way of life.

2024 Q3 Assessment

Key Operational Metrics

- Safety Performance
- Plant Performance
- Training Performance

Updates

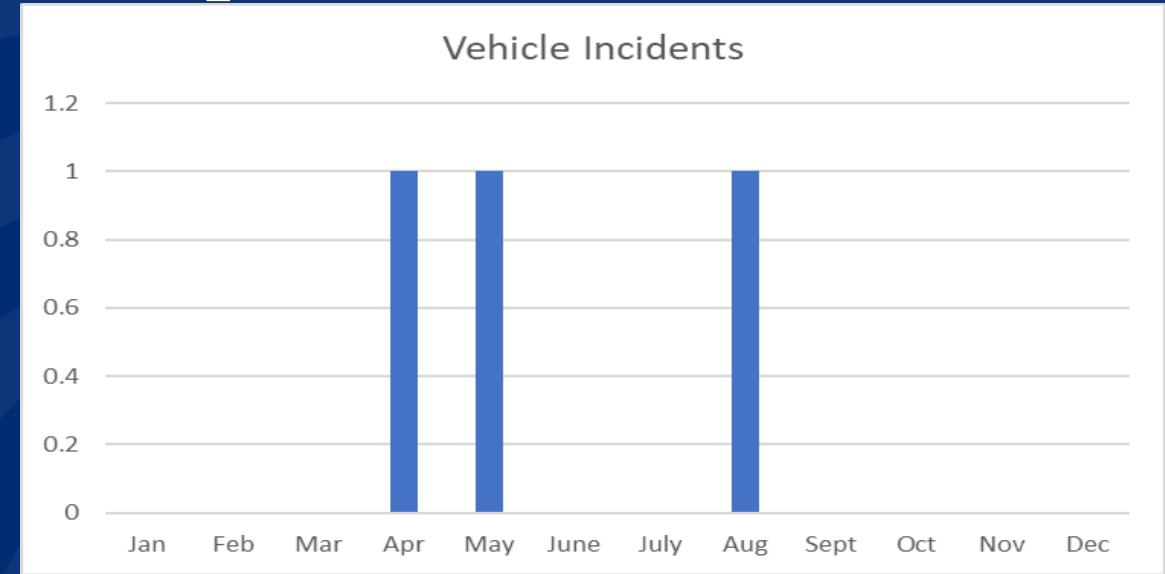
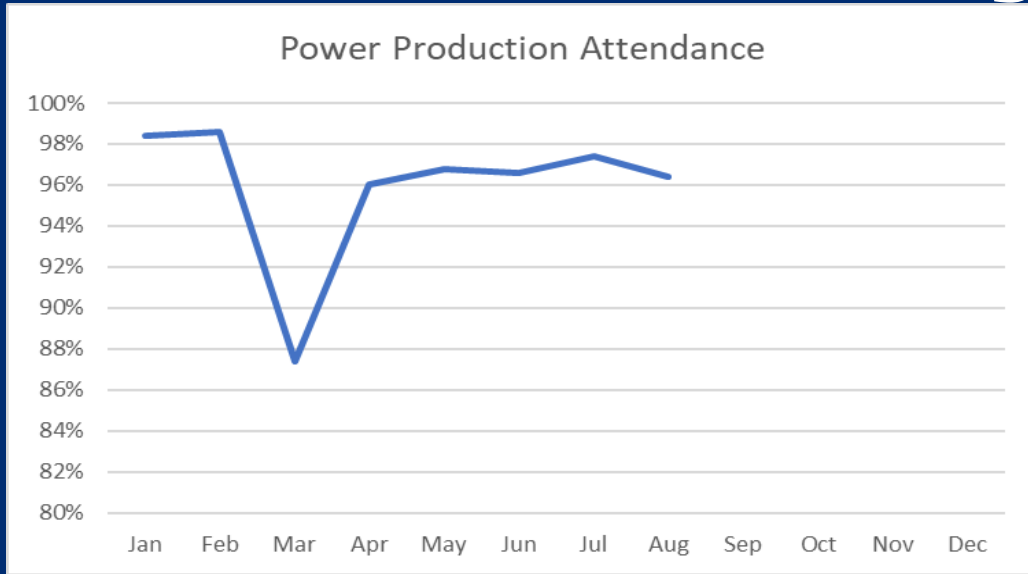
- Highlights
- Capital Projects
- Recognition

Upcoming Next Quarter

- Strategic Update
- Upcoming Improvements



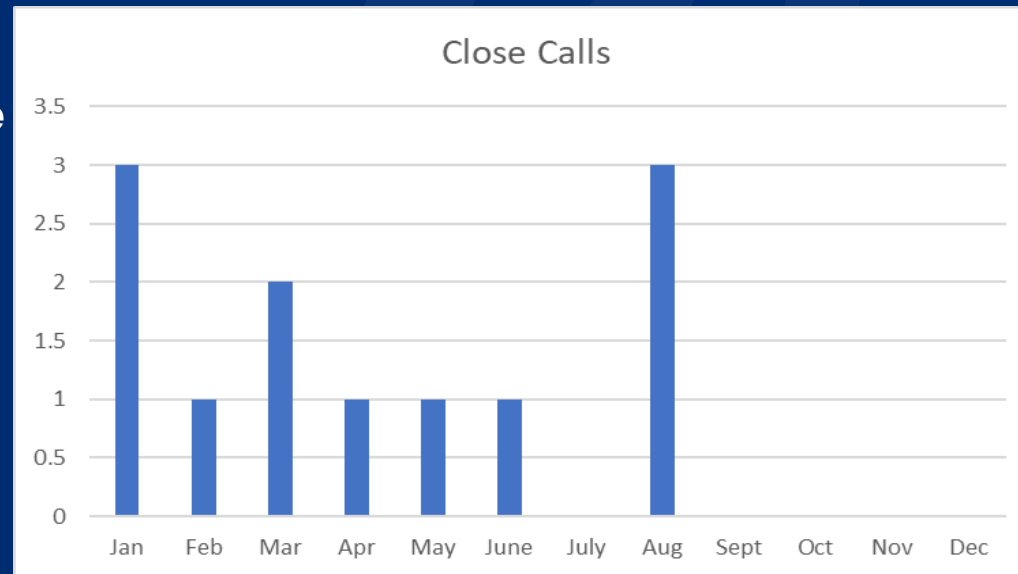
Safety Champions



Power Production's Attendance Performance target is 100% attendance.

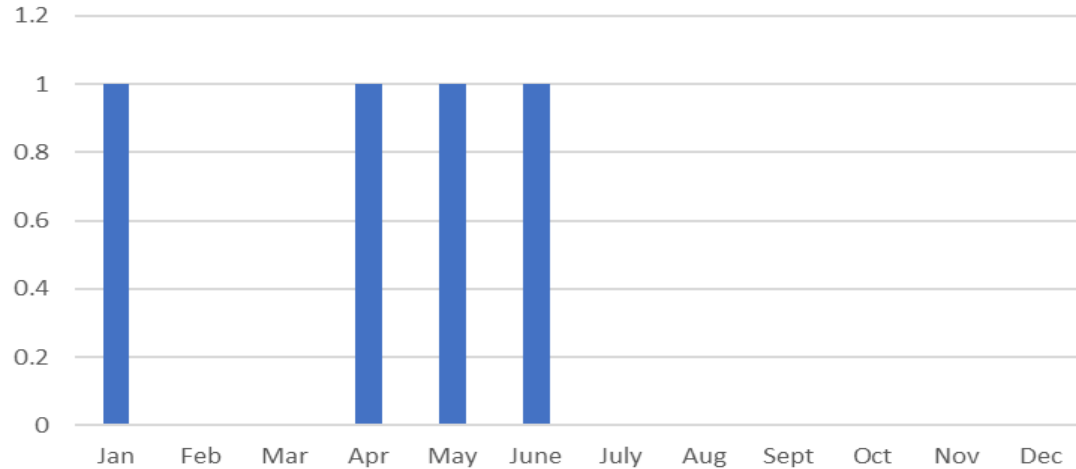
District's vs. PP Performance

- **July +2% (97%)**
- **Aug +6% (96%)**
- **Sept. TBD**

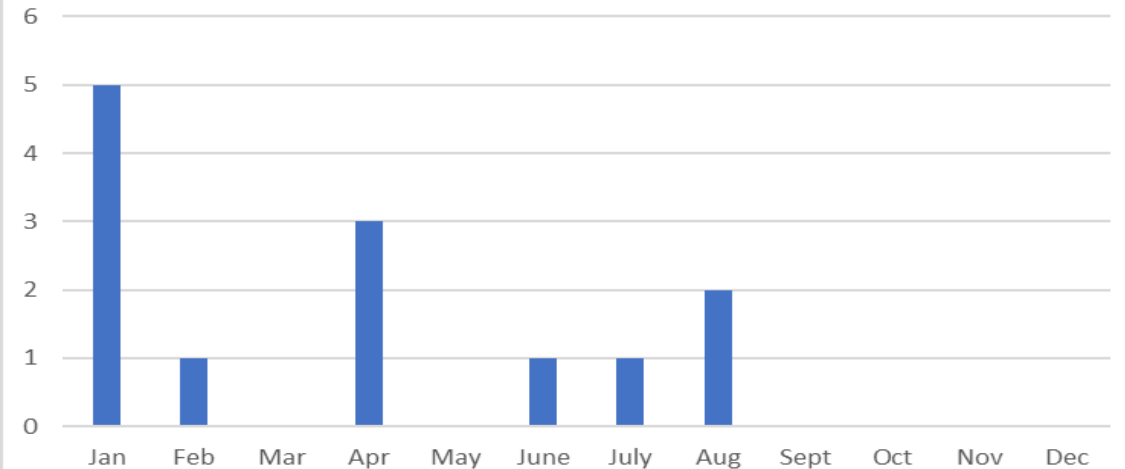


Safety Champions

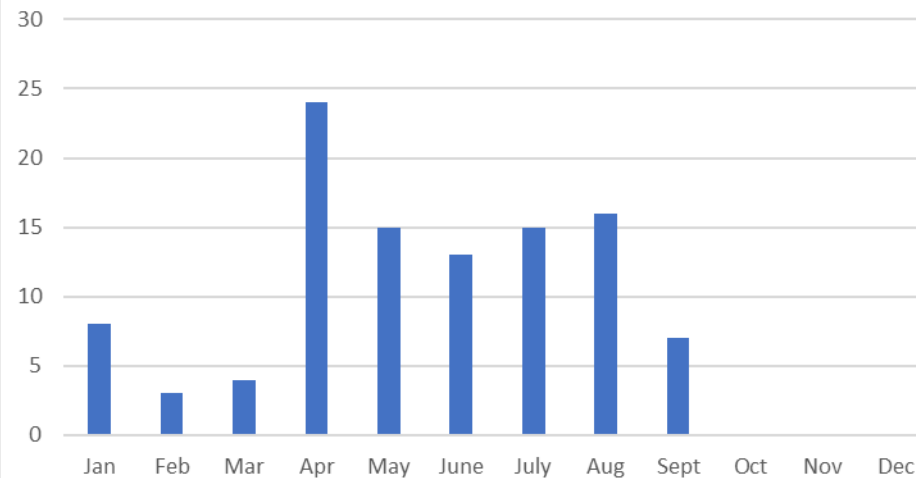
Recordables



Non-Recordable



JSRs

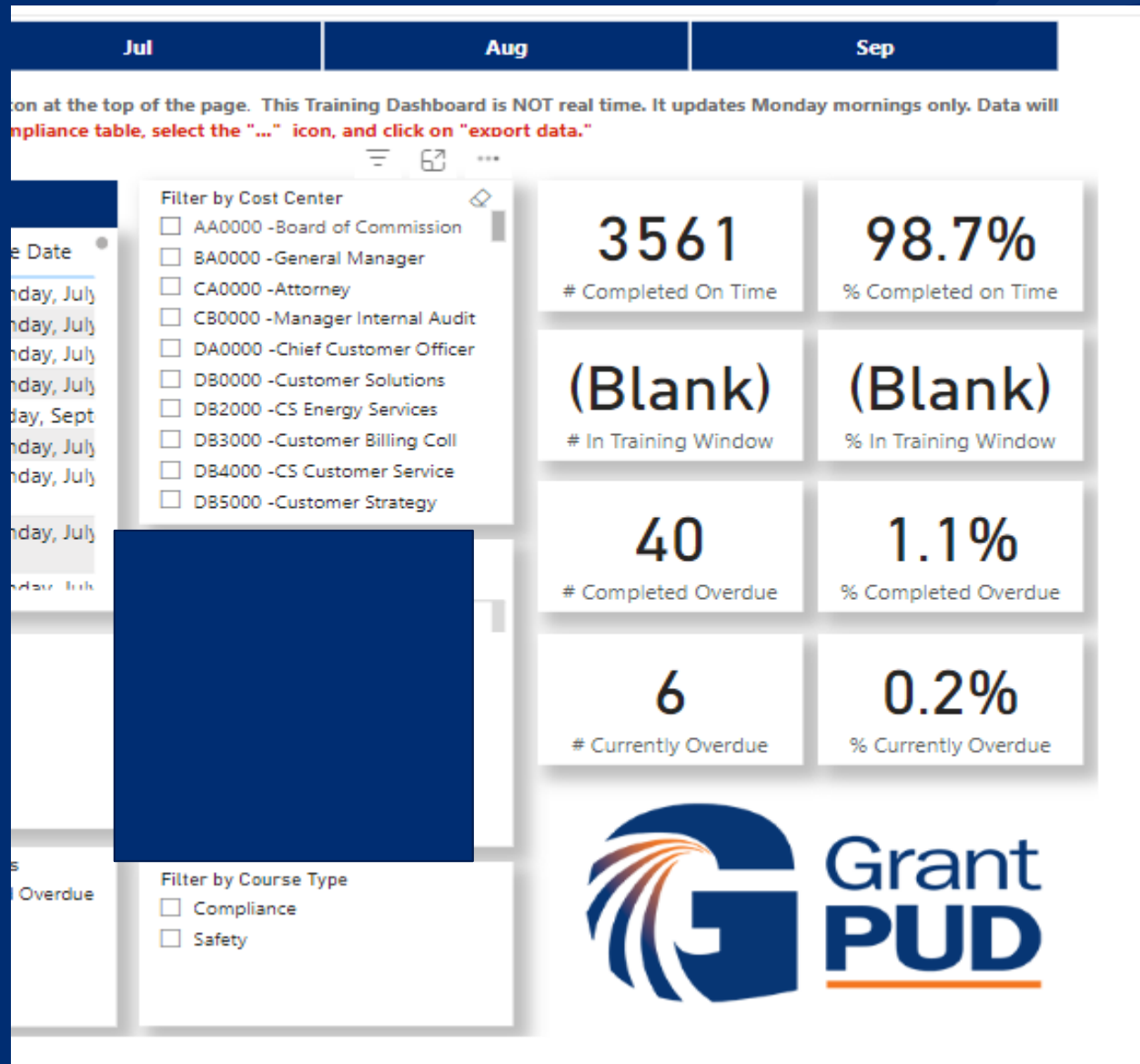


PP JSR Contributions

- **July 15 out of 29 (52%)**
- **Aug 16 out of 37 (32%)**
- **Sept. 7 out of 23 (30%)**

- **No recordables in Q3**
- **3 total non-recordables in Q3**

Training Performance



Power Production Q3 performance has target of 100% on time completion %

Power Production vs District's performance

- **% Completion on time**
 - **+1.3%**
- **% Completed Overdue**
 - **-1.6%**
- **% Currently Overdue**
 - **-0.7 %**

Other Training Highlights:

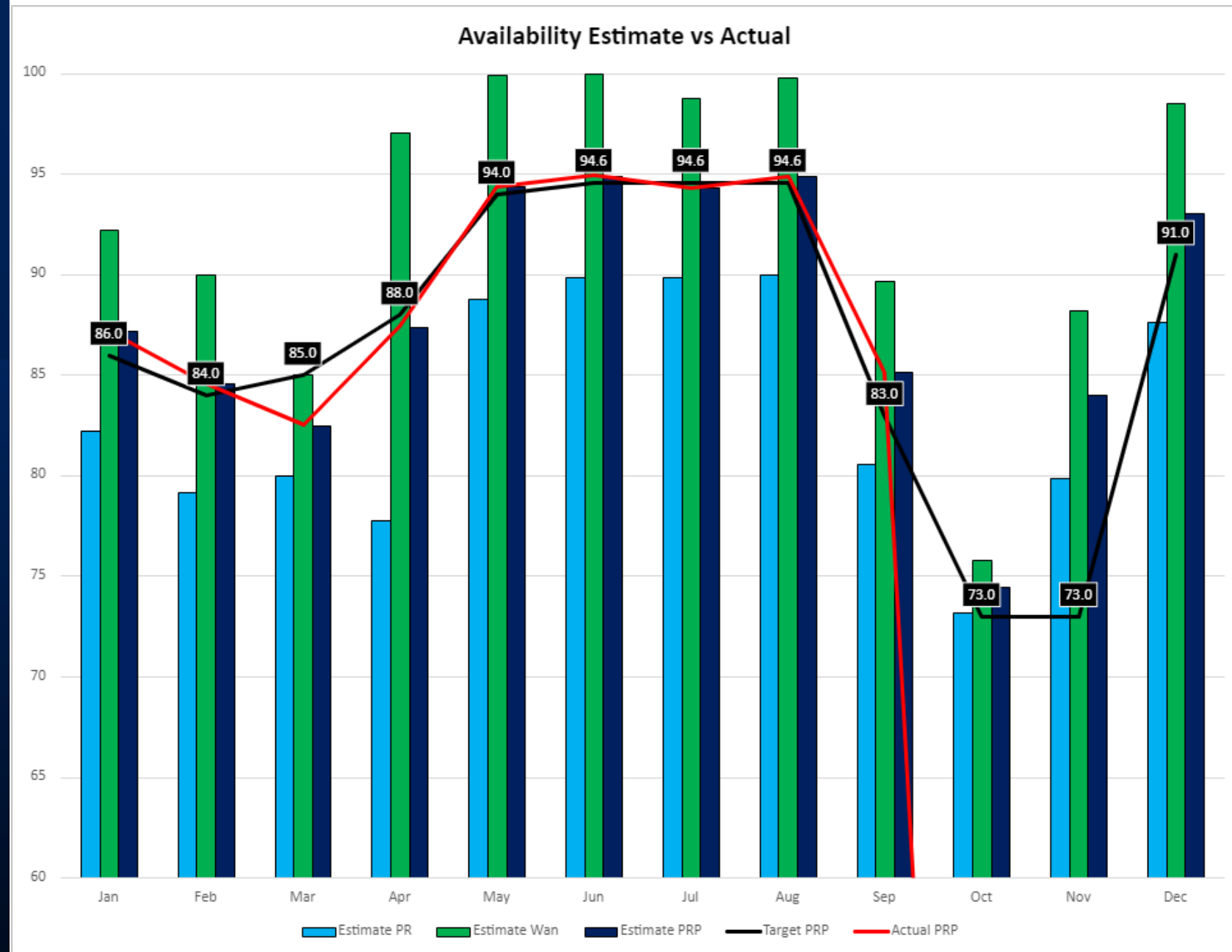
- **Electrical Annual Training (EAT)**
- **Mechanical Annual Training (MAT)**
- **Operational Annual Training (OAT)**
- **Emergency Rescue Team Training (ERT)**

Plant Performance:

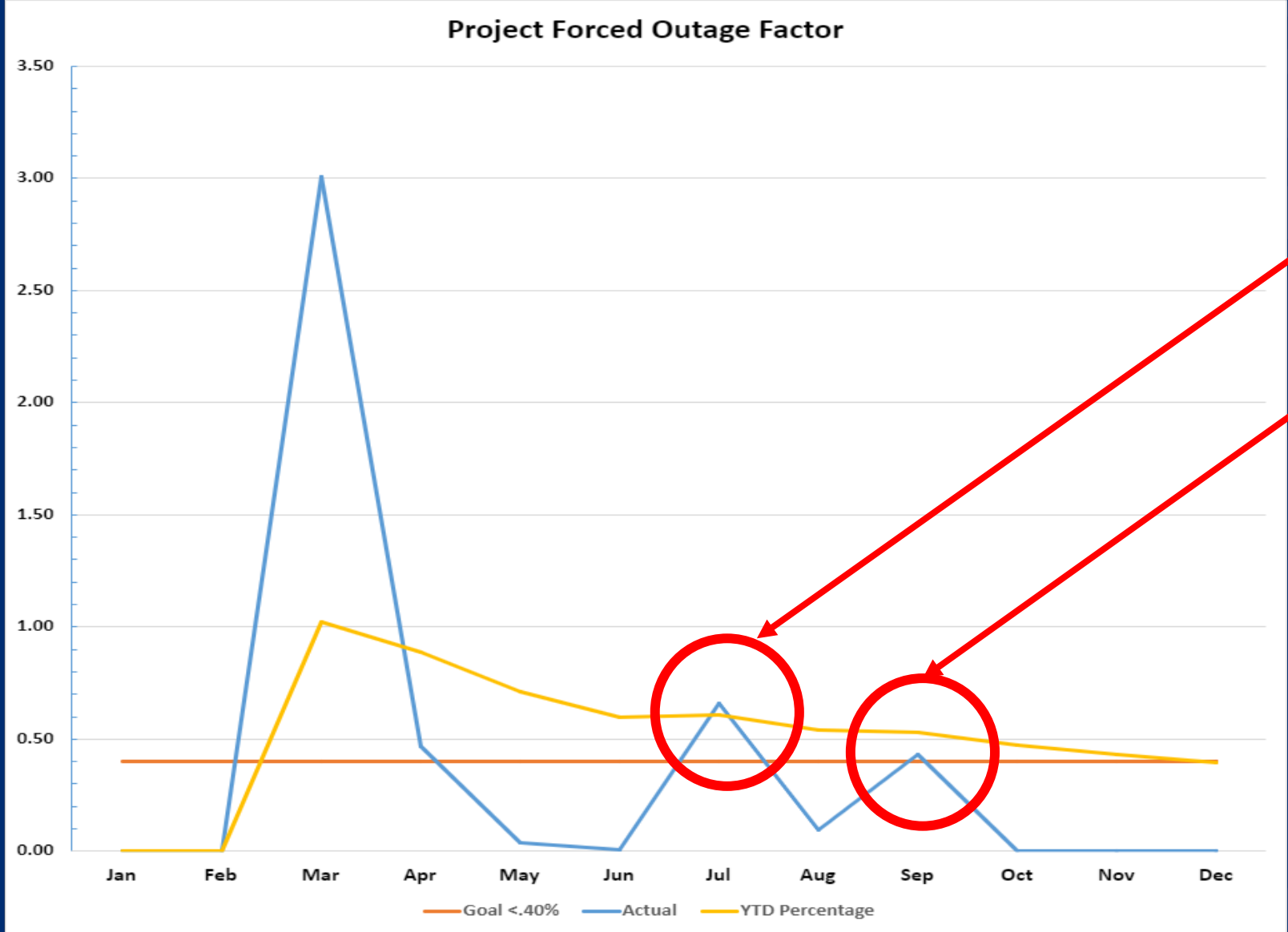
Priest Rapids met all Q3 targets

Wanapum missed July target due to Line 1 outage (RCE being conducted)

Total PRP target missed by .3% in July



Plant Performance



Most July FOER time due to Line #1 Outage at Wanapum.

September FOER due to failed cooling water valve (dissimilar metals, corrective actions occurring).

Major Plant Work

- 5 Year Spillway Full-open test, caisson move
- W01 Overhaul
- Quincy Chute and PEC
- Unit outages
- Capital project support:
 - Station Service
 - T&G

Caisson Move



Capital Project Update



Station Service: switchgear installation has started, currently on schedule.

Capital Project Update



P01 Turbine Upgrade: currently 5 day's ahead of schedule, projected completion date of 1/13/25

Capital Project Update



Emergency Diesel Generator: Generator has been manufactured, delivery scheduled for early 2025

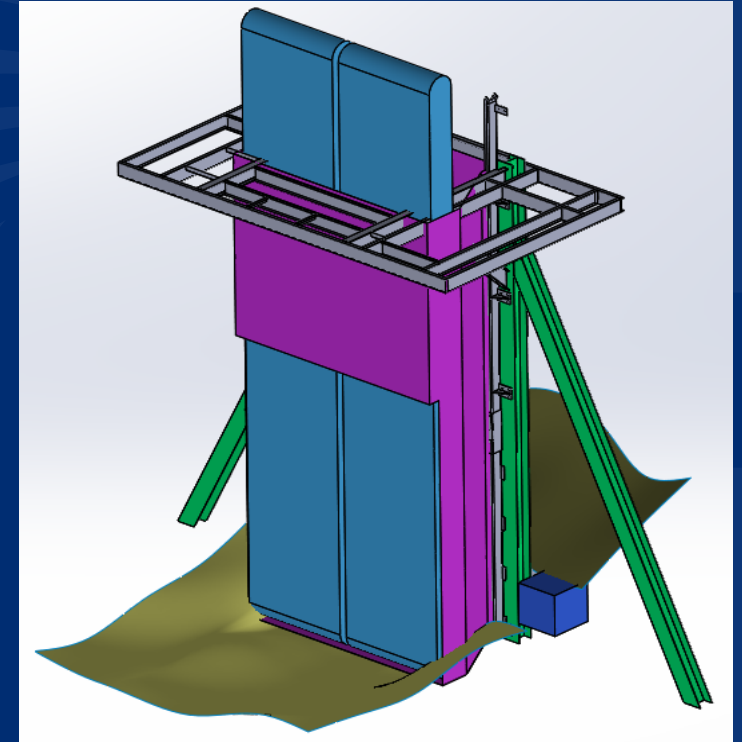
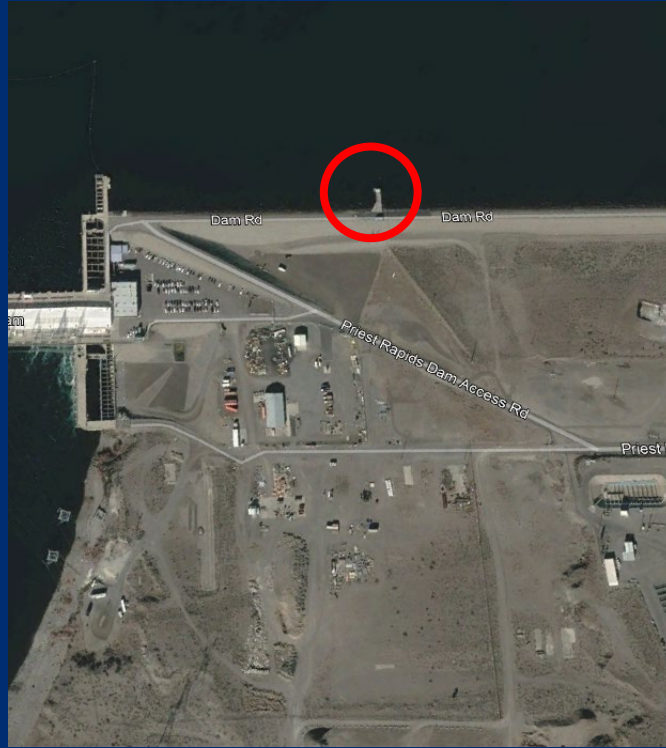


Plant Piping replacement: Phase 1 near completion



LOTO: Phase 2 is currently on track to be completed by December of 2024.

Recognition Shoutouts



Siphon Intake Project

Issues:

- Substantial excavation required
- Underwater concrete pour and removal of structure raised cultural and ecological concerns
- Short construction window of July-Aug, required 2 seasons of construction

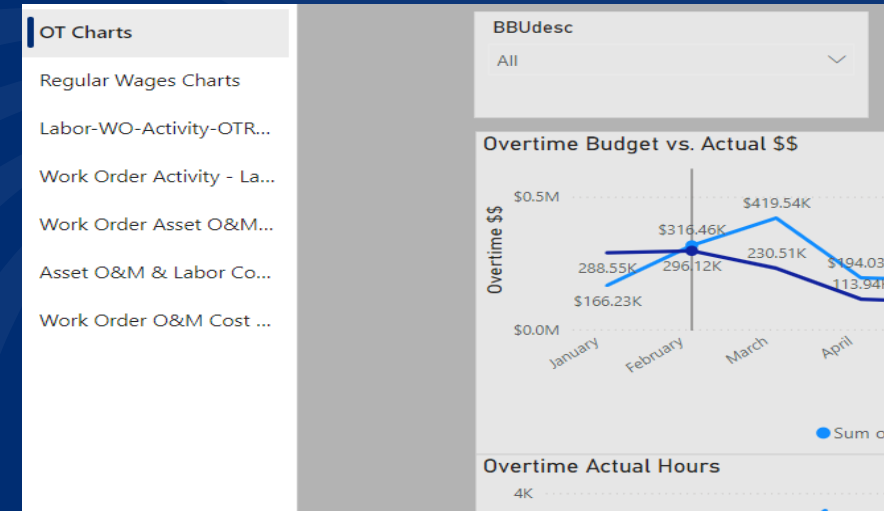
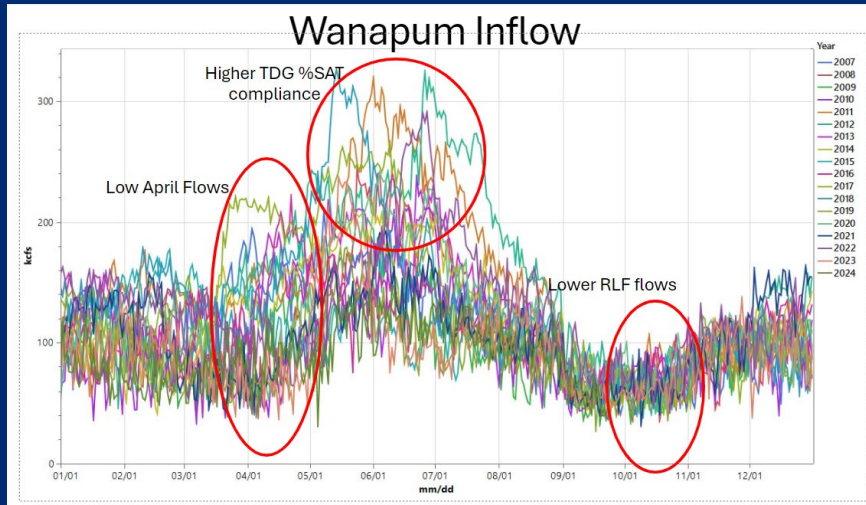
Solution: modify/improve intake structure design.

Benefits:

- No new foundations or underwater concrete
- Elimination of deep excavation
- One construction season
- Decrease cost

Note: Flow analysis are currently being completed to ensure requirements are met.

Teamwork Highlights



Partnership with Wholesale Operations & Asset Management

- **Sharing hydrology, energy market and PRP value information**
- **Discussed upcoming changes and impact (e.g. WRAP, starts/stops)**
- **Evaluating dynamic capability of outage scheduling**

PMO Teamwork

- **Discussing project issues openly**
- **Increased alignment**
- **Labor contract negotiation collaboration**

Collaboration with Budget & Reporting

- **Increased visibility to how OT dollars are used**
- **Develop methods to track OT decisions**
- **Report cost savings/reductions**

Upcoming

Maintenance Season

- Overhaul
- QC/PEC shutdown
- Spillway
- XFMR Outages

Outage Improvements

- Process for outage flexibility
- Performance indicator

Strategic Planning Efforts

- Updated 3-5 year plan
- Leadership Expectations
- Strategic Intent
- Performance measurements
- Re-alignment

Questions or Feedback?



Powering our way of life.