

Safety Report

July 2023



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.

CXO Talking Points



Injuries Reported

Date	Body Part	Description & Response
6/15	Right Elbow	<p>While switching GR1RT back into service, employee attempted to close GR3 low side air switch. Halfway through closing, the air switch seized up and would not close. A handle extension (cheater bar) was required to complete the closing. The switch has far outlived its service life and needs to be replaced. While attempting to close the device, employee strained right elbow. Proper switching technique and positioning were used, and situational awareness was adhered to. Employee recommends replacement as this is part of an aging system and needs to be addressed before a serious incident occurs. Safety Department has followed up with the injured employee and a work order will be submitted to have this switch inspected.</p>
6/20	Neck Injury	<p>During the Stretch and Flex with Dr. Jill, employee started feeling a burning in their neck. As the day went on the burning increased to pain and stiffness. The Safety Dept has followed up with this employee and is monitoring the situation.</p>
6/28	Strained Knee	<p>While escorting a contractor up and down the stairs, an employee felt a pain in left knee. Employee wanted to document in case it needs medical attention. This is a great example of reporting an injury no matter how inconsequential the event may seem. Employees are encouraged to utilize mechanical lifting equipment whenever possible.</p>

Two consecutive months without a recordable injury!!

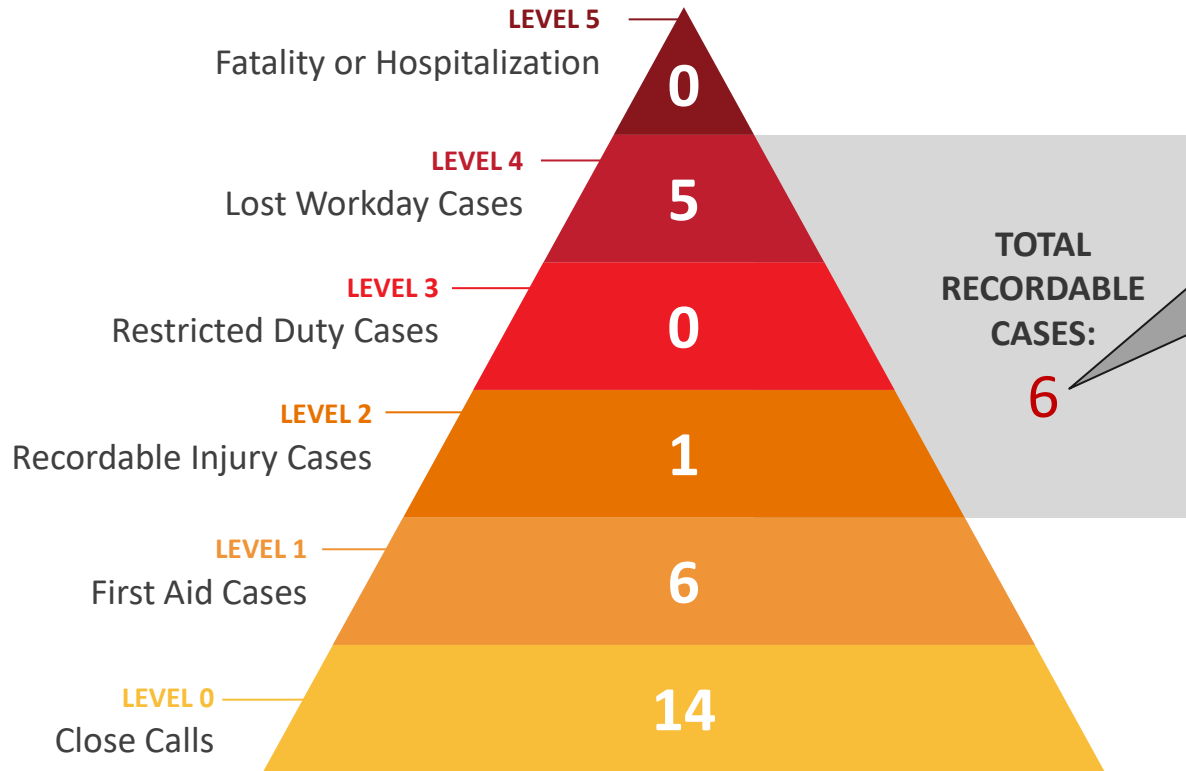


	Last Month	Year-to-Date
Total Injuries Reported	3	12
Recordable Case(s)	0	1
Restricted Duty Case(s)	0	0
Lost Workday Case(s)	0	5

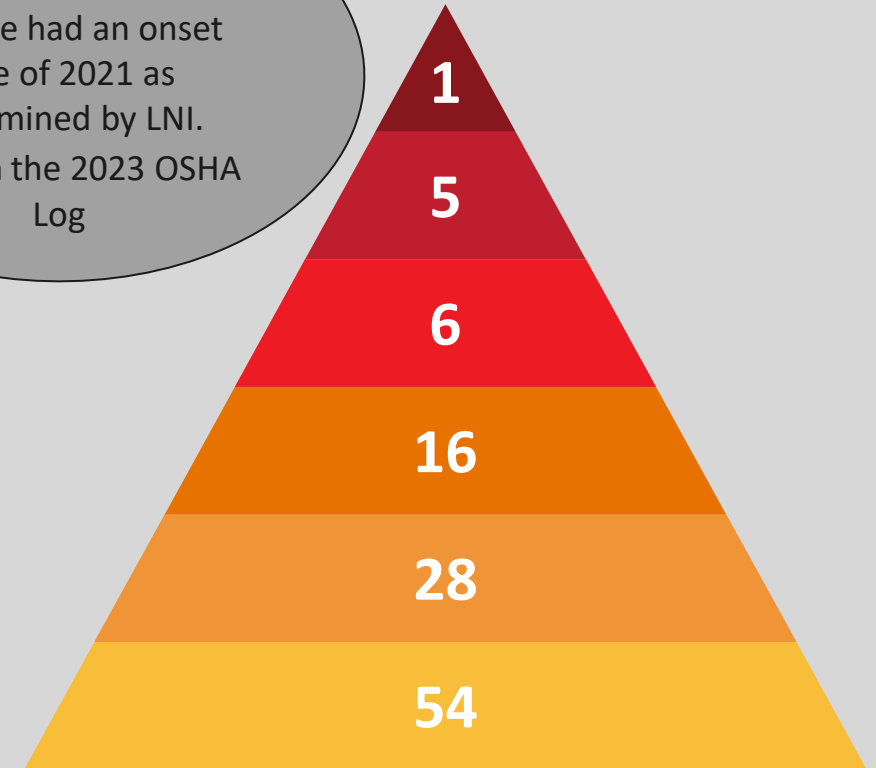
2023 Incidents Summary

VS

2022



One recordable was found not work-related and one had an onset date of 2021 as determined by LNI.
-2 from the 2023 OSHA Log



Close Calls

Date	Overview	Location	Description & Response
6/5	Weigh Safe Pintle Hitch Issue	ESC Transportation	After hauling a piece of equipment, the Transportation Dept found a broken retaining pin on the new weigh safe pintle attachment. They contacted the manufacturer and they have requested that we recall all the attachments currently in use until they have further time to review. To be clear there is only an issue with the pintle attachments, no identified issues with the base receiver hitch and ball assemblies.
6/12	Worn Carpet	EHQ Commission	While setting up for a meeting, an employee stumbled on a piece of worn carpet. Maintenance work is currently being re-addressed and replacement of this carpet, as well as the carpeting in the lobbies has been scheduled.
6/21	Tripping Hazard	Off Site Workshop	During an off-site workshop, plugging in a laptop required stringing a cord across a walkway. Another person left their seat and while moving around, caught foot on the cord. There was no trip, but if there had been more momentum, tripping and falling would have been likely. Cord was taped down to reduce risk of tripping. Reminder to be aware of the potential hazards created when setting up work locations.

Close Calls

Date	Overview	Location	Description & Response
6/21	Off Site Care	WAN	An employee started feeling flushed. Sought the opinion of a safety coordinator. It was determined that the best course of action was to transport the employee to the Quincy hospital. Employee is in the care of the hospital at the time of the report. The Safety Department has been in contact with this employee, and they have returned to work. The overall response to this event was exemplary. Employee recognized their symptoms, communicated appropriately, and engaged others for assistance.
6/22	Falling Light Pole Fixture	WAN	A street light fixture, sharing the same circuit as security camera, fell off a light pole causing security/operations to lose surveillance and light on the roadway on the upper left bank of WAN. It also caused the transformer to short phase to phase. The next day, employees inspected the lights on site and found one fixture in similar condition as the one that broke. As a result of these conditions, a work order has been created to inspect and repair any damage on all light poles at WAN. A work order will be created for PRD, as well.

Vehicle Incidents

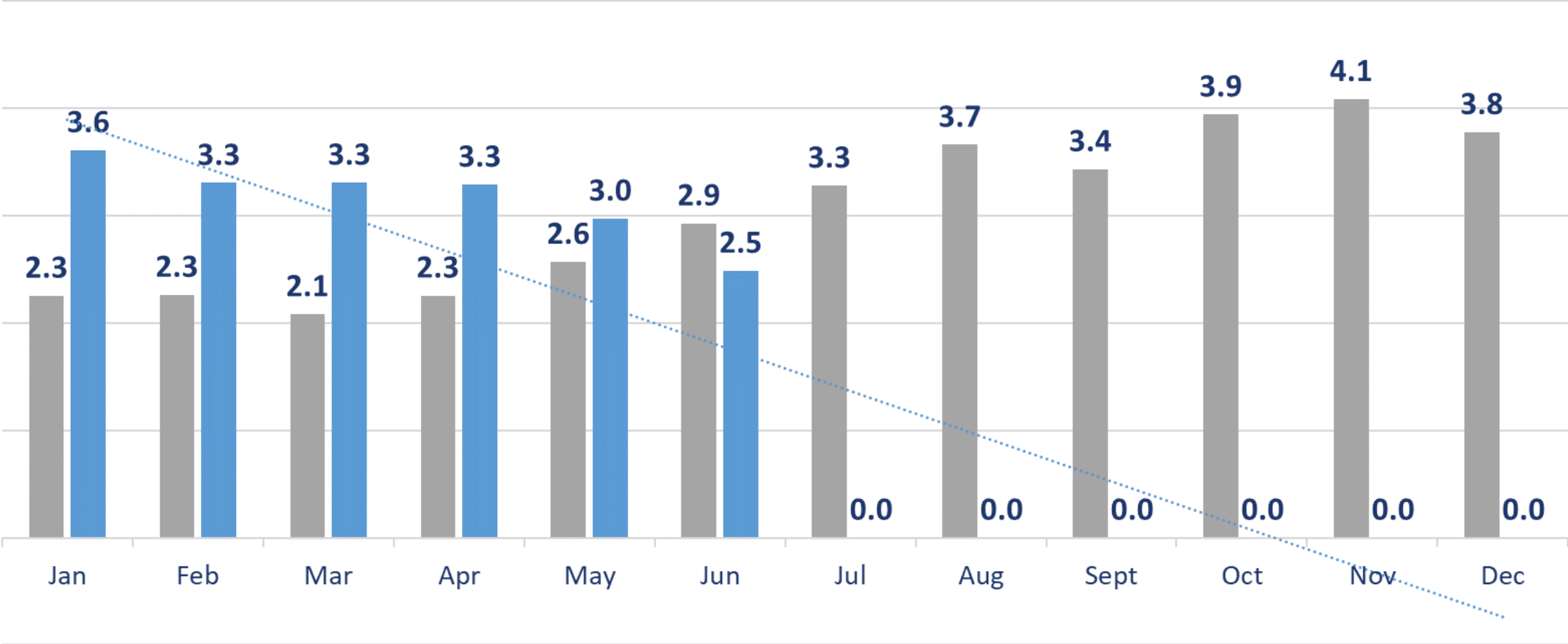
Date	Location	Description & Response
6/21	WAN Heritage Center	Employee was parked at the heritage center on the east side of the building. When employee went to leave, they forgot there was a sign behind the truck. They slowly backed into the sign and bent the post. Employee was able to straighten the post, but it will probably need to be replaced. Reminder to survey surroundings during a 360.
6/21	Struck Customer Mailbox	While turning pickup around a dog came running towards the vehicle, causing employee to focus on not hitting the dog, and bumped the customer's mailbox, cracking the post. Employee notified the customer and have already made repair arrangements. No damage to the work truck. Reminder to maintain situation awareness when operating a vehicle. When unexpected events present themselves that may cause you to lose focus, it is better to stop and regroup than to continue and risk an incident.

Contractor Injuries & Incidents

Date	Overview	Description & Response
6/13	Power Hit	A contractor was potholing primary power with a pressure washer and vacuum trailer, reaching the primary cable around 2 ½ feet. As the contractor was spraying, an old splice in the cable was hit, flashed and a fuse blew. There were no injuries to the contractor's employee. All proper PPE was in use. Potholing is an industry best practice for safely locating underground conductors. Damaged conductor will be replaced.

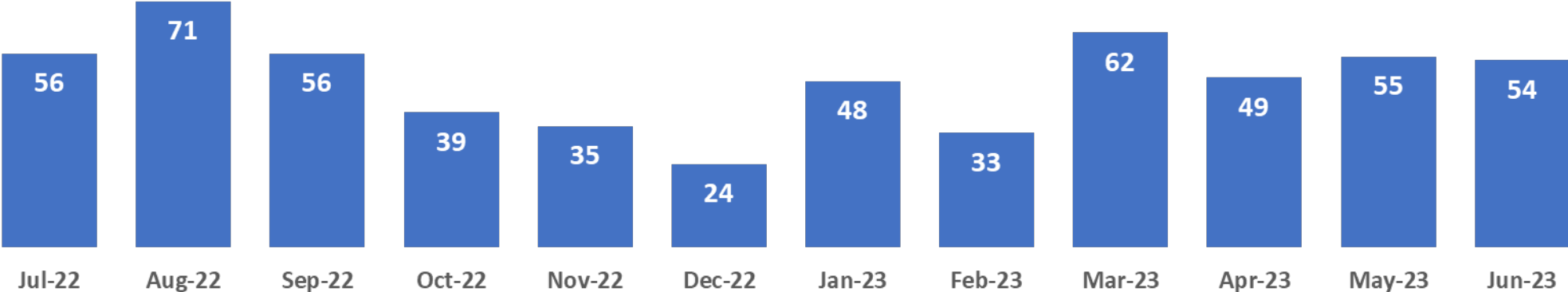
Leading & Lagging Indicators

12 Month Rolling – Recordable Injury Rate – 2022 vs 2023

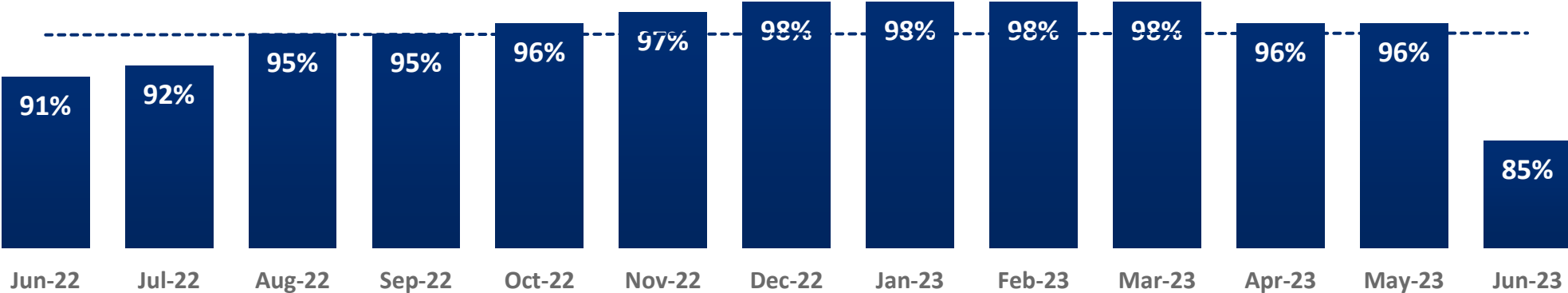


Leading & Lagging Indicators

Jobsite Reviews Conducted



Safety Meeting Attendance



Open Safety Action Items

Over 60 Days Old

As of May 2023	As of June 2023
Year 2017 = 1	Year 2017 = 1
Year 2018 = 2	Year 2018 = 2
Year 2019 = 1	Year 2019 = 1
Year 2020 = 2	Year 2020 = 2
Year 2021 = 5	Year 2021 = 5
Year 2022 = 3	Year 2022 = 3
Year 2023 = 6	Year 2023 = 6
Month Total = 20	Month Total = 20

Up 0
total
this
month

What's an Action Item?

These are safety concerns that can be brought up anytime, including during a safety meeting.



They usually require some sort of further investigation or resolution, so they are assigned and tracked to make sure they're followed up on.

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 2023.

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.



Rule Change – Outdoor Heat Exposure

The adopted rules include requirements for shade, rest, and acclimatization, and lowers the temperatures at which some preventive actions must be taken. Here are the items needing revision within our Program.

- Requirements are year-round, in effect whenever workers are exposed to outdoor heat.
- Outdoor temperature clothing action levels are now:
 - Non-breathable clothing: **52°F**
 - All other clothing: **80°F**
- **Acclimation:** Close observation for **14** consecutive days is required for employees not acclimatized to the heat, including new employees, those returning from absences, and all workers during a heat wave.
 - Heat waves are days when heat will be at or above the action levels and at least 10°F higher than the five-day average highs.
 - Close observation is defined as regular communication with employees working alone, such as by radio or cellular phone; a mandatory buddy system; or other effective means of observation.
- At or above **90°F**, a 10-minute cool-down rest period every two hours and close observation to help identify employees showing signs and symptoms of heat-related illness is mandatory.
- At or above **100°F**, the cool-down rest periods must be 15 minutes every hour.
- An exemption was added to exclude emergency response operations from mandatory cool-down rest periods when restoring or maintaining critical infrastructure is at risk.
- Train affected employees to the new requirements

Did You Know?
Workers are at higher risk of heat-related illness if they are not acclimatized or used to the heat. Acclimatization takes 7–14 days to develop and can be lost after seven days away from working in the heat. A sudden increase in temperature does not allow time for any workers to acclimatize.



No Obstructing Fire Exits

Please remember all fire exits must be free from obstruction. Please do not place buckets, boxes, hoses, chairs, or anything that would prevent a safe exit from the building.



**Do not
obstruct
Access to
fire exit**

Chair & Scribe Mid-Year Evaluations

It's time for Mid-Year Evaluations of Chairs and Scribes! Yes, June is technically the middle of the year but due to Safety Day, we pushed the evaluations to July. Please encourage everyone to take a few moments and complete the evaluations by the end of July.

For step-by-step directions on how to complete the Mid-Year evaluations:

- **Go to the Safety Meeting Minutes in PowerApps**
- **Training & Resources**
- **Training Documentation**
- **Safety Chair and Scribe Mid-Year Evaluation Process**

If you have any further questions, please contact one of the Chair and Scribe Train the Trainers (Angie Albertson, Nichole Bortle, Danny Combs and Dan Niehenke) or Chair and Scribe Administrator, Kristen Dorsey.

Thank you!!

Thank You!



Safety@Grant



FIRST AID AND CPR REFRESHER

PRESENTED BY SHANNON KELLAM







“CHECK the scene for safety, form an initial impression and use personal protective equipment (PPE)”

CPR

2. If the person appears unresponsive, **CHECK** for responsiveness, breathing, life-threatening bleeding or other life-threatening conditions using shout-tap-shout.
3. If the person does not respond and is not breathing or only gasping, **CALL 9-1-1** and get equipment, or tell someone to do so
4. Kneel beside the person. Place the person on their back on a firm, flat surface.
5. **Give 30 chest compressions**
-Rate: 100 to 120 per minute
6. **Give 2 breaths**
7. Continue giving sets of 30 chest compressions and 2 breaths. Use an AED as soon as one is available!
Minimize interruptions to chest compressions to less than 10 seconds.



**American
Red Cross**



Certified CPR

Michael Villafranco

PREVIEW



- | | | |
|---|---|------|
| 1 | Eye of the Tiger
Survivor | 4:03 |
| 2 | Stronger
Britney Spears | 3:23 |
| 3 | Set Fire to the Rain
Adele | 4:01 |
| 4 | Everybody (Backstreet's Back) - Radio Edit
Backstreet Boys | 3:44 |
| 5 | Wannabe
Spice Girls | 2:53 |
| 6 | Lady Marmalade - From "Moulin Rouge" Soundtrack
Christina Aguilera, Lil' Kim, Mýa, P!nk | 4:24 |
| 7 | Some Nights
E fun. | 4:37 |
| 8 | Pocketful of Sunshine
Natasha Bedingfield | 3:22 |

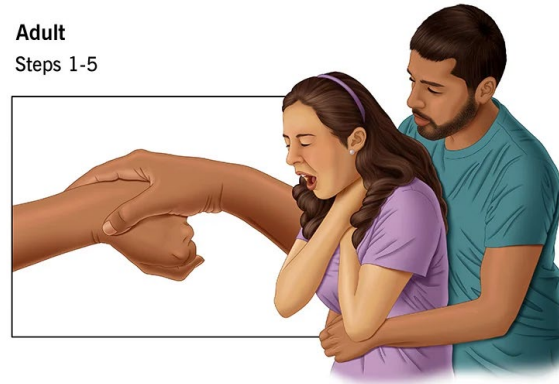


“CHECK the scene for safety, form an initial impression and use personal protective equipment (PPE)”

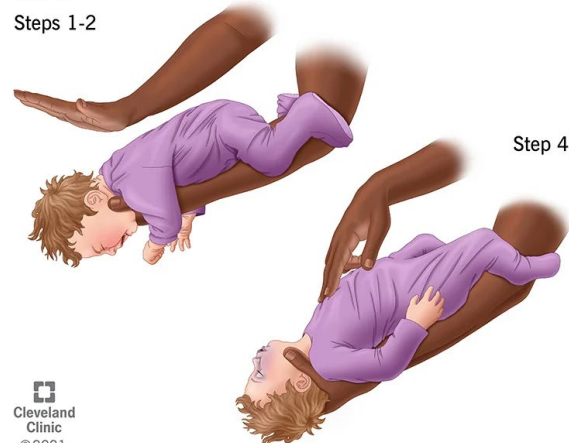
CHOKING

- If a person is able to speak, cough or breathe, don't attempt the Heimlich maneuver. Encourage the person to keep coughing. Sometimes a strong cough can free the foreign object. Only perform the Heimlich maneuver if a person's life is in danger.

Adult
Steps 1-5



Infant
Steps 1-2



HEAT STROKE / HEAT EXHAUSTION

Heat Exhaustion

ACT FAST

- Move to a cooler area
- Loosen clothing
- Sip cool water
- Seek medical help if symptoms don't improve

Dizziness

Thirst

Heavy Sweating

Nausea

Weakness



Heat Stroke

ACT FAST

CALL 911

- Move person to a cooler area
- Loosen clothing and remove extra layers
- Cool with water or ice

Confusion

Dizziness

Becomes Unconscious

Heat exhaustion can lead to heat stroke.

Heat stroke can cause death or permanent disability if emergency treatment is not given.

BURNS

- **Cool the burn.** Hold the area under cool (not cold) running water for about 10 minutes. If the burn is on the face, apply a cool, wet cloth until the pain eases. For a mouth burn from hot food or drink, put a piece of ice in the mouth for a few minutes.
- **Remove rings or other tight items from the burned area.** Try to do this quickly and gently, before the area swells.
- **Don't break blisters.** Blisters help protect against infection. If a blister does break, gently clean the area with water and apply an antibiotic ointment.
- **Apply lotion.** After the burn is cooled, apply a lotion, such as one with aloe vera or cocoa butter. This helps prevent drying and provides relief.
- **Bandage the burn.** Cover the burn with a clean bandage. Wrap it loosely to avoid putting pressure on burned skin. Bandaging keeps air off the area, reduces pain and protects blistered skin.
- **If needed, take a nonprescription pain reliever,** such as ibuprofen (Advil, Motrin IB, others), naproxen sodium (Aleve) or acetaminophen (Tylenol, others).



“CHECK the scene for safety, form an initial impression and use personal protective equipment (PPE)”

INSECT BITE & BEE/HORNET STING

To treat a mild reaction to an insect bite or sting:

- Move to a safe area to avoid more bites or stings.
- Remove any stingers.
- Gently wash the area with soap and water.
- Apply a cloth dampened with cold water or filled with ice to the area of the bite or sting for 10 to 20 minutes. This helps reduce pain and swelling.
- If the injury is on an arm or leg, raise it.
- Apply to the affected area calamine lotion, baking soda paste, or 0.5% or 1% hydrocortisone cream. Do this several times a day until your symptoms go away.
- Take an anti-itch medicine (antihistamine) by mouth to reduce itching. Options include nonprescription cetirizine, fexofenadine (Allegra Allergy, Children's Allegra Allergy), loratadine (Claritin).
- Take a nonprescription pain reliever as needed.

Seek medical care if the swelling gets worse, the site shows signs of infection or you don't feel well.

ANAPHYLAXIS (LIFE-THREATENING ALLERGIC REACTION)

- Immediately call 911 or your local medical emergency number.
- Ask if the person is carrying an epinephrine autoinjector (EpiPen, Auvi-Q, others) to treat an allergic attack.
- If the person needs to use an autoinjector, ask whether you should help inject the medication. This is usually done by pressing the autoinjector against the person's thigh.
- Have the person lie face up and be still.
- Loosen tight clothing and cover the person with a blanket. Don't give the person anything to drink.
- If there's vomiting or bleeding from the mouth, turn the person to the side to prevent choking.
- If there are no signs of breathing, coughing or movement, begin CPR.

An antihistamine pill, such as diphenhydramine (Benadryl), isn't enough to treat anaphylaxis. These medications can help relieve allergy symptoms, but they work too slowly in a severe reaction.

-Mayo Clinic

SNAKE BITE

If a venomous snake bites you, call 911 or your local emergency number immediately, especially if the bitten area changes color, begins to swell or is painful. Many emergency rooms stock antivenom drugs, which may help you. If possible, take these steps while waiting for medical help:

- Move beyond the snake's striking distance.
- Remain still and calm to help slow the spread of venom.
- Remove jewelry and tight clothing before you start to swell.
- Position yourself, if possible, so that the bite is at or below the level of your heart.
- Clean the wound with soap and water. Cover it with a clean, dry dressing.

Caution

- Don't use a tourniquet or apply ice.
- Don't cut the wound or attempt to remove the venom.
- Don't drink caffeine or alcohol, which could speed your body's absorption of venom.
- Don't try to capture the snake. Try to remember its color and shape so that you can describe it, which will help in your treatment. If you have a smartphone with you and it won't delay your getting help, take a picture of the snake from a safe distance to help with identification.



“CHECK the scene for safety, form an initial impression and use personal protective equipment (PPE)”



thank you

Power Production

Strong Performance.....

Quarterly Commission Briefing 7/25/2023

Ben Pearson
Kasey Grant
Dale Campbell



Powering our way of life.



Fulfilling Our Mission Champions of Safety ... Guardians of Power

- Purpose: Provide **safe, secure, economical, reliable and compliant power generation** under the Priest Rapid Project Federal Energy Regulatory Commission (FERC) License Project No. 2114 while supporting the Wanapum relationship.
- Goal: Execute the aforementioned tasks while championing a **culture of safety and operational excellence** with continuous focus on the guiding values of safety, innovation, service, teamwork, respect, integrity, and heritage.



2023 Q2 Assessment

Key Operational Metrics

- Safety Execution
- Plant Performance

Short & Long Term Focus

- Maximo Update
- Capital Projects
- Strategy Deployment

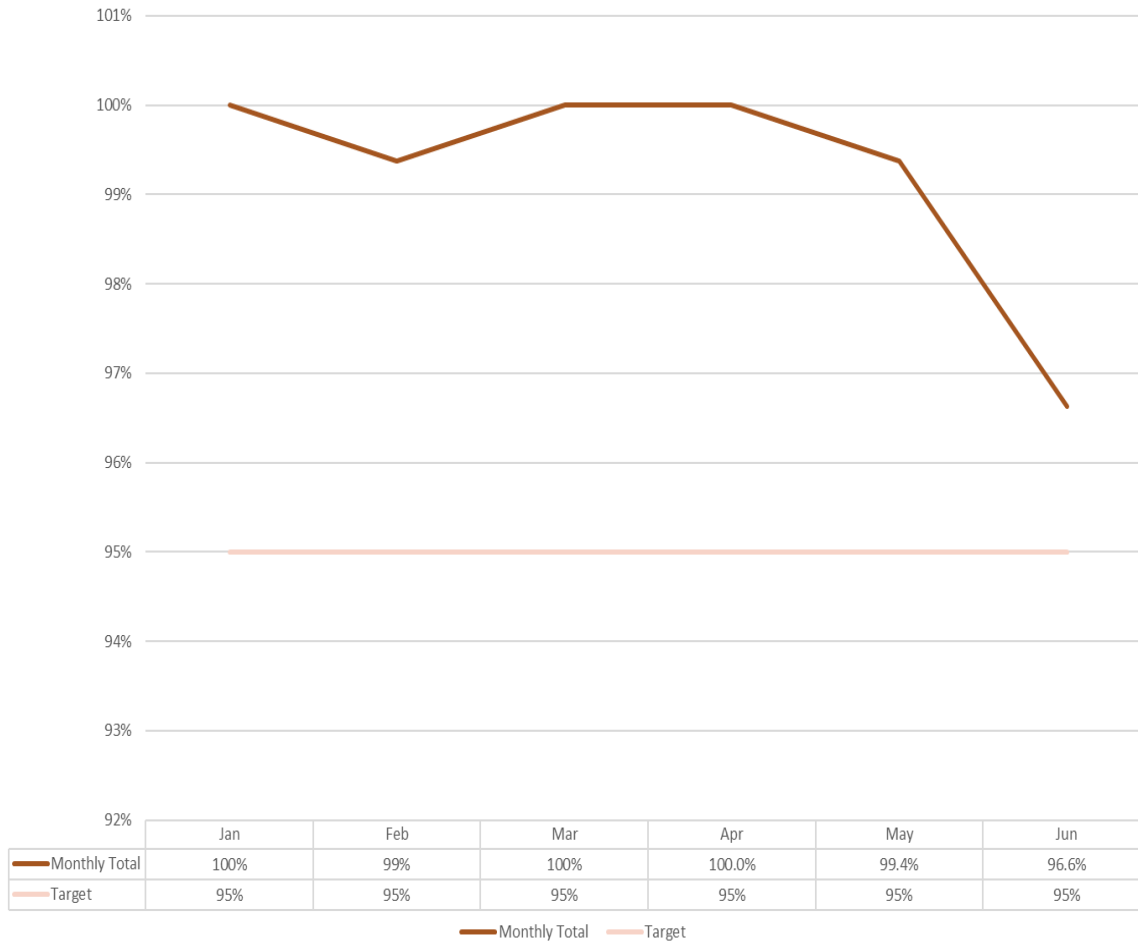
Team & Next Quarter

- Personnel
- Q3 Forecast

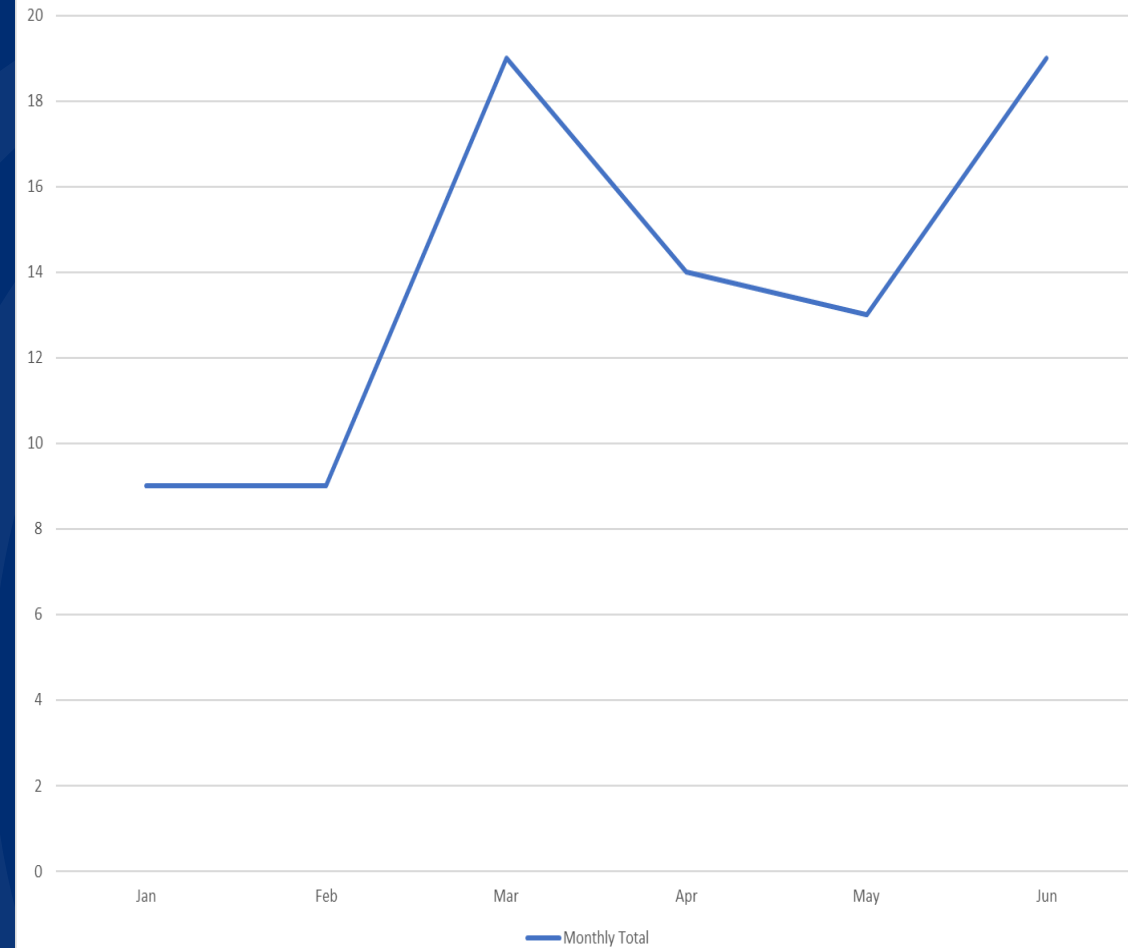


Safety Champions

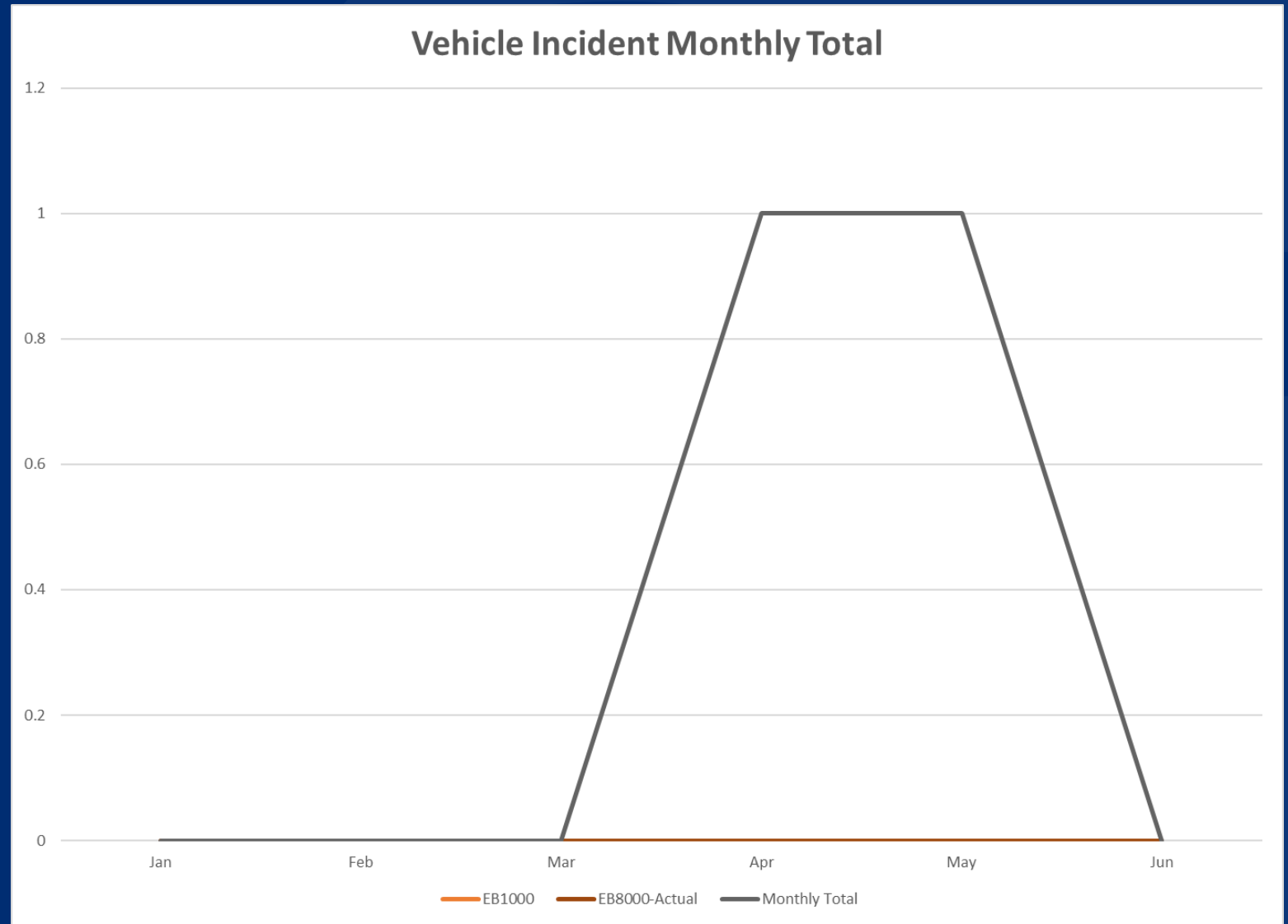
Attendance Monthly Total



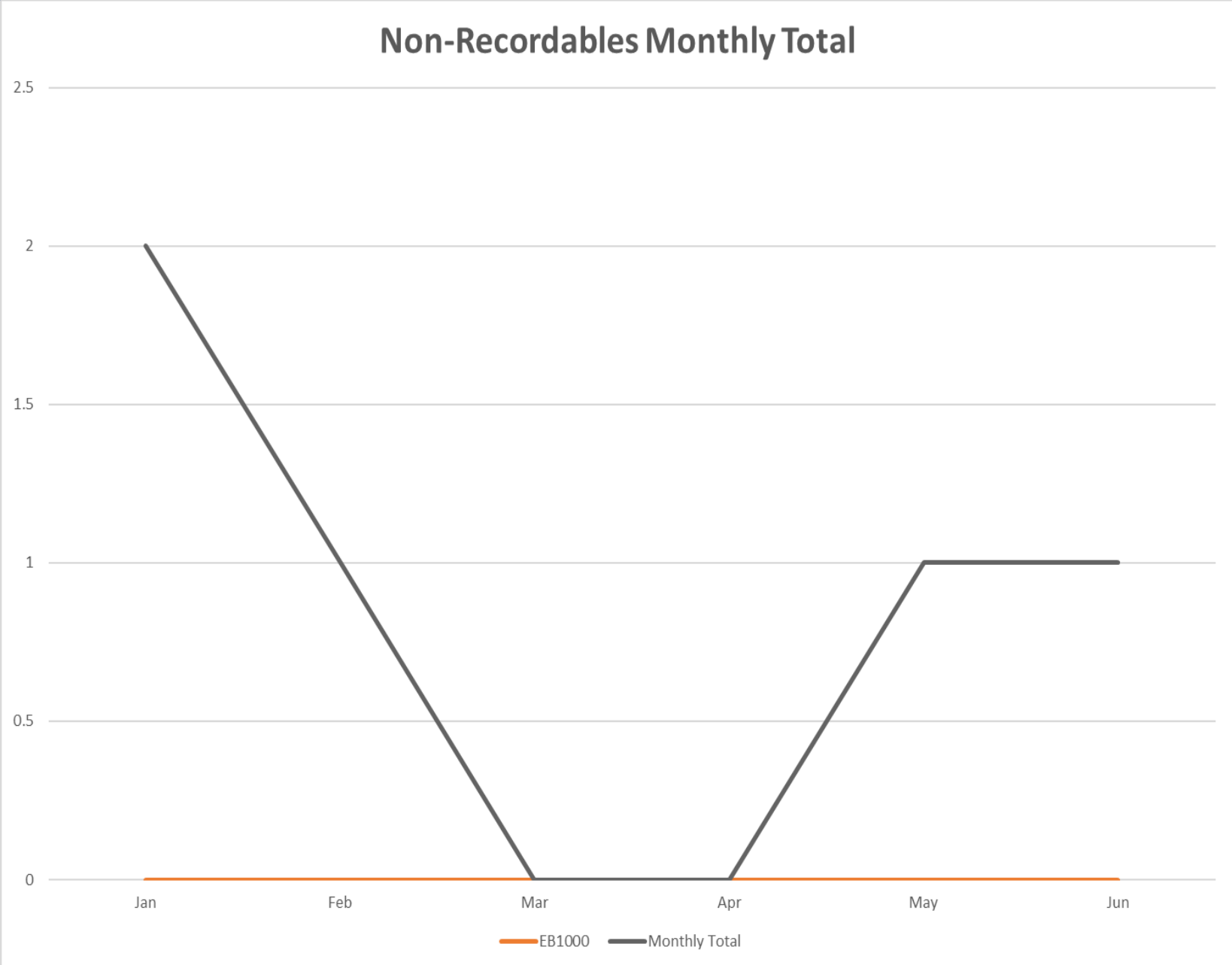
JSR's Monthly Total



Safety Champions

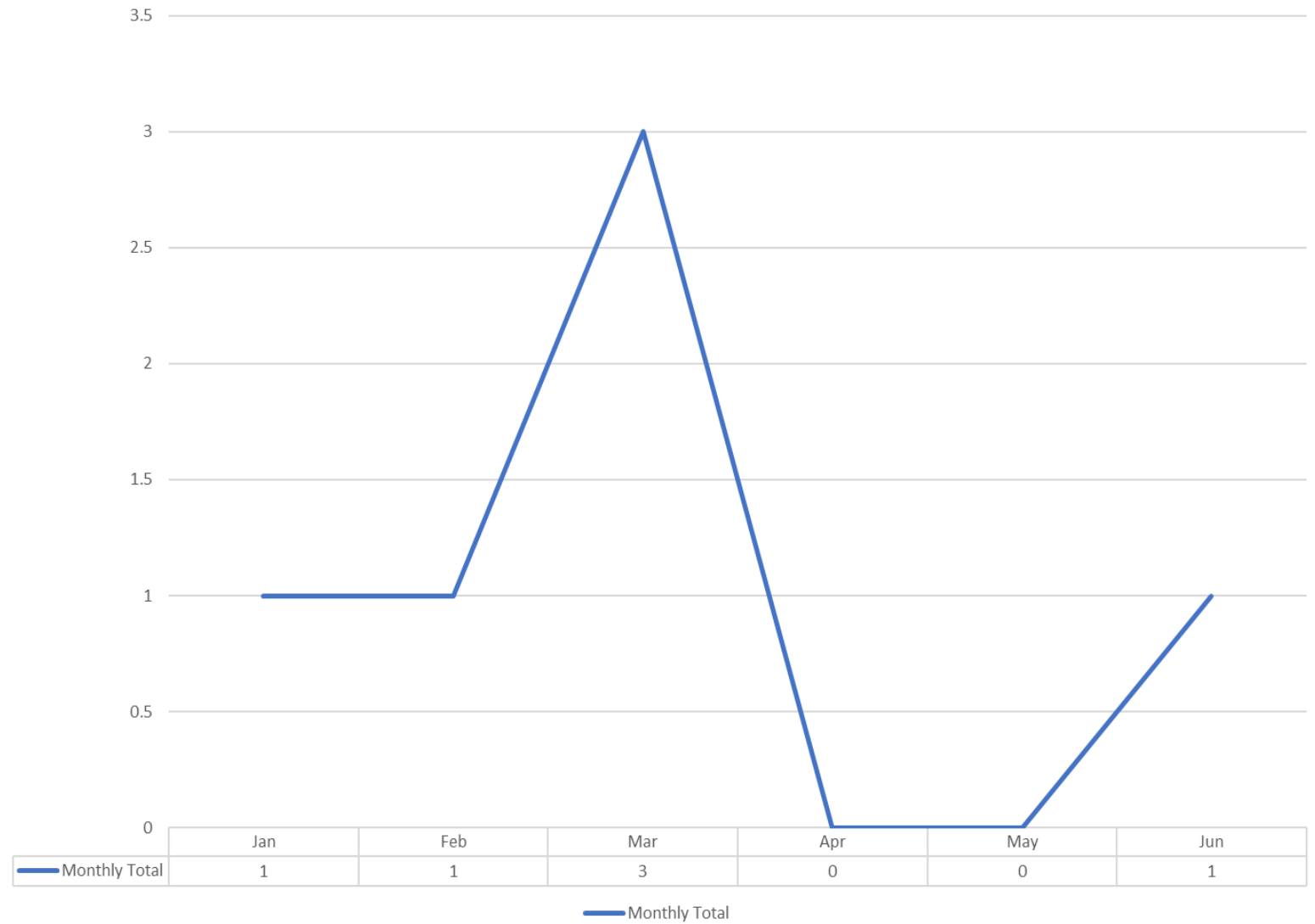


Safety Champions

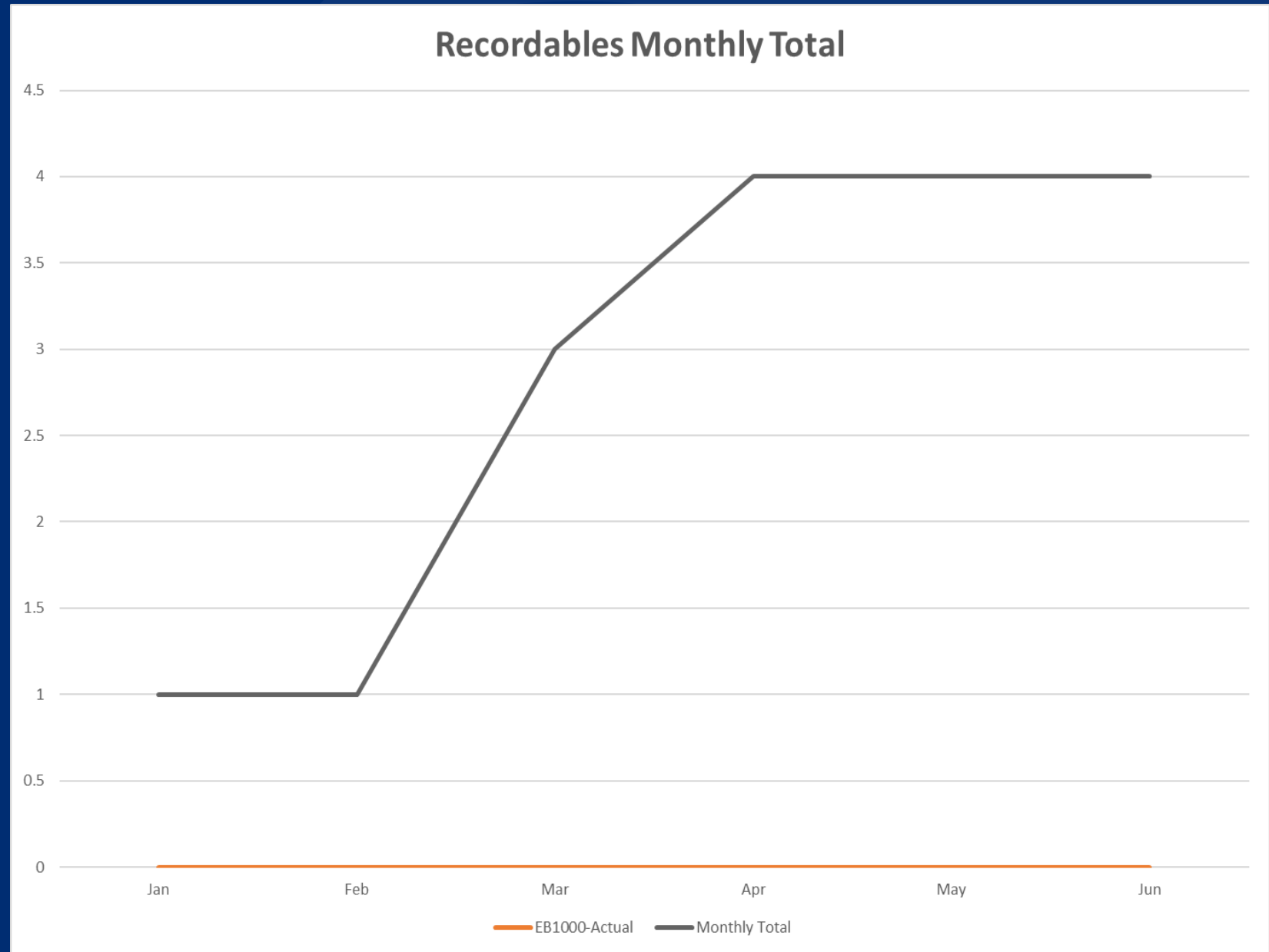


Safety Champions

Close Calls Monthly Total



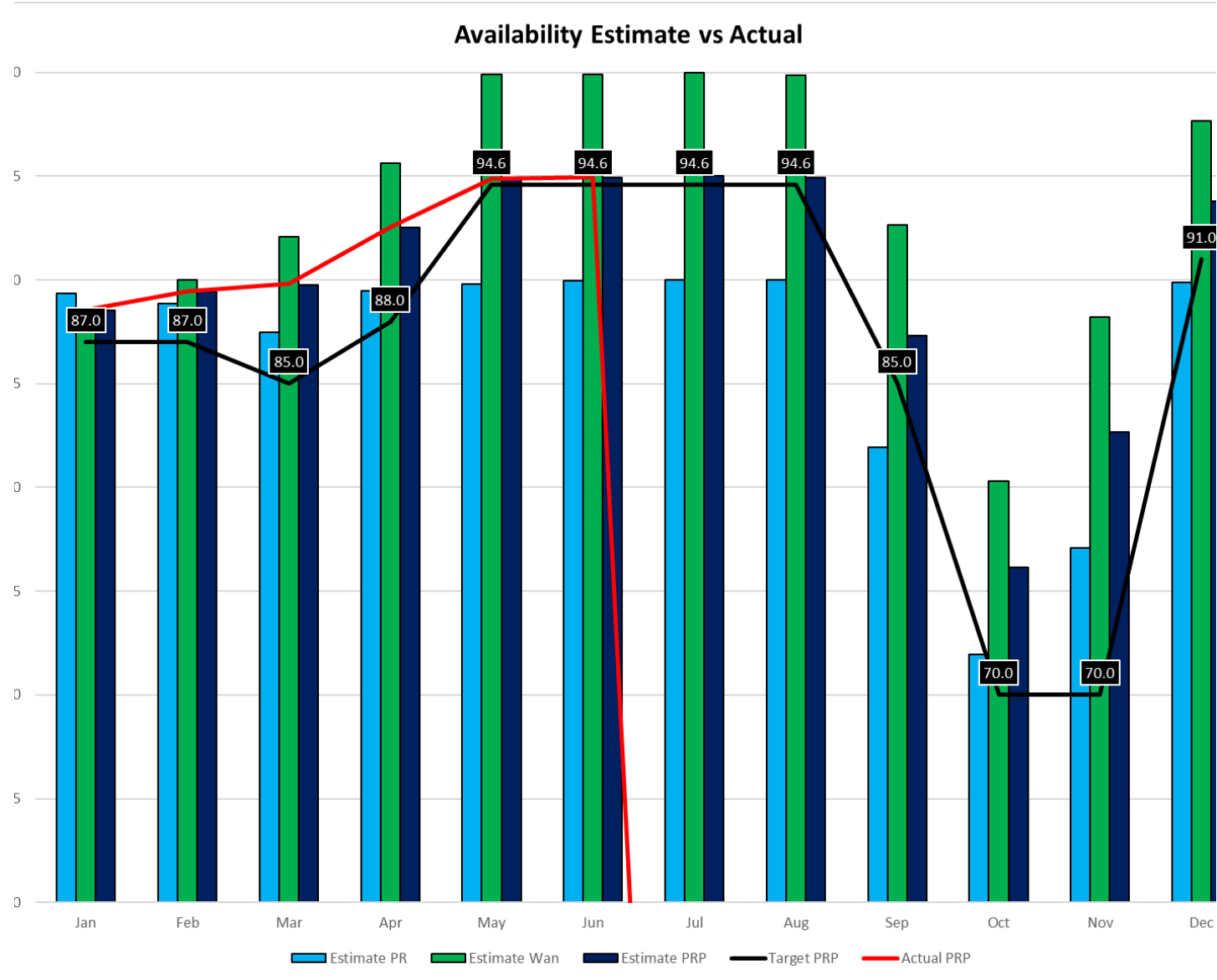
Safety Champions



Plant Performance:

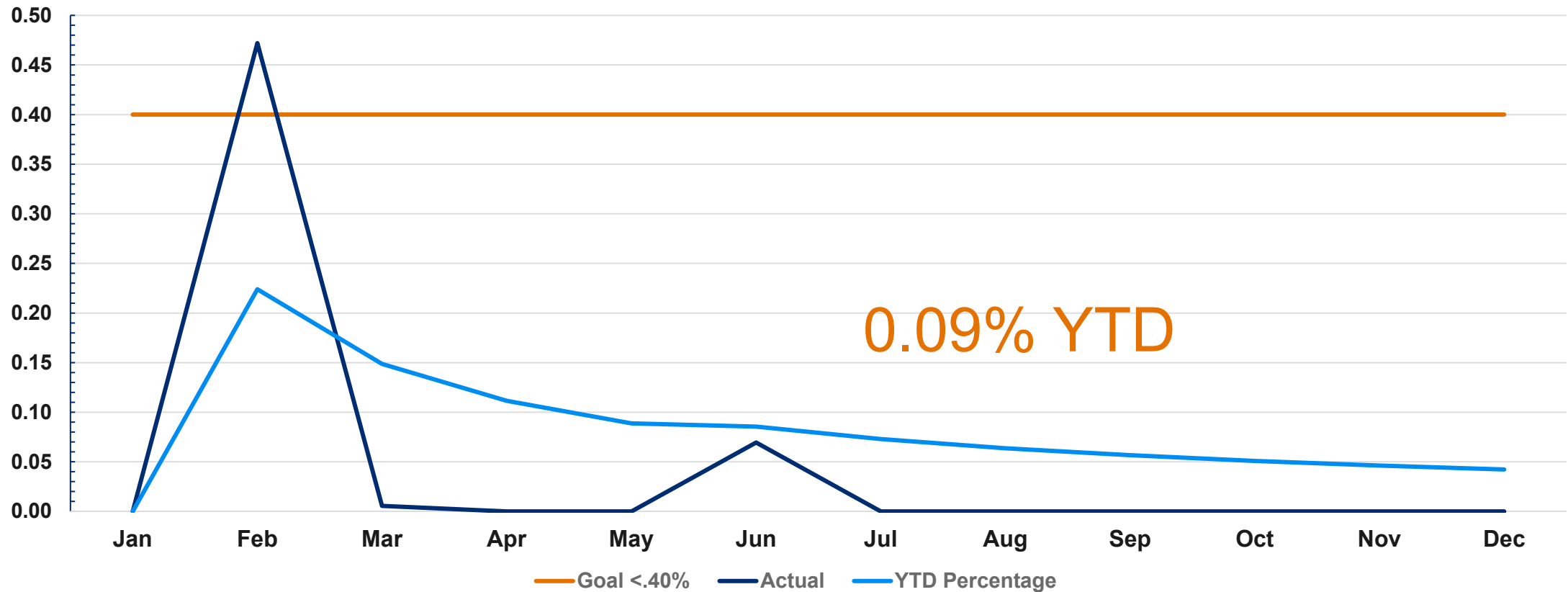
Unit Availability

**Targets met
6 of 6 months**



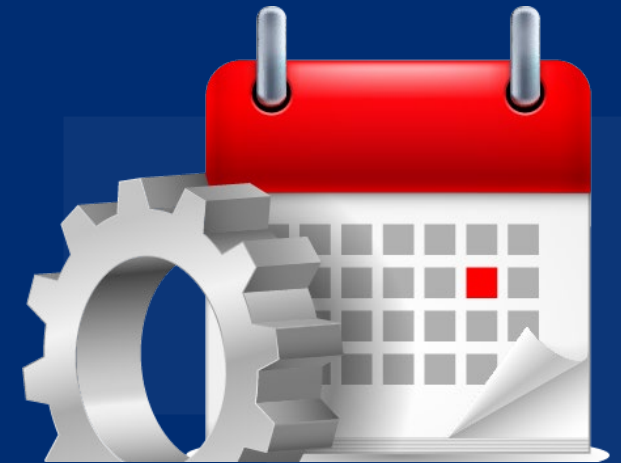
Plant Performance

Project Forced Outage Factor



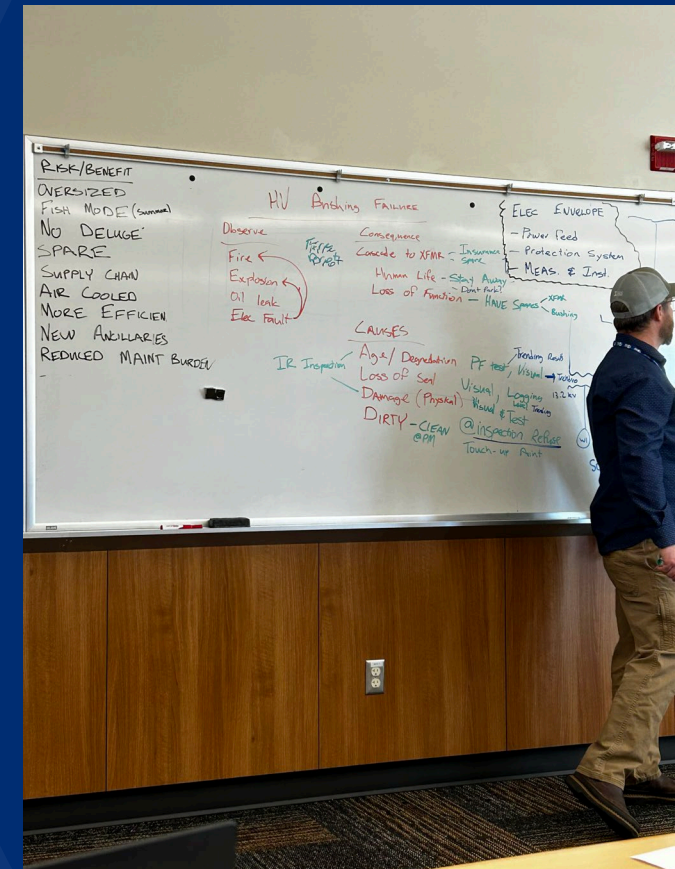
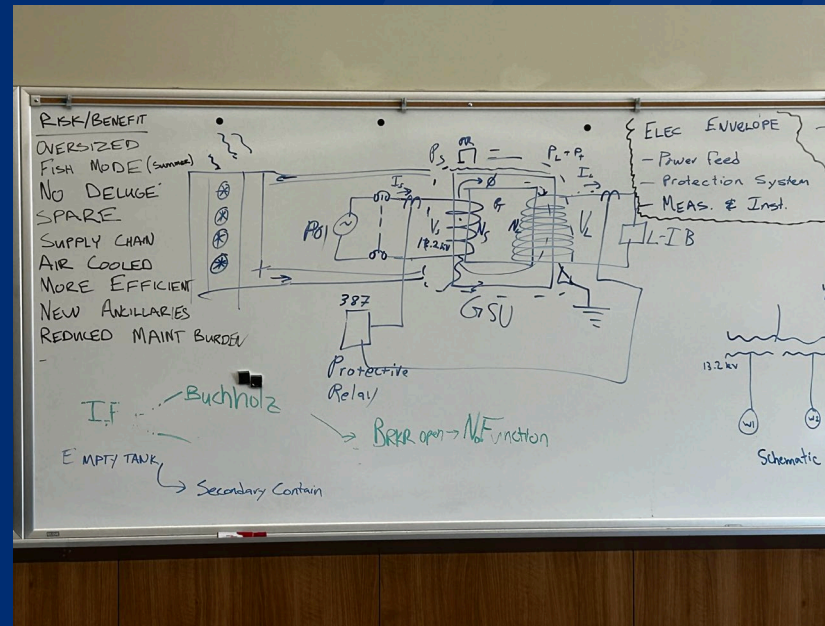
Asset Management - Updates

- 4 Team Members Completed Asset Management Diploma Training
- 11 Others Signed up for Joint Asset Management Training with Chelan
- Working to Standardize Work Processes and Maximo Home Screens by Role
- Continued Maximo Training with Employees, Putting an emphasis on Maintenance Crews



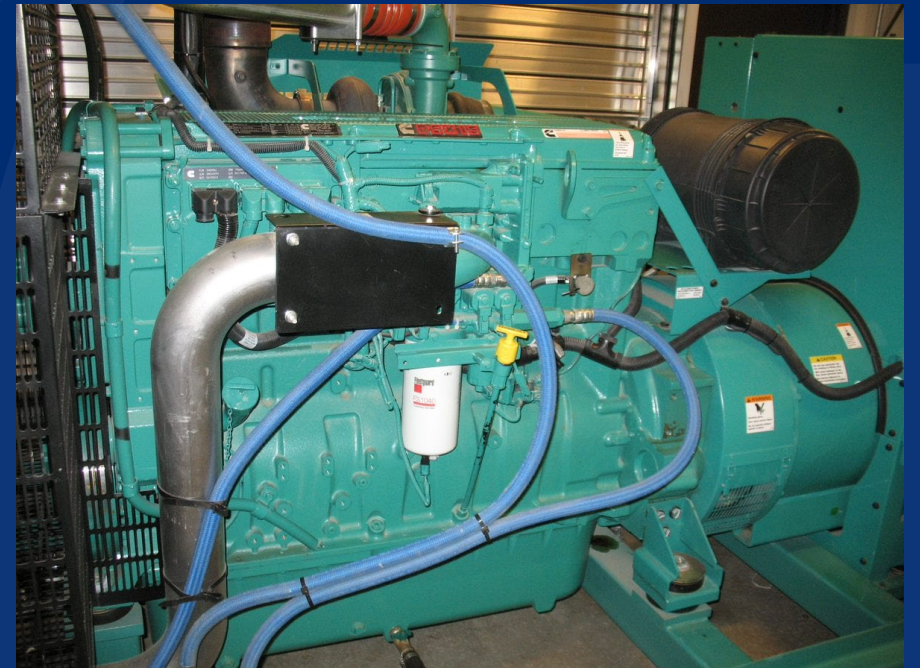
GSU Transformer Asset Strategy

- Risk Workshop With Subject Matter Experts from Maintenance, Operations, and Engineering
- Developing Strategy For 11 GSU Transformers at PR & WAN



Acclimation Facilities

- Creating Asset Registries
- Developing Maintenance Program
- Proper Lifecycle Management of Equipment



Nason Creek Emergency Diesel Generator

Capital Project Update

Investing in Assets

Priest Rapids Right Embankment Improvement Project

- Final Push-Secant Pile Wall Drilling
- Completion: End of August

- PR Unit Rehab
 - 5th Unit On Schedule

- Lock Out/ Tag Out

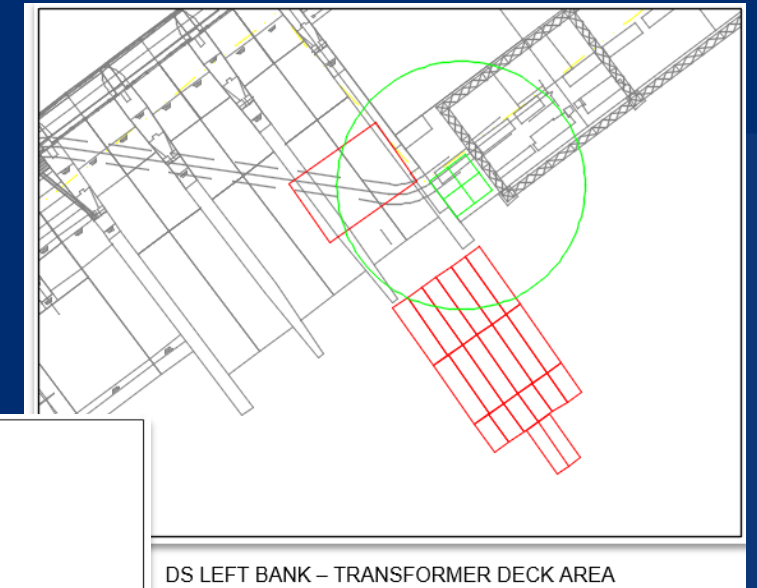
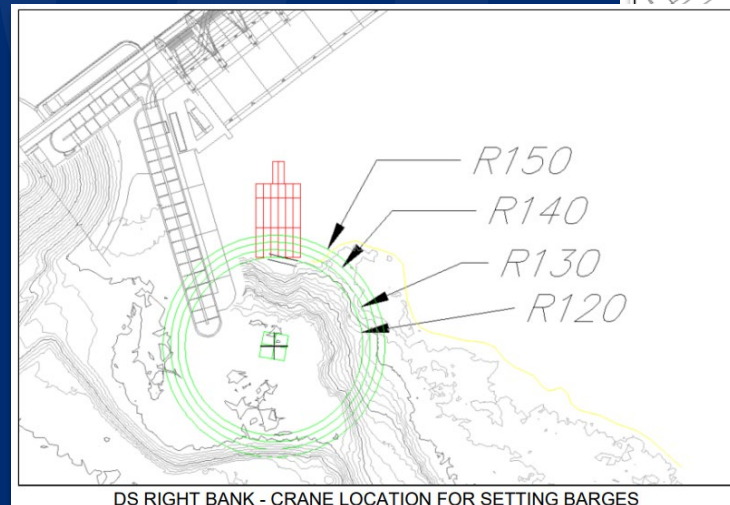


Priest Rapids Spillway Anchors

Plan The Work

Received Contractor's Feedback on:

- Barge Access
- Personnel Access
- Sequencing
- Technical Specifications & Drawings
- Cost Savings

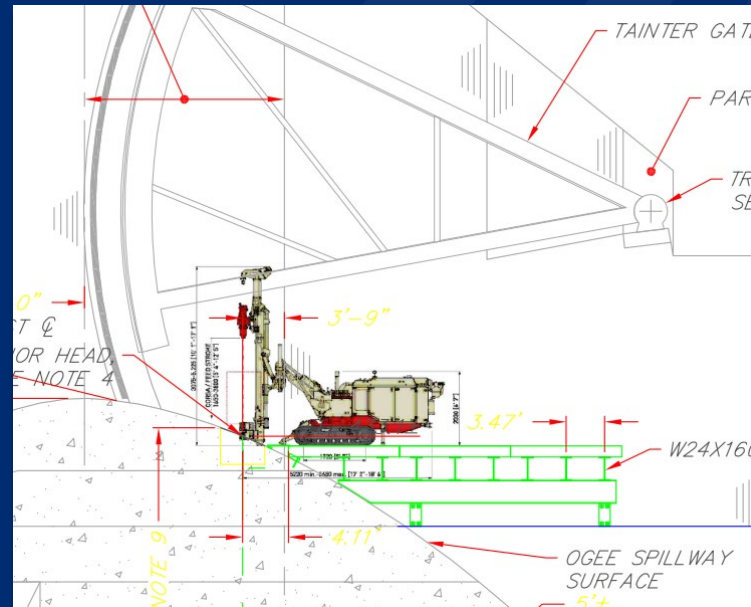


Priest Rapids Spillway Anchors

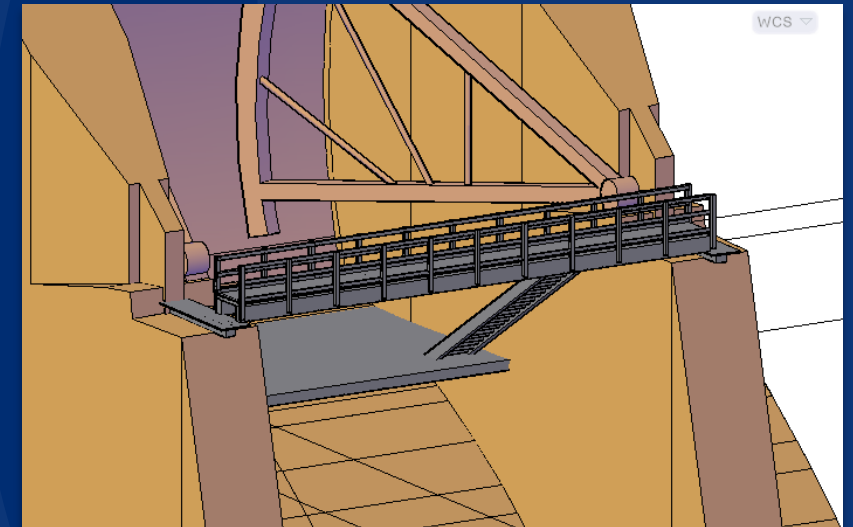
Plan The Work



Drawing Markup Indicating Sequencing



Work Platform and Drill Rig Working Clearance



3D Rendering of Potential Personnel Access Catwalk

Federal Funding Application

Lowering our Costs

Priest Rapids Spillway Anchor Project (Section 247)

- Cross Department Team – Big Lift (Vanessa Leading)
- October Permit Application Deadline
- \$5 Million in Savings Potential

2023 Strategy Deployment

Refocusing with Corporate Strategy

Work Management

- Work Intake Process

Business Process

- Compliance Tracking with Maximo and Docminder
- Procedure Writing Training
- How To Videos

Asset Management

- Addition of Asset Life, Cost, Warranty Data

People Development

- Power Production Skills Matrices

Next Steps

- 2024 COO Expansion- Q3



Personnel-New Team Members

Workforce of the Future

Engineering

- Fred Stock-Electrical Engineer
- Brennen Bazaldua- Mech Eng. Intern
- Cooper Harris- Mech Eng. Intern
- Jacob Boswell- Elec Eng. Intern

Hydro Generation

- Andrew Cochran- Power Plant Operator
- Jacob Bolin- Power Plant Operator
- Brian Lopez- Hydro Electrician
- Harold Baumgardner- Hydro Electrician



CODE OF
EXCELLENCE



Q3 Forecast

Staying Focused on Safety & Efficiency

- Reschedule/Adjust
 - Strategy Deployment Workshop with COO
- Improve
 - Capital Project Planning
- Personnel
 - Hosting Hydro Industry Recruiting Event





Powering our way of life.

Power Delivery

Q2 2023 Business Report



Grant County
PUBLIC UTILITY DISTRICT

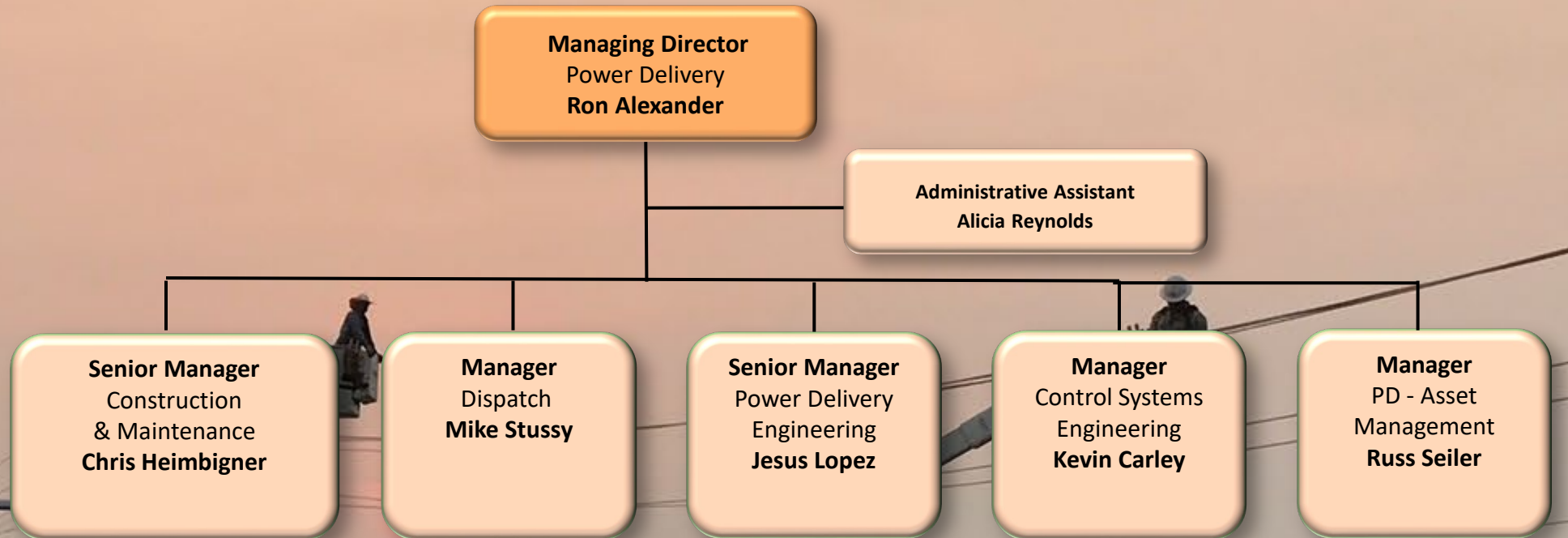
Purpose and Goal

Purpose: Provide our customers with safe, reliable electric and communication services by effectively planning, designing, constructing, maintaining and operating our assets.

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



Structure and Personnel



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

- Dispatch

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

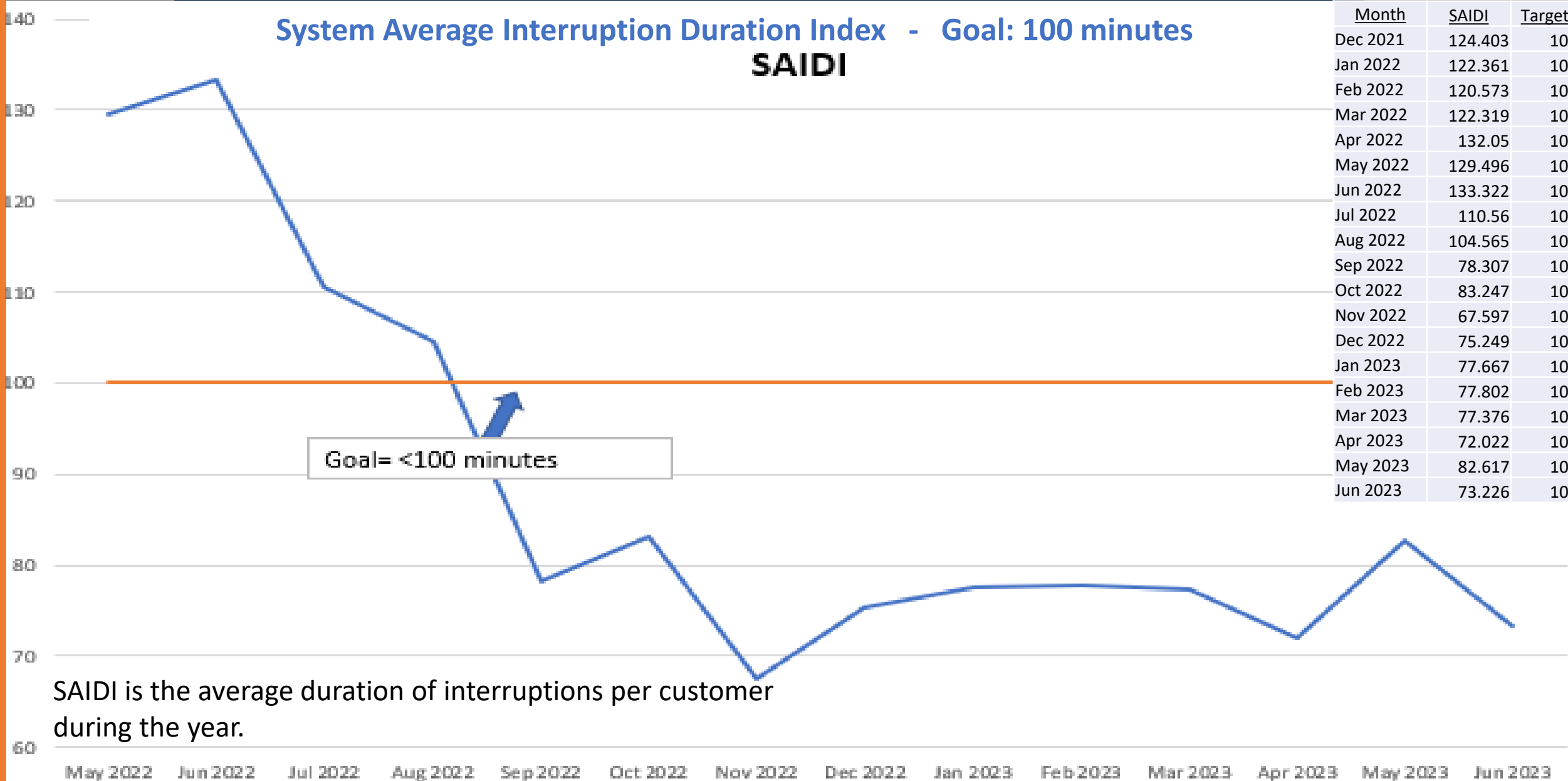
- Control Systems

- Asset Management
- GIS Mapping
- Work Management

Operational Performance - SAIDI

System Average Interruption Duration Index - Goal: 100 minutes

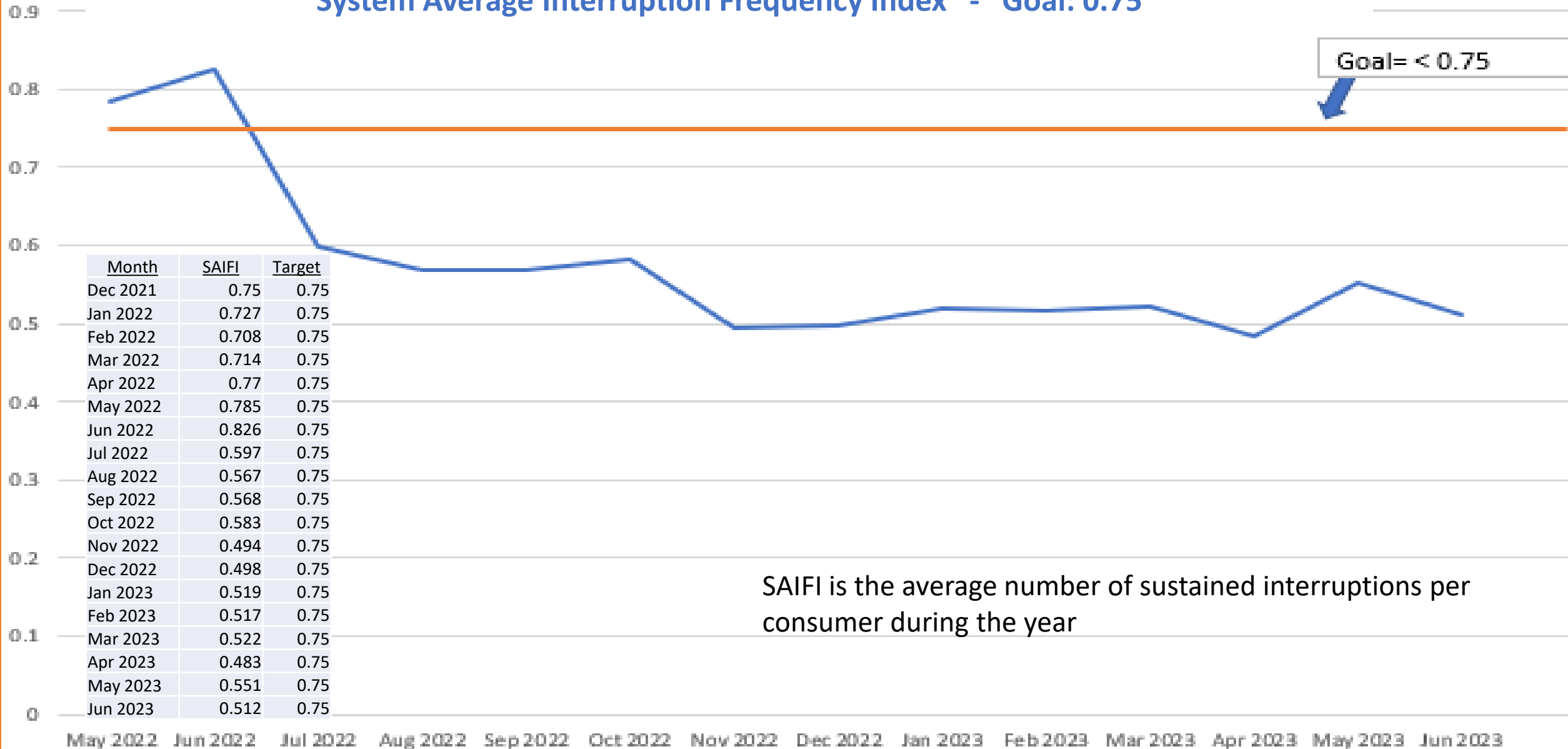
SAIDI



SAIDI is the average duration of interruptions per customer during the year.

Operational Performance - SAIFI

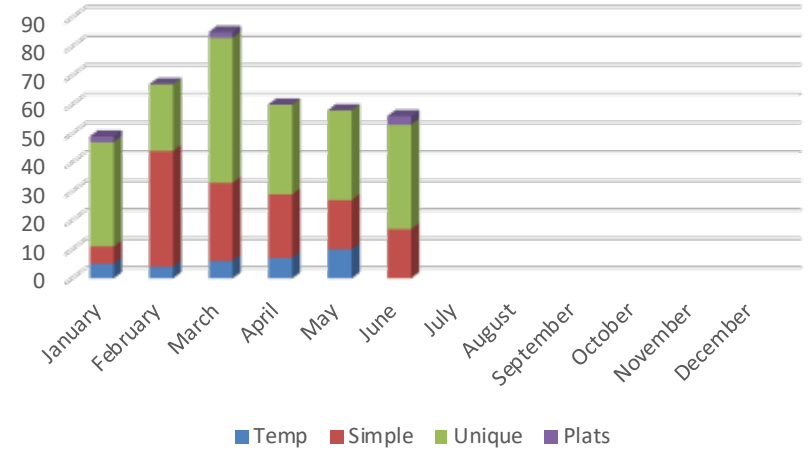
System Average Interruption Frequency Index - Goal: 0.75



Operational Performance – Work Orders Rec'd

CUSTOMER ENGINEERING WORK ORDERS

WORK ORDER TYPES



2023	Temp	Simple	Unique	Plats	Total	Total
January	5	6	36	2	49	
February	4	40	23	0	67	
March	6	27	50	2	85	201
April	7	22	31	0	60	
May	10	17	31	0	58	
June	0	17	36	3	56	174
July					0	
August					0	
September					0	0
October					0	
November					0	
December					0	0
	32	129	207	7		
					Yearly Total:	375



POWER DELIVERY – INVESTING IN OUR PEOPLE!

- Working with Power Delivery Facilities team to incorporate a future training facility
- Working with Engineering to develop a 10-year plan for obtaining “Engineer V”
- Leadership development with Foreman Training and Management Human Performance training. Attended conference/classes in Q2 of 2023
- Training curriculum for Meter Relay Technicians to become “Craftsman.” Year 1 developed and being reviewed; Year 2 under development
- Meter Department being created within PD. New apprenticeship opportunity for two people this fall
- Designing next apprenticeship for 2024: Substation Operations
- Working toward a common “Year 1” training for all new apprentices with attendance at Big Bend Community College
- Working with Organizational Development on strategy and business cases to support Apprenticeships in Power Delivery
- 2024 - Bridge apprenticeships with Power Production needs and identify succession planning opportunities


Power Quality – Investing in our Core Customers

- K5 circuit upgrade 50% completed
- Jericho J5 circuit regulator moved
- Pump start analysis began in May, working with area irrigators in 29 sites
- PQ evaluations moving into royal, potholes, warden
- Analysis on capacitor bank needs sent to PDE for final verification prior to request for funding
- Ongoing Core Customer outreach by Mark Falstad and John Kemman, at least 12 customers already contacted Mark and John directly for meetings



Power Delivery Engineering

- **QTEP**
 - Commenced design work on Quincy transmission segments.
 - Developing procurement plan to mitigate supply chain constraints and expedite schedule.
 - Continuing participation with PMO and Property Services on public outreach
- **West Canal and Quincy Foothills Substations**
 - Labor contract bids have been opened and award process is underway
- **Big Bend Switchyard**
 - Design work is complete.
 - Project going on pause per customer request.
- **Ruff Substation (ECBID)**
 - Procurement of material has commenced
 - Working with customer to confirming project schedule
- **Design Build 2**
 - Continuing technical support of program



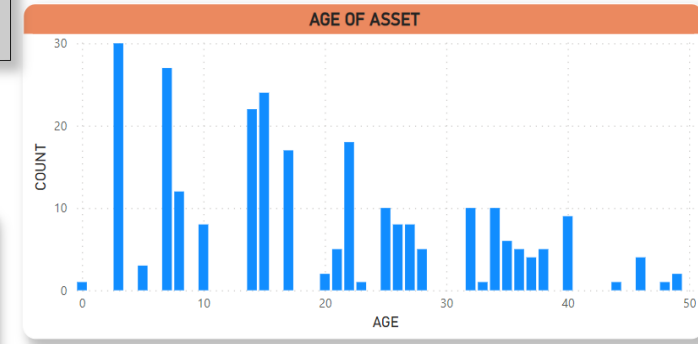
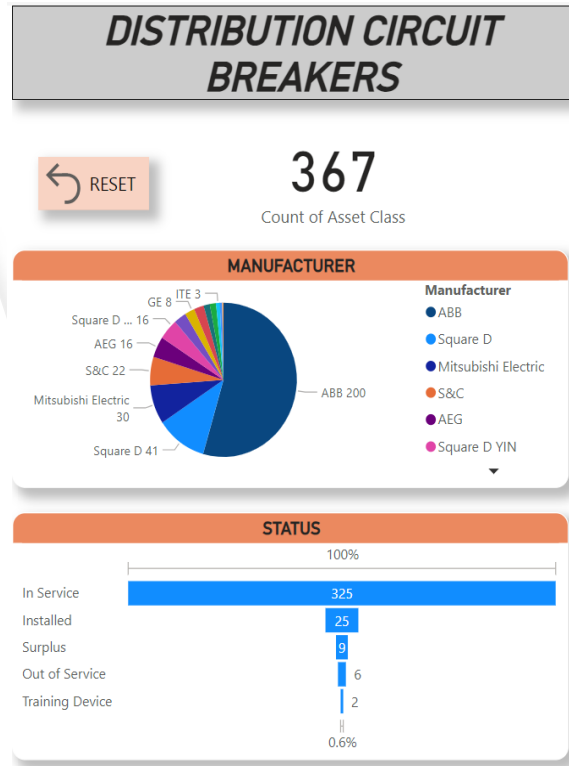
System Operations (Dispatch)

- Leroy Patterson retired. Mike Stussy taking over as Manager
- Currently reviewing applicants for the open Operations Technical Advisor position. 5 viable candidates. Interviews being arranged.
- Staff Operations Technical Advisors – Performing Operations Planning Analysis, seasonal studies, and other operating study functions, previously performed by PDE as of 1/1/2023
- Implementing 2023 training plans to meet NERC requirements
- Increasing coordination effort with C&M to prioritize maintenance
- Working with industry, PMO and Facilities on new display board options due to continued capital improvement to our power system with new stations, facilities and lines

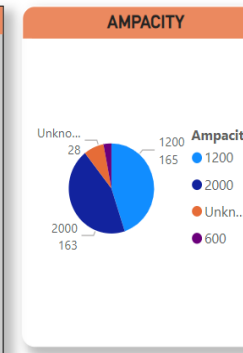


PD Asset Management

- Asset Management:
 - Starting Bar Code Tagging for Substation and Cyber Assets
 - Substation Equipment Dashboards – Better Access to Data
 - Starting Fiber Squirrel Guarding Pilot
 - Asset Risk Models – Working with Maintenance, Engineering, and Enterprise Risk
 - Clevest Project – Ongoing construction – Testing to begin Q4
 - Elogger Outage Data – Real Time Dashboard for Better Tracking



SUBSTATION	ASSET LOCATION	LINE-UP
Winchester	Y8	Y3RT
Wilson Creek	Y7	X3RT
White Trail	Y6	X1RT
Wheeler Distribution	Y5	WT3RT
West Quincy	X26	WQ40RT
Warden	X25	WQ30RT
Wahluke	X24	WQ2RT
Upper Coulee	X23	WQ1RT
SURPLUS	X22	W31RT
STORES	X14	W2RT
Soap Lake	X13	V10RT
Silicon	X12	Unknown
Sieler	X11	UC3RT
Seen Lake	X10	UC2RT



PD Asset Management

- GIS:
 - Work order backlog finished - New work orders getting mapped within 2 weeks
 - Customer Engineers have transitioned from old design system to new
 - Working with Dispatch to put tagging into GIS vs Paper Wall Maps
 - Planning for Fiber Audit as Phase 2 beginning 2024



Control Systems Engineering

- 2023 WECC Audit resulted in no finding and a few minor recommendations for documentation enhancements.
- Energy Management System (EMS)
 - EMS Replacement project
 - Continuing the loading of data into the new OSI Monarch EMS system
 - Production system and software installation complete. Network / Workstation installation to be completed August 2023.
- Operational Cyber Security
 - Building out Tenable to perform vulnerability assessments
- Energy Accounting System (EAS)
 - Coordinating with CAISO and OATI on an upgrade
 - Working on interface changes to support the Western Resource Adequacy Program (WRAP)
 - Integrating new Dynamic schedule for Morgan Stanley



Power Delivery: Construction and Maintenance Update



Powering our way of life.

Meter and Relay Shop

- Supporting voltage checks and pump starts for Power Quality with Mark Falstad and John Kemman

- 23 distribution transformer trip checks

-

- 13 distribution station relay testing

- 1 transmission relay testing.

- Baird Springs substation commission is near completion.





Power System Electricians

- New Power System Electrician 1st Year apprentice-Aaron Lindell
- Aaron Lindell and Craig Wood will be Going through PSE Apprenticeship together.
- Focusing on Leadership development this year with PSE Foreman. NWPPA certified Foreman Training. Completed Part Two of this training in Newport Oregon.

For our customers:

- Successfully coordinated with Chemi-Con and Genie to accomplish routine maintenance for all three entities.
- Increased emergency mobile deployment with additional qualified drivers.
- Deployed Mobile Sub to Warden substation in support of annual maintenance.



Line Crew

Staffing

- 2 new apprentices Ryan McDaniel, Jesse Paszkeicz
- 9 apprentices-2 are scheduled to complete the apprenticeship in August: Tyler Kautz, Tanner Pugh
- 1 new Lineman Brandon Hughes

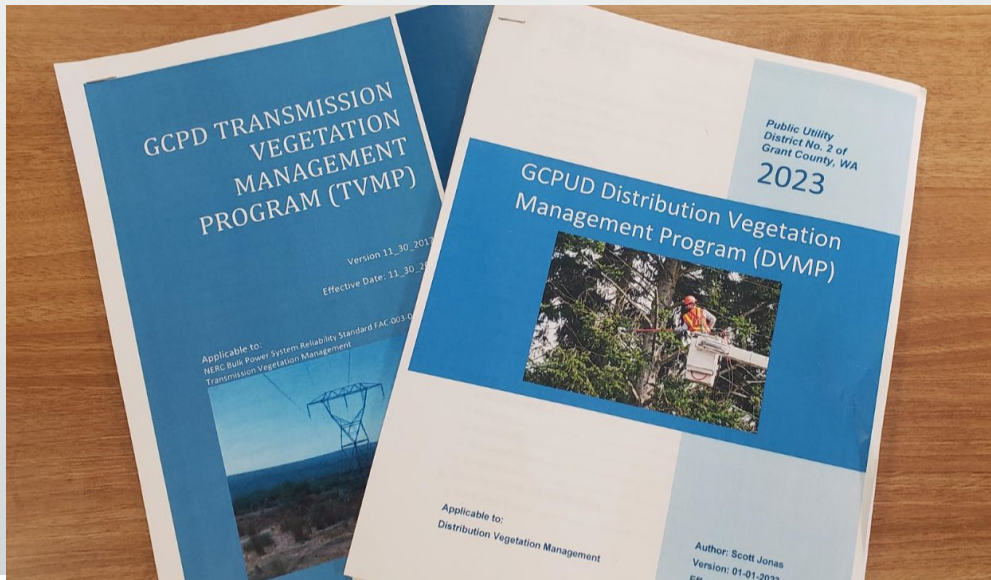
Projects

- Grant PUD line crews are working on customer service work orders (6-8 week backlog)
- District Improvement crew has completed the East side of K5 rebuild
- Transmission crew is working on maintenance
- 4 dock crews are working on fiber make ready, and B26 rebuild. L7 rebuild has been completed.



PD Maintenance Engineering

- Doble inside view is up and running, training to come
- New 3-year AMI contract active as of July 1st
- GC-1710 repairs completed
- New portable thumper purchased for meter relay shop
- Finalized corrective action for LTC oil concerns



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

Q2 RETAIL LOAD VARIANCE REPORT

Contributor:

Amanpreet Singh, Rates & Pricing

July 25th, 2023



Powering our way of life.

Q2 Summary – Budget Forecast vs. Actual

Load	Budget Forecast Load (aMW)	680
	Actual Load (aMW)	628
	Load Variance (aMW)	(52)
	Load Variance %	-7.6%

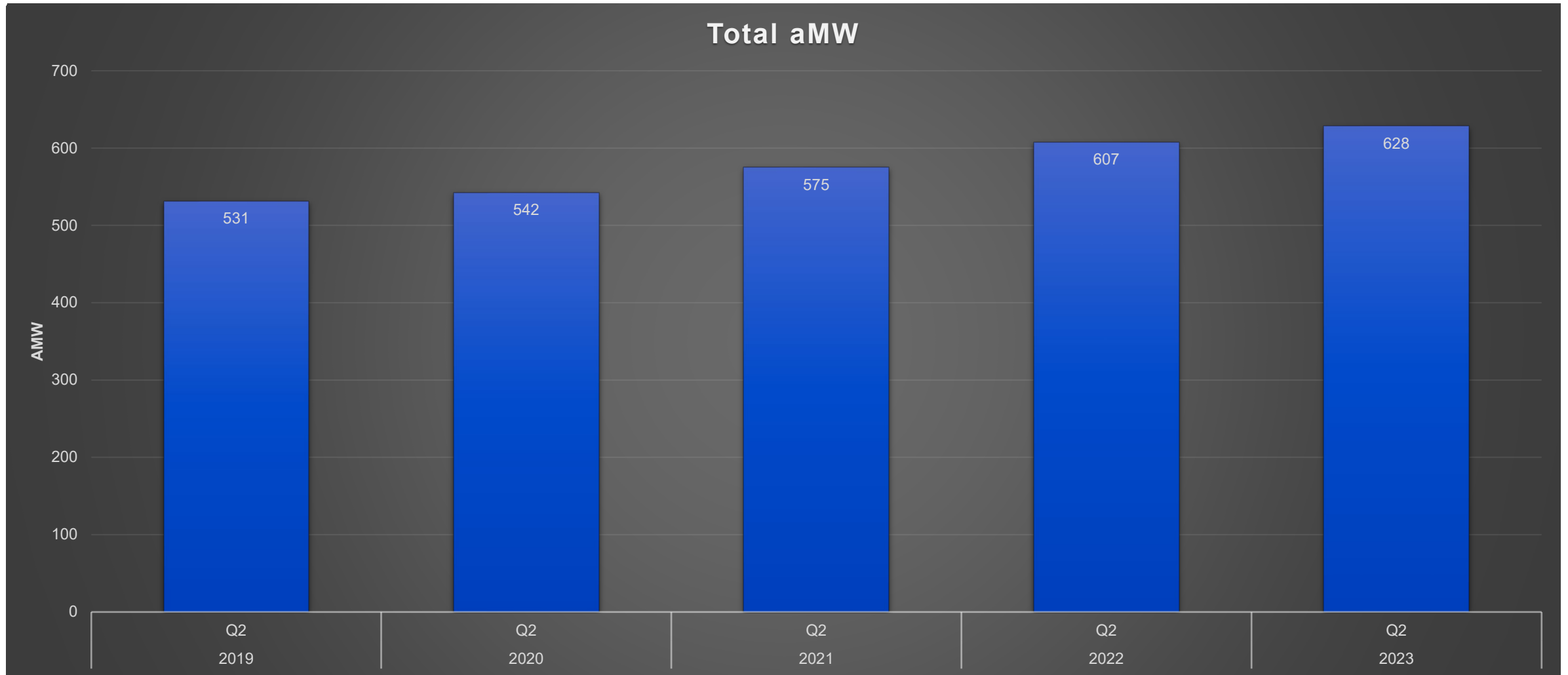
- Q2 Loads were **52 aMW**, or **7.6%, below** budgeted levels.

Rate Schedule Load Variances

Q2 Budget Forecast and Actuals Variance by Rate Schedule

	2023 Q2 Budget Forecast and Actual Loads (aMW)				\$ per kWh
	Forecast	Actual	Difference	Variance %	
Residential (1)	68	79	10	15.1%	\$0.062
Commercial (2)	51	52	1	2.8%	\$0.050
Irrigation (3)	83	56	(27)	-32.5%	\$0.055
Streetlights (6)	1	1	(0)	-0.5%	\$0.238
Large General (7)	74	43	(32)	-42.6%	\$0.035
Industrial (14)	31	24	(8)	-24.1%	\$0.033
Industrial (15)	302	274	(28)	-9.1%	\$0.038
Ag Food (16)	37	30	(7)	-18.8%	\$0.035
Evolving Industry (17)	-	33	33	N/A	\$0.047
Ag Food-Boiler (85)	-	-	-	N/A	N/A
New Large Load (94)	33	37	4	13.0%	\$0.059
Totals	680	628	(52)	-7.6%	\$0.045

Rate Schedule Q2 Load History



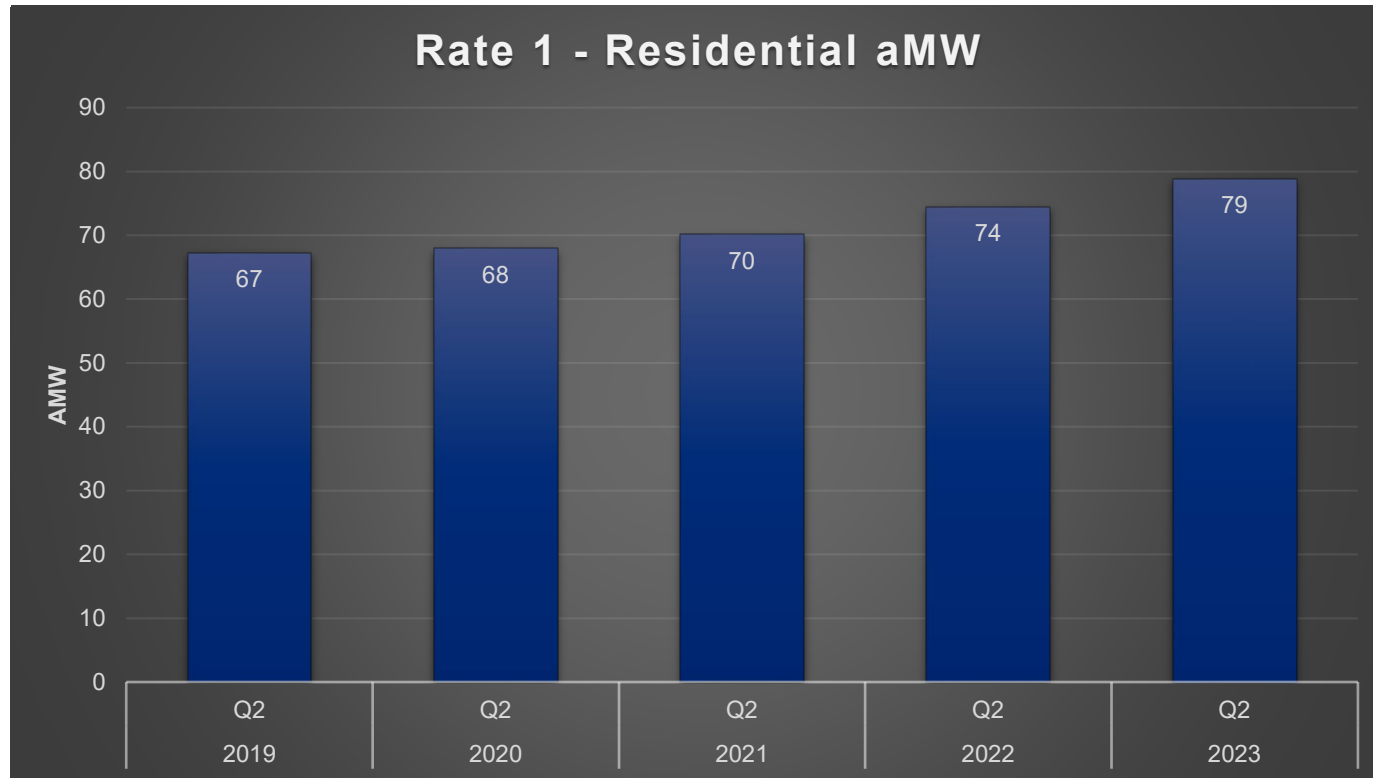
Q2 Rate Schedule 1 Residential Differences

Q2 Residential (RS 1) actual loads were **79 aMW, 15.1% higher** than budget forecast.

- Hotter weather conditions led to Residential load being higher than it would have been given normal weather conditions
- Adjusted for the weather, actual load was **73 aMW**, Residential loads are **7.2% higher** than the budget forecast



Q2 Rate Schedule 1 Residential History



Q2 Rate Schedule 2 General Service Differences

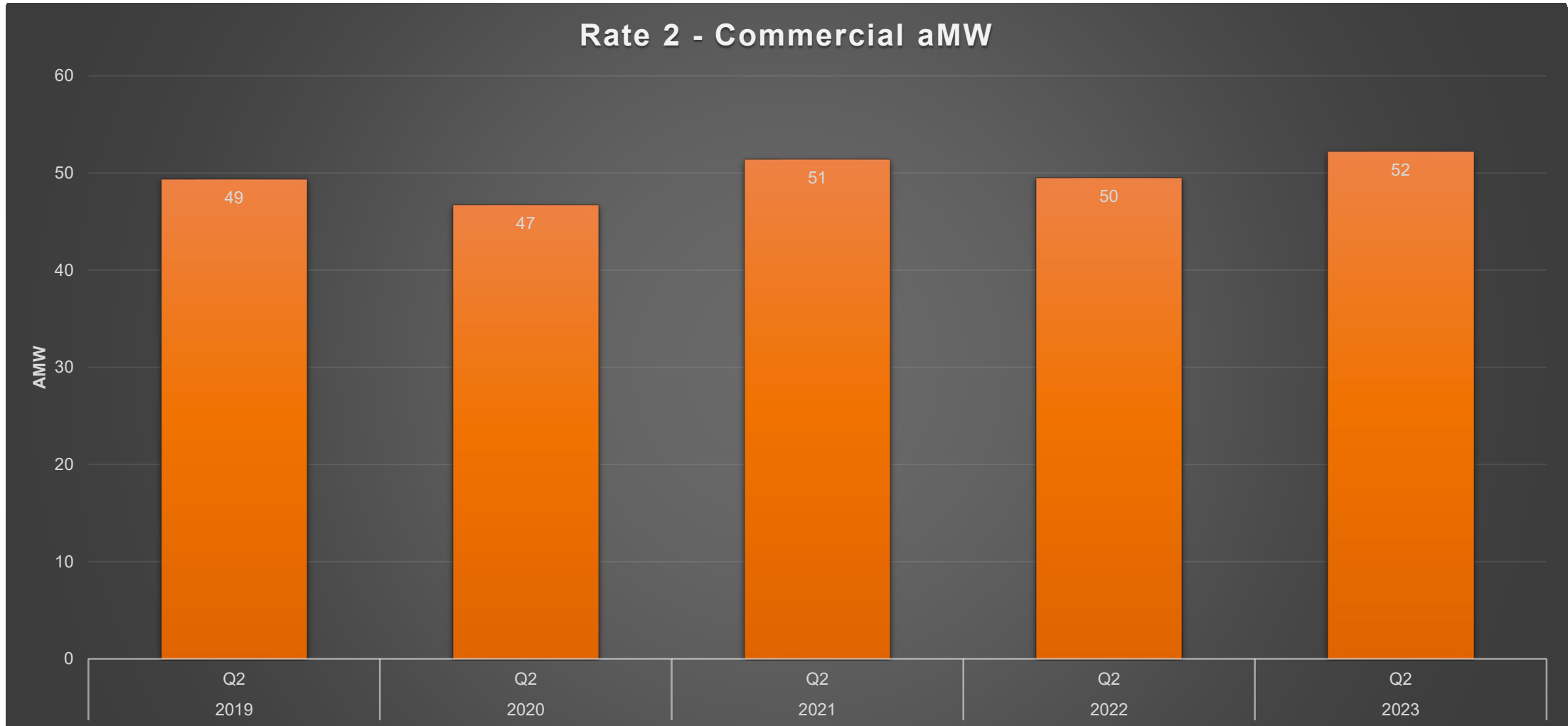
Q2 General Service / Commercial (RS 2) actual loads were **52 aMW, 2.8% higher** than budget forecast.

- The weather-normalized Commercial actual load is **52 aMW, 2.4% higher** than the budget forecast
- The May 2023 unemployment rate for Grant County was **3.8%, or 26.9% lower** than in May 2022, which was **5.2%**
 - In February 2023, unemployment was **9.1%**

**Note: the unemployment figures are subject to revision on the website



Q2 Rate Schedule 2 General Service History



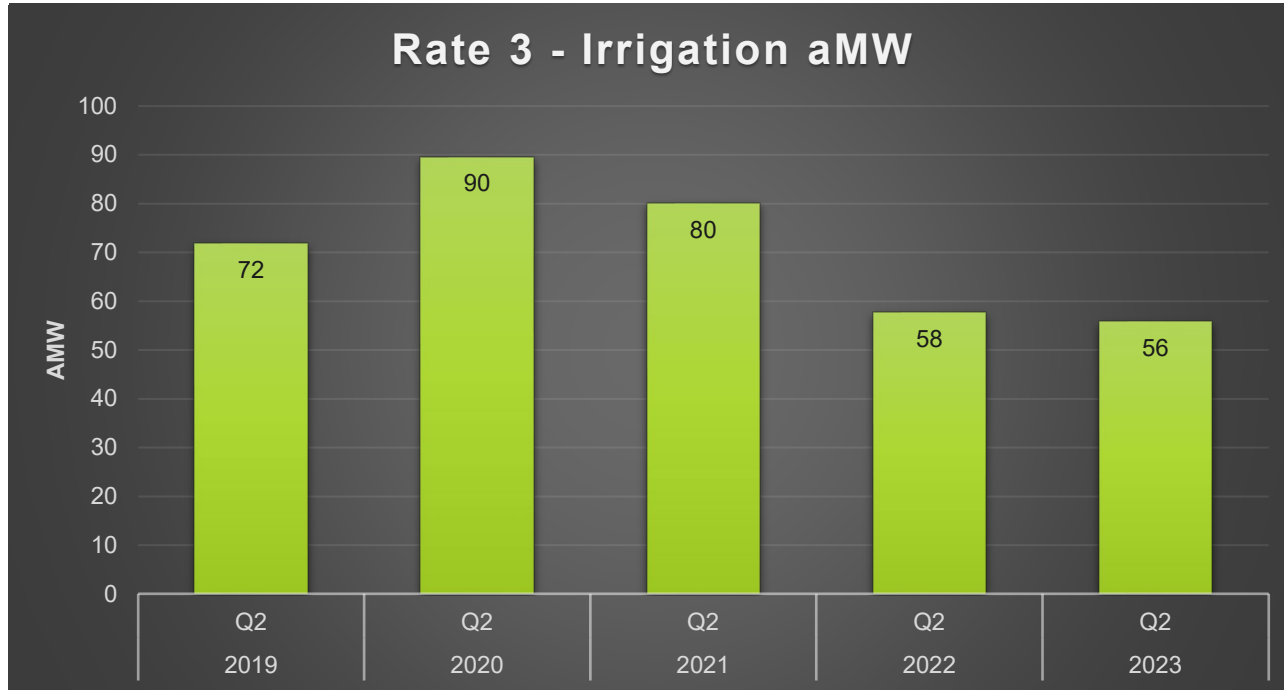
Q2 Rate Schedule 3 Irrigation Differences

Q2 Irrigation (RS 3) actual loads were **56 aMW, 32.5% lower** than budget forecast.

- 2021 Load Profile was used to shape the Irrigation loads in the forecast
- The difference between billing data and the load profile is causing the variance
- As the year progresses this variance should decrease as more of the load data gets billed in the billing system



Q2 Rate Schedule 3 Irrigation History



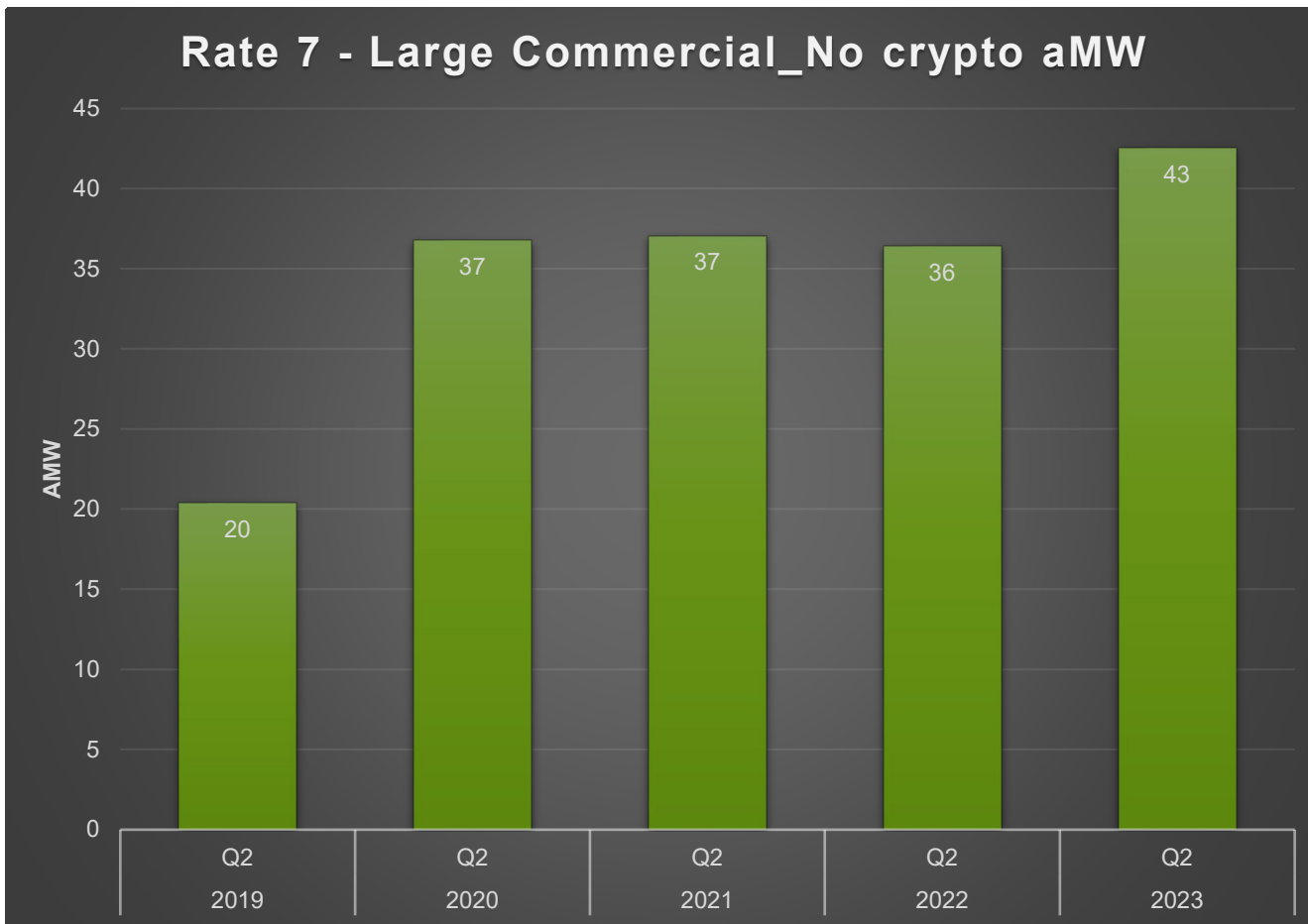
Q2 Rate Schedule 7 Large General Service Differences

Q2 Large General (RS 7) actual loads were **43 aMW, 42.6% lower** than budget forecast.

- Large commercial decrease is largely attributable to cryptocurrency mining being moved to Rate Schedule 17 starting February 1st, 2023.



Q2 Rate Schedule 7 Large General Service History



Q2 Rate Schedule 14 Industrial Differences

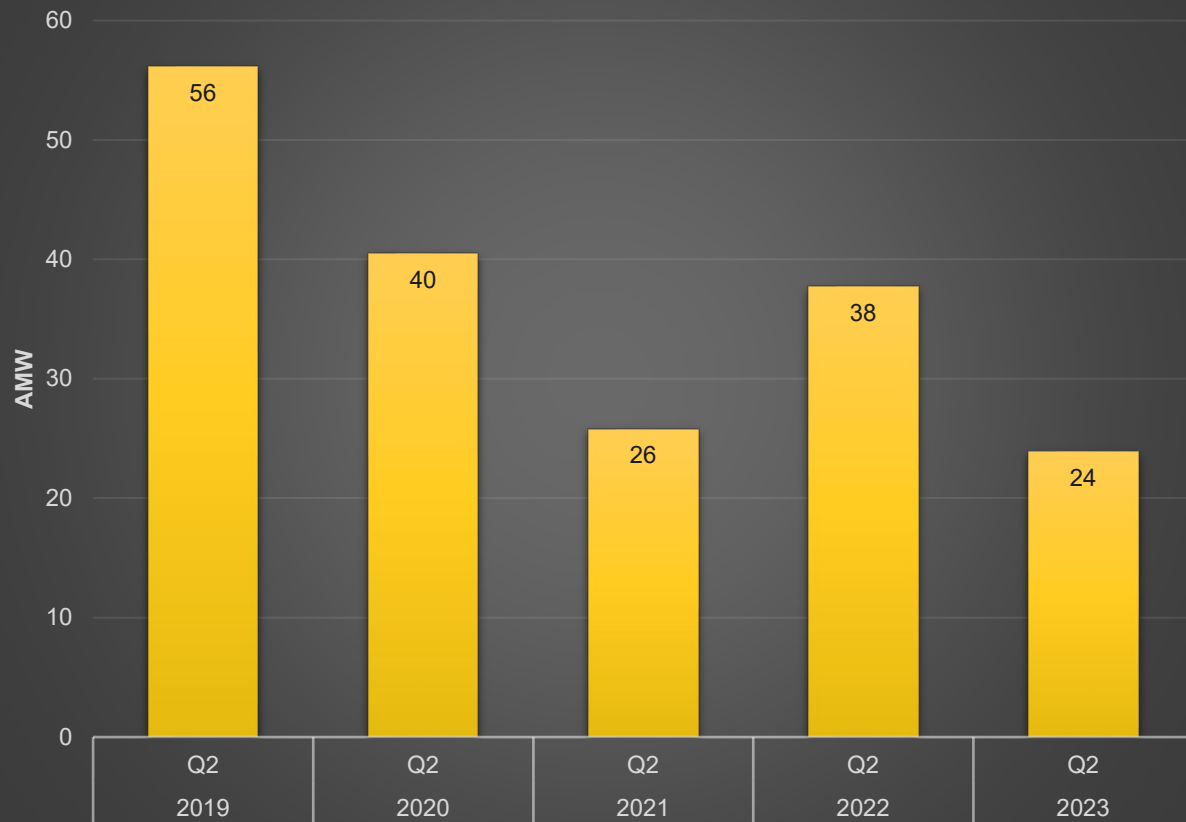
Q2 Industrial (RS 14) actual loads were **24 aMW, -24.1% below** budget forecast.

- Two customers are coming in a lot lower than forecasted.



Q2 Rate Schedule 14 Industrial History

Rate 14 - Industrial aMW



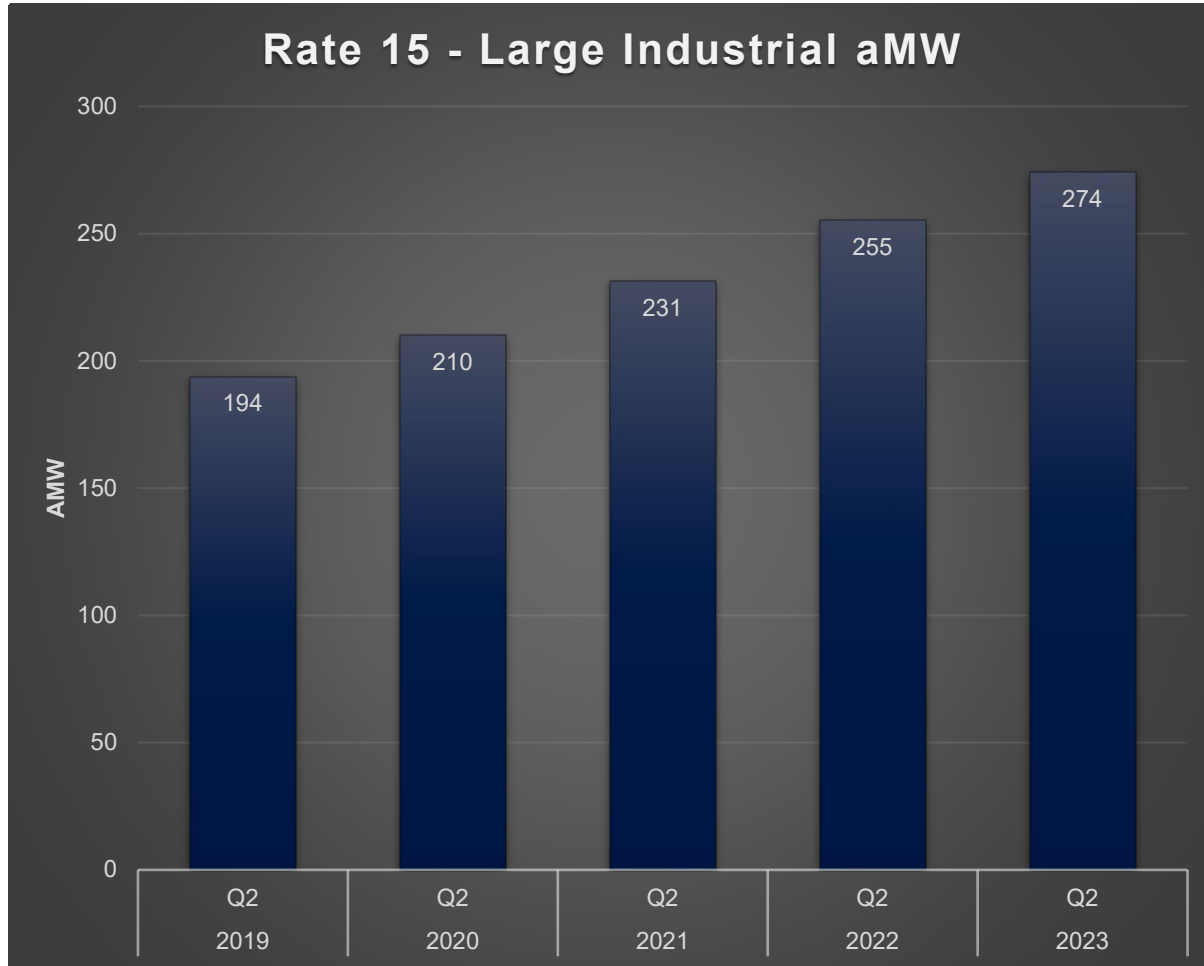
Q2 Rate Schedule 15 Large Industrial Differences

Q2 Large Industrial (RS 15) actual loads were **274 aMW, 9.1% below** budget forecast.

- Two customers have reduced loads due to maintenance
- Two Data Center customers are coming in a lot lower than forecasted



Q2 Rate Schedule 15 Large Industrial History



Q1 Rate Schedule 94 New Large Load Differences

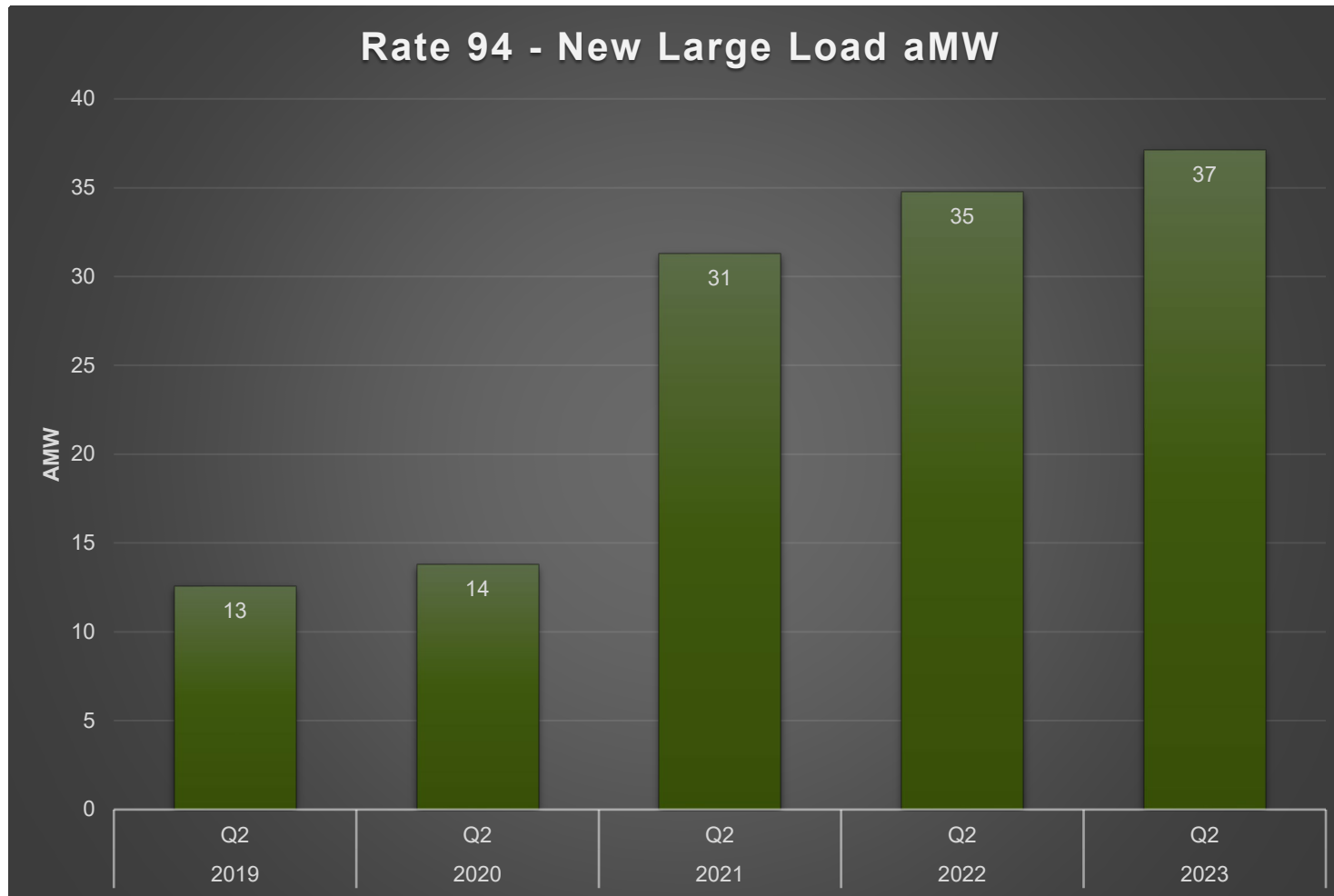
Q2 New Large Load (RS 94) actuals were **37 aMW, 13.0% above** budget forecast.

- Increase in New Large Loads is arising from one customer growing faster than forecasted.



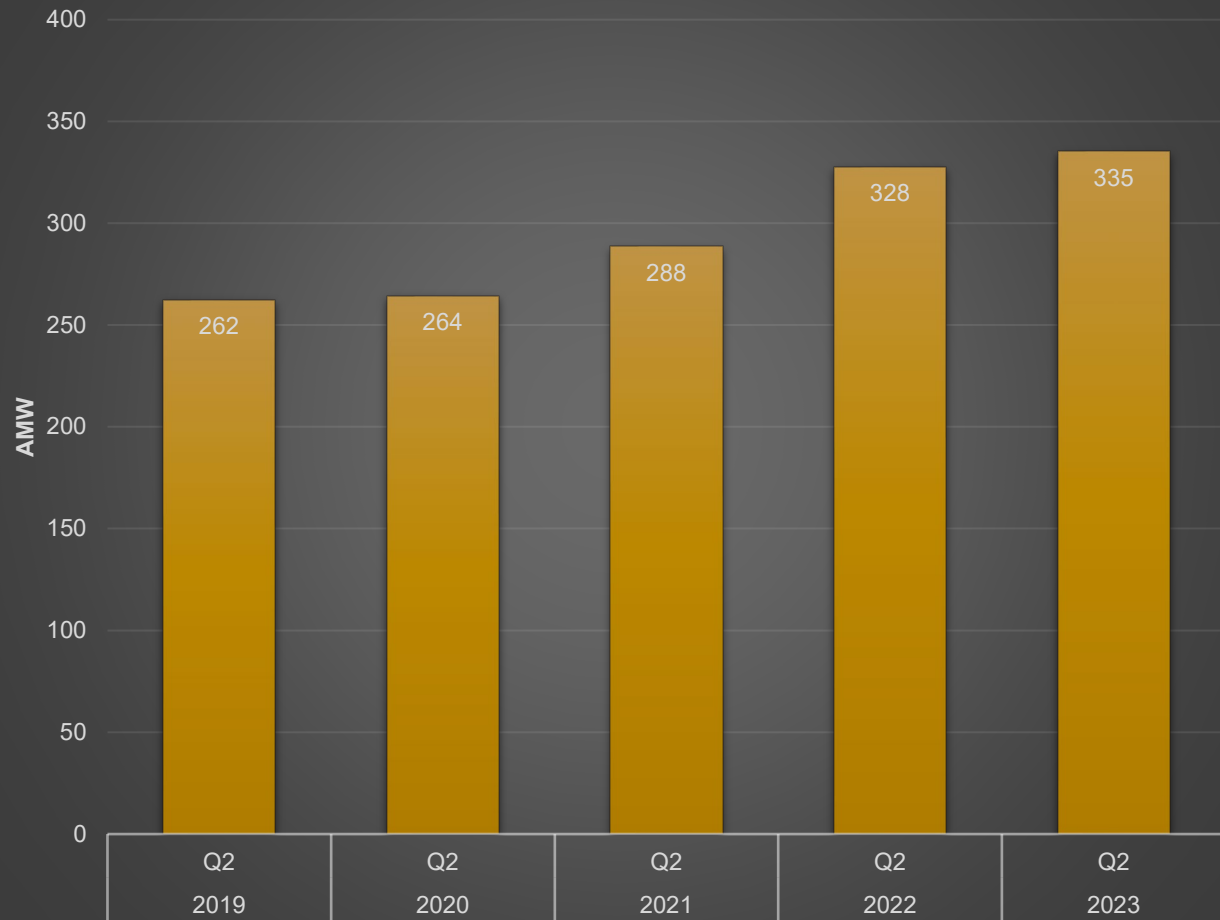
Q2 Rate Schedule 94

New Large Load History



Q2 Industrial History

Industrial aMW



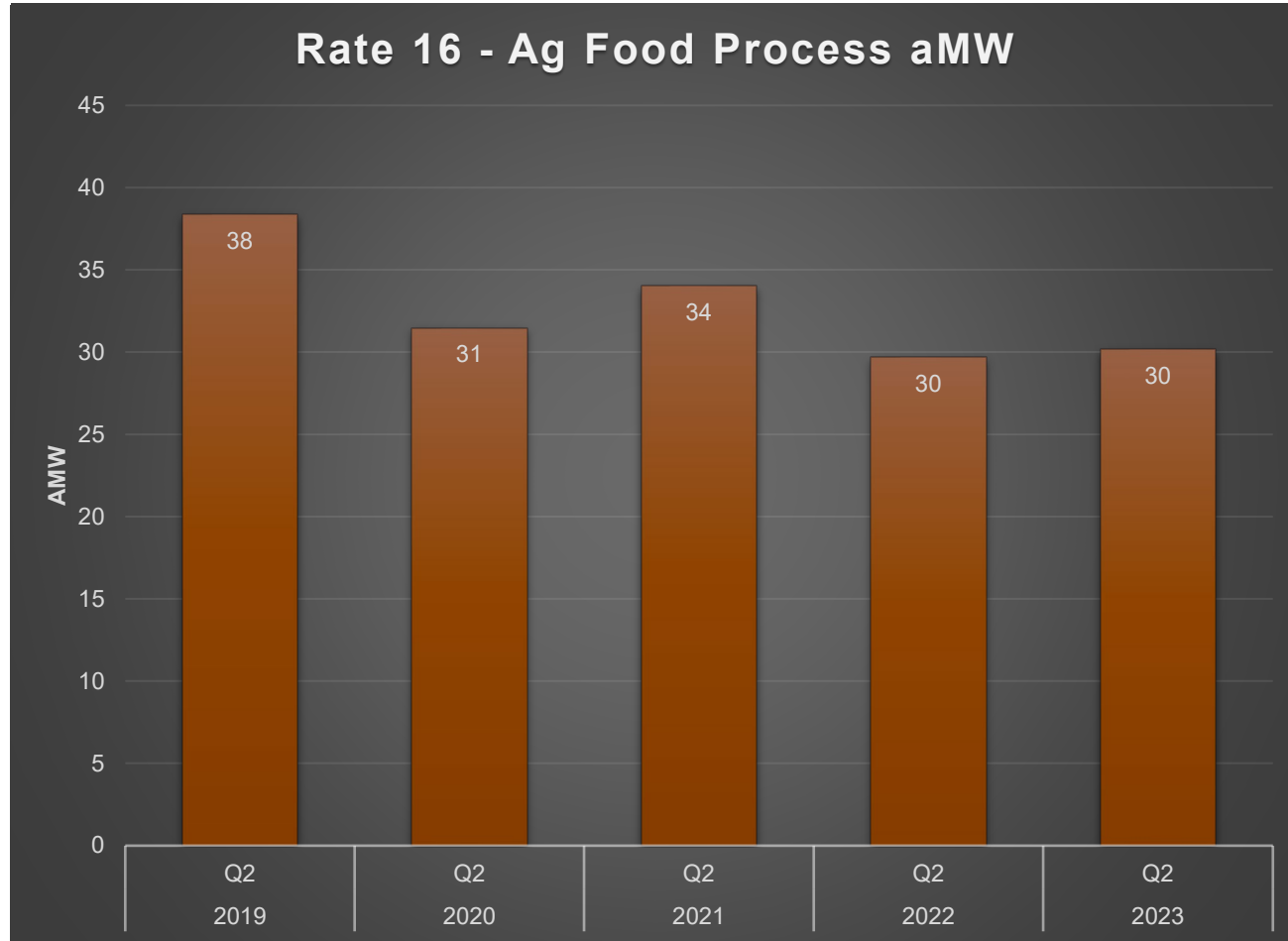
Q2 Rate Schedule 16 Ag Food Processors Differences

Q2 Ag Food Processors (RS 16) actual loads were 30 aMW, 18.8% below budget forecast.

- An agriculture processing customer has decreased a large portion of its load
- Some customers are coming in lower than forecasted



Q2 Rate Schedule 16 Ag Food Processors History



Q2 Rate Schedule 17

Evolving Industry Differences

Q2 Cryptocurrency actual loads were **~33 aMW**

- Bitcoin gained a little compared to its price in Q1 2023.
- We are expecting Crypto loads to grow a little bit more before stabilizing in Grant County.

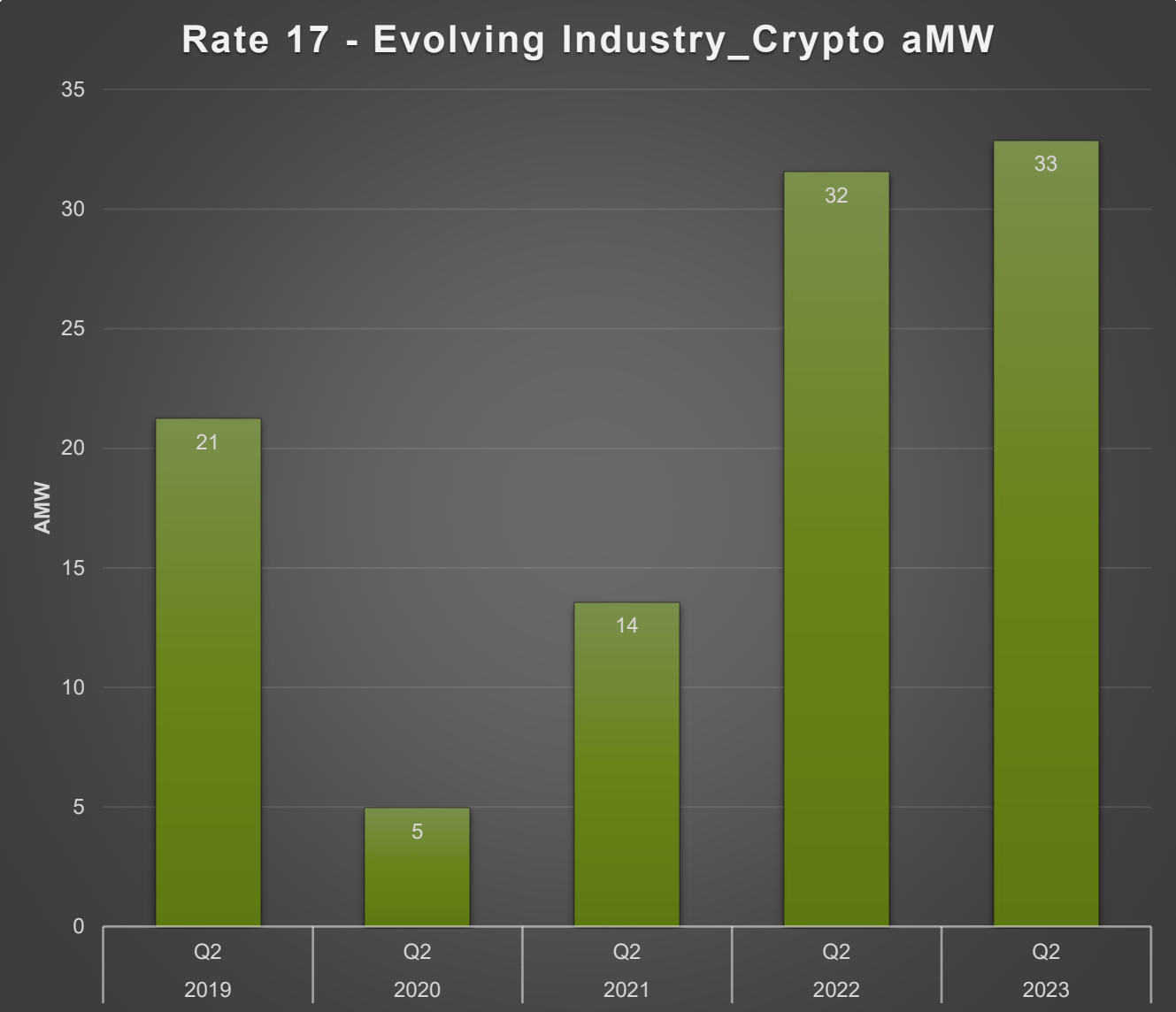


Source: [Bitcoin Difficulty vs. Price in USD Chart \(bitinfocharts.com\)](https://bitinfocharts.com)



Q2 Rate Schedule 17

Evolving Industry History



Q2 2023 Takeaways



Residential and Commercial loads are 7.2% and 2.4% **above** budget, on a weather adjusted basis. Irrigation was 32.5% **below** budget.








Net Rate Schedule 7, 14, 15, 16, 17, 85, & 94 actual loads are **below the budget** forecast by around 37 aMW; with Rate Schedule 14, 15 and 16 having the most variance.











Cryptocurrency moved into the Evolving Industry Rate Schedule starting February 2023.

Thank You



Service	Rate	Icon	Description
Residential Service	1		Single family dwelling, individual apartment or farmhouse for single-phase service.
General Service	2		Accounts with loads not exceeding 500 kW (as measured by Billing Demand) for general service, commercial, multi-residential and miscellaneous outbuilding lighting, heating and power (excepting irrigation service) requirements.
General Service	2F		Single-phase loads not exceeding 500 watts as determined from the equipment's UL listing.
Irrigation Service	3		Customers with irrigation, orchard temperature control or soil drainage loads not exceeding 2,500 horsepower and other miscellaneous power needs including lighting.
Street Lighting Service	6		Street lighting

Service	Rate	Icon	Description
Large General Service	7		Accounts with loads not less than 200 kW or more than 5,000 kW Billing Demand for general service lighting, heating and power requirements. Service will NOT be provided under this rate schedule to process heating or boiler service loads greater than 3,000 kW unless such loads were served on this rate schedule prior to January 1, 2001.
Industrial Service	14		Industrial customers whose Billing Demand is greater than 5 MW/MVA and less than 15 MW/MVA
Large Industrial Service	15		Industrial customers whose Billing Demand is greater than or equal to 15 MW/MVA
AG Food Processing Service	16		Customers whose Billing Demand is greater than 5 MW/MVA and less than 15 MW/MVA at plants where the primary purpose is processing, canning, freezing or the frozen storage of agricultural food crops (including livestock, poultry and fish)

Service	Rate	Icon	Description
Evolving Industry	17		Retail customers whose energy load activity and/or industry meets the requirements of the Evolving Industry definition as detailed in the rate document.
Commercial Fast Charging Electric Vehicle Service	19		Retail accounts served by Grant PUD for facilities dedicated solely for direct current electric vehicle charging. Rate is only available to Level 3 (or above) fast charging stations with monthly loads of no more than 3,000 kW Billing Demand at an individual location.
AG Food Processing Boiler Service	85		Electric boilers which are separately metered and are primarily used for the purpose of processing, canning, or freezing agricultural food crops (including livestock, poultry and fish)
New Large Load	94		All New Large Loads, as defined by the District's Customer Service Policies. Service to such loads will be in accordance with the terms of this rate schedule.

2024 Budget Forecast Commission Presentation

July 25th, 2023

Amanpreet Singh, Rates & Pricing



Powering our way of life.

Forecast Agenda

▪ Retail Sales Forecast

1. Total Retail
2. Residential Service Rate 1
3. General Service Rate 2
4. Irrigation Service Rate 3
5. Street Lighting Service Rate 6
6. Large General Service Rate 7
7. Evolving Industry Rate 17
8. Commercial Fast Charging Electric Vehicle Rate 19
9. Total Industrial
10. Industrial Service Rate 14
11. Large Industrial Service Rate 15
12. Agricultural Food Processing Service Rate 16
13. New Large Load Service Rate 94
14. Q&A

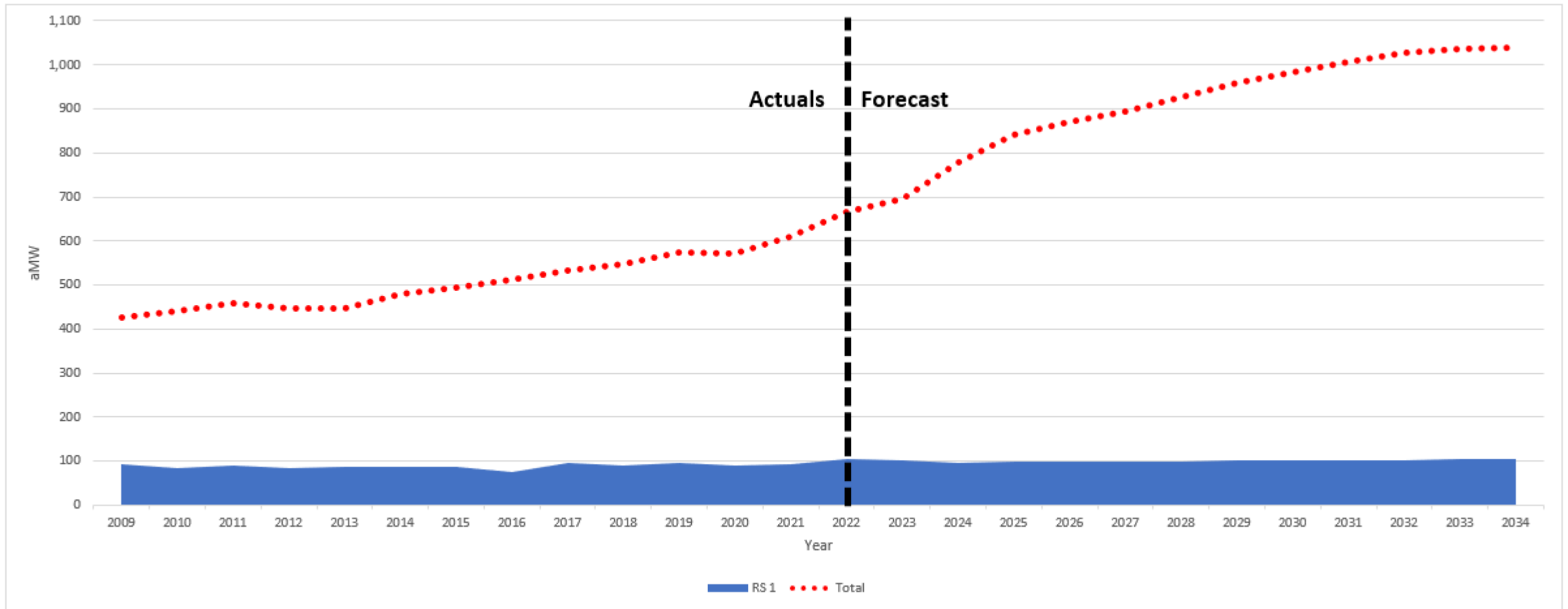
Retail Sales Forecast

Retail Sales by Rate Class and Customer



Rate Schedule 1
Residential

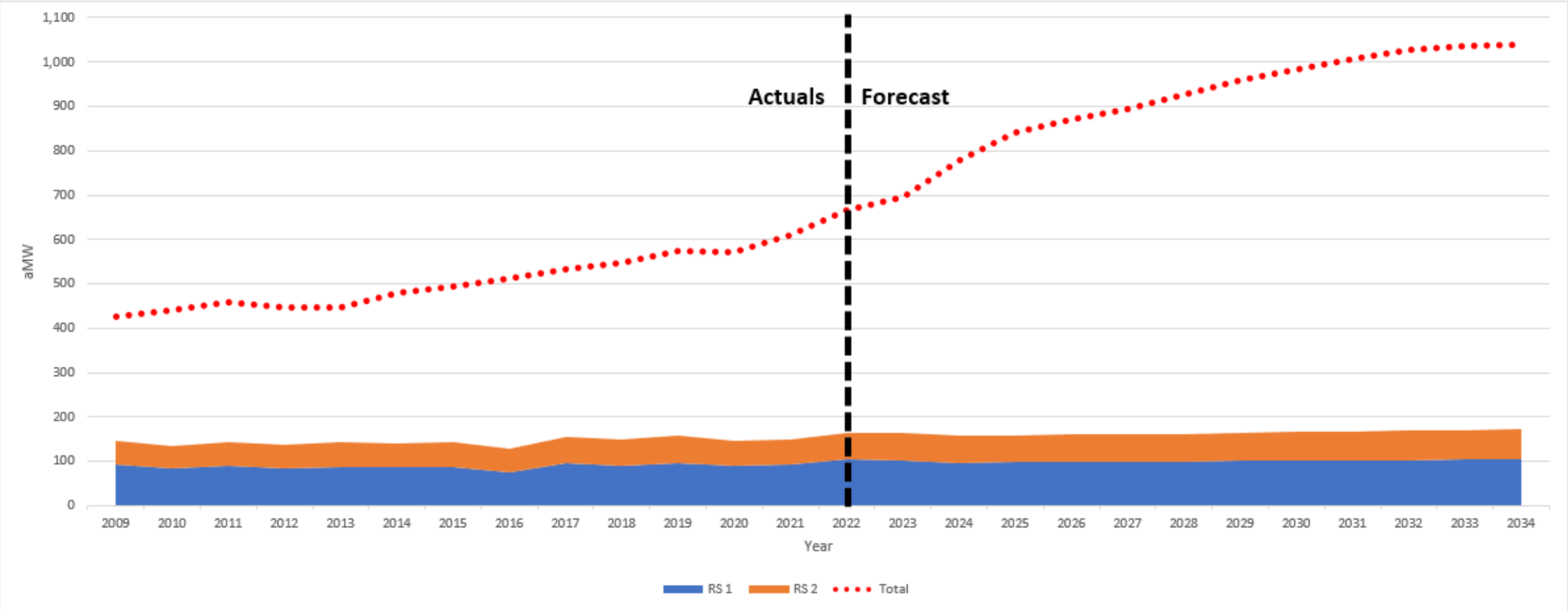
Retail Sales Add Rate Schedule 1





Rate Schedule 2
General Service

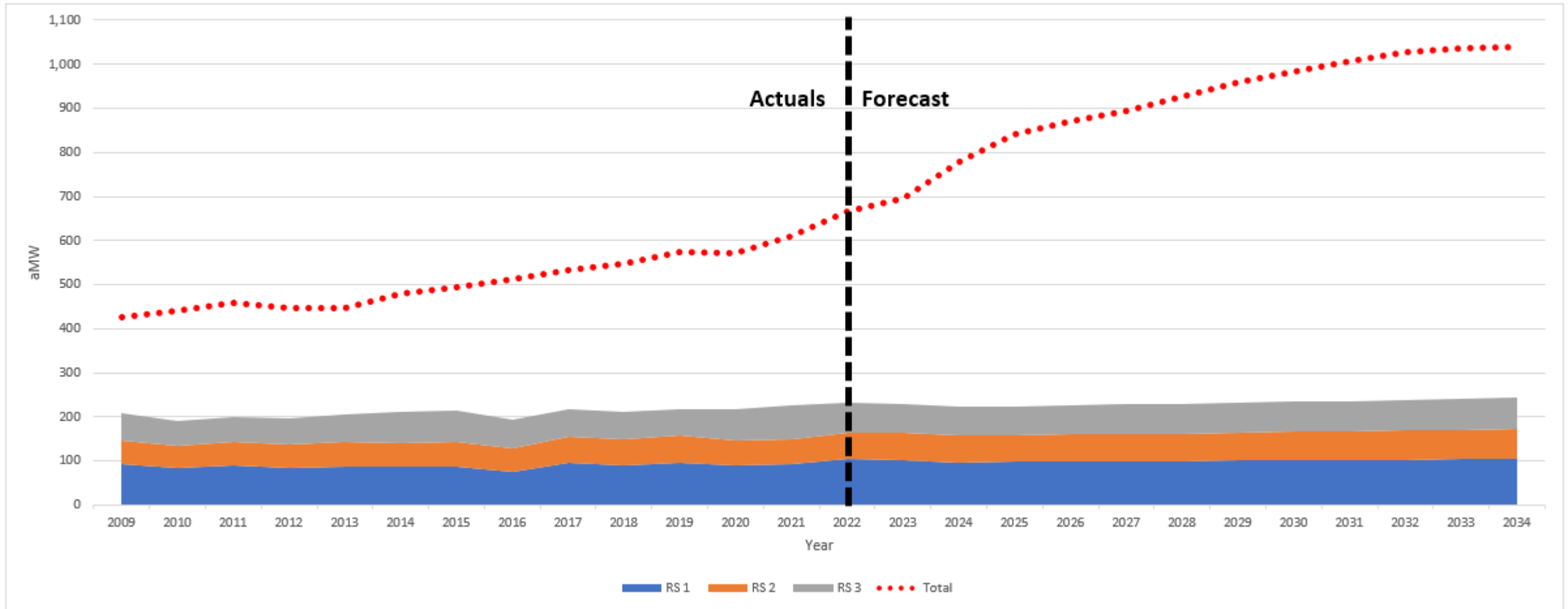
Retail Sales Add Rate Schedule 2





Rate Schedule 3
Irrigation

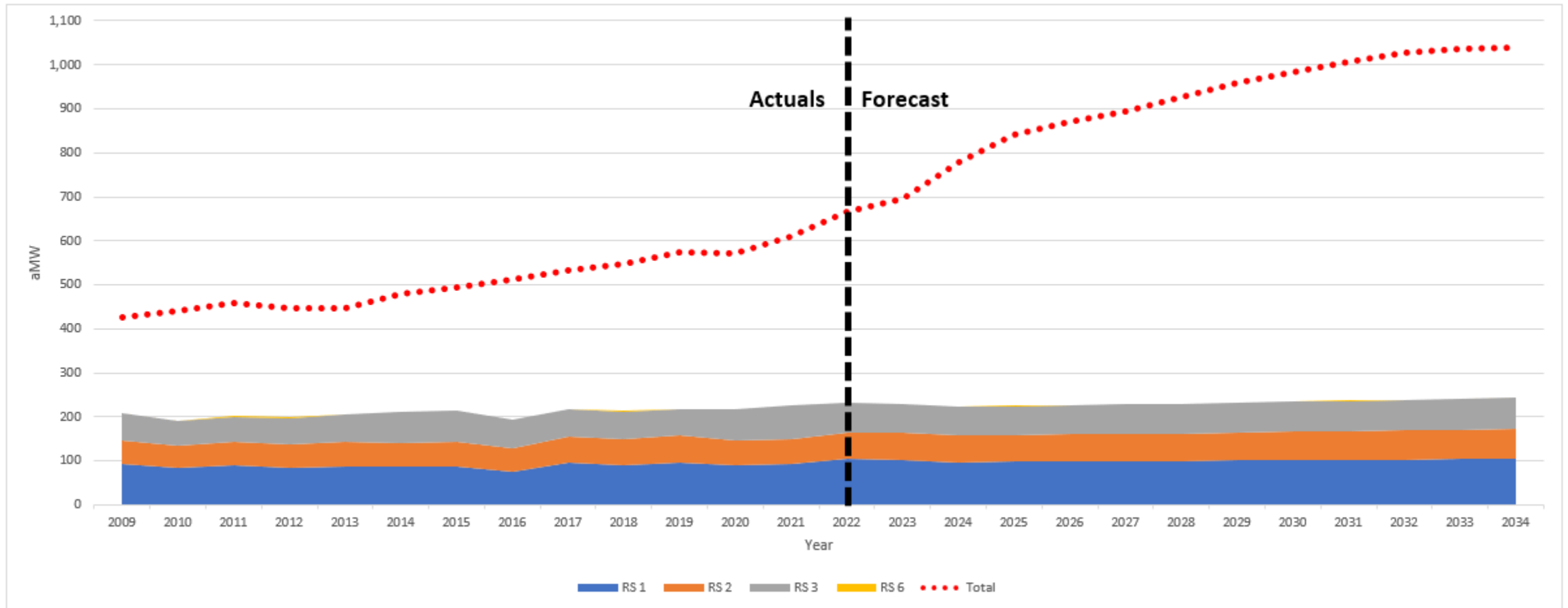
Retail Sales Add Rate Schedule 3





Rate Schedule 6
Street Lights

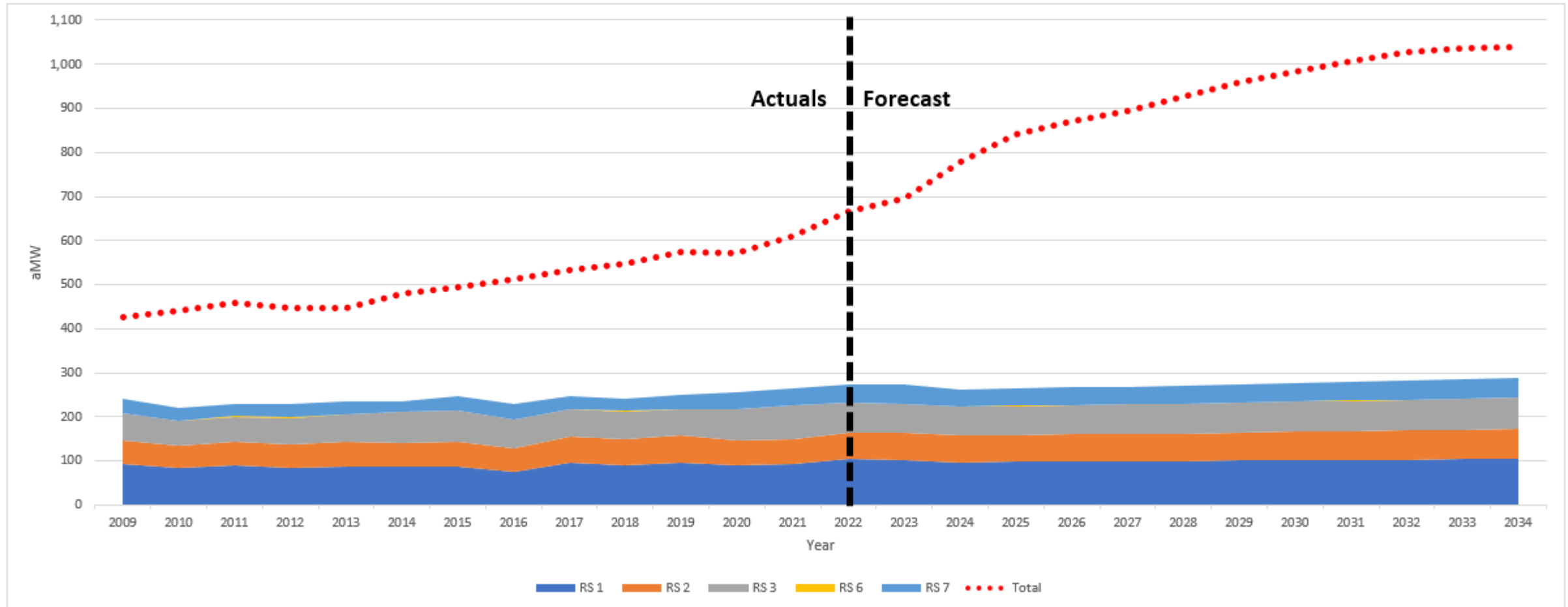
Retail Sales Add Rate Schedule 6



Rate Schedule 7

Large General Service

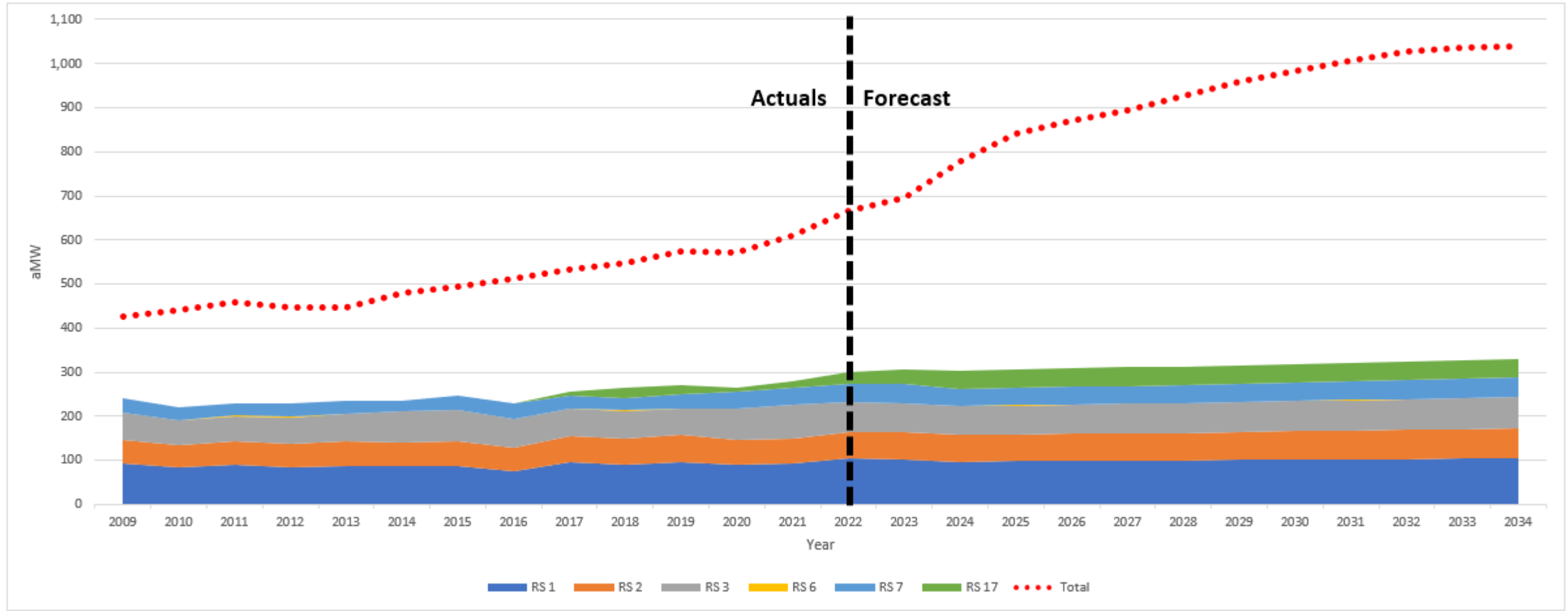
Retail Sales Add Rate Schedule 7



Rate Schedule 17

Evolving Industry

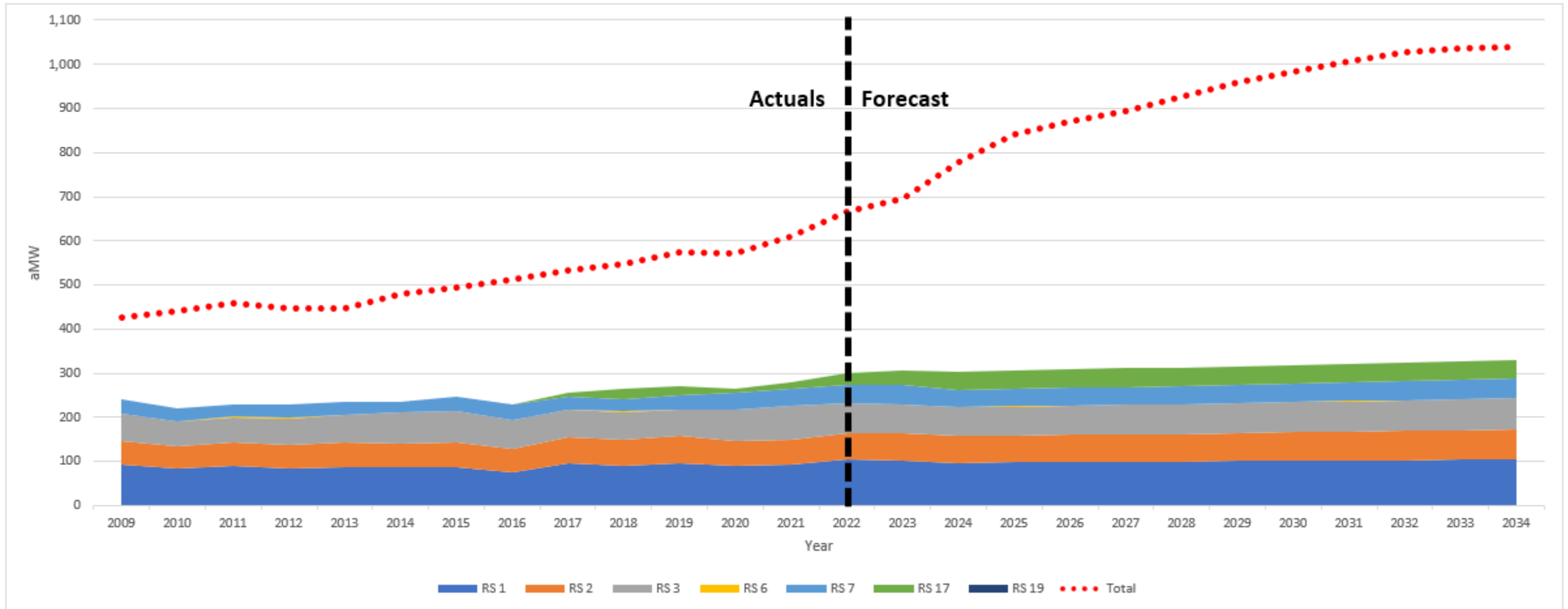
Retail Sales Add Rate Schedule 17



Rate Schedule 19

Commercial Fast Charging Electric Vehicle Service

Retail Sales Add Rate Schedule 19

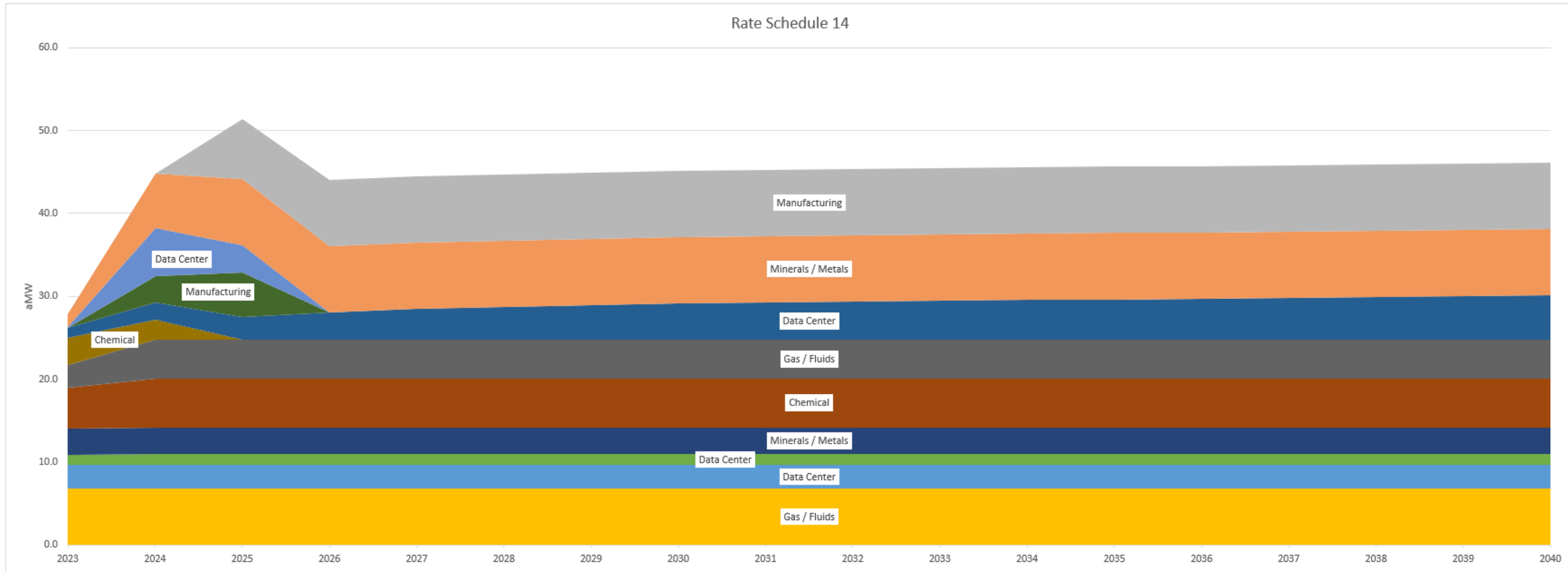


Rate Schedule 14, 15, and 94
Total Industrial

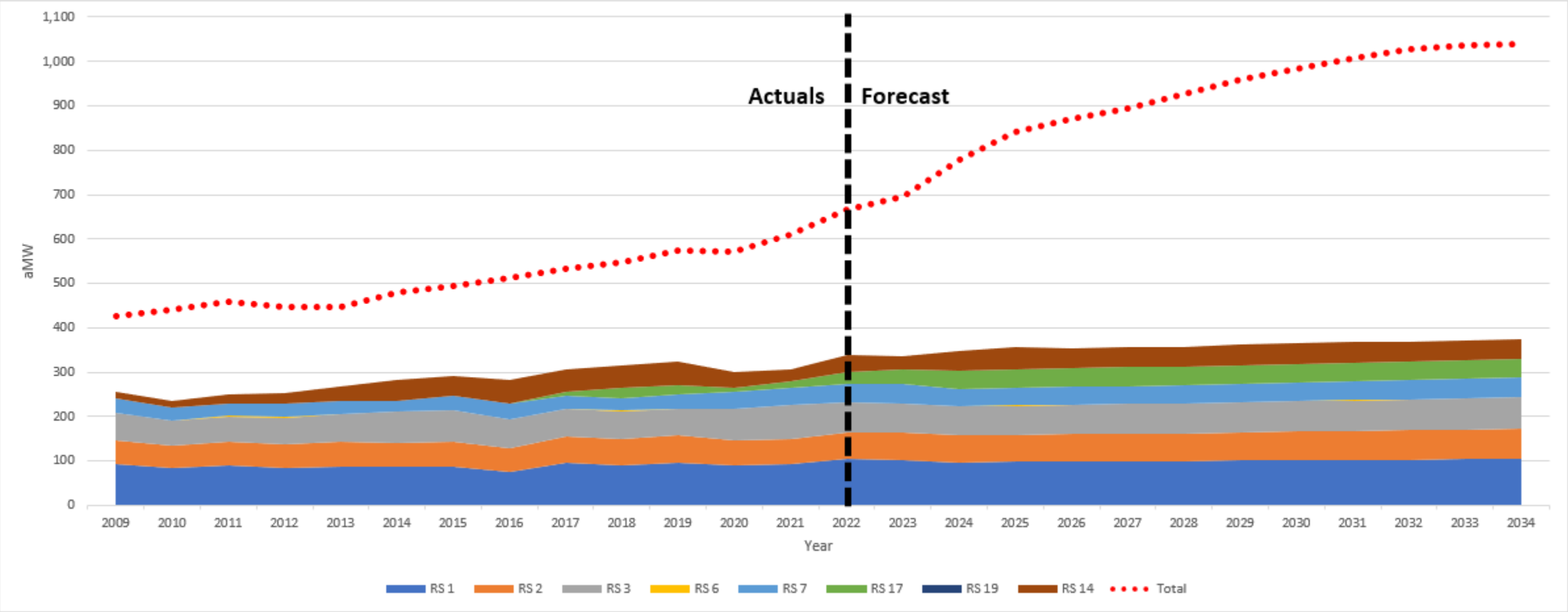


Rate Schedule 14
Industrial

Rate Schedule 14 Customers



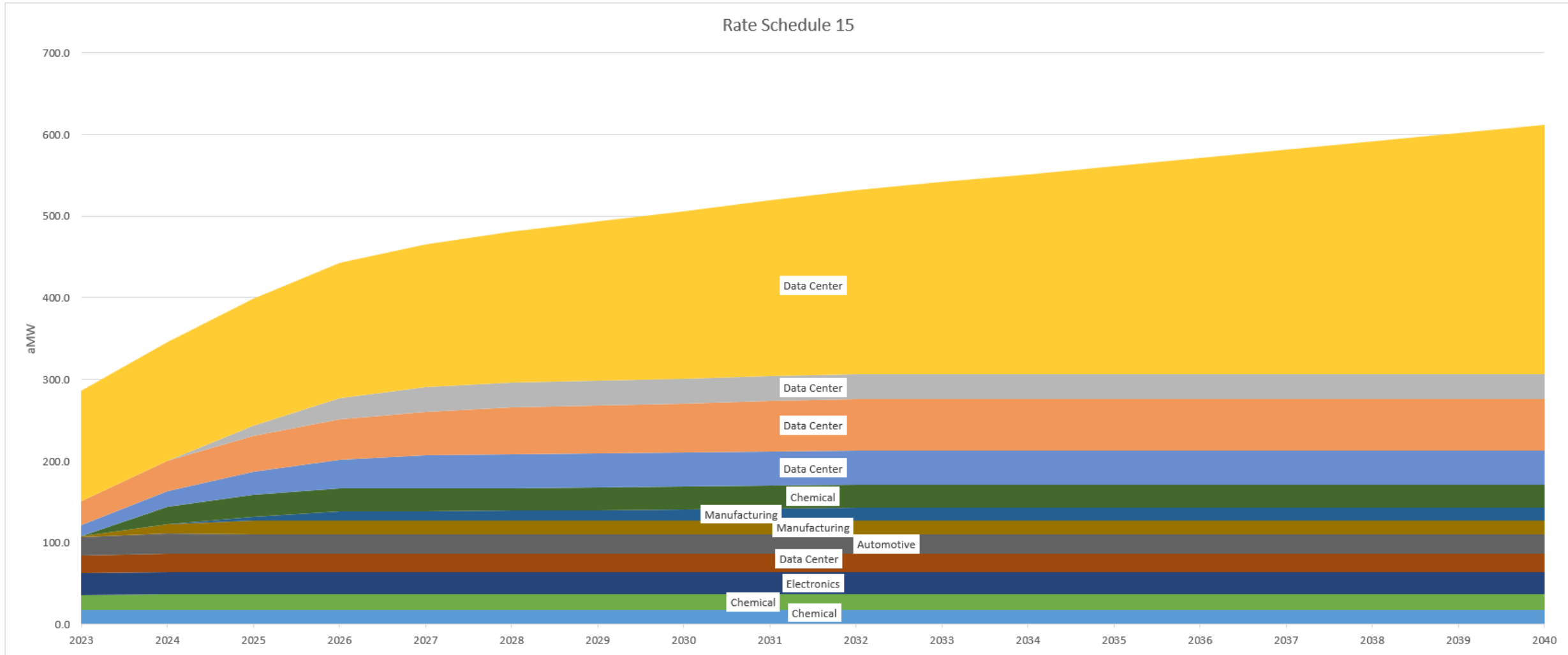
Retail Sales Add Rate Schedule 14



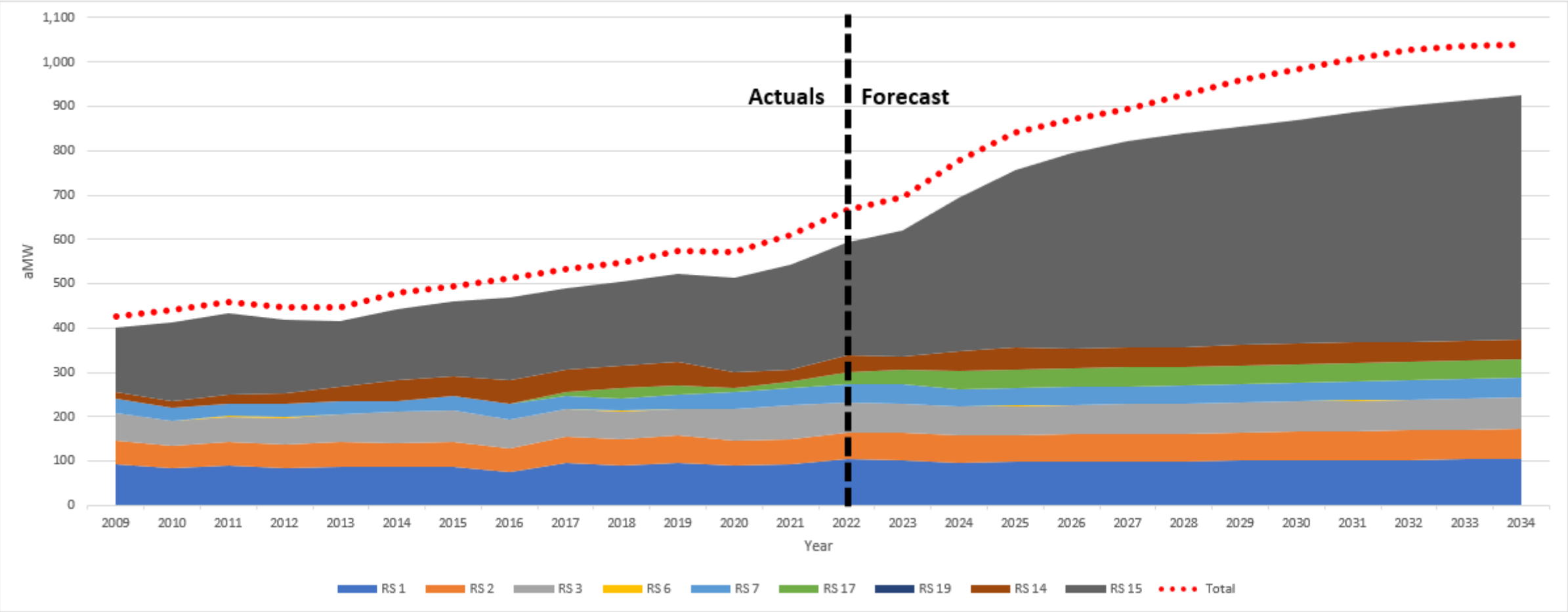


Rate Schedule 15
Large Industrial

Rate Schedule 15 Customers



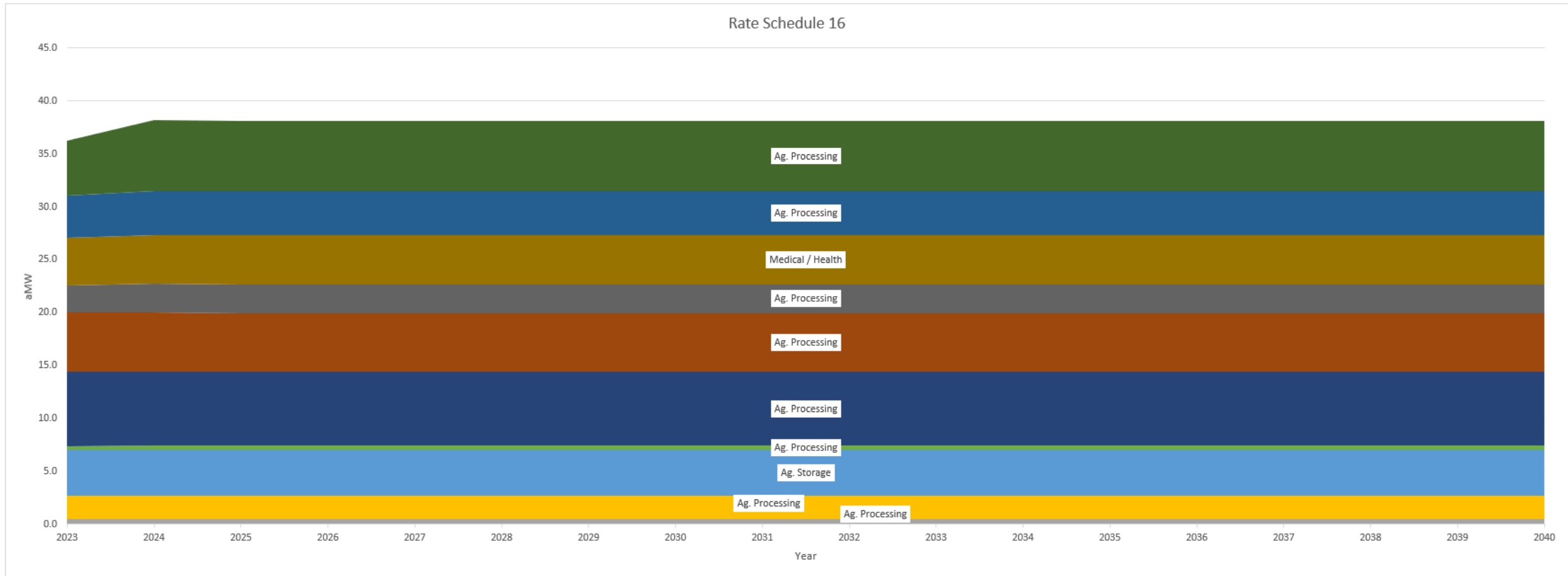
Retail Sales Add Rate Schedule 15



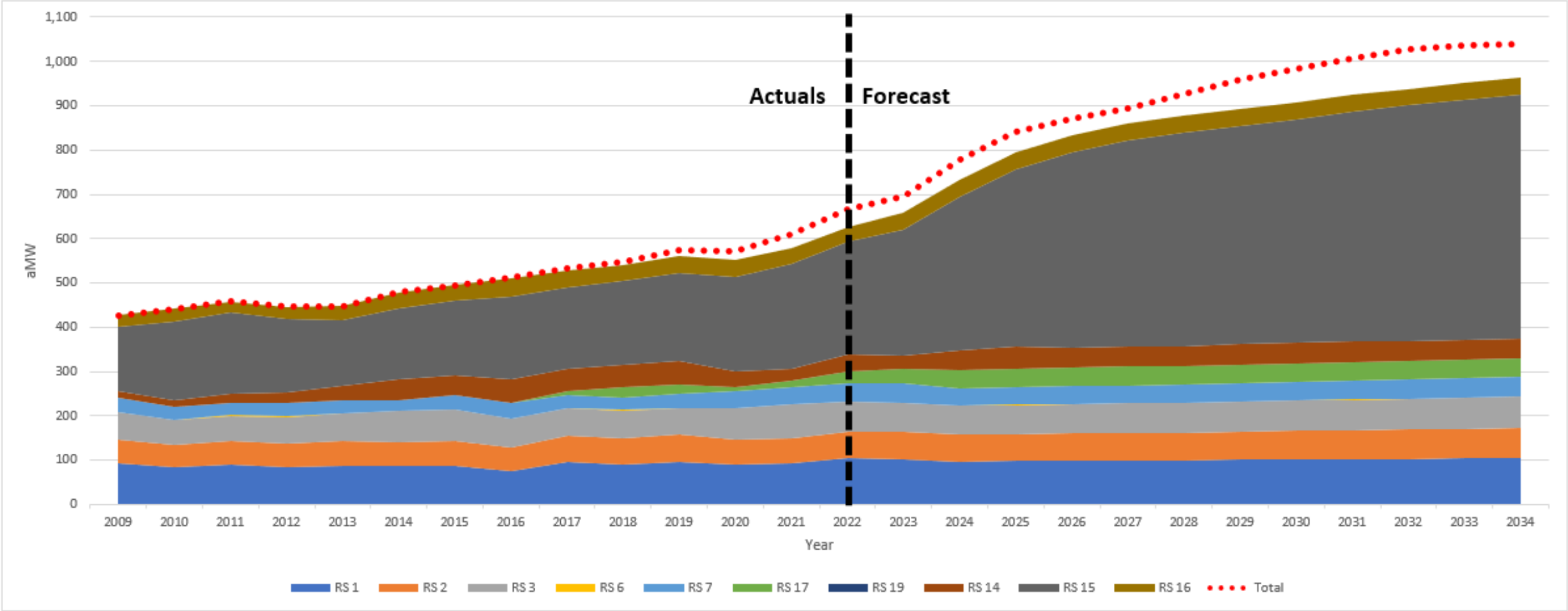
Rate Schedule 16

Agricultural Food Processing

Rate Schedule 16 Customers

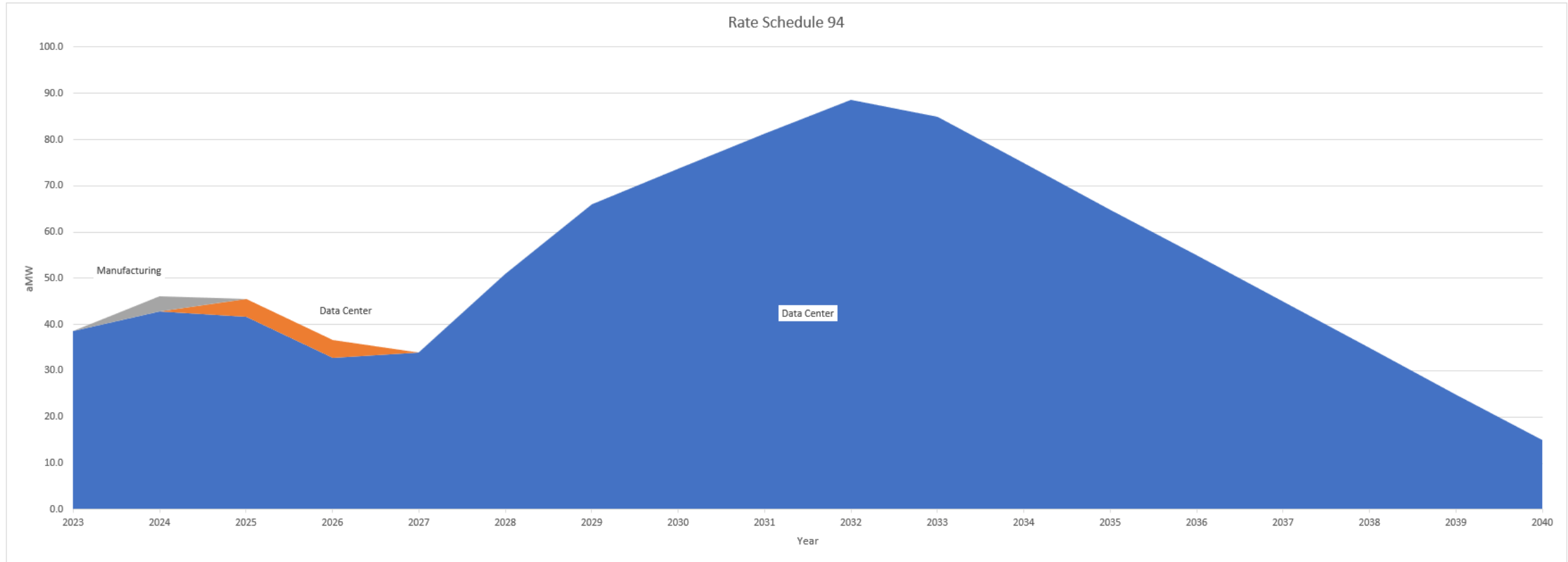


Retail Sales Add Rate Schedule 16

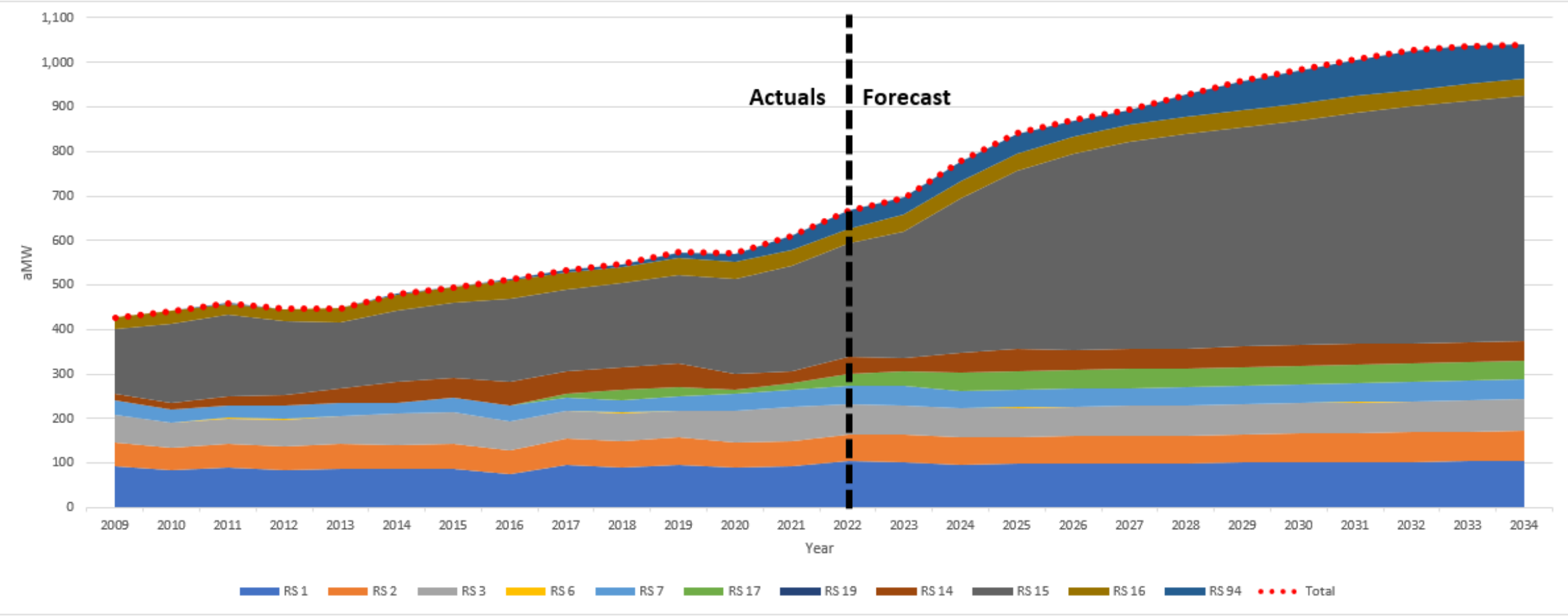


Rate Schedule 94
New Large Load

Rate Schedule 94 Customers



Retail Sales Add Rate Schedule 94







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Internal Audit Report

Semi-Annual Report

Dmitriy Turchik, Manager of Internal Audit



Powering our way of life.

Meeting Agenda

- Status of the 2022 Audit Plan
- Audit Plan Development
- Review 2023 Audit Plan
- Additional Discussion and Questions

2022 Audit Plan - Status

- Tuition Reimbursement Program Audit
 - Report Issued
- Cash receipting and deposit
 - Reviewed work performed by CAP
- Management of Vendor Profiles
 - Following up on prior investigation recommendations
- Vendor Payments
 - Field work
- Timesheet record keeping
 - Field work
- Hiring Practices
- Customer Billing – emerging risk
- Inventory

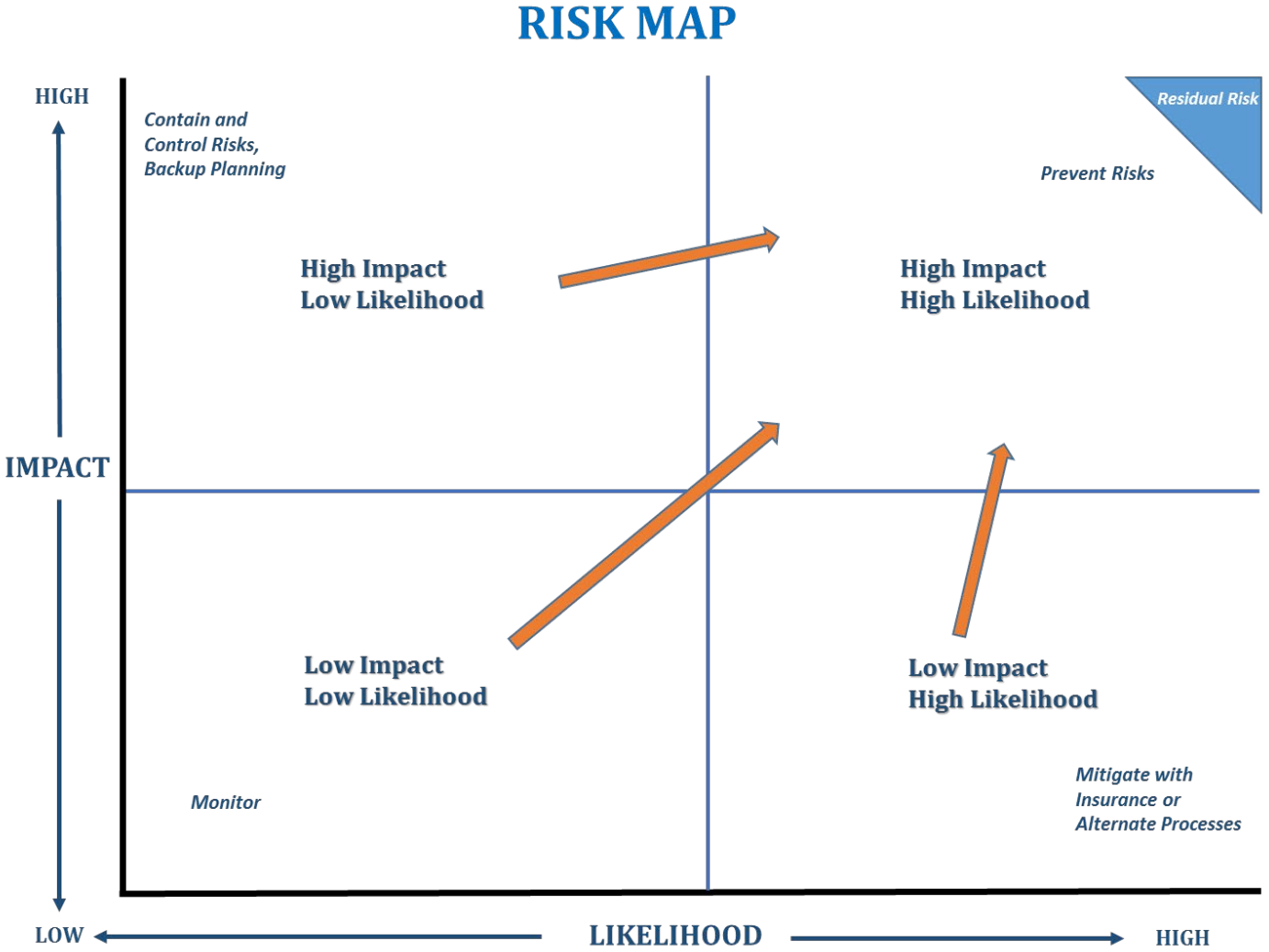
2022 Audit Plan Status – continued

- Other reports issued
 - Recognition Leave
 - Meal Expenses
- Statutory Expenditure Review & Other Requests
 - Weekly voucher review
 - Bi-weekly payroll review
 - Policy review
- Emerging Risk and Audit Requests
- Consultation/Advisory Requests
 - Policy review
 - Incident response and investigation

Internal Audit Objectives

- Internal Audit department operates under:
 - Internal Audit Charter
 - Red Book Standards – International Professional Practices Framework
 - SAO BARS Manual and RCWs
- Ensure that Internal Audit Activities are
 - Consistent with organizational goals
 - Within the risk appetite and risk tolerance set by the Commission and District Management
- Evaluation of internal controls for adequacy, effectiveness, and efficiencies
- Risk Based Audit Approach
 - Annual audit plan development
 - Risk assessments (CXO's, Legal, ERM, and Sr. Mgmt)
 - Analytical Procedures
 - Review work performed by others
 - Performance of scheduled and requested audits

2022 Audit Plan



2023 Audit Plan

- Human Resource Policy Compliance
- Customer Billing and Adjustments
- Payroll Processing
- System Access – Roles and Responsibilities
- Inventory
- Small and Attractive Assets
- Purchase Cards (P-Card)
- Overtime

2023 Audit Plan – continued

- Statutory Expenditure Review & Other Requests
 - Weekly voucher review
 - Bi-weekly payroll review
 - Policy review
- Emerging Risk and Audit Requests
- Follow-up: Monitor Audit Recommendations

Moving Forward

- Co-sourcing Audit Engagements
 - Relying on the work of others
- Internal Audit Program Development
 - Audit Charter Updates – new standards will be applicable beginning of 2024
 - Improve audit department framework
- Washington State Auditor's Office
 - 2021 and 2022 compliance audit will be conducted in the fall of 2023
- Deferred Compensation Plan Audit

Thank You



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