



**Docket No. UM 2033**

**Portland General Electric's  
Draft 2026-2028  
Transportation Electrification Plan**

**August 12, 2025**



# Who's Who

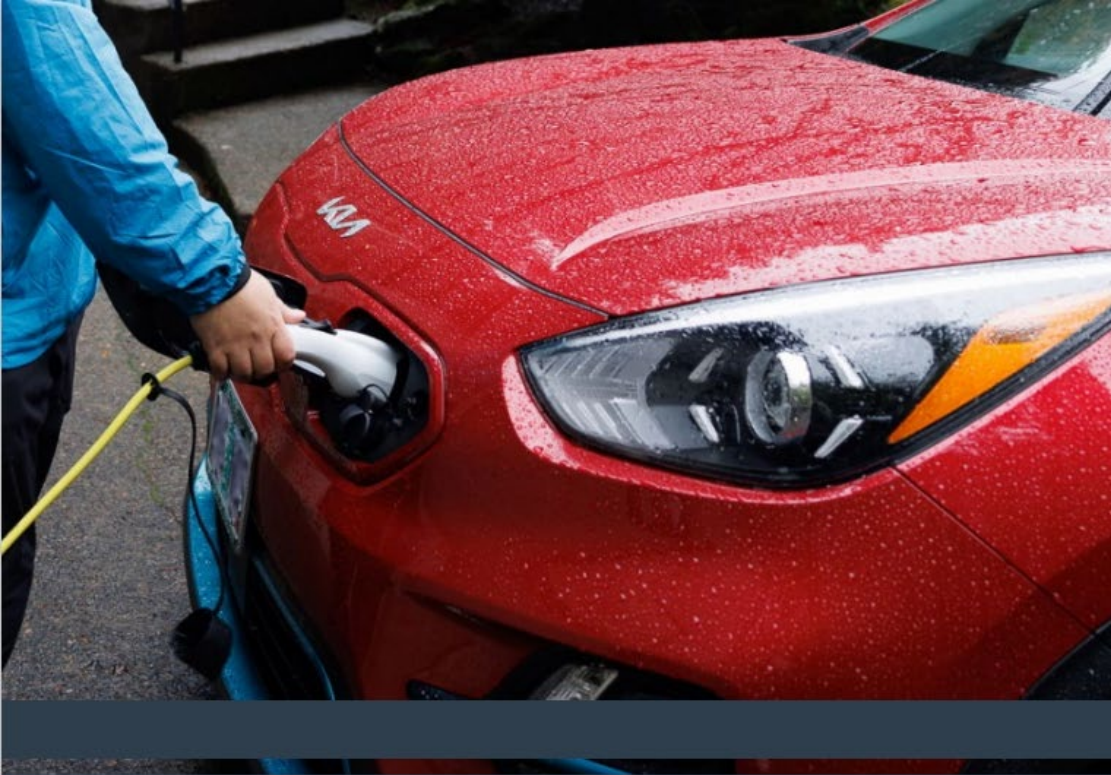
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- Please type name and affiliation into the chat.
- Eric Shierman, PUC

# Docket Schedule

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- **September 17, 2025: Comments**
- **October 17: PGE Reply Comments and Final TE Plan**
- **December 9, 2025: Public Meeting**



# Transportation Electrification (TE) Plan Overview

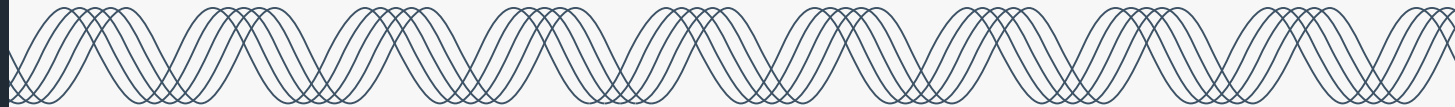
Transportation Electrification Workshop | August 12, 2025

## Speakers:

- Elyssia Lawrence, Sr. Manager Transportation Electrification
- Kelly Yearick, Clean Fuels Portfolio Specialist Transportation Electrification
- Stefanie Reiter, Manager Product Development Transportation Electrification
- Shae Davies, PGE Fleet Manager

2026 to 2028

Transportation Electrification Plan



# Meeting Logistics



Audio



Microphone



Chat box



Video



Raise Hand



Closed Caption

# Operating Agreements



Establishing norms with our communities is foundational to building trust

To create a **safe space**, we established **common agreements** such as **respect, honoring diversity of thought**, and **inclusivity**

**Practice curiosity** and **seek to understand different perspectives**

**Stay  
Engaged**

**Be Willing To  
Experience  
Discomfort**

**Speak Your  
Truth  
Respectfully**

**Expect and  
Accept Non-  
closure**

**Share the  
Airtime**



[The courageous conversations framework](#)  
by Glenn Singleton and Curtis Linton

# Agenda

TE Plan Strategy & Customer Affordability

Underserved Community Engagement & Benefits

Current Portfolio Performance & Key Lessons Learned

2026-2028 Customer Portfolio Roadmap, Metrics and Budget

PGE Fleet Electrification

Q&A

A photograph of an electric vehicle charging station with several cars plugged in, set against a dark blue background.

# TE STRATEGY & VISION

Elyssia Lawrence

Senior Manager, Transportation Electrification and Storage Solutions

# TE Plan: 2026–2028 Drivers and Focus



- **Legislative & regulatory framework**

Oregon TE statutes, SB 1547, HB 2165, Clean Fuels Program

- **Market trends & forecasts**

EV adoption rates, charging infrastructure gaps, fleet transition trends & outlook

- **Insights from 2023–2025 TE Plan**

Key lessons learned to inform next-phase strategies

- **Underserved community expansion**

Expand charging access in underserved communities using legislated funding

- **Strategic alignment**

Integration with PGE's TE strategy and defined utility role

- **Customer focus**

Emphasis on customer affordability, market alignment, streamlined customer experience, & transparent leadership in utility fleet electrification




# Transportation Electrification Strategy & Vision




**Vision:** PGE envisions a clean energy future where all customers equitably access charging for their electric transportation, enabled by well-planned rates, grid investments and charging management


**Utility Infrastructure Role**  
Provide the necessary service infrastructure to safely and reliably deliver transportation electrification

**PLAN**

 **Coordination and Partnership**  
Leverage available funding and external partnerships to achieve resilient, clean energy charging options


 **Planning**  
Update forecasting capability to provide more granular insight into load, location, and impact by feeder and customer type


**SERVE**

 **Coordinate Load Siting**  
Work with customers to plan, coordinate, and site larger loads (e.g., medium-to-heavy duty and fleets) at feeders and substations with headroom

 **Meet the Needs of Underserved Communities**  
Deploy dedicated funding to support adoption and equitable access in underserved communities

**MANAGE**

 **Structure TE Rates/Tariff**  
Evaluate effectiveness of current time variable rates that incent charging behavior supportive of grid health

 **Manage TE Load**  
Assure smart and managed charging. Furthers PGE's flex load investment, operationalizes within Virtual Power Plan (VPP)

# Proposed Transportation Electrification Strategy



## Plan

### Grid planning and resiliency

- Portfolio support for data modeling
- Strategic Grid Investments

### Make-ready programs

- Fleet Charging
- Heavy Duty Charging
- Multifamily (rebates for make-ready and chargers)
- Business-Workplace/Public (rebates for make-ready plus partial rebate for chargers)



## Serve

Make-ready programs leading to line extension and rate/tariff design

Public charging rates alignment with market and energy costs

Portfolio Support enabling reporting and analysis of EV charging growth and impacts

Clean Fuels: Equitable Electrification and Community Grants



## Manage

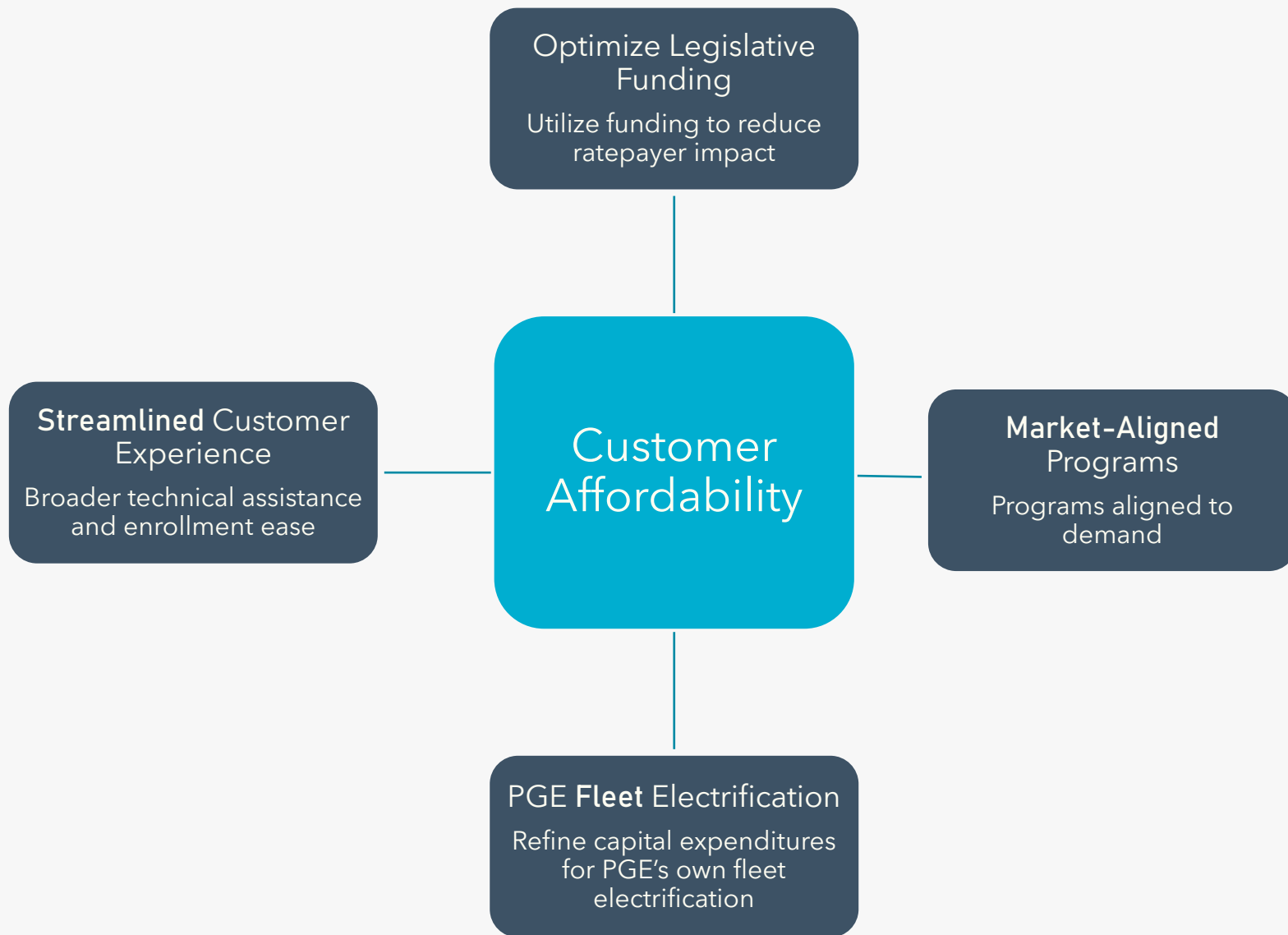
Commercial Managed Charging Demonstrations

Residential Smart Charging Pilot and potential rate design

Charging Resiliency Hubs

Vehicle to Grid demonstrations

# Customer Affordability | Focus of TE plan



# Underserved Community Engagement Strategy



Continue to build long-term relationships with these communities and those who serve them



Leverage feedback to ensure current programs are accessible and relevant



Continue to engage, which allows PGE to better understand and meet the needs of these communities

Engagement includes community-based organizations, industry experts, government agencies, and customers

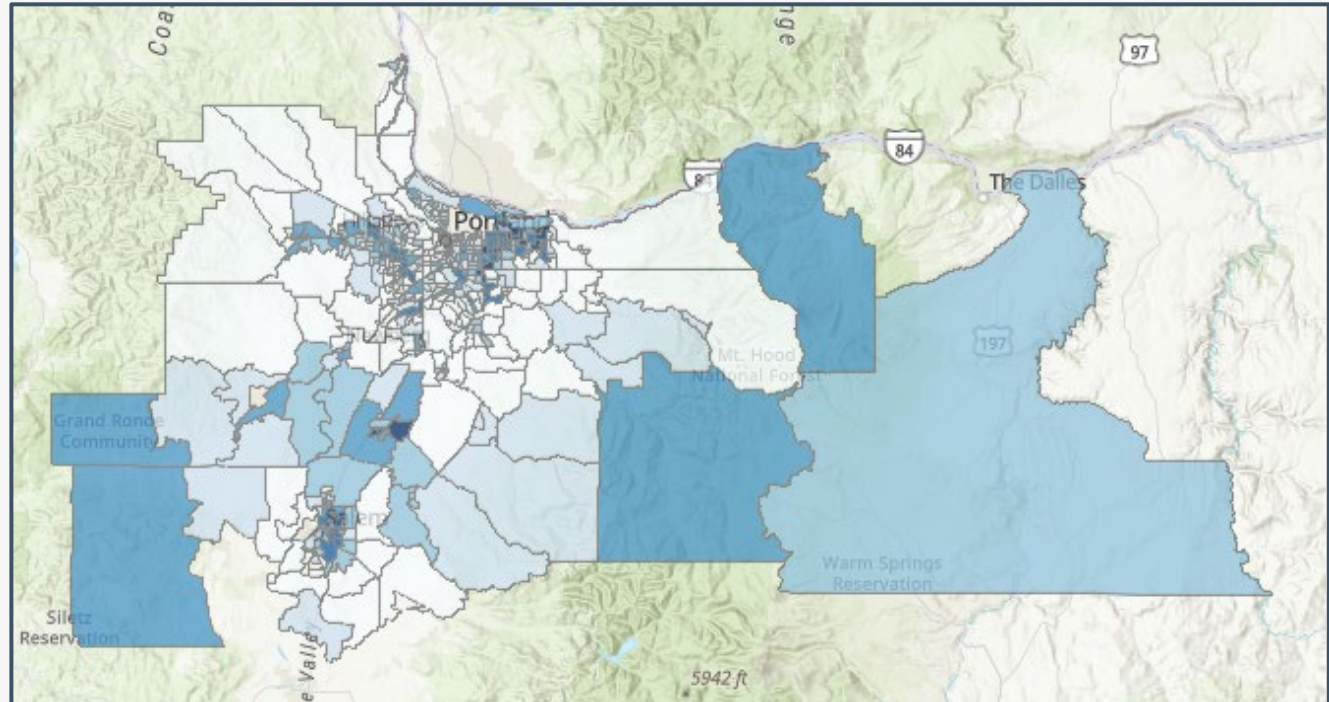
Looking ahead, engagement with communities will be led by PGE's Community Engagement team to ensure feedback is considered and, when feasible, incorporated across all PGE programs and initiatives.

# Underserved Communities

HB 2165\* directs half the Monthly Meter Charge to support transportation electrification in the following underserved communities:

- Residents of rental or multifamily housing
- Communities of color
- Communities experiencing lower incomes
- Tribal, rural, frontier, and coastal communities
- Other communities harmed by environmental and health hazards

\*<https://olis.oregonlegislature.gov/liz/2021R1/Downloads/MeasureDocument/HB2165/Enrolled>



\*Darker areas indicate higher concentration of underserved communities

PGE programs prioritize underserved communities:

- **86% of funding benefits underserved communities**
- Charger rebates directed mainly in communities with a low density of public charging stations
- Increased incentives for income-qualified and/or multifamily customers

A photograph of an electric vehicle charging station with several cars plugged in, set against a dark blue background.

# CUSTOMER PROGRAM PERFORMANCE & ROADMAP

Stefanie Reiter

Manager Product Development, Transportation Electrification

Kelly Yearick

Clean Fuels Portfolio Specialist, Transportation Electrification

# TE Portfolio Performance



## Market Demand Highlights

- **Off-Peak Charging Performance**  
By end of 2024, EV charging indicates a strong adoption of off-peak charging, exceeding expectations. Workplace and Residential use cases led with over 90% off-peak, and even fleets showed strong off-peak behavior between 76-81%.
- **Lessons Learned**  
Incorporated multiple lessons learned into 2026-2028 portfolio, including support measures such as panel rebates for residential installations, sunseting less effective programs like EV Affordable Housing Grants and Municipal Curbside charging, and increasing budget/ports for more successful programs like Business EV Rebates.
- **Program Alignment**  
Refined programs to match market demand, enhance the customer experience, and expand charging access in underserved communities. PGE learned that there is a need for flexible program delivery models, and the programs need to be tailored to customer segments and site types.

Use Case	2024 Actuals	
	On-Peak MWh %	Off-Peak MWh %
Residential	9%	91%
Multifamily	21%	79%
Workplace	8%	92%
Corridor Public	16%	84%
Non-Corridor Public	17%	83%
LDV Fleet	24%	76%
MHD Fleet	19%	81%

\*For the purposes of 2023-2025 TE Portfolio financial analyses, PGE defines on-peak hours as 5 PM-9 PM, Monday through Friday, year-round except for federal holidays.

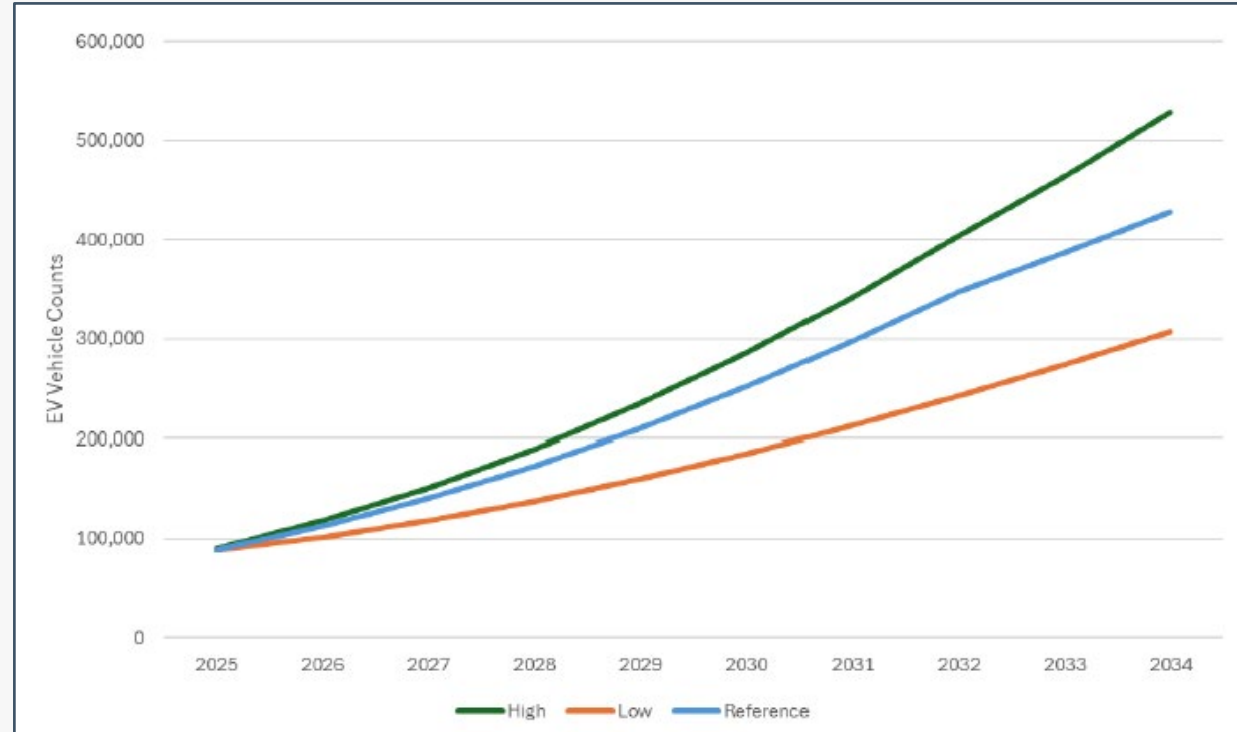
# Market Demand Forecast: EV Adoption



## EV & Public Charging Growth

EV adoption and public charger deployment in PGE territory continued to rise, with approximately 67,000 EVs and PHEVs on the road by the end of 2024. By 2028, projections range from 137,000 to 173,000, depending on market and economic conditions.

The **low adoption scenario** reflects the phase-out of federal EV tax credits starting in 2026. PGE is currently realigning forecasts with updated policy assumptions and a forecast will be revised in Q3-Q4 2025.



- *SB 1044 and Advanced Clean Cars II* set a target of **250,000 registered zero-emission vehicles (ZEVs)** in Oregon by 2025.
- Oregon surpassed **100,000 registered ZEVs** in November 2024, **indicating slower-than-needed growth** to meet the 2025 goal.

# TE Customer Affordability with Measurable Impact

## Performance Metrics to Measure Success through 2028



**PGE is committed to affordable, equitable, and impactful Transportation Electrification**

We measure our success through clear performance metrics and maintain focus on serving underserved communities and managing costs responsibly.



**EV Adoption**  
137k+ EV's on  
the road



**Environmental Benefits**  
Reduction of 673k metric  
tons of CO2e emissions



**Underserved  
Engagement**  
86% of ports  
forecasted (2026-28)



**Equity of Program  
Offerings**  
\$84M investment in  
underserved (2026-28)



**Grid Benefits**  
Planning  
improvements &  
off-peak  
measurements



**Infrastructure  
Performance**  
98%+ uptime  
goals for charging  
station reliability

# Market Demand Alignment

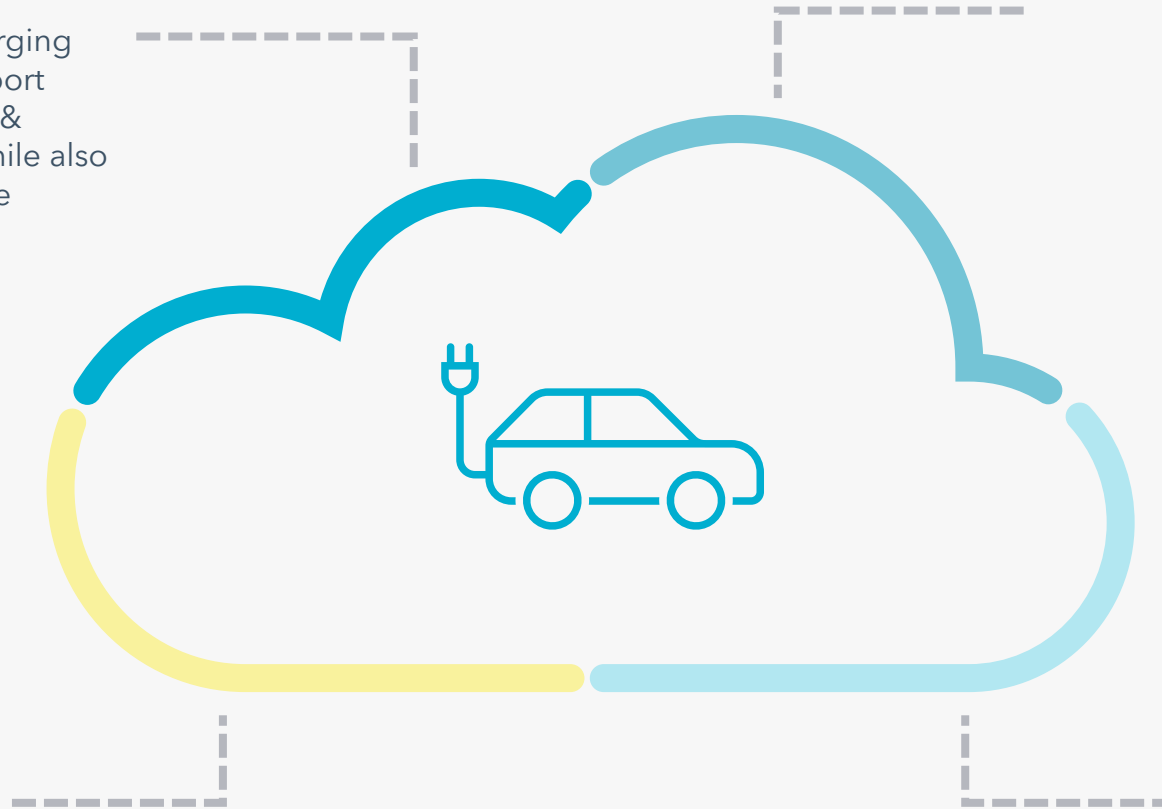


## Residential Programs

Advance home charging incentives that support managed charging & equitable access while also assessing future rate structures

## Commercial Programs

Fleet advisory services, workplace charging, multifamily charging, & depot solutions designed to meet changing market demands



## Grid Integration Programs

Advance grid integration through technology readiness for managed charging & Vehicle to Grid pilots

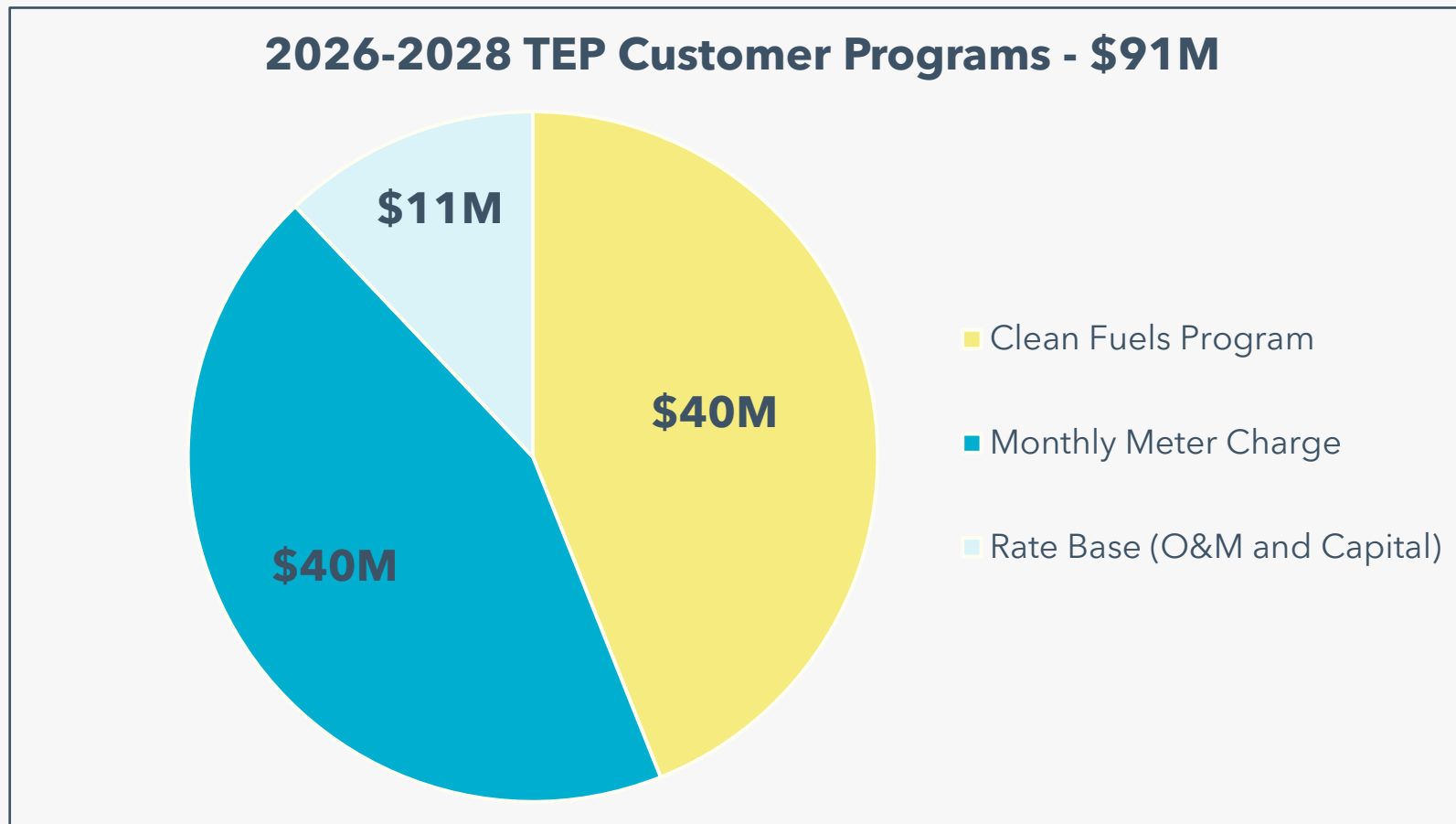
## Continuous Improvement

Ongoing adjustments based on customer feedback, program uptake & stakeholder input to ensure plans remain responsive to market demand & meet customer needs.

# Transportation Electrification | Funding & Outcomes



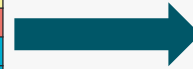
Our investments **utilize existing funding where possible** to minimize ratepayer investment  
88% of customer program budgets are legislated funding



# What we've Learned: Evolving Customer Programs 2023-2028



	2023-2025
<b>Commercial</b>	Fleet Partner Pilot Heavy Duty Charging Pilot Business & Multi-Family Make Ready Solutions
<b>Clean Fuels</b>	Clean Fuels Program
<b>Residential</b>	Residential Smart Charging
<b>Residential &amp; Commercial</b>	Business EV Charging Rebates Public Charging: Electric Avenue Public Charging: Municipal Pole Charging
<b>Portfolio</b>	Portfolio Support
<b>Sunset</b>	EV Ready Affordable Housing Grants Municipal Curbside Charging



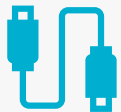
	2026-2028
<b>Commercial</b>	Commercial Managed Charging Demonstrations Fleet Partner Pilot Heavy Duty Charging Pilot Business & Multi-Family Make Ready Solutions
<b>Clean Fuels</b>	Clean Fuels Program
<b>Residential</b>	Residential Smart Charging
<b>Residential &amp; Commercial</b>	Business EV Charging Rebates Charging Resiliency Hub Public Charging: Electric Avenue Public Charging: Municipal Pole Charging Strategic Grid Investments
<b>Portfolio</b>	Portfolio Support
<b>Sunset</b>	Business & Multi-Family Make Ready Solutions



Fleet forecast adjustments due to freight recession



Residential Smart Charging enhancements continuing panel upgrades and refining charging windows



Public Charging strategy will not add new assets, but will maintain chargers & investigate Sch. 50 for optimization



Business & Multifamily program transitioning to increased rebates on chargers and make-ready due to challenges such as the 8-port minimum & customers unable to bear costs



Commercial Managed Charging Demos to prove most effective strategies & technology across multiple use cases.



Business EV Rebates success with 86% of ports in underserved communities, will expand to include DCFC & Installation rebates.

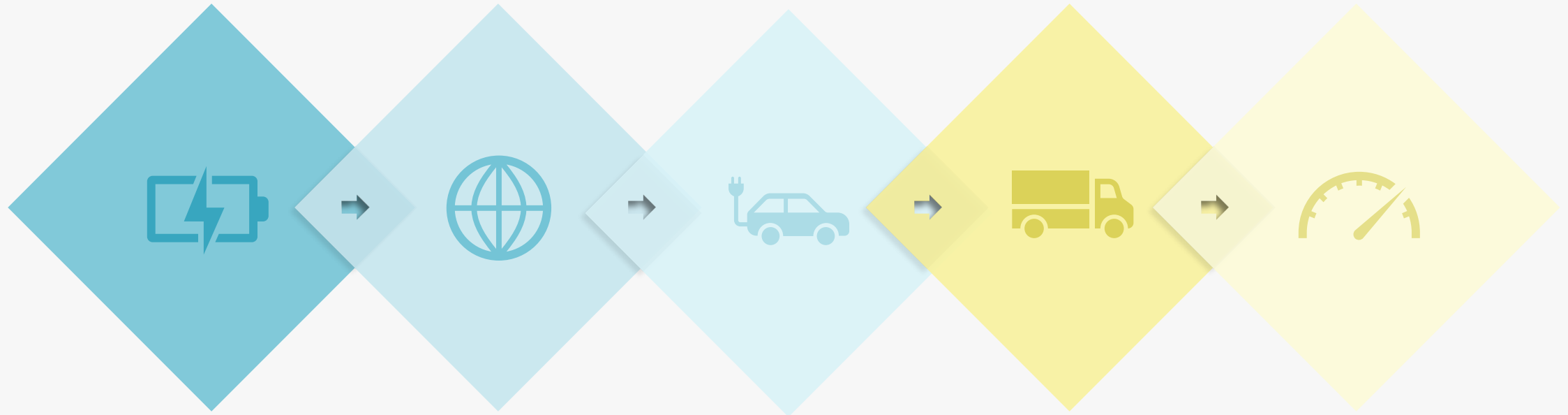


Charging Resiliency Hubs will investigate viability of solar + battery + charging near high fire risk areas.



Strategic Grid Investments is a demo that will use new data to determine grid upgrades needed in strategic areas

# TE Customer Programs Continuing



## PUBLIC CHARGING

Maintain 98% uptime, optimize public charging rate and explore alternative ownership

## PORTFOLIO SUPPORT

Overall support of data, reporting, portfolio development and general EV support

## MUNI POLE CHARGING

Maintain 180 pole chargers for full lifecycle

## HEAVY-DUTY CHARGING DEMO

Finish testing and integration of solar & battery with MW charging

## CLEAN FUELS PROGRAM

Renewed strategy to prioritize flexible buses, emerging technology, equitable electrification, and community grants

# 2026-2028 Customer Program Budget Summary



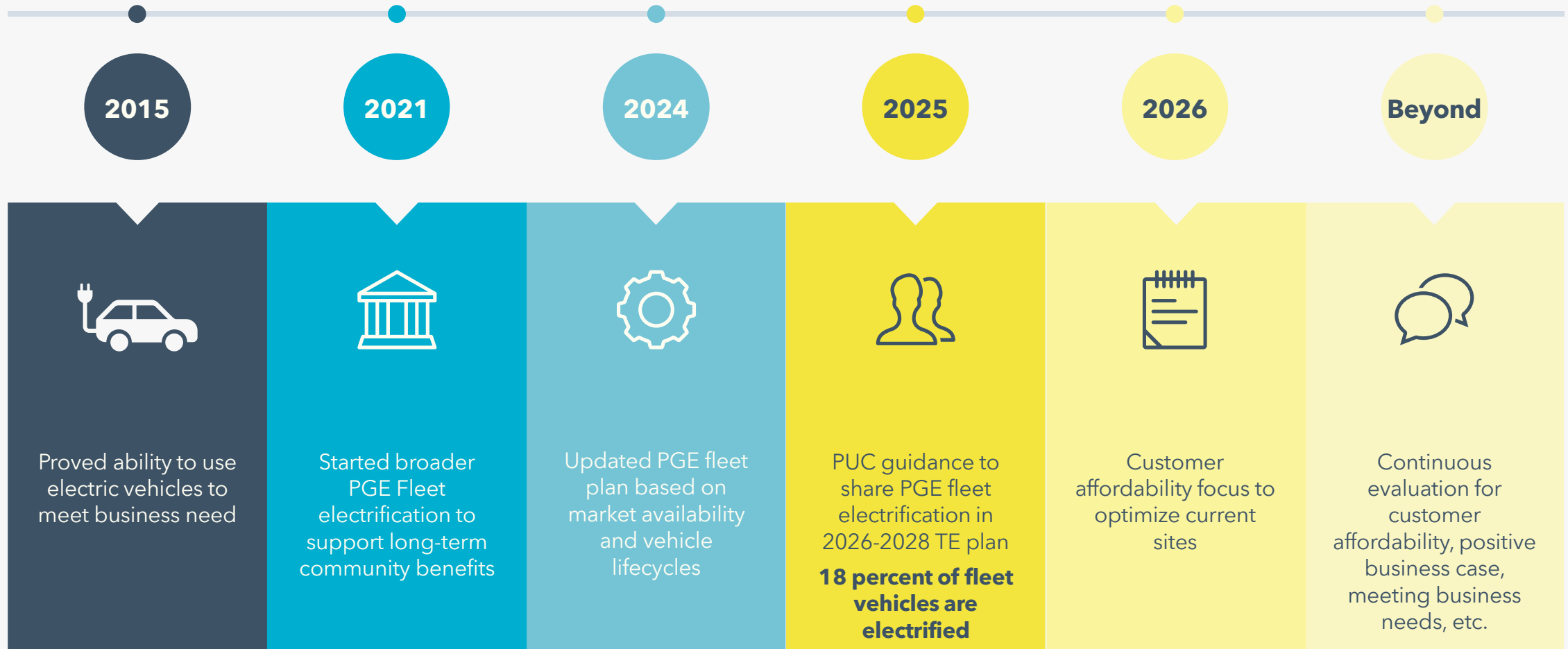
Customer Type	TE Program	2026-2028 Program Budget*	Funding Type
Commercial	Commercial Managed Charging Demos	\$3.0M	MMC
	Fleet Partner Pilot	\$6.0M	Rates
	HDV Charging Pilot	\$0.7M	MMC/Rates
Clean Fuels**	Clean Fuels Program	\$39.0M	Clean Fuels
Residential	Residential Smart Charging	\$12.0M	MMC/Rates
Residential & Commercial	Business EV Rebates	\$14.0M	MMC
	Charging Resiliency Hub	\$3.0M	MMC
	Muni Pole Charging	\$3.0M	MMC
	Public: Electric Avenue	\$2.0M	Rates/Clean Fuels
	Strategic Grid Investments	\$3.0M	MMC
Portfolio	Portfolio Support	\$5.0M	Rates/MMC
<b>Totals</b>		<b>~\$91.0M</b>	

• Preliminary Numbers reflect the draft TE Plan budget forecast and may shift in filed final TE plan on October 17, 2025

\*\* Total Clean Fuels revenue is forecasting ~\$40M but a portion is covering Public Charging (Electric Avenue) program to reduce ratepayer pressure

# PGE Fleet Electrification

PGE's fleet electrification efforts reflect our commitment to transportation decarbonization, while delivering community benefits and valuable insights to support customer fleet programs.



# PGE Fleet 2026-2028 plans



## Customer affordability focus

Assess fleet improvements to reduce overall capital spend to manage customer rate impacts

## Optimize current fleet and sites

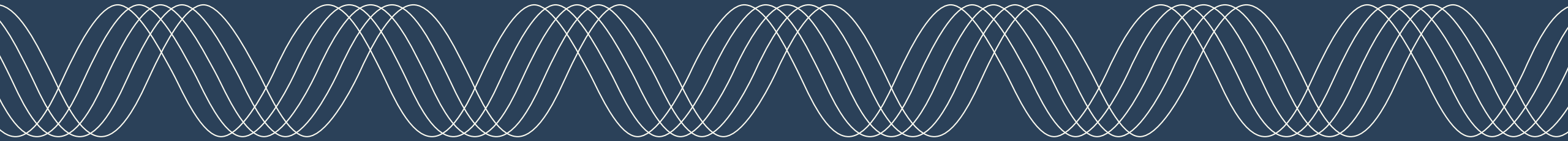
Continue to refine use of EV's and chargers to determine future modifications

## PGE Fleet & Workplace Program Costs for 2026-2028

Cost Category	2026	2027	2028	2026-28
Charging Infrastructure	-	-	-	-
Chargers	\$0.1M	\$0.1M	\$0.1M	\$0.3M
Vehicles (total cost)	\$6.4M	\$ -	\$ -	\$6.4M
O&M	\$1.9M	\$1.9M	\$1.9M	\$5.7M
<b>Total</b>	<b>\$8.4M</b>	<b>\$2.0M</b>	<b>\$2.0M</b>	<b>\$12.4M</b>



# Q&A



# Docket Schedule

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# Thank You

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## Staff Contact

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