

Renewable Energy Advisory Council Agenda

The RAC is on Thursday afternoons:

Thursday, November 21, 2024: 1:30 pm – 3:00 pm

Meeting is on-line only. Please register in advance: <https://us06web.zoom.us/meeting/register/tZlsc-6ppi0tGNMDqAgoJAjdeGjVhkNABptS>

After registering, you will receive a confirmation email containing information about joining the meeting.

1:30 Welcome and updates

- Welcome to new employees joining the renewable energy team
- Please complete this survey to help us assess our current RAC's skillset by November 27: <https://www.surveymonkey.com/r/2VCQCPJ>

1:40 One year (and a few months) of battery incentives *(presentation, feedback)*

It has been more than a year since Energy Trust started providing [incentives for residential batteries](#). Staff will present on how this has been going, results so far, information on costs, and plans for the future. RAC members are invited to bring questions and thoughts about the battery market.

2:15 Eight facts about the 2025 renewable energy budget *(presentation, feedback)*

Staff will provide information about the renewable energy budget and plans for 2025. The budget comment period has closed, and the board of directors will review the final version of the 2025 budget on December 13, 2024.

2:35 Multiyear Planning Update *(presentation, feedback)*

Staff will present an update on Energy Trust's transition to a multiyear plan for 2026-2030, outlining next year's plan development timeline and reviewing the plan's key elements.

2:55 Public comment

3:00 Adjourn

You can view this agenda and notes from previous meetings at: energytrust.org/about/public-meetings. If you have comments on meeting notes, please email merissa.larson@energytrust.org.

Next meeting:

- The next regular meeting of the RAC will be Thursday, January 23, 2025 at 1:30 pm.



Battery Storage Incentives

Renewable Energy Advisory Council

November 21, 2024

Agenda

- Background
- Strategic Approach and Goals
- Battery storage requirements
- Battery market baseline
- Incentive timeline
- Battery storage for home incentives
- Battery storage development assistance
- What we've learned
- Market trends
- Looking ahead

Background

- HB 3141 expanded our role to support “distribution system connected technologies”, that enable resilience and flexibility
- When paired with solar, battery storage can provide clean, quiet, safe backup power during outages or disasters like an earthquake
- Can power the essentials
- Capability to deliver broader benefits like providing grid services such as demand response or voltage regulation
- Aligns with Energy Trust's new (draft) Strategic Plan

Strategic Approach and Goals

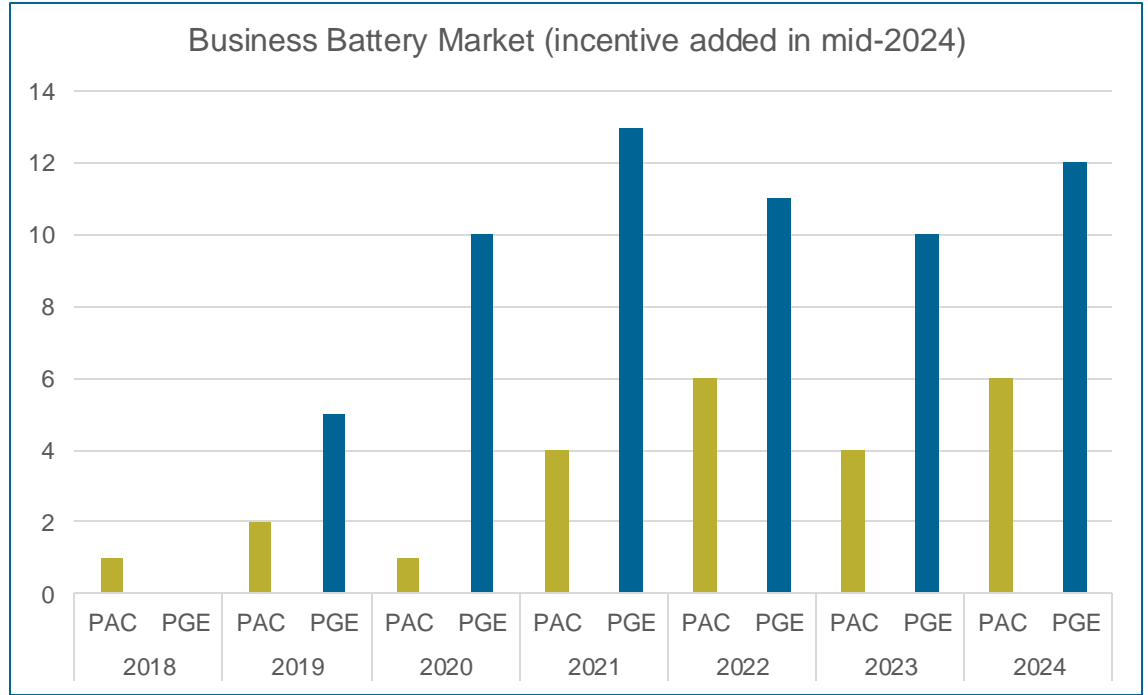
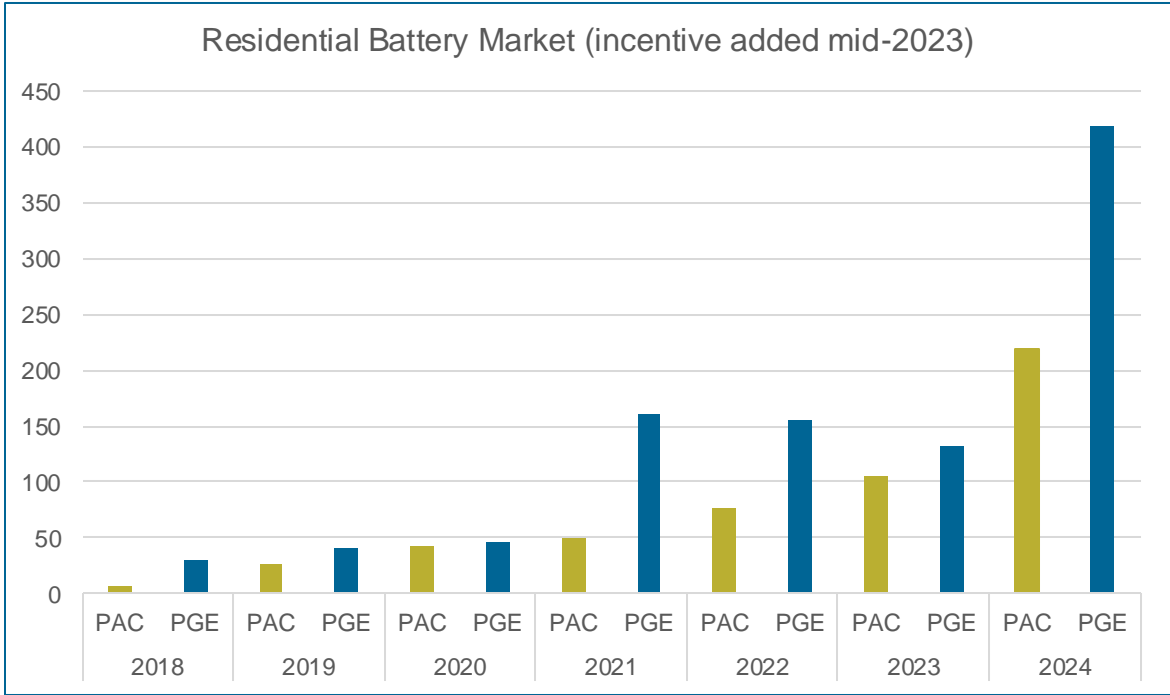
- Transform the market
- Meet both the current demand and future needs of our region
- Leverage existing program design
 - Cash incentives
 - Defining the bar
 - Standards and quality assurance
 - Market signals
 - A portfolio of incentive products
 - Incorporating industry learnings

**→→Start with the Residential market and scale up to a broader portfolio of complementary incentive offers
(launched July 2023)**

Battery Storage Incentive Eligibility Requirements

- Must be UL 9540 certified by a State of Oregon Building Codes Division-approved electrical testing laboratory.
- Must have a nameplate capacity of 3 kWh or greater.
- Must be paired with a new or existing program-qualifying solar installation.
- Must be capable of providing resilience to the home.
- Must have a 10-year Manufacturer Warranty that allows the battery to be used for grid flexibility and/or time of use arbitrage.
- Must be a stationary battery storage system permanently secured to the home.





Number of battery projects installed since 2018

Incentive Timeline

July 2023

Launched **Battery Storage for Homes** incentive offer

Original:

- \$250/kWh up to \$3,000
- \$750/kWh up to \$10,000 (Income Qualified)

Currently:

- \$500/kWh up to \$6,000
- \$1,000/kWh up to \$13,000 (PGE IQ)
- \$750/kWh up to \$10,000 (PAC IQ)

April 2024

Increased **Solar Development Assistance** and launched **Battery Storage Development Assistance** (combined total of up to \$7,500)

May 2024

Increased **Solar for Homes** incentives due to challenging market conditions

Currently:

- \$1,000 (PGE)
- \$1,200 (PAC)

July 2024

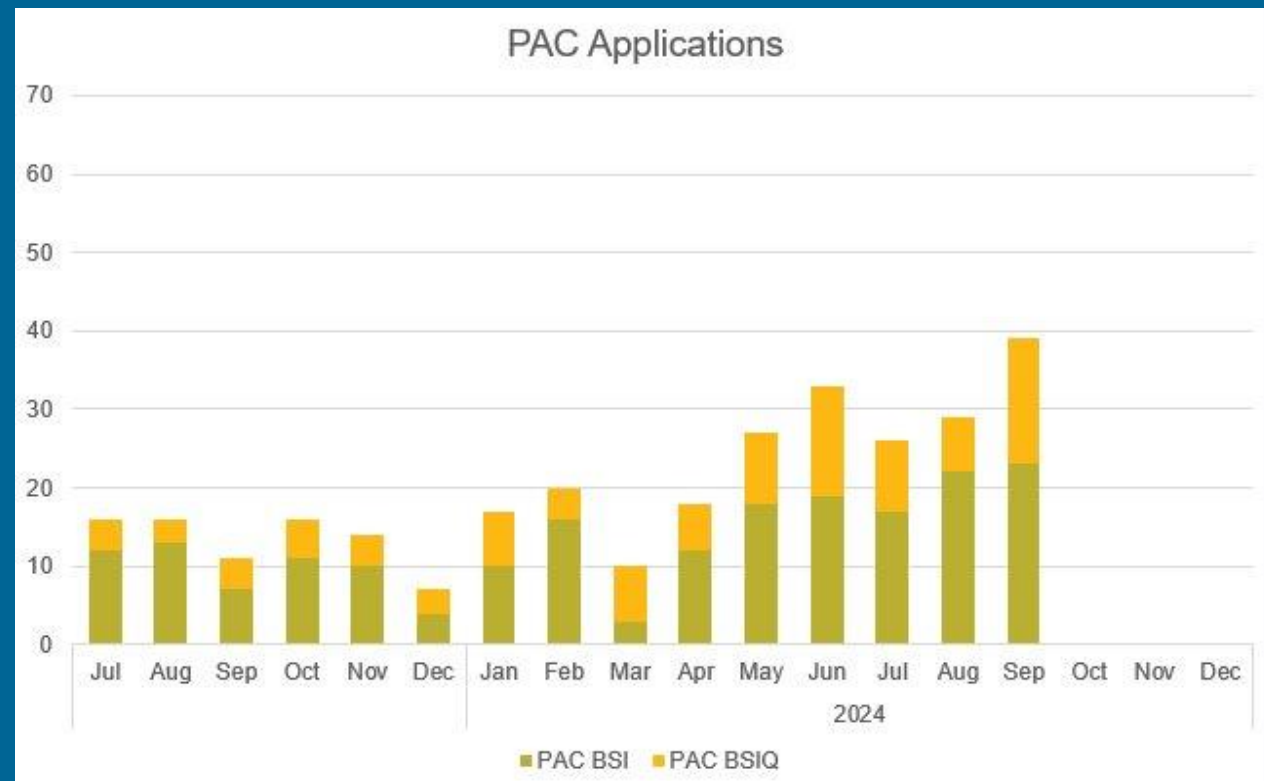
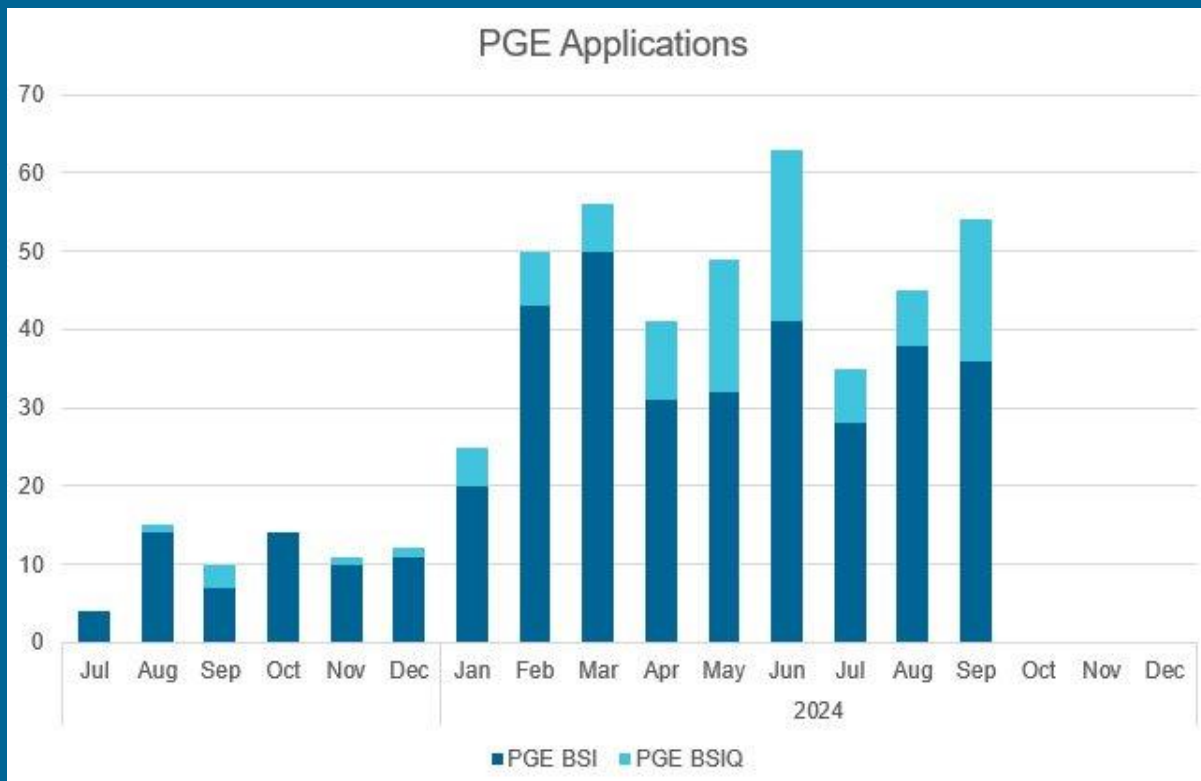
Launched **Battery Storage for Business** incentives

- \$500/kWh up to \$15,000

2025

Community Resilience offer to come...

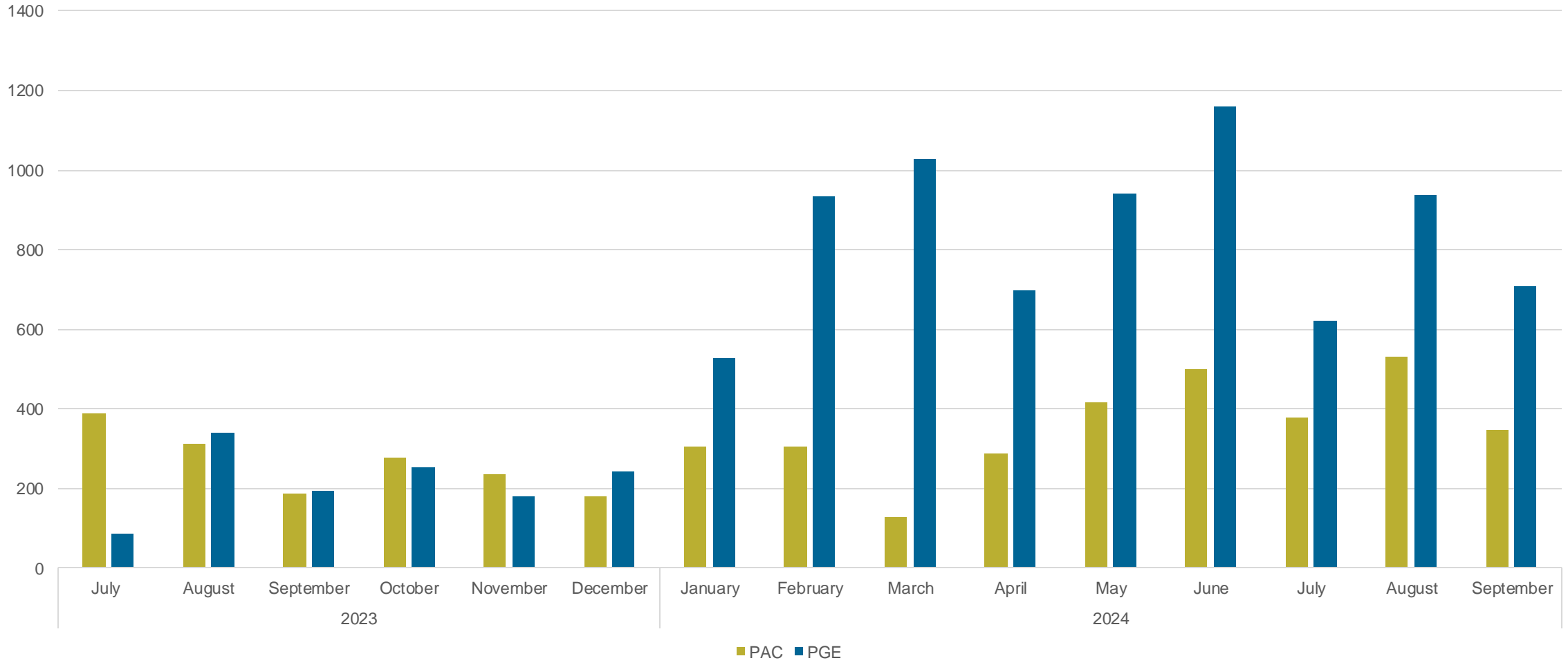
Battery Storage for Homes Applications Received



383 PGE standard applications
106 PGE income-qualified applications

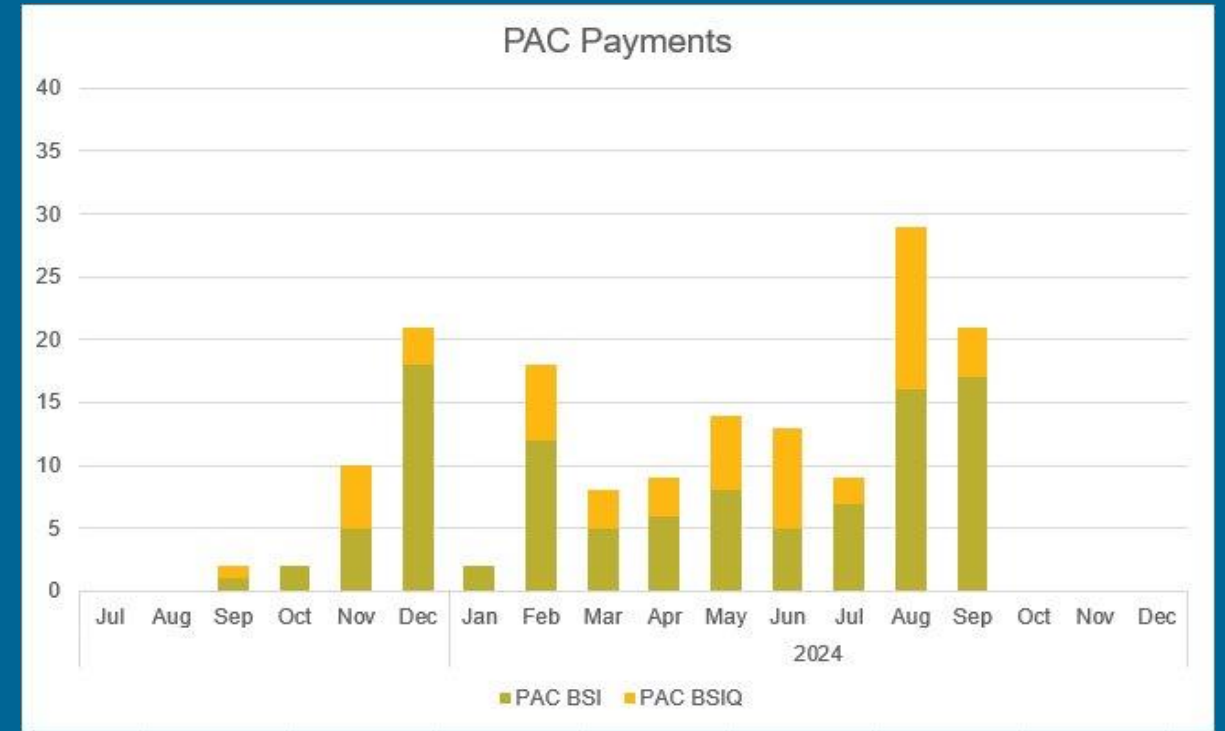
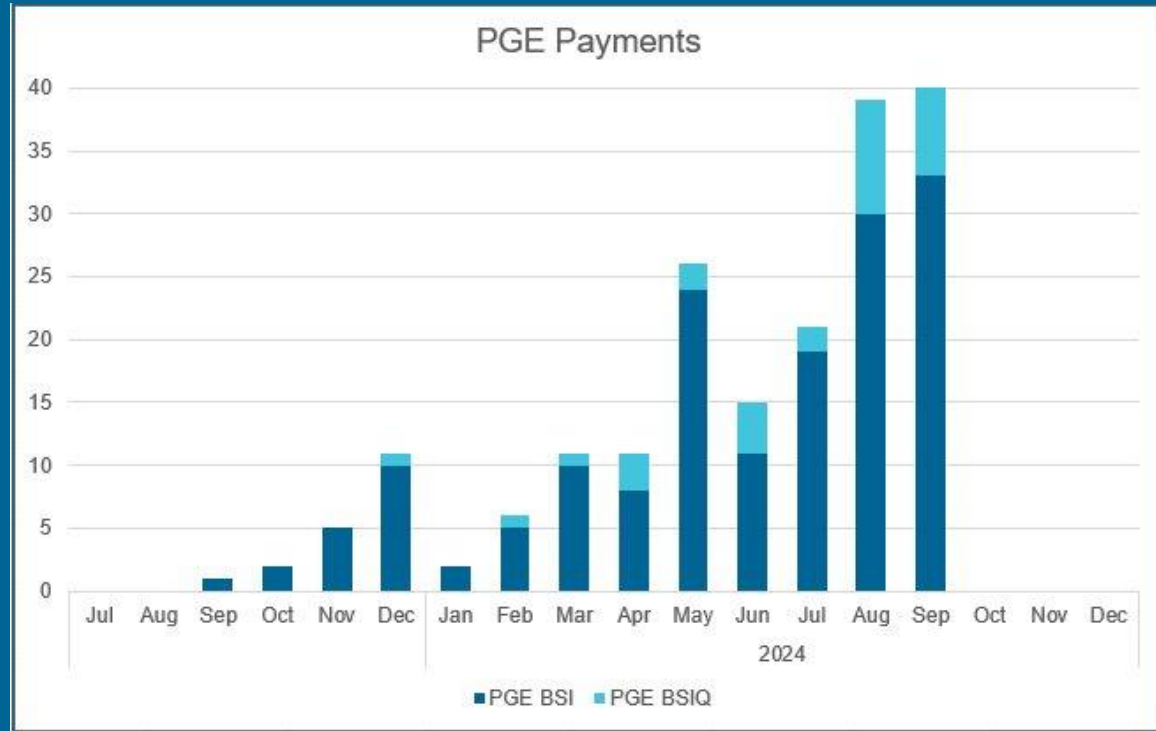
201 PAC standard applications
103 PAC income-qualified applications

Nameplate Capacity Submitted



Residential battery nameplate capacity submitted (kWh)

Battery Storage for Homes Incentives Paid

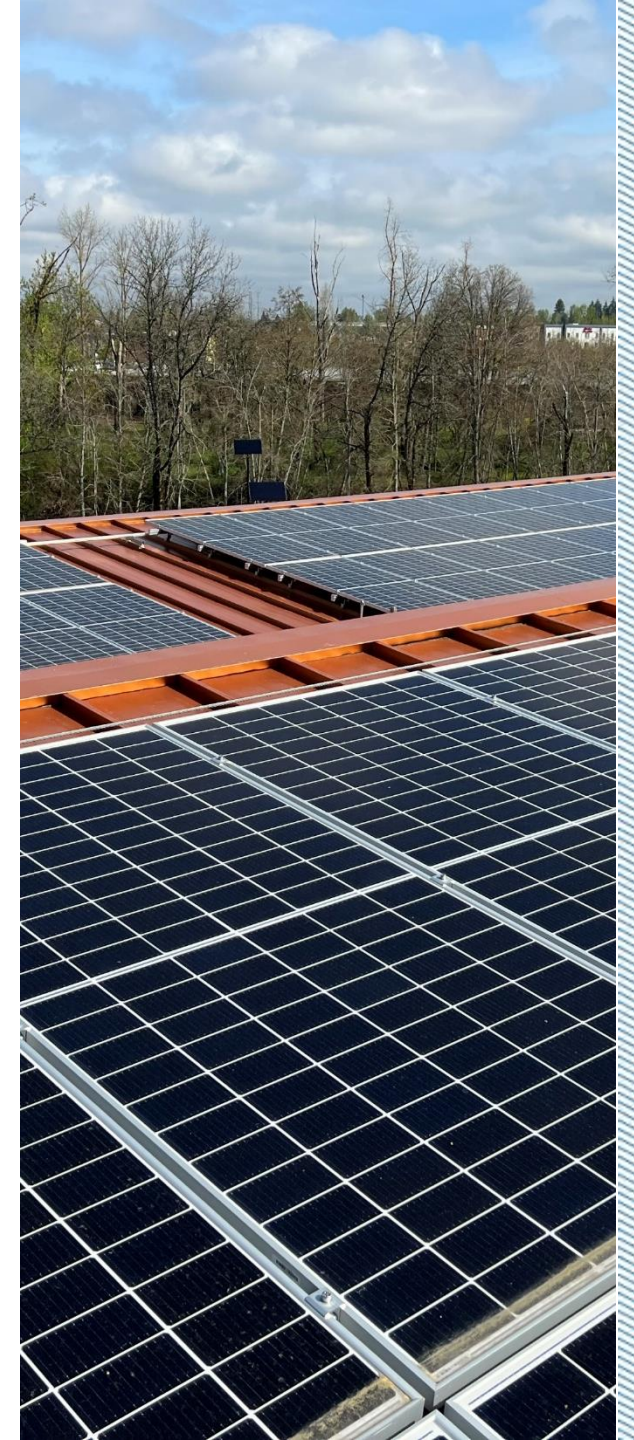


PGE \$745,255 across 160 projects
 PGE income-qualified \$316,300 across 30 projects

PAC \$369,065 across 104 projects
 PAC income-qualified \$511,685 across 54 projects

Battery Storage Development Assistance

- Eligible project types include:
 - New commercial buildings
 - Solar + storage for commercial properties
 - Nonprofits
 - Public Entities
 - Tribe
 - Utility Grant Applicant
- Up to \$5,000 can be reserved
- Can be paired with SDA to receive up to \$7,500
- Since launch, 18 applications have been submitted and \$90,000 reserved



What we've learned

- Batteries are heavy and may require special equipment to install
- Storage feasibility design can be expensive and time consuming
- Safety technology has improved in the last 2-3 years
- Current market remains in the early adopter phase, but moving faster than solar did
- Solarize campaigns increase solar + storage within a geographic area
- Customer demand is there, and large incentives will make projects move



2024 Market trends - Residential

- Since launching storage incentives in July 2023, 14% of solar project applications are S+S projects
- 2024 average solar only cost is \$3.81/W DC Capacity
- 2024 S+S cost is \$5.24/W DC Capacity
- 2024 average storage only system cost is \$24,570
- 2024 average storage only cost is \$1,262/kWh
- Tesla, LG Chem, SolarEdge are the most common equipment in the market
- At least 45% of TA's offer battery storage services
- 17 new TA's since March 2024, many say due to battery incentives



Looking ahead

- Resilience offer for commercial projects
- Solar For All
- Financing
- Market summary solar + storage report





Thank you

Alina Lambert, Sr. Project Manager
Alina.lambert@energytrust.org



8 facts about the 2025 Renewable Energy budget

Renewable Advisory Council

November 21, 2024

2 new
hydro
projects:
coming
online in
2025





Growth compared to 2024 and last year's 2025 draft budget:

\$15.6 million: total public purpose charge (PPC) renewable energy incentive budget for project development and installations in 2025. This is a **5% increase** from the 2024 budget.



Growth compared to 2024 and last year's 2025 draft budget:

57% increase in generation: compared to our original 2025 budget. Generation is significantly higher than anticipated last year due to our extension of support for residential solar incentives.

**\$4.6 million
for battery
storage: 30% of
the PPC incentive
budget will
support battery
storage systems
at homes and
businesses.**



Significant funding for income-qualified and equity-focused projects

- **55%:** portion of our total incentive budget allocated to equity-focused and income-qualified incentives to ensure fair access and benefits.



Significant funding for income-qualified and equity-focused projects

\$7.4 million of incentives for income-qualified customers: serving households with low or moderate incomes with sufficient funds to support an estimated:

- **1,270 households with solar,**
- **110 households with storage, and**
- **475 households with low-income community solar subscriptions.**



\$565.29: estimated annual bill savings from a community solar subscription for each income-qualified household.



\$105,600:
anticipated loan
loss reserve budget
needed to support
\$12 million of
customer-friendly
solar loans.





Thank you

Dave Moldal, Sr. Program Manager

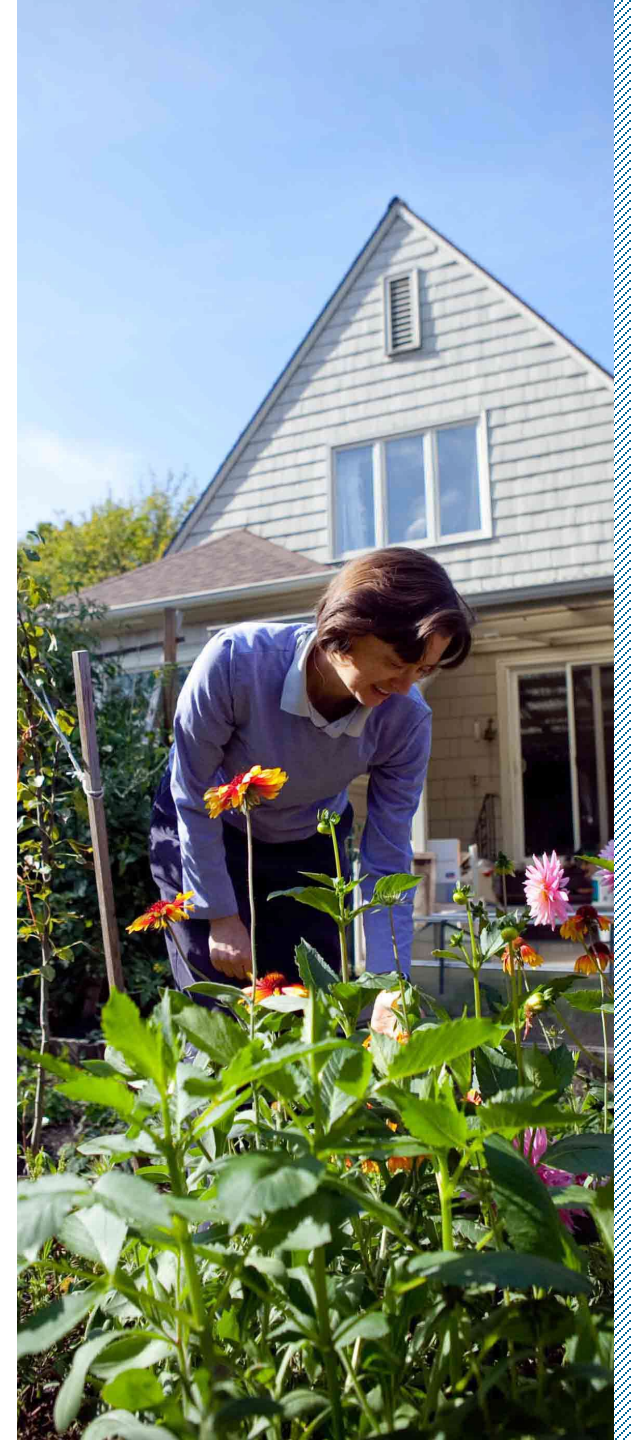
Dave McClelland, Sr. Program Manager



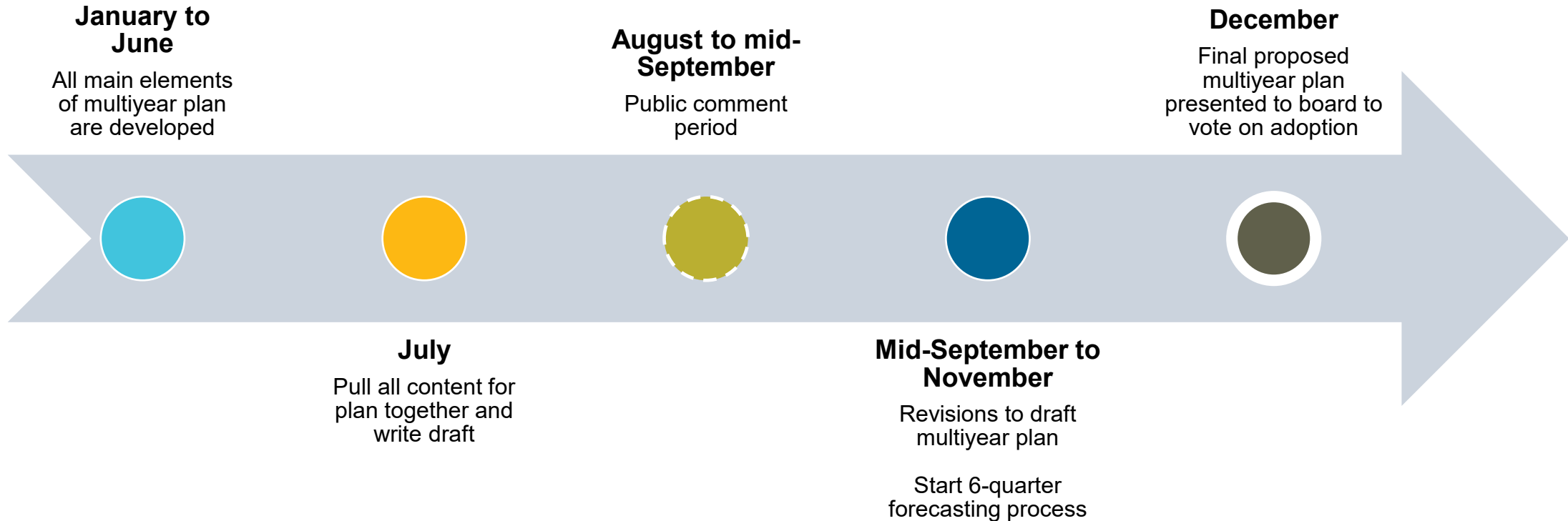
Multiyear Planning Update
Renewable Advisory Council Meeting
November 21, 2024

Why multiyear planning?

- A multiyear planning framework will help us...
 - Have a greater impact
 - Save time
 - Spend more time implementing programs and less time planning
 - Engage utilities and stakeholders more regularly through the new 18-month quarterly forecasting framework
 - Gain financial and operational flexibility

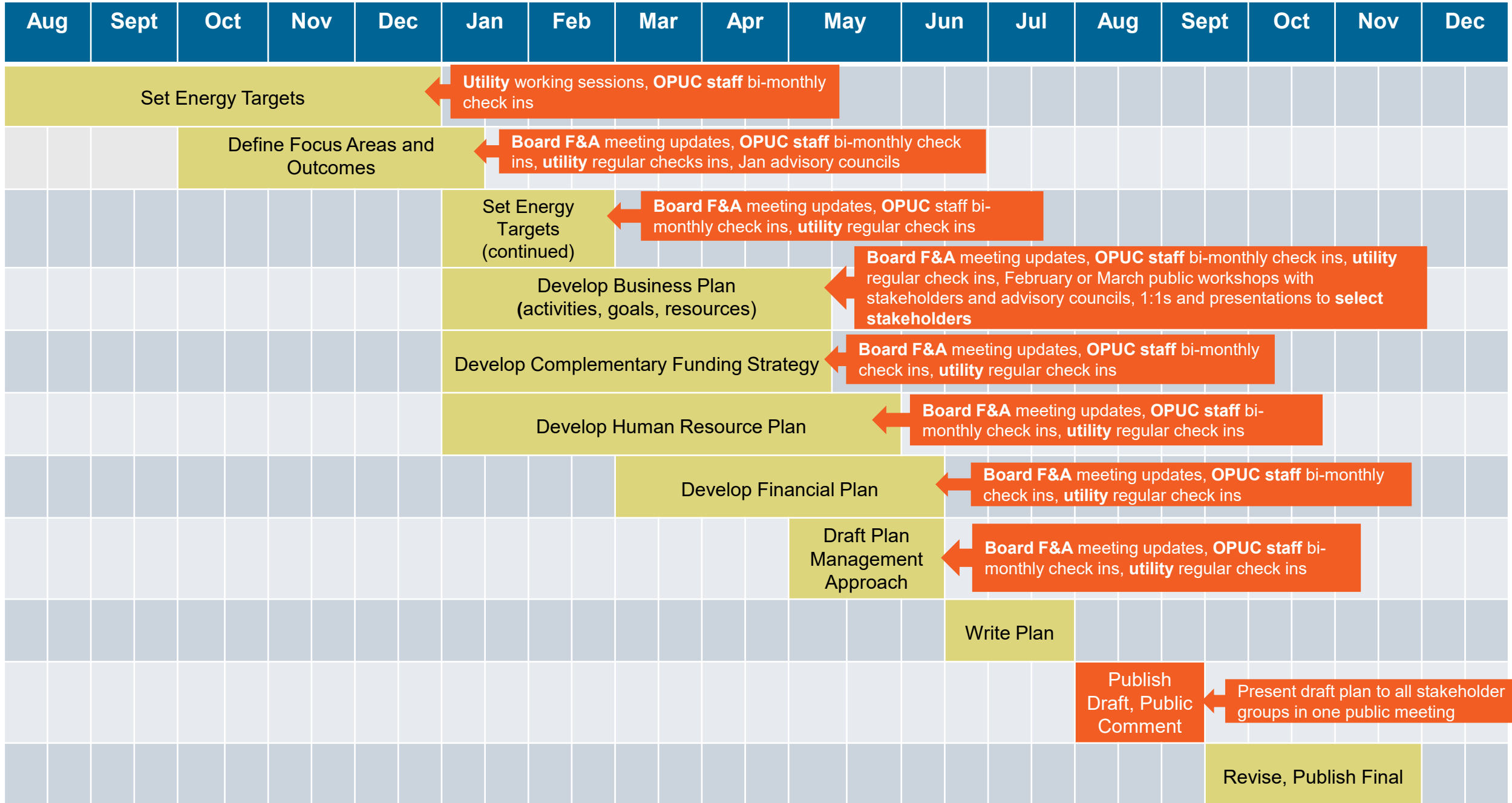


Multiyear plan development process in 2025



2024

2025



Stakeholder engagement points – Advisory Councils

January 16:

- Present schedule and engagement opportunities
- Review long-term outcomes for multiyear plan

Mid-February – Mid-March:

- 4 workshops, organized by sector
- Seek input on initial list of program activities

August 7:

- Present draft multiyear plan
- Open 6-week public comment period for all stakeholders

Elements of the 2026-2030 Multiyear Plan

5-year business
plan

5-year human
resource plan

5-year financial
plan

Complementary
funding strategy

5-Year Business Plan



January to
mid-May 2025

- Describes the significant program strategies and activities that we propose to undertake over the five-year period including:
 - Potential changes to measure offerings and incentives
 - New program delivery channels
 - Essential partnerships and relationships to develop or strengthen
- Highlights key activities to support program efforts including:
 - Support for workforce development activities
 - Expansion of our Trade Ally network
 - Greater capacity within Community-Based Organizations
 - Adoption of more efficient, streamlined internal systems and processes
 - Increased ability to be more innovative
 - Improved integration of complementary funding

5-Year Human Resource Plan



January through
May 2025

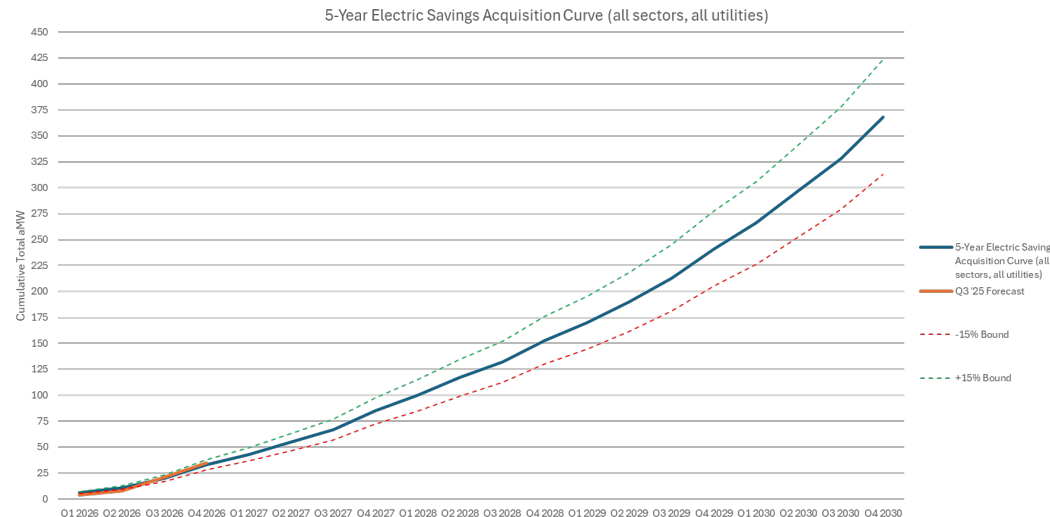
- Number of staff needed
- External resources needed
- Skills and expertise needed
- Staffing costs
- Staff development and retention strategies

5-Year Financial Plan



March to mid-
June 2025

- Projection of expenditures, revenue and reserves over 5-year period
- Savings and generation trajectories and targets
- Revenue collection mechanism
- Approach to reserve management to create flexibility



Complementary Funding Strategy



January to mid-
May 2025

- Summary of program strategies that require complementary funding to scale and accelerate
- Complementary funding requirements and targets
- Summary of known and potential funding sources