

## Renewable Energy Advisory Council Agenda

Thursday, January 16, 2024: 1:30 pm – 3:00 pm (on-line only)

Meeting is on-line only. Please register in advance:

<https://us06web.zoom.us/meeting/register/ypaWjX8RLqzwqZ0sHCPvw>

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

**1:30 Welcome and updates**

- Portland Clean Energy Fund (PCEF) grant
- Upcoming staff openings in the Renewable energy group

**1:40 Multiyear Planning Update**

*(presentation, feedback)*

Staff will review advisory council engagement points during the development of the 2026-2030 Multiyear Plan, highlighting upcoming workshops as an opportunity to provide input on Energy Trust's five-year strategies and activities. Staff will also present on the process for setting five-year savings, generation and storage targets.

**2:00 Enhanced report from Energy Trust on solar activity**

*(presentation, feedback)*

Staff will present on enhancements to our solar and storage market summary report. This dynamic report includes information helpful to understanding the current state of the solar market. Staff will also answer questions about the content of the report which includes aggregated information from 2024 incentive applications received.

**2:30 RAC member updates on 2025 legislative session**

*(presentation, feedback)*

RAC members are invited to share information on what they are planning or expecting that is energy-related during the upcoming 2025 legislative session.

**2:55 Public comment**

**3:00 Adjourn**

You can view this agenda and notes from previous meetings at: [energytrust.org/about/public-meetings](https://energytrust.org/about/public-meetings).

If you have comments on meeting notes, please email [merissa.larson@energytrust.org](mailto:merissa.larson@energytrust.org).

**Next meetings:**

- RAC members are invited to a workshop on Energy Trust's renewable energy strategies and tactics for the 2026-2030 Multiyear Plan on Thursday, March 6 from 1:00-4:00 pm
- There will be a regular RAC meeting on Thursday, April 17 at 1:30 pm.

## Purpose

We create this weekly report to share insights on the solar market with Energy Trust solar trade allies. It includes data from residential and commercial solar and battery storage incentive applications, including capacity, average sizes, and average costs. We provide this information to be transparent and give visibility into market trends and system pricing that could help you create competitive bids and better serve your customers. Questions? Email us at [solar@energytrust.org](mailto:solar@energytrust.org).

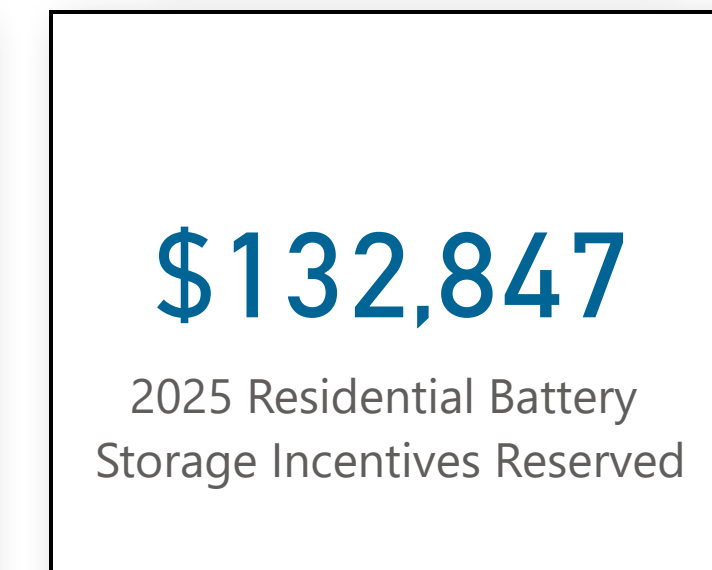
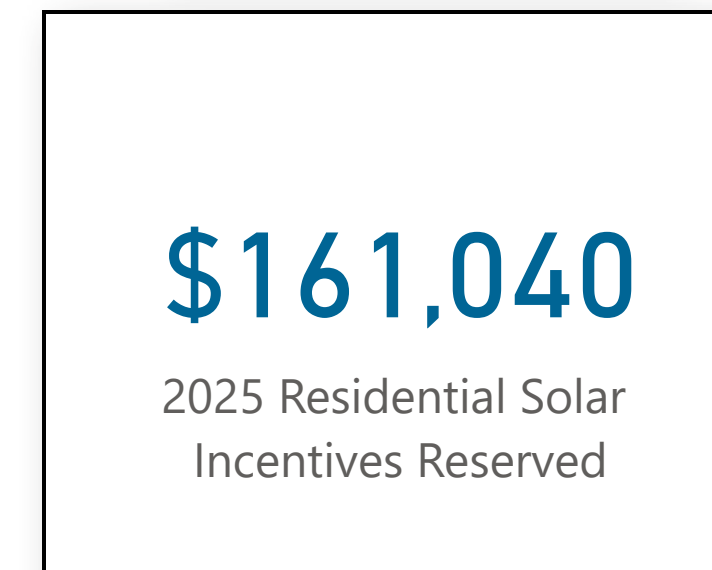
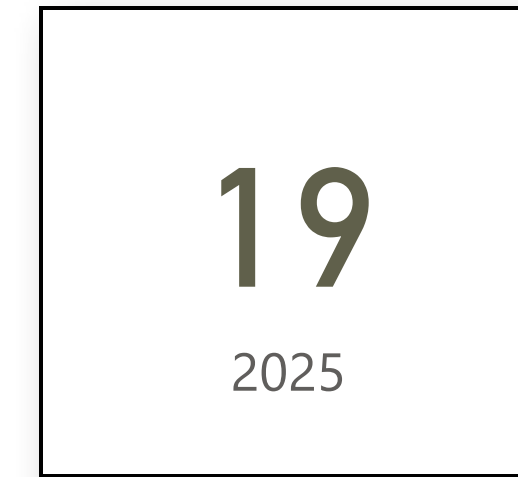
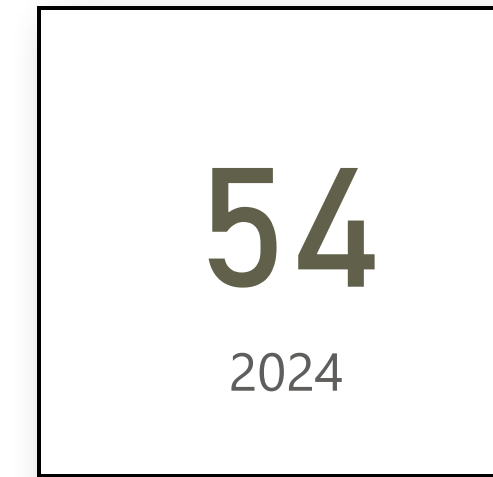
## Details and Definitions

- The report is organized to show costs, capacity, and system sizes specific to solar-only systems, solar + storage systems, and storage-only systems.
- This report references incentive applications submitted into PowerClerk.
- Cancelled applications are omitted.
- Report details are current as of the date listed in the lower right corner of each page of this report.

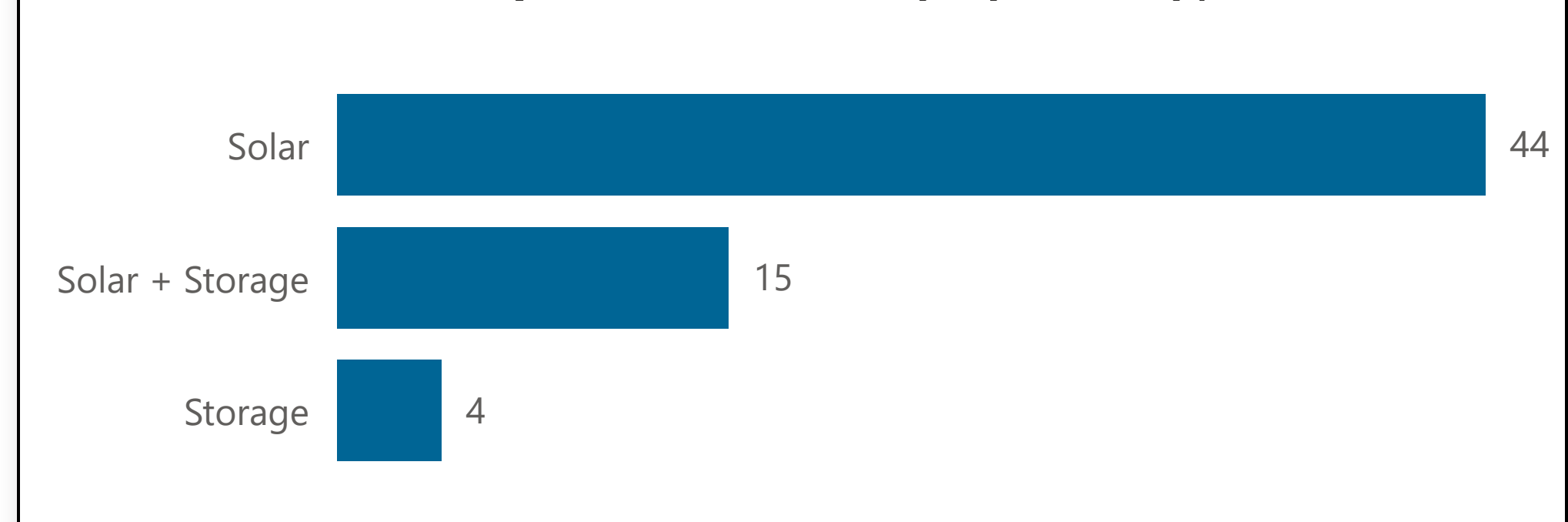
### System cost definitions:

- *System Costs*: Includes solar-system and battery storage costs excluding roofing, electrical, and structural upgrades.
- *Solar Costs*: Typically, this includes the cost to install a photovoltaic system but may include all non-battery related costs. Solar costs exclude battery storage costs when battery storage costs are reported separately.
- *Battery Costs*: Includes all battery-related costs, including batteries, inverter, controller, and installation costs.

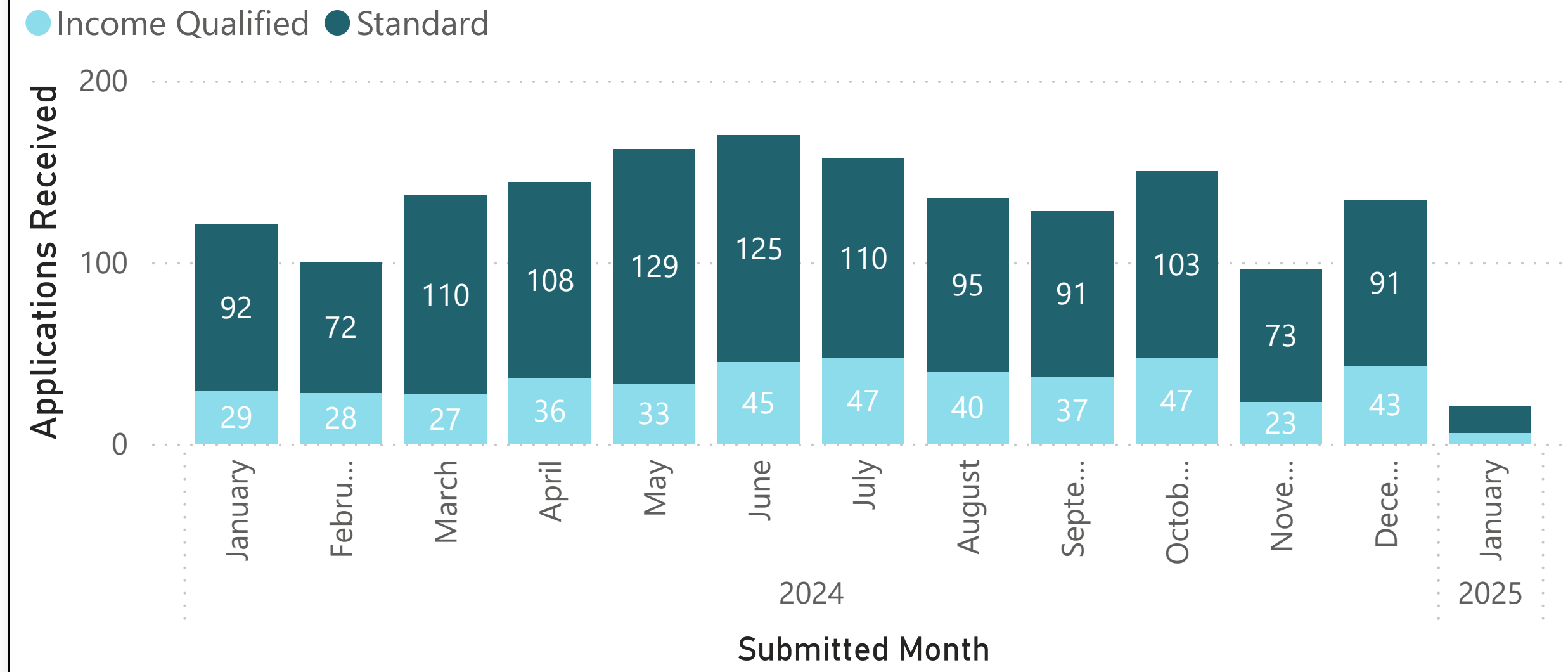
## Number of Residential Trade Allies Submitting Applications



## 2025 Residential Projects Submitted by System Type



## PGE Residential Solar-Only Applications

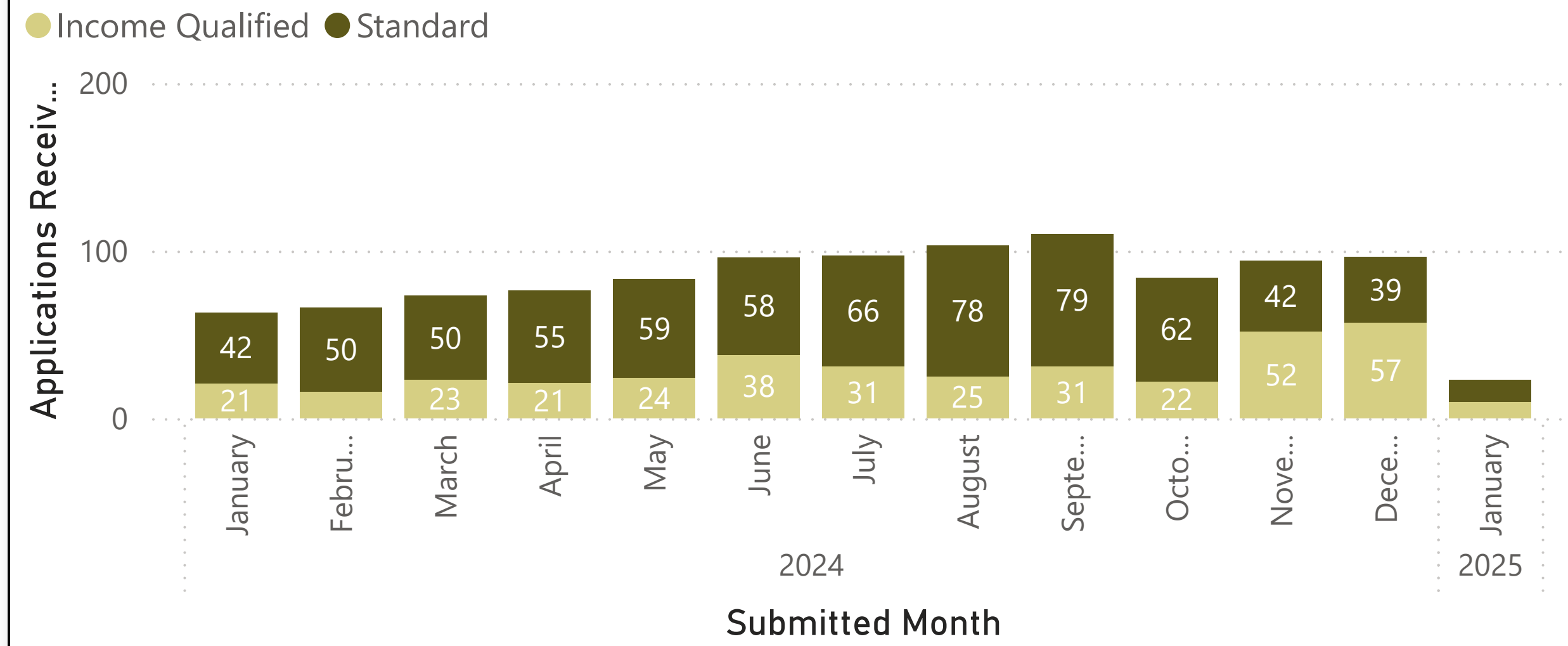


## Residential Solar-Only Applications

### 2024 Residential Solar-Only Applications for PGE and PAC

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. Cost/W DC Capacity	Avg. System Cost
2024	Qtr 1	560	5,520.91	9.86	\$3.66	\$36,087
2024	Qtr 2	731	6,705.99	9.17	\$3.82	\$35,068
2024	Qtr 3	730	6,628.45	9.08	\$3.90	\$35,420
2024	Qtr 4	654	5,743.93	8.78	\$3.63	\$31,884
<b>Total</b>		<b>2675</b>	<b>24,599.29</b>	<b>9.20</b>	<b>\$3.76</b>	<b>\$34,599</b>

## Pacific Power (PAC) Residential Solar-Only Applications



### 2025 Residential Solar-Only Applications for PGE and PAC

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. Cost/W DC Capacity	Avg. System Cost
2025	Qtr 1	44	435.69	9.90	\$4.12	\$40,815
<b>Total</b>		<b>44</b>	<b>435.69</b>	<b>9.90</b>	<b>\$4.12</b>	<b>\$40,815</b>

**Total Residential Solar Projects 2003-2023 = 24,968**

# Residential Solar-Only Customer Purchase Details

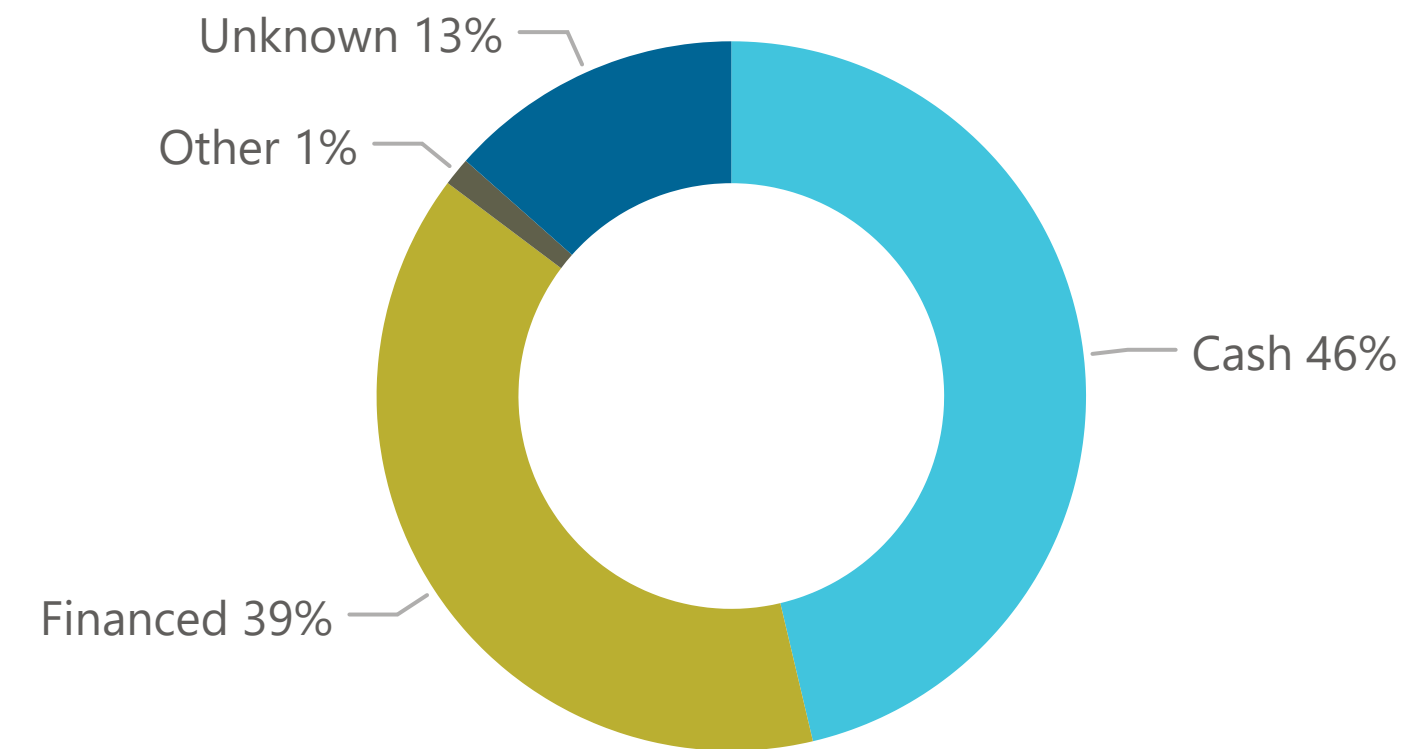
## 2024/2025 Residential Solar-Only - **Financed Systems**

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. Cost/W DC Capacity	Avg. System Cost
2024	Qtr 1	94	898.37	9.56	\$4.23	\$40,425
2024	Qtr 2	330	3,042.50	9.22	\$4.69	\$43,241
2024	Qtr 3	361	3,248.12	9.00	\$4.63	\$41,625
2024	Qtr 4	249	2,151.55	8.64	\$4.58	\$39,576
2025	Qtr 1	25	211.46	8.46	\$5.30	\$44,866
<b>Total</b>		<b>1059</b>	<b>9,551.99</b>	<b>9.02</b>	<b>\$4.61</b>	<b>\$41,617</b>

## 2024/2025 Residential Solar-Only - **Cash Systems**

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. Cost/W DC Capacity	Avg. System Cost
2024	Qtr 1	127	1,372.31	10.81	\$2.89	\$31,175
2024	Qtr 2	370	3,395.78	9.18	\$3.01	\$27,592
2024	Qtr 3	348	3,197.42	9.19	\$3.16	\$29,026
2024	Qtr 4	396	3,516.78	8.88	\$3.03	\$26,933
2025	Qtr 1	18	216.58	12.03	\$2.98	\$35,854
<b>Total</b>		<b>1259</b>	<b>11,698.87</b>	<b>9.29</b>	<b>\$3.04</b>	<b>\$28,261</b>

## 2024 and 2025 - How Customers are Paying for Solar-Only Systems



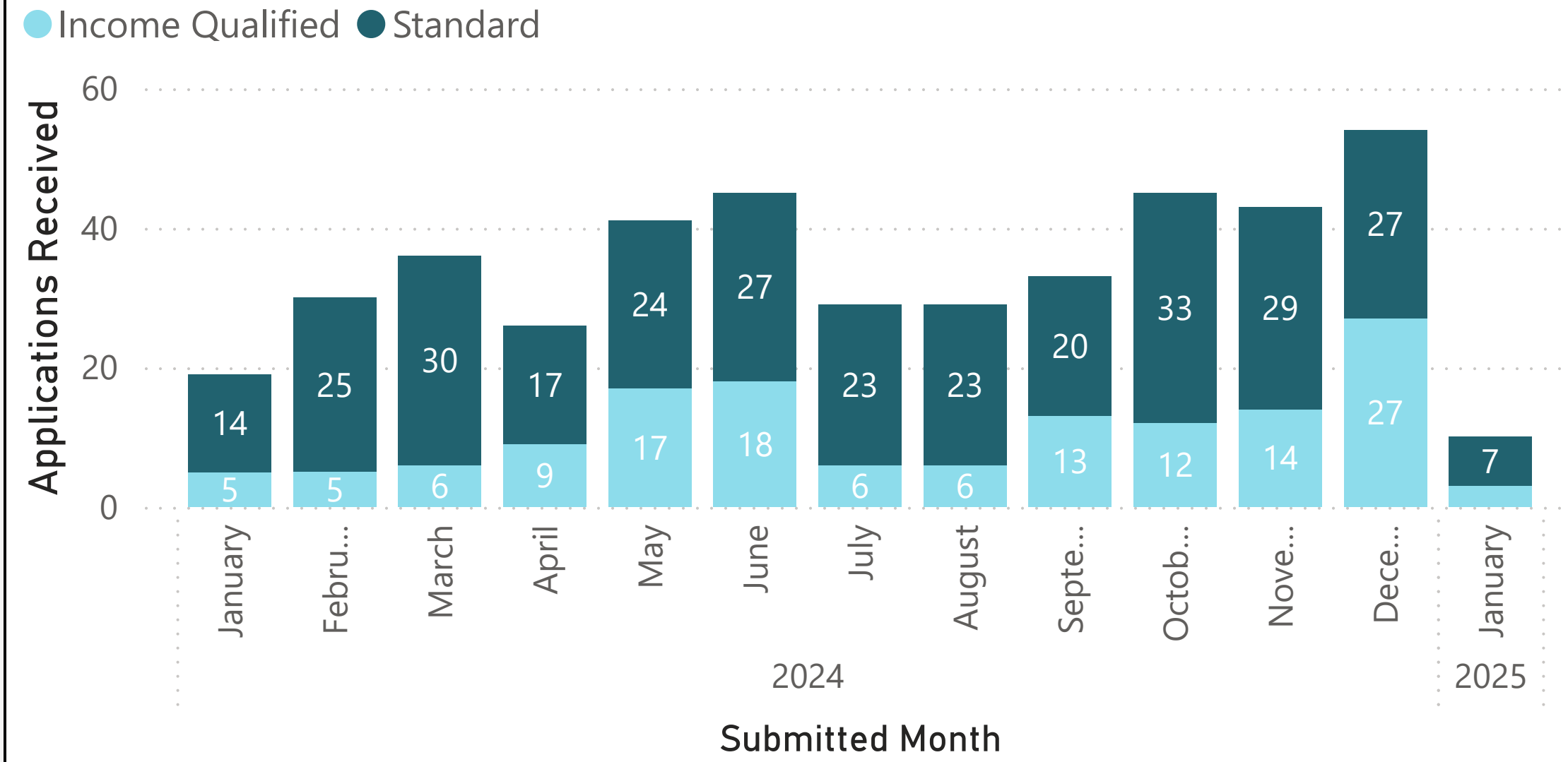
## 2024/2025 Residential Solar-Only - **Other/Unknown Systems\***

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. Cost/W DC Capacity	Avg. System Cost
2024	Qtr 1	339	3,250.23	9.59	\$3.83	\$36,724
2024	Qtr 3	21	182.92	8.71	\$3.98	\$34,711
2024	Qtr 2	31	267.72	8.64	\$4.32	\$37,289
2024	Qtr 4	9	75.61	8.40	\$4.39	\$36,901
2025	Qtr 1	1	7.65	7.65	\$3.77	\$28,826
<b>Total</b>		<b>401</b>	<b>3,784.13</b>	<b>9.44</b>	<b>\$3.88</b>	<b>\$36,646</b>

\*Other/Unknown indicates purchase method is not identified in PowerClerk



## PGE Residential S+S Applications

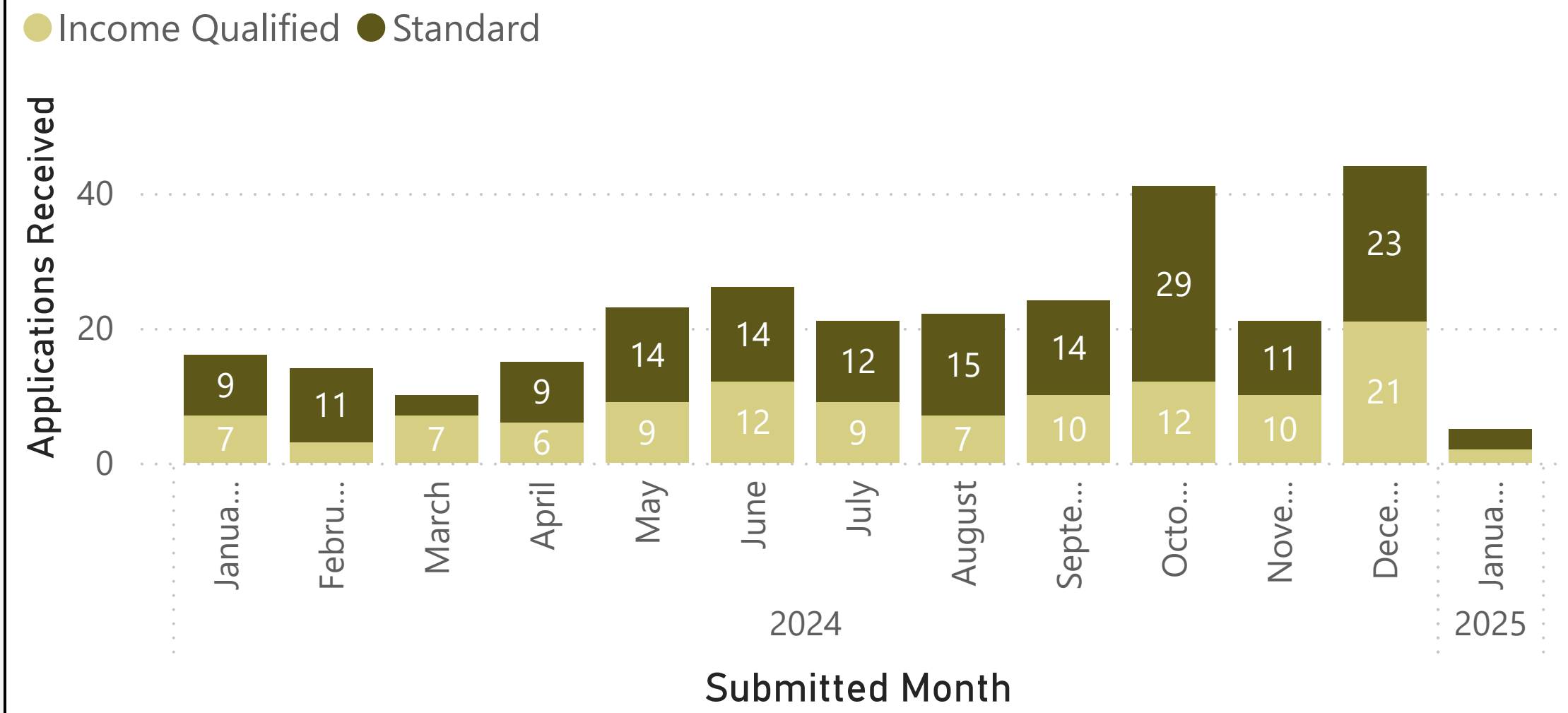


## Residential Solar + Storage Applications

### 2024 Residential Solar + Storage Applications for PGE and PAC

Year	Quarter	S+S Projects	Avg. Solar Cost	Total Solar Capacity kW	Avg. Solar Capacity kW	Avg. System Cost/W DC Capacity	Avg. Storage Capacity kWh	Avg. Storage Cost/kWh
2024	Qtr 1	125	\$34,836	1,318.38	10.55	\$5.40	19.11	\$1,158
2024	Qtr 2	176	\$34,975	1,966.58	11.17	\$5.05	17.89	\$1,202
2024	Qtr 3	158	\$36,602	1,692.52	10.71	\$5.34	16.72	\$1,232
2024	Qtr 4	248	\$34,829	2,724.54	10.99	\$5.09	16.70	\$1,264
<b>Total</b>		<b>707</b>	<b>\$35,263</b>	<b>7,702.03</b>	<b>10.89</b>	<b>\$5.19</b>	<b>17.42</b>	<b>\$1,221</b>

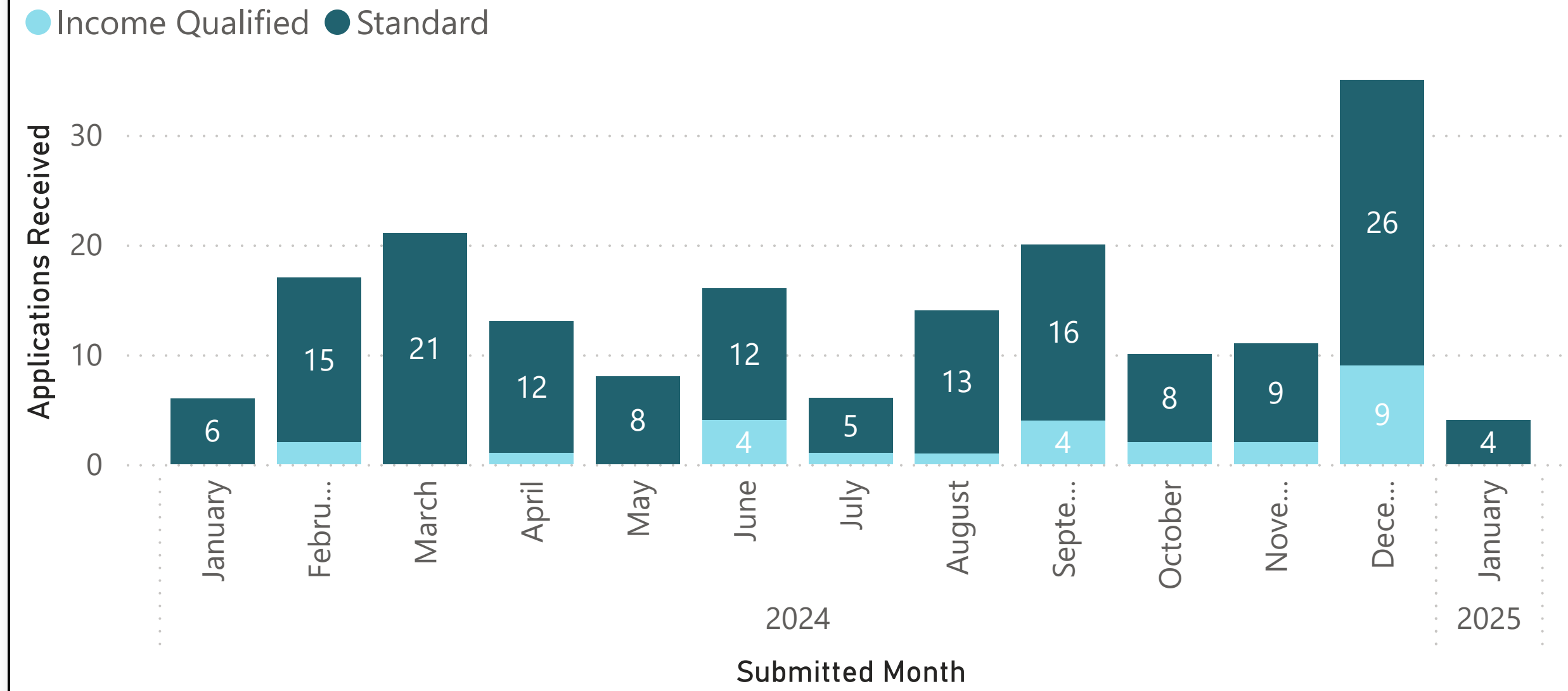
## Pacific Power (PAC) Residential S+S Applications



### 2025 Residential Solar + Storage Applications for PGE and PAC

Year	Quarter	S+S Projects	Avg. Solar Cost	Total Solar Capacity kW	Avg. Solar Capacity kW	Avg. System Cost/W DC Capacity	Avg. Storage Capacity kWh	Avg. Storage Cost/kWh
2025	Qtr 1	15	\$40,662	189.30	12.62	\$5.52	22.52	\$1,288
<b>Total</b>		<b>15</b>	<b>\$40,662</b>	<b>189.30</b>	<b>12.62</b>	<b>\$5.52</b>	<b>22.52</b>	<b>\$1,288</b>

## PGE Residential Battery Storage Applications

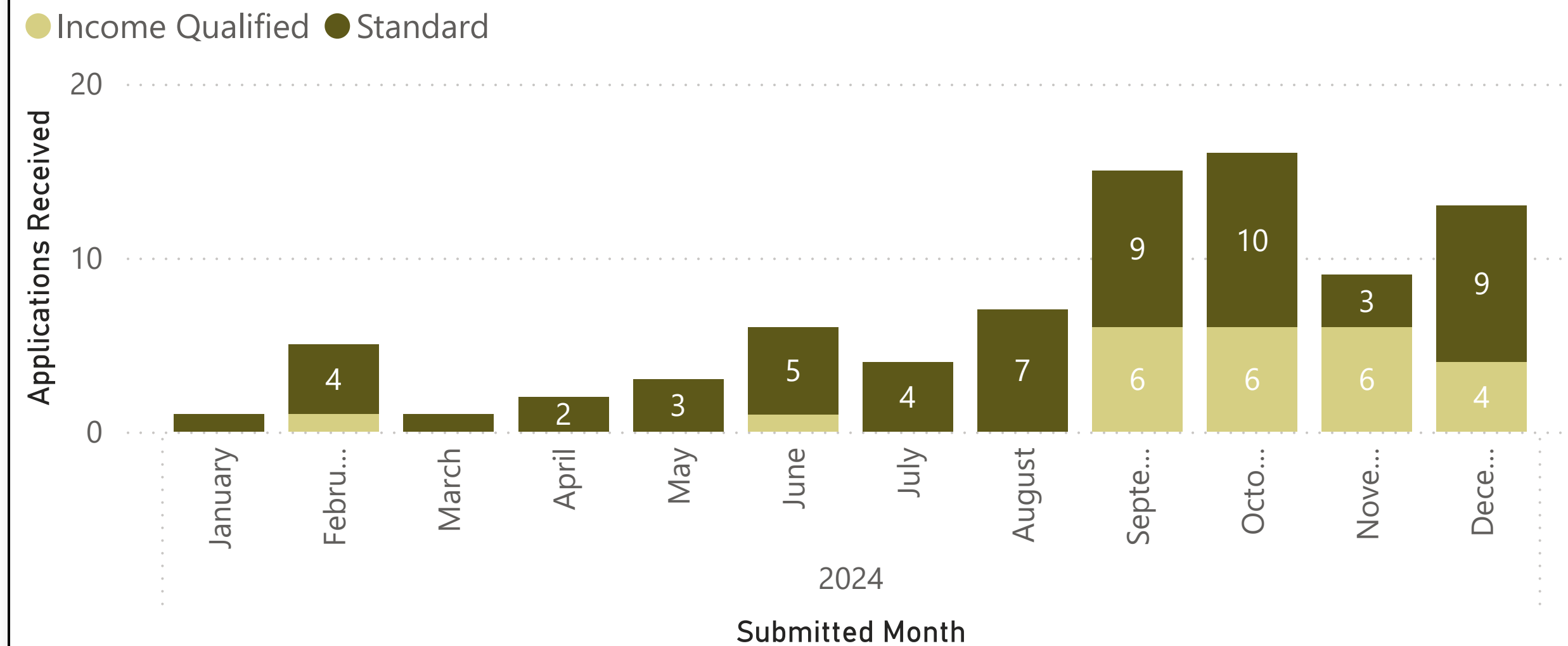


## Residential Battery Storage Applications

### 2024 Residential Battery Storage\* Applications for PGE and PAC

Year	Quarter	Projects	Total Storage Capacity kWh	Avg. Capacity kWh	Avg. Cost kWh	Total AC Capacity kW
2024	Qtr 1	51	915.90	17.96	\$1,328	376.7
2024	Qtr 2	48	826.90	17.23	\$1,303	526.8
2024	Qtr 3	66	1,318.21	19.97	\$1,206	1000.1
2024	Qtr 4	94	1,592.29	16.94	\$1,303	1064.2
<b>Total</b>		<b>259</b>	<b>4,653.30</b>	<b>17.97</b>	<b>\$1,280</b>	<b>2967.9</b>

## Pacific Power (PAC) Residential Battery Storage Applications



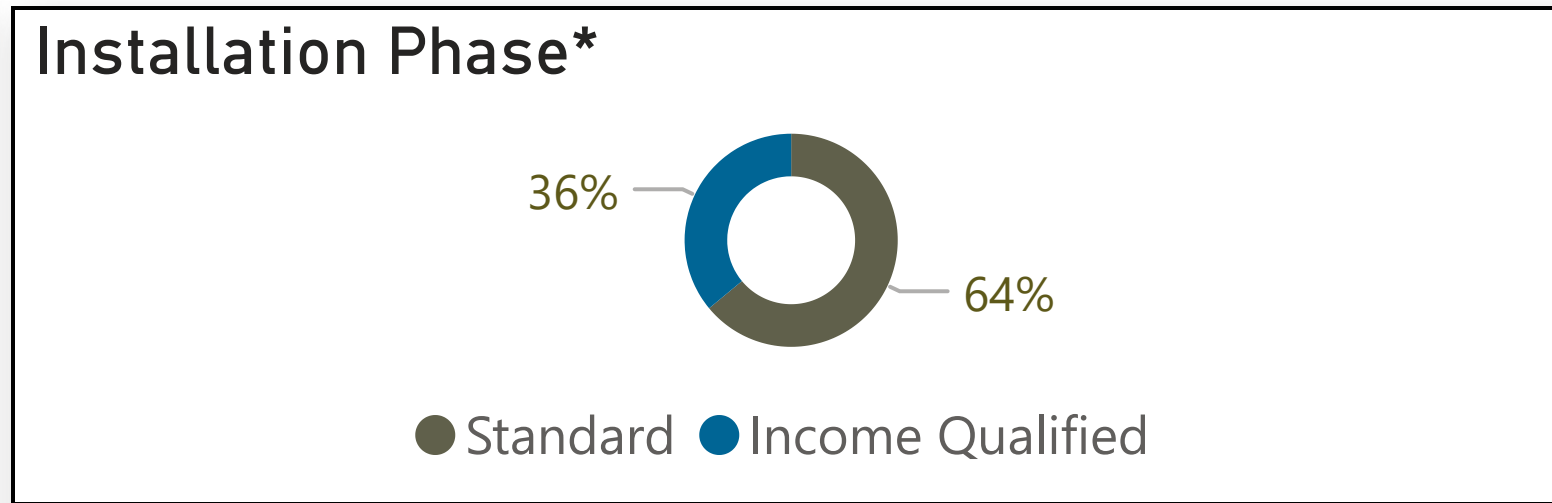
### 2025 Residential Battery Storage\* Applications for PGE and PAC

Year	Quarter	Projects	Total Storage Capacity kWh	Avg. Capacity kWh	Avg. Cost kWh	Total AC Capacity kW
2025	Qtr 1	4	71.04	17.76	\$1,441	39.4
<b>Total</b>		<b>4</b>	<b>71.04</b>	<b>17.76</b>	<b>\$1,441</b>	<b>39.4</b>

\*Storage systems added to existing solar systems

# Additional Residential Application Details

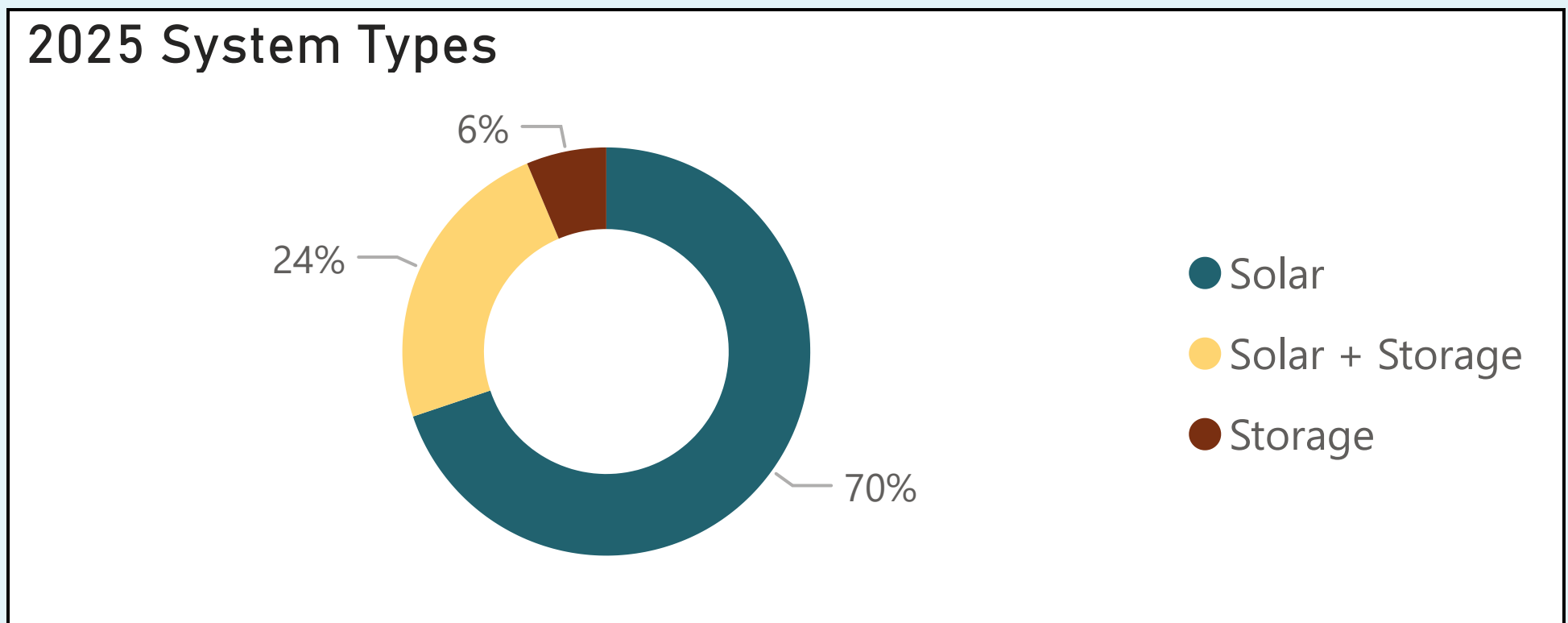
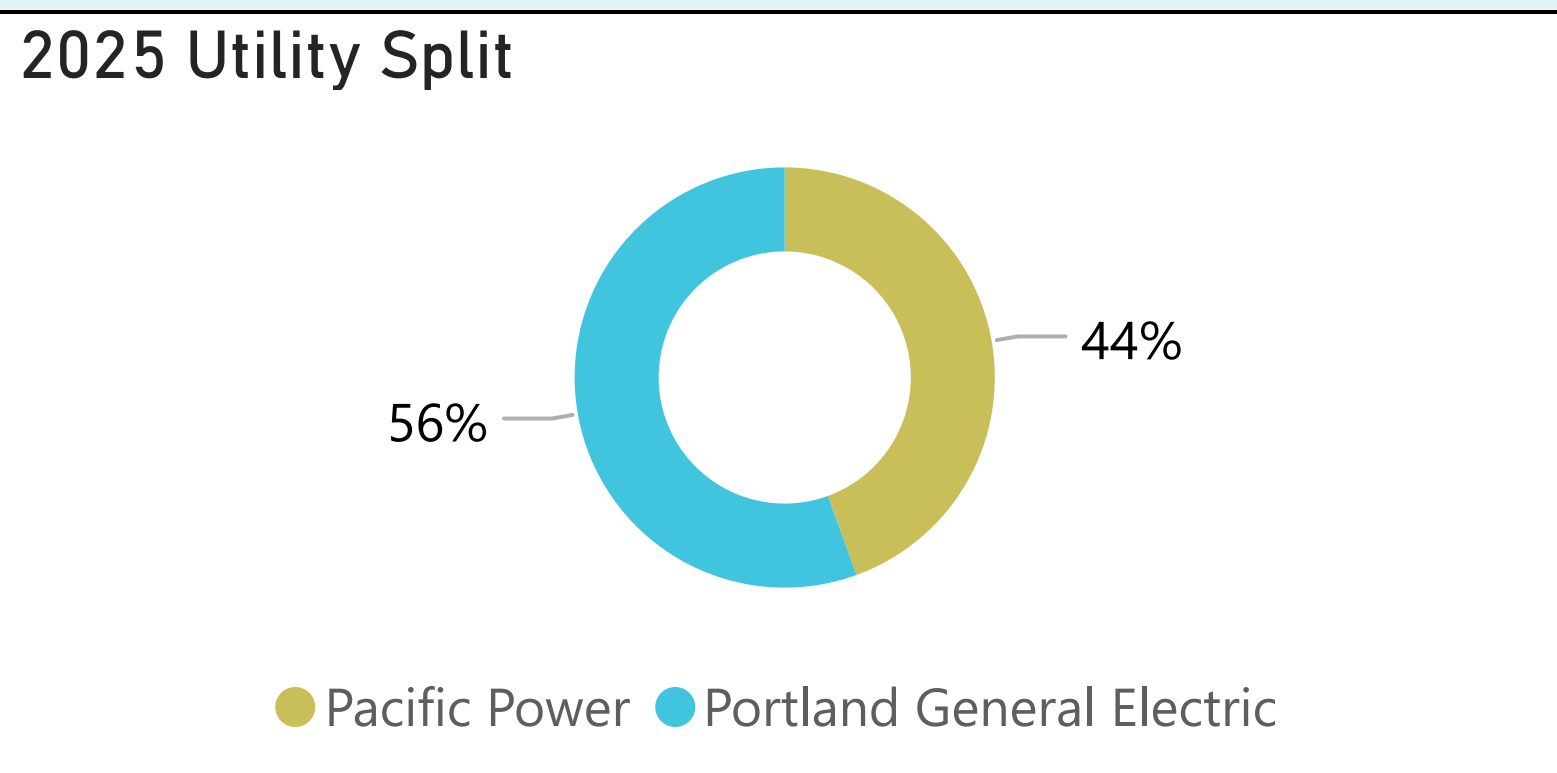
**2474**  
Installation Phase\*



\*Project applications submitted 2023 - 2025 and considered in an active installation phase.

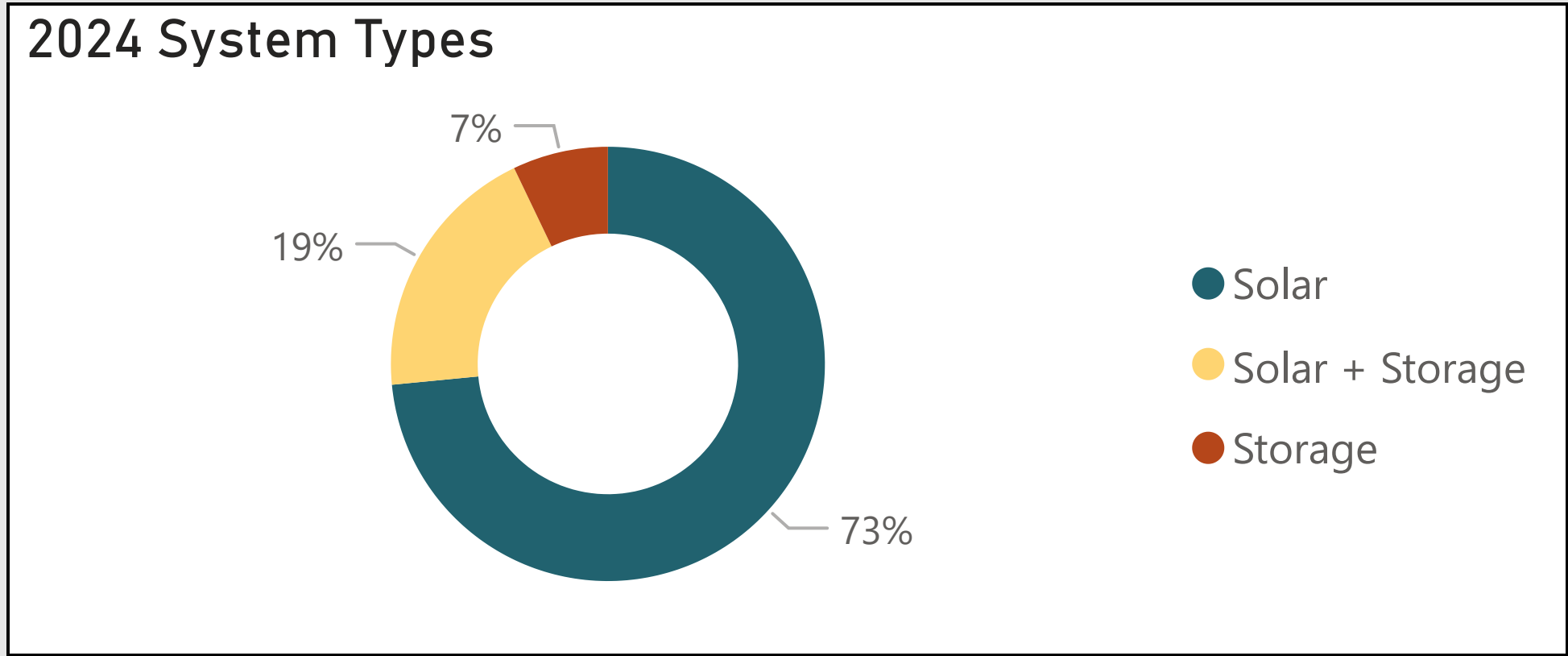
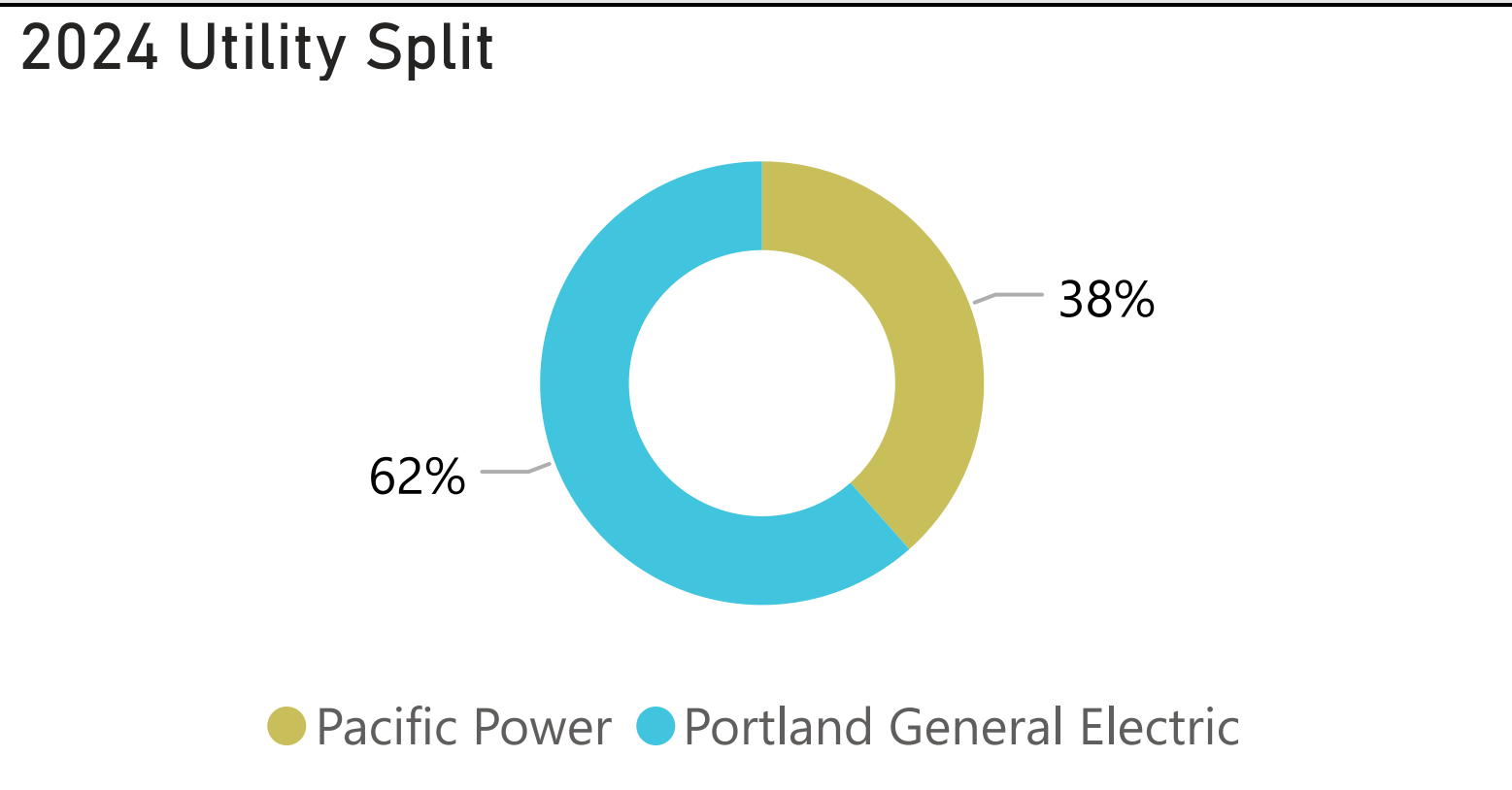
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**63**  
2025 Projects Submitted



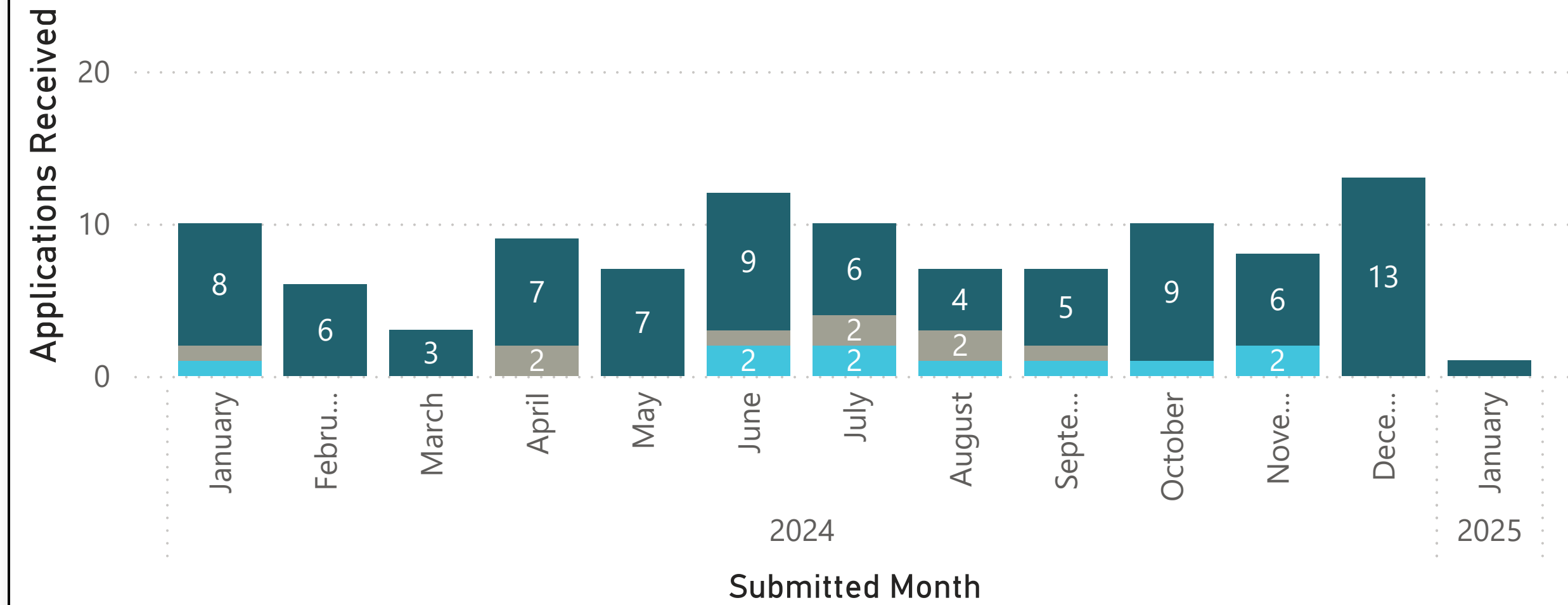
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**3641**  
2024 Projects Submitted



## PGE Business Solar-Only Applications

● Affordable Multifamily Property ● Eligible Nonprofit Organization ● Standard



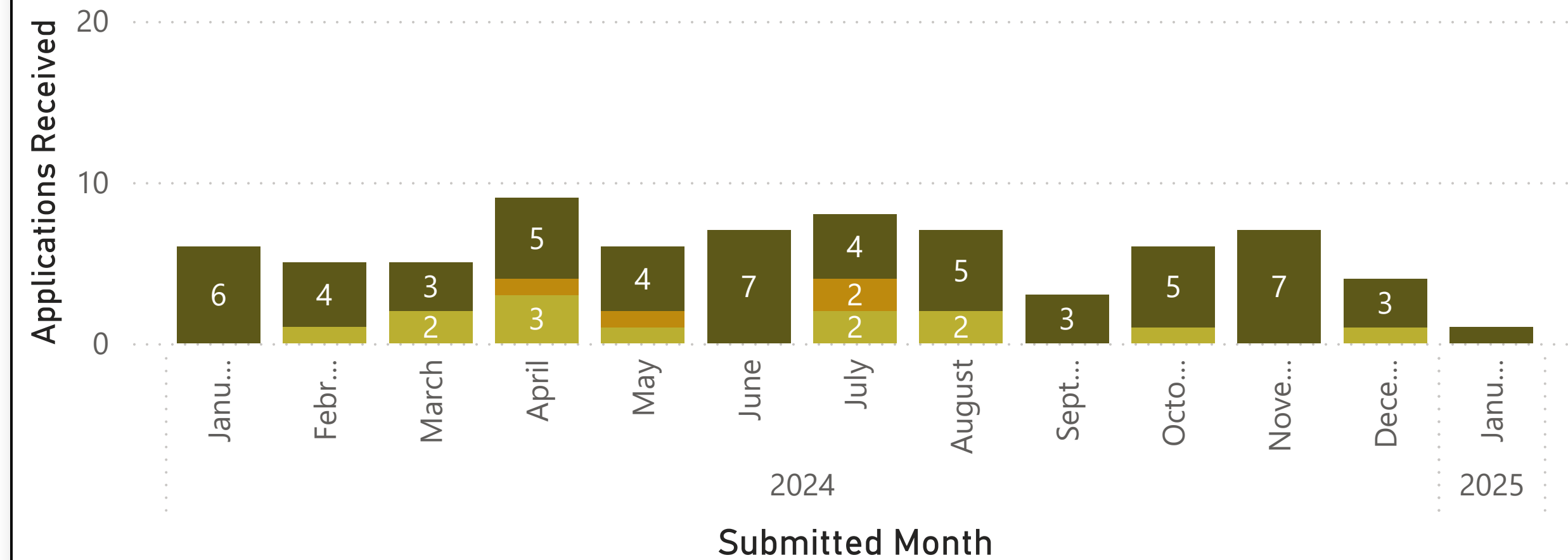
## Business Solar-Only Applications

### 2024 Business Solar-Only Applications for PGE and PAC

Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. System Cost	Avg. Cost/W DC Capacity
2024	Qtr 1	35	3,066.84	87.62	\$233,996	\$2.67
2024	Qtr 2	50	3,558.00	71.16	\$239,279	\$3.36
2024	Qtr 3	42	2,439.39	58.08	\$143,097	\$2.46
2024	Qtr 4	48	3,347.46	69.74	\$186,200	\$2.67
<b>Total</b>		<b>175</b>	<b>12,411.68</b>	<b>70.92</b>	<b>\$200,580</b>	<b>\$2.83</b>

## Pacific Power (PAC) Business Solar-Only Applications

● Affordable Multifamily Property ● Eligible Nonprofit Organization ● Standard



### 2025 Business Solar-Only Applications for PGE and PAC

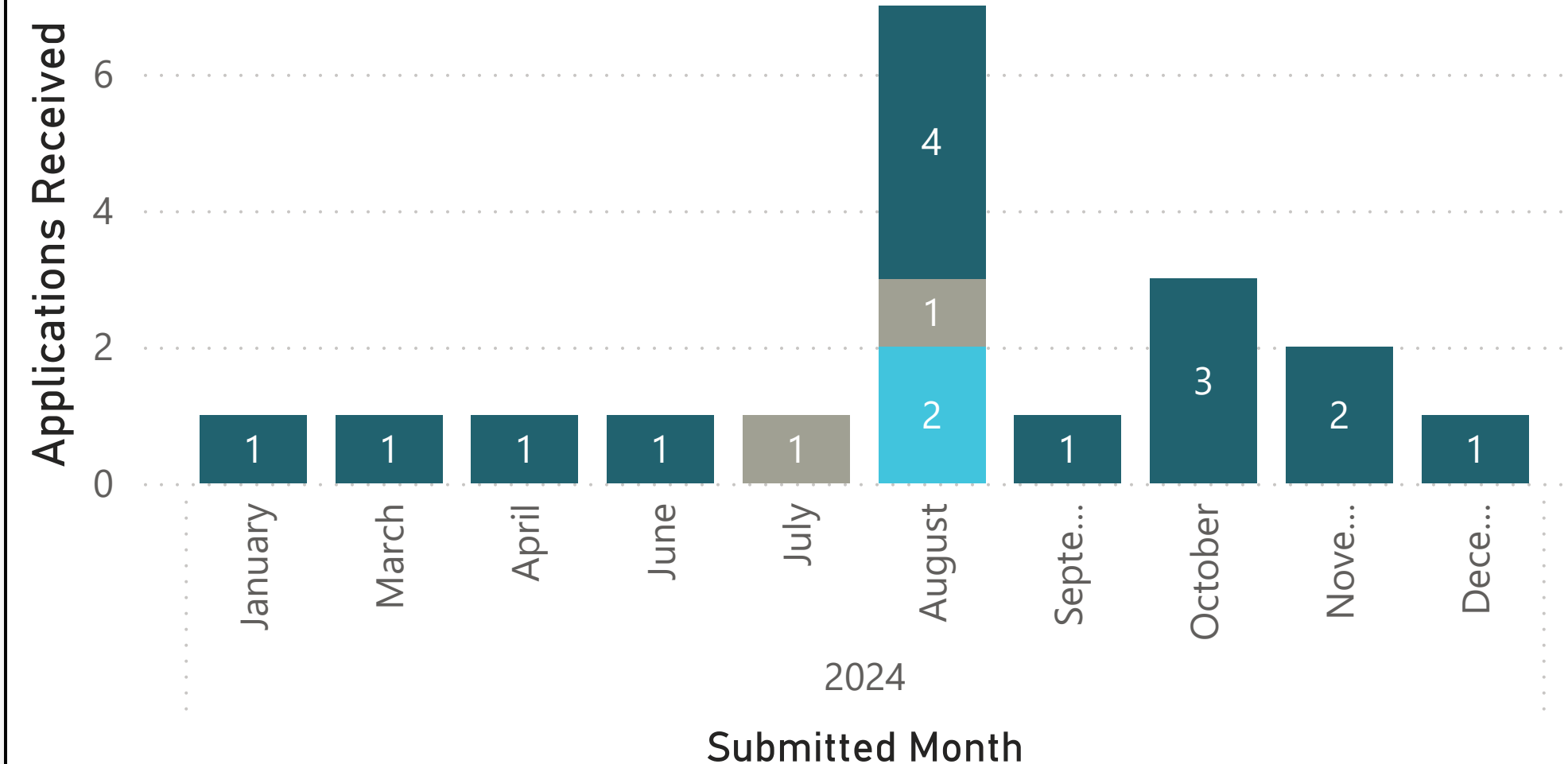
Year	Quarter	Solar Projects	Total DC Capacity kW	Avg. Size kW	Avg. System Cost	Avg. Cost/W DC Capacity
2025	Qtr 1	2	332.90	166.45	\$344,365	\$2.07
<b>Total</b>		<b>2</b>	<b>332.90</b>	<b>166.45</b>	<b>\$344,365</b>	<b>\$2.07</b>

**Total Commercial Solar-Only Projects 2003-2023 = 2560**



## PGE Business S+S Applications

● Affordable Multifamily Property ● Eligible Nonprofit Organization ● Standard



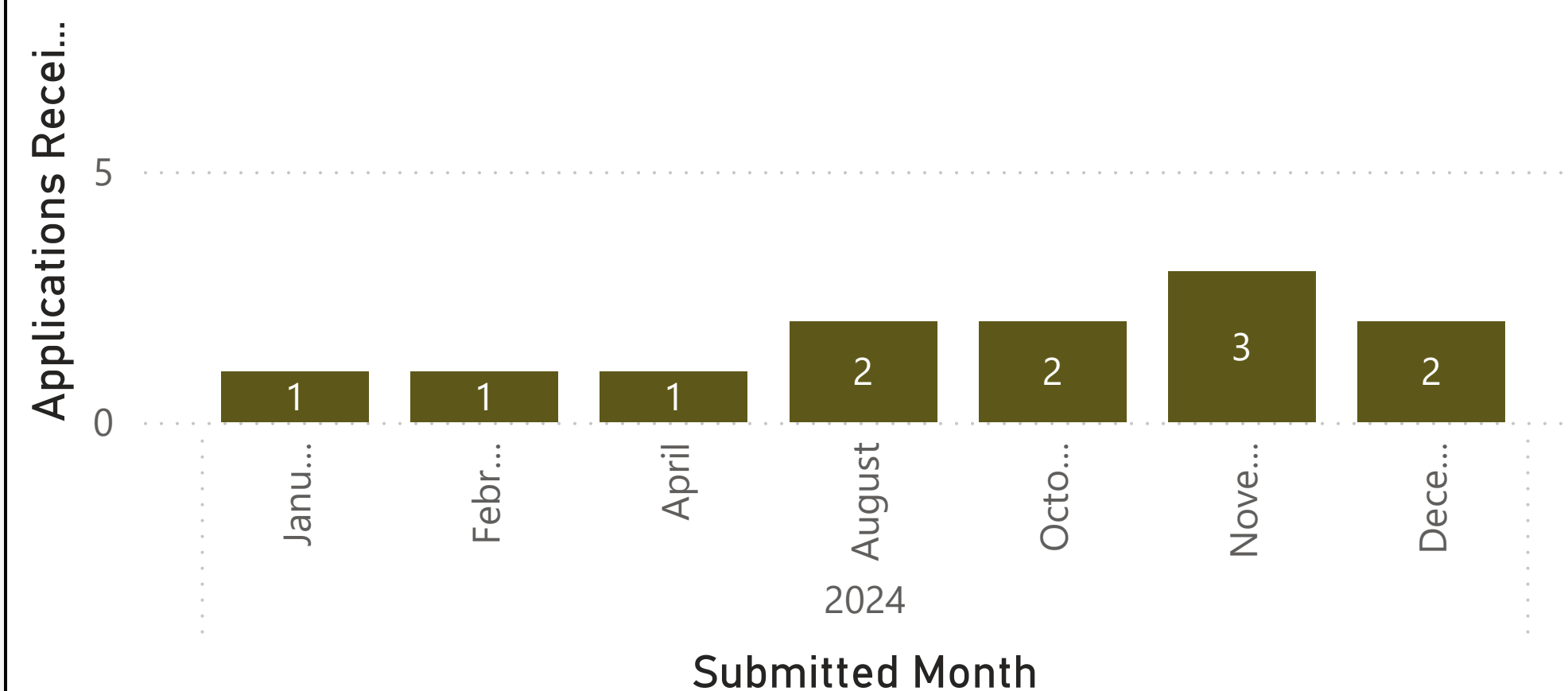
## Business Solar + Storage Applications

### 2024 Business Solar + Storage Applications for PGE and PAC

Year	Quarter	S+S Projects	Avg. Solar Cost	Total Solar Capacity kW	Avg. Solar Capacity kW	Avg. System Cost/W DC Capacity	Avg. Storage Capacity kWh	Avg. Storage Cost/kWh
2024	Qtr 1	4	\$101,561	132.11	33.03	\$3.76	28.73	\$791
2024	Qtr 2	3	\$199,909	300.68	100.23	\$2.69	24.55	\$2,827
2024	Qtr 3	11	\$189,967	727.54	66.14	\$5.31	145.52	\$1,109
2024	Qtr 4	13	\$291,075	1238.28	95.25	\$3.64	57.88	\$962
<b>Total</b>		<b>31</b>	<b>\$221,922</b>	<b>2398.60</b>	<b>77.37</b>	<b>\$4.03</b>	<b>81.99</b>	<b>\$1,101</b>

## Pacific Power (PAC) Business S+S Applications

● Standard



### 2025 Business Solar + Storage Applications for PGE and PAC

Year	Quarter	S+S Projects	Avg. Solar Cost	Total Solar Capacity kW	Avg. Solar Capacity kW	Avg. System Cost/W DC Capacity	Avg. Storage Capacity kWh	Avg. Storage Cost/kWh
2025	Qtr 1	0						



# Business Battery Storage\* Applications

Application details will be made available at a later date

\*Battery Storage systems added to existing solar systems

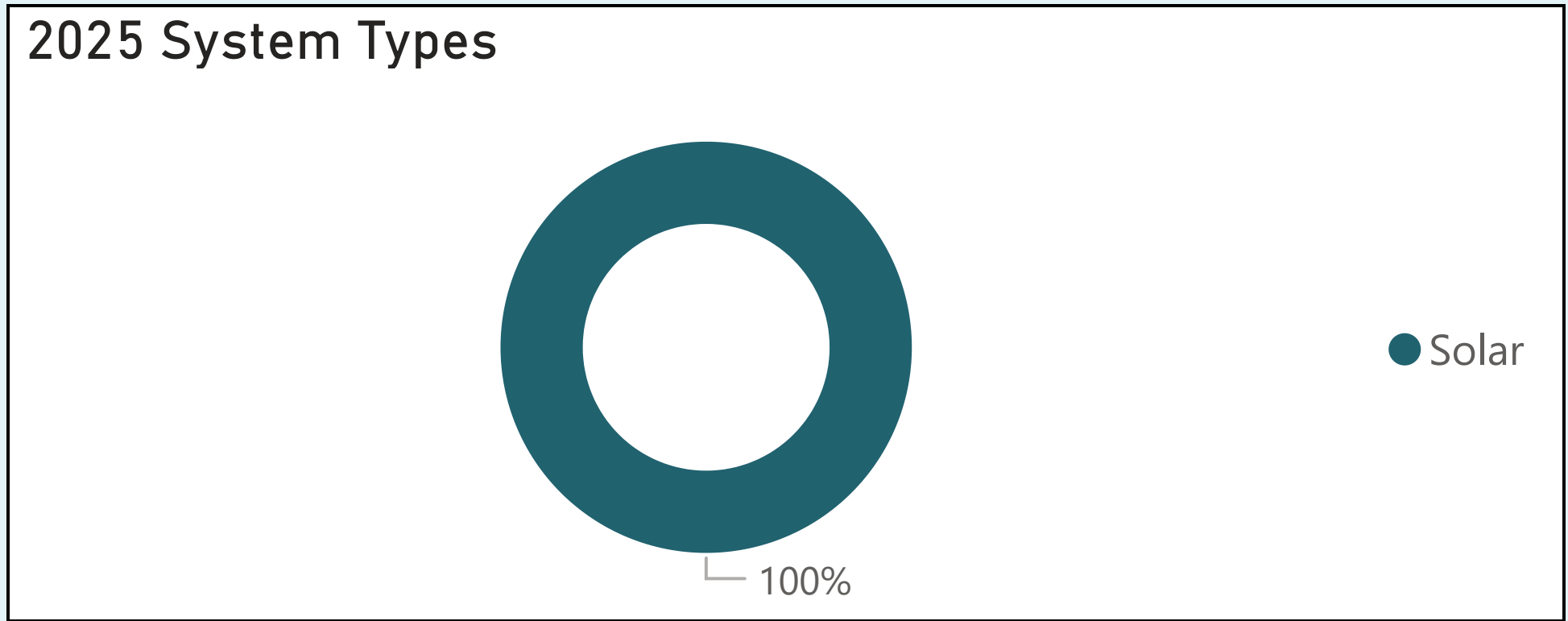
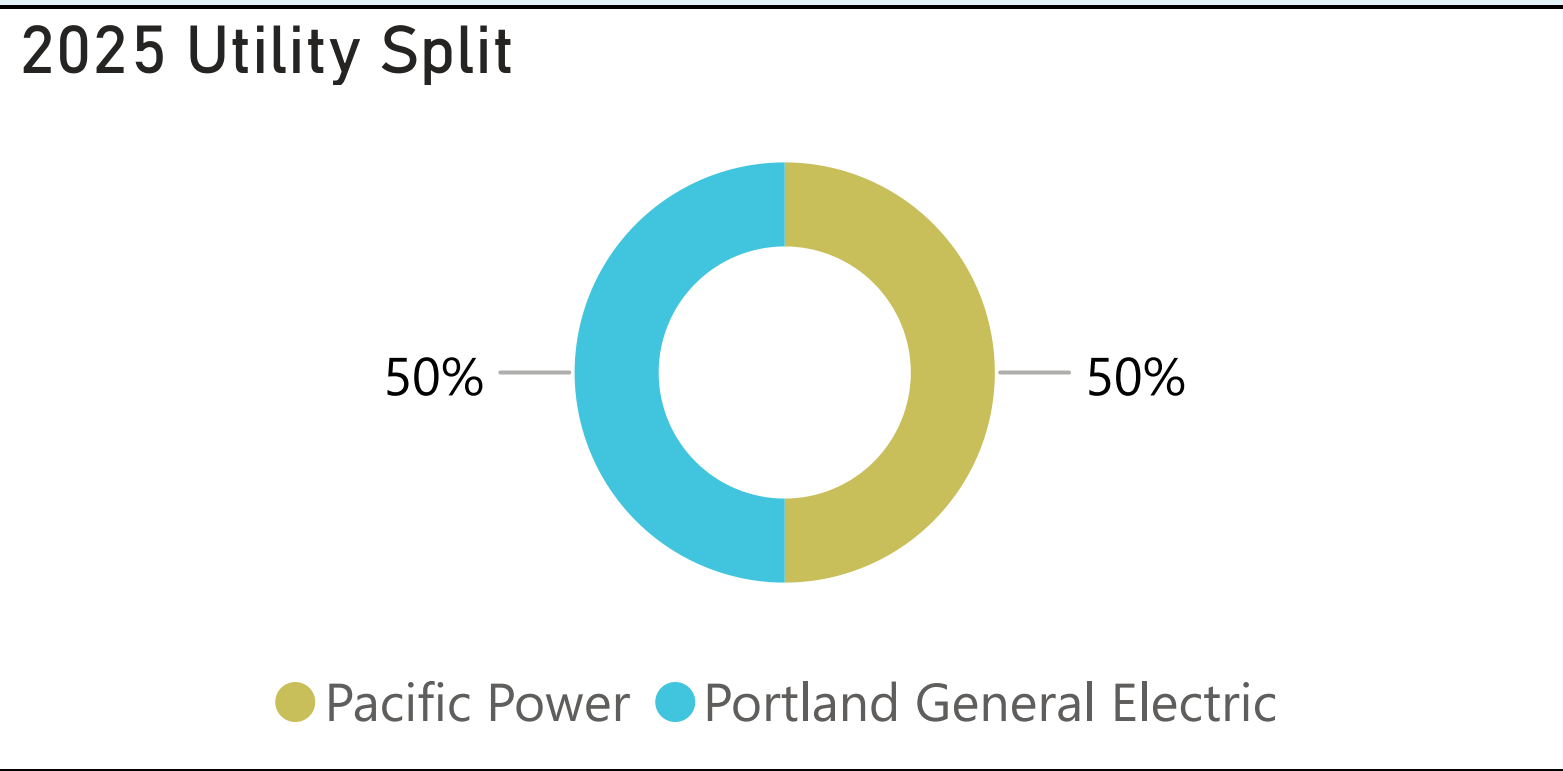
# Additional Business Application Details

**249**  
Installation Phase\*

\*Project applications submitted 2023 - 2025 and considered in an active installation phase.

2  
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2  
5

**2**  
2025 Projects Submitted



2  
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2  
4

**207**  
2024 Projects Submitted

