

# Subscription Sizing and Expected Annual Savings

## PORTLAND GENERAL ELECTRIC CUSTOMERS

The Oregon Community Solar Program offers low-income participants guaranteed electricity bill discounts. This document will help you understand how discounts are calculated and how much you can expect to save through this program. Many of the terms and information found below can be found within your contract.

### Definition of Terms:

**Household electricity consumption (kWh)** is the amount of electricity your household consumes throughout the year. Reference past utility bill(s) to find your monthly (and annual) consumption.

**Electricity Costs** are based on a number of variable and fixed costs, including electricity charges, taxes, fees, credits and adjustments. Reference past utility bill(s) to help determine your annual costs.

**Energy Adjustment (%)** determines how much of your historical energy usage (up to 5 years) is sourced into the size of your solar subscription. This is calculated by either your project manager, Energy Trust of Oregon, or both. We recommend sizing your subscription at 80% of your total annual energy use. The final energy adjustment (%) is decided by your project manager, you, or both.

**Solar Production (kW)** is the amount of expected solar energy that you can access through your subscription every year. It is based on your historical energy usage (kWh) multiplied by your energy adjustment (%).

**Subscription Size (kW)** is based on your household electricity consumption (kWh), energy adjustment (%) and solar panel production (kWh per kW). Any change to one or more of these variables will impact your total solar subscription size.

**Bill Savings:** Calculated as the difference between bill credits and subscription fees.

**Bill Credits** are calculated as your bill credit rate (\$/kWh) multiplied by total solar production (kWh) throughout the year. The bill credit rate is a fixed amount per kWh and is the same for all utility customers of Portland General Electric.

**Subscription Fees** are calculated as your subscription fee rate (\$/kWh) multiplied by total solar production (kWh) throughout the year. The subscription fee rate is a fixed amount per kWh determined by your project manager and is at least 20% less than the bill credit rate.

**Percent Savings** are calculated as your annual solar savings divided by your annual electricity costs.

#### Example 1: Family of 4 living in a single-family detached home

Annual electricity consumption:	18,000 kWh
Recommended Subscription Size:	80%
Solar Subscription Size:	8 kW
Annual Savings:	\$323.57
Percent Savings:	14.09%

#### Example 2: Couple living in apartment

Annual electricity consumption:	7,500 kWh
Recommended Subscription Size:	80%
Solar Subscription Size:	3.3 kW
Annual Savings:	\$134.82
Percent Savings:	13.17%

*A complete savings chart can be found on the back.*

*Please refer to your utility bills and household consumption to help you understand savings available through this program.*

# PGE Savings Chart

Annual Electricity Costs	Household Electricity Consumption (kWh)	Energy Adjustment	Solar Subscription (kWh)	Subscription Size (1800 kWh/kW)	Annual Bill Credits	Annual Subscription Fees	Annual Savings	Percent Savings
\$393.21	2,000	80%	1,600	0.89	\$179.74	\$143.80	\$35.95	9.14%
\$487.65	2,500	80%	2,000	1.11	\$224.68	\$179.74	\$44.94	9.21%
\$582.08	3,000	80%	2,400	1.33	\$269.62	\$215.69	\$53.92	9.26%
\$676.51	3,500	80%	2,800	1.56	\$314.55	\$251.64	\$62.91	9.30%
\$770.95	4,000	80%	3,200	1.78	\$359.49	\$287.59	\$71.90	9.33%
\$865.38	4,500	80%	3,600	2	\$404.42	\$323.54	\$80.88	9.35%
\$959.81	5,000	80%	4,000	2.22	\$449.36	\$359.49	\$89.87	9.36%
\$1,054.25	5,500	80%	4,400	2.44	\$494.30	\$395.44	\$98.86	9.38%
\$1,148.68	6,000	80%	4,800	2.67	\$539.23	\$431.39	\$107.85	9.39%
\$1,243.11	6,500	80%	5,200	2.89	\$584.17	\$467.33	\$116.83	9.40%
\$1,337.55	7,000	80%	5,600	3.11	\$629.10	\$503.28	\$125.82	9.41%
\$1,431.98	7,500	80%	6,000	3.33	\$674.04	\$539.23	\$134.81	9.41%
\$1,526.41	8,000	80%	6,400	3.56	\$718.98	\$575.18	\$143.80	9.42%
\$1,620.85	8,500	80%	6,800	3.78	\$763.91	\$611.13	\$152.78	9.43%
\$1,715.28	9,000	80%	7,200	4	\$808.85	\$647.08	\$161.77	9.43%
\$1,809.72	9,500	80%	7,600	4.22	\$853.78	\$683.03	\$170.76	9.44%
\$1,904.15	10,000	80%	8,000	4.44	\$898.72	\$718.98	\$179.74	9.44%
\$1,998.58	10,500	80%	8,400	4.67	\$943.66	\$754.92	\$188.73	9.44%
\$2,093.02	11,000	80%	8,800	4.89	\$988.59	\$790.87	\$197.72	9.45%
\$2,187.45	11,500	80%	9,200	5.11	\$1,033.53	\$826.82	\$206.71	9.45%
\$2,281.88	12,000	80%	9,600	5.33	\$1,078.46	\$862.77	\$215.69	9.45%
\$2,376.32	12,500	80%	10,000	5.56	\$1,123.40	\$898.72	\$224.68	9.45%
\$2,470.75	13,000	80%	10,400	5.78	\$1,168.34	\$934.67	\$233.67	9.46%
\$2,565.18	13,500	80%	10,800	6	\$1,213.27	\$970.62	\$242.65	9.46%
\$2,659.62	14,000	80%	11,200	6.22	\$1,258.21	\$1,006.57	\$251.64	9.46%
\$2,754.05	14,500	80%	11,600	6.44	\$1,303.14	\$1,042.52	\$260.63	9.46%
\$2,848.48	15,000	80%	12,000	6.67	\$1,348.08	\$1,078.46	\$269.62	9.47%
\$2,942.92	15,500	80%	12,400	6.89	\$1,393.02	\$1,114.41	\$278.60	9.47%
\$3,037.35	16,000	80%	12,800	7.11	\$1,437.95	\$1,150.36	\$287.59	9.47%
\$3,131.78	16,500	80%	13,200	7.33	\$1,482.89	\$1,186.31	\$296.58	9.47%
\$3,226.22	17,000	80%	13,600	7.56	\$1,527.82	\$1,222.26	\$305.56	9.47%
\$3,320.65	17,500	80%	14,000	7.78	\$1,572.76	\$1,258.21	\$314.55	9.47%
\$3,415.08	18,000	80%	14,400	8	\$1,617.70	\$1,294.16	\$323.54	9.47%

Disclaimer: Please note that the numbers and figures represented above are based on a number of variable factors and assumptions. This chart is intended as a guide to help illustrate potential savings yet any change to one of these variables (e.g. your electricity consumption year-over-year or energy adjustment percentage) will impact all calculations illustrated above. As such, individual savings will vary on a case-by-case basis.

**We support you.** If you find that you need extra assistance, please feel free to reach out to us at:

CommunityEnergyProject.org

Community Solar Coordinator: 971-544-8718 | solar@communityenergyproject.org