



City of Wilsonville Renewables Narrative

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Wilsonville's Objective & Goals



Objective & goals

Objective:

Tell the story of how Wilsonville is increasing usage of renewables (2016-2021)

Story goals:

1. Provide an overview of the city and community's increasing use of renewable power in the context of regional and US EPA national context
2. Present PGE's various renewable programs over time
3. Segment the market among residential and commercial/industrial customers
4. Include PGE customer contacts by customer segment



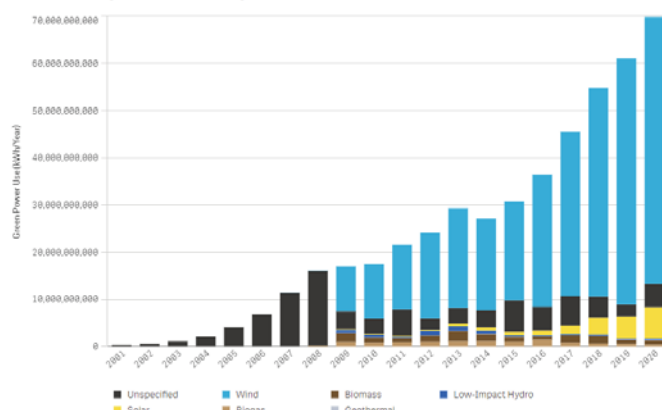
U.S. Renewable Energy Market



We're part of a national trend

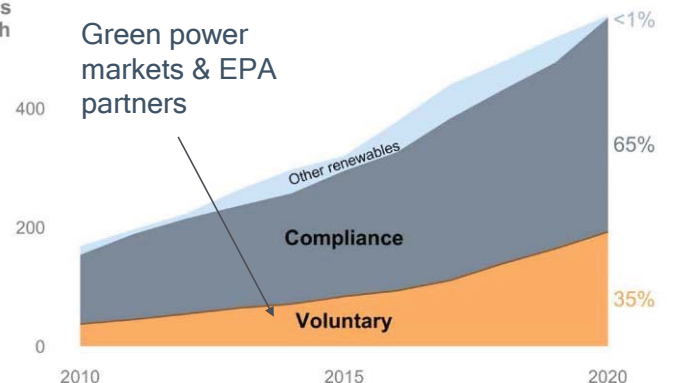
- 7.5 million customers procured 192 billion kWh of renewable energy through voluntary green power markets. (In 2020 U.S. electricity sales totaled 3.7 trillion kWh).
- 100s of EPA Green Power Partners together purchased a total of 44.76 billion kWh
- 11 EPA Green Power Communities (GPCs) in Oregon and 118 in the US purchased 7.46 billion kWh

Green Power Use by Renewable Resource by Collection Year



Sources: [Meet Our Partners | US EPA](#),
[Program Data Viewer | US EPA](#), [Green Power Communities List | US EPA](#) (2020)

Millions of MWh



Source: [Status and Trends in the Voluntary Market \(2020 Data\) \(nrel.gov\)](#)



City of Wilsonville & Renewable Energy



Our renewables journey began in 2014

2014: Entered EPA Green Power challenge and joined PGE's Clean Wind¹ program

2015: Became an EPA Green Power Partner² & EPA Green Power Community³

2016: Enrolled City of Wilsonville SMART in PGE's Clean Wind¹ program at 100%

2019: Enrolled in PGE's bundled renewable energy program to bring Oregon's largest solar facility to Gilliam County

2020-2021: Increased annual participation in PGE Clean Wind¹ by over 300 MWh

2022: Committed to reaching 100% renewable energy matching with a purchase of renewable energy certificates through PGE's Green Future Enterprise (from 94,913 to 278,558 kWh).

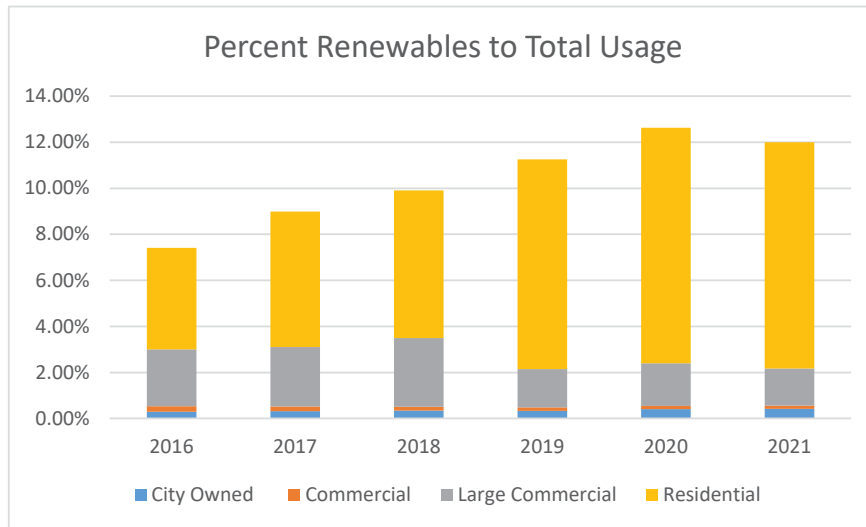
¹ PGE rebranded its Clean Wind program under the Green Future program umbrella. The program is now called Green Future Enterprise (GFE). GFE is a renewable energy certificate program. Renewable Energy Certificates (REC) do not contain electricity. A REC represents the environmental benefits of 1 megawatt hour (MWh) of renewable energy that can be paired with electricity. Green Future Enterprise is a Green-e® Energy certified REC product. PGE is also supplying your electricity. Green-e® Energy has only certified the RECs, which may be sourced from outside of your local electricity distribution area. For more information, see www.green-e.org/rec

² EPA Green Power Partner requires 7% of total usage to be renewable energy purchases (over 100,000,001 kWh/year)

³ EPA Green Power Community requires at least 5% of a community's total usage to be renewable energy purchases



Increased renewable energy¹ purchases, as a percent of total usage, from 8% to 12% in 5 years

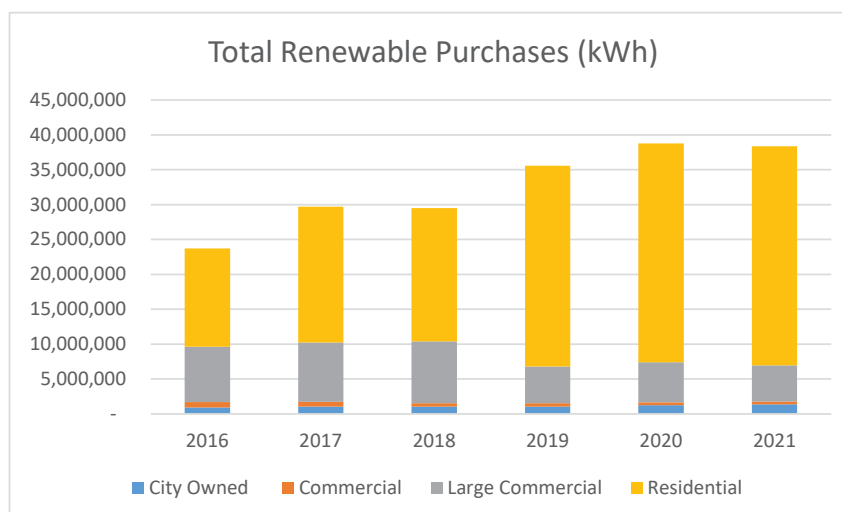


- Residential customers lead renewables growth from 4.5% to 9.8%
- City owned renewables purchases (blue bar) increased from 0.29% to 0.42%

Source: PGE EPA Reports 2016-2021. 2016 and 2017: Total commercial usage included large commercial usage. 2018 - 2021 Total commercial usage excluded large commercial usage.
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The Wilsonville community increased renewable kWh¹ purchases by 62%

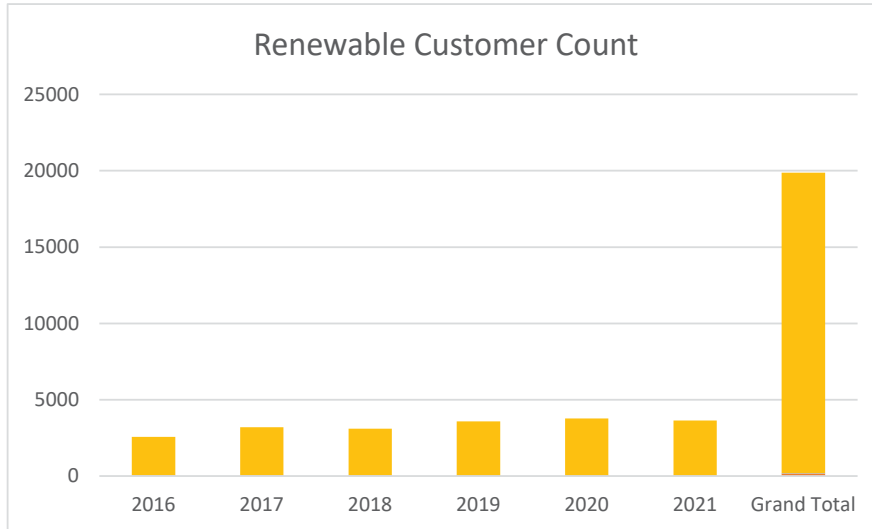


- Residential customers lead renewables growth from 14mm to 31mm kWh
- City owned renewables purchases (green bar) increased 45% - from 927k kWh to 1,347k kWh

Source: PGE EPA Reports 2016-2021. 2016 and 2017: Total commercial usage included large commercial usage. 2018 - 2021 Total commercial usage excluded large commercial usage.
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Wilsonville increased the number of customers purchasing renewable energy¹ by 41% in 5 years



- The residential segment drove this trend increasing from 2,542 customers purchasing renewables in 2016 to 3,624 in 2021

Source: PGE EPA Reports 2016-2021. 2016 and 2017: Total commercial usage included large commercial usage. 2018 - 2021 Total commercial usage excluded large commercial usage. 2021 Customer Count: Residential: 3624, City Owned: 1, Commercial: 18, Large Commercial: 7

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Wilsonville's estimated annual generation from onsite solar is just under 2 m kWh per year

Customer Segment	Number of Customers	kW Installed Capacity	kWh Est. Annual Generation
Residential	155	1,069	1,218,000
Small Commercial	5	133	151,000
Large Commercial	8	528	602,000
Total	168	1,729	1,971,000

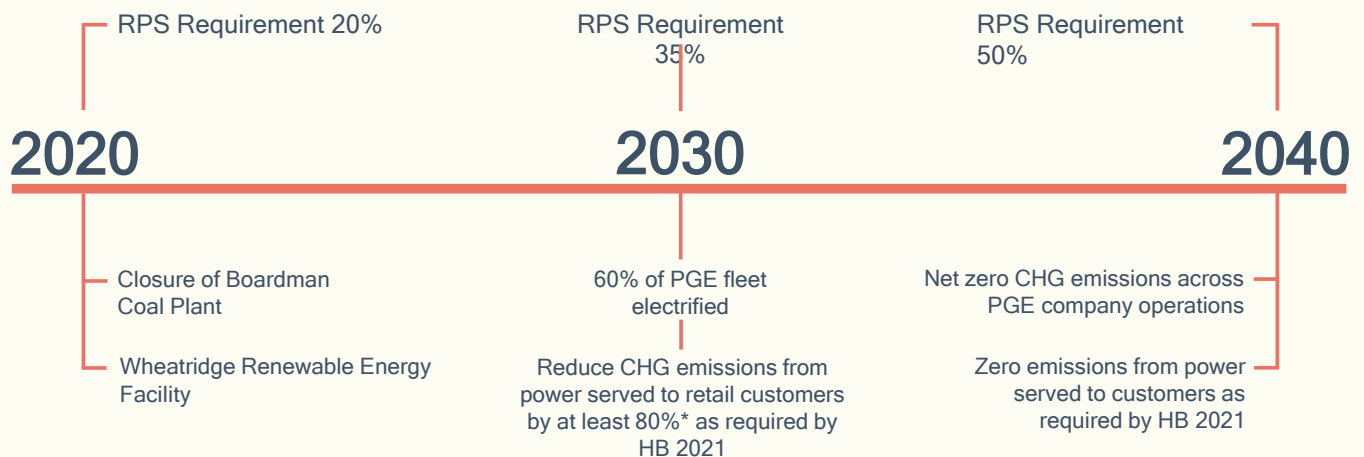
Installed capacity from PGE (PowerClerk). Estimated annual generation based on solar radiation data and average system assumptions from PVWatts. PGE does not report solar generation in the EPA annual reports



PGE & Clean Energy



PGE Milestones for a clean energy future



RPS=Renewable Portfolio Standard

*Below baseline period, defined in HB 2021 as the average annual CHG emissions for 2010, 2011 and 2012 associated with the electricity sold to retail electricity customers as reported to DEQ.



PGE's voluntary programs help customers achieve their clean energy goals faster

The City of Wilsonville is part of a community of more than 225,000 like-minded leaders, who've made PGE's Green Future the No. 1 renewable power program in America.¹

Wilsonville's participation in PGE's Green Future programs supports renewable energy projects and jobs in Oregon.

Residents, businesses and the city lower the carbon footprint associated with their electricity use.



¹ According to National Renewable Energy Laboratory Top 10 rankings of Green Power Sales, Customers, Sales Rate, Participation Rate, [Top Ten Utility Green Pricing Programs \(2020 data\) \(nrel.gov\)](#)

Recognition benefits offered through Green Future Enterprise

Green Future[™] Enterprise Marketing toolkit

Clean energy. It's how you do business. By sharing your support of local, renewable energy, you just might inspire your customers, employees and community to do the same — creating an Oregon kind of energy. Here are some guidelines to help you promote your participation in Green Future Enterprise.

Marketing messages

You can use these play-and-learn messages to explain what your business is doing. Go ahead and put your own spin on them to fit your unique brand voice.

"Our company is proud to support a clean energy future for Oregon by choosing PGE's Green Future[™] Enterprise renewable option."

"By making a commitment to renewable energy, we are joining more than 225,000 households and businesses who are demonstrating their environmental stewardship."

"By choosing Green Future[™] Enterprise from PGE, we're helping drive the demand for new renewable energy sources."

These are great messages to include in materials about community events, sponsorships or Earth Day, to name a few. You can use them in employee communications, newsletters, blogs, social media and other channels.

Digital stickers

Live up your website while showing off your environmental stewardship with our Green Future digital stickers. Just make sure you link the graphic to [portlandgeneral.com/greenfuture](#).



Website

Spread the word of renewable energy for and with. All we ask is that you point your visitors to [portlandgeneral.com/greenfuture](#) so they can get the latest information about our renewable energy programs.

Window decal

Decorate any building or vehicle window while proudly promoting clean energy with these removable decals. Need more? Just let us know.



Social media

Help us get the word out. Follow us and tag us when you post about Green Future Enterprise.

Facebook: [@PortlandGeneralElectric](#)
Twitter: [@PortlandGeneral](#)
Instagram: [@PortlandGeneral](#)
LinkedIn: [linkedin.com/company/portland-general-electric](#)
YouTube: [PortlandGeneralElectric](#)

Here's to the leaders in our community! Thank you for choosing Green Future[™] Enterprise.

26 TAYLOR BUILDING • A TO Z WINERIES • AJINOMOTO • ARCTIC WINERY
ABB EVERGREEN DATA CENTER • BOEING • BREW DR. KOMBUCHA • BRUCE PAC
BUNDLESVILLE • C&S TUMMI • CASSADINE TRISHA GROUP OREGON • CATELIN DANIEL
CELLISTICA • CITY OF BEAVERTON • CITY OF CLATSOP • CITY OF HILLSBORO
CITY OF LAKE OSWEGO • CITY OF PORTLAND BUREAU OF ENVIRONMENTAL SERVICES
CITY OF SALEM • CITY OF WILSONVILLE • CLACKAMAS COUNTY
COLLINS, ROBERT NORTHWEST • COLLINS ARBORVITAE • COMPUTER FORMS
CROSBY HOP PADS • DAMLER TRUCK • DAVE'S KILLER BREAD • DESCHUTES BREWERY
DIGIMARC CORPORATION • ECOTRUST BUILDING • ELEPHANT'S DELICATESSEN
ERSON PORTLAND • ESCO • EVRAZ • FEL COMPANY • FORD'S BROOM DOG PARK
GARMAN • GENESEECH • GOSY WALNUT • GRAND CENTRAL BAKERY
GREEN ZEBRA GROCERY • HAMPTON LUMBER-WILLAMINA • INTEL
JENSEN SEMICONDUCTOR • JES MICRO • KANTO CORPORATION • KEEN FOOTWEAR
LATTICE SEMICONDUCTOR • LEGACY HEALTH • LEOPOLD & STEVENS • LIGHTBOX JEWELRY
LINDE GAS NORTH AMERICA • LKPF DISTRIBUTION • LUCKY LION • MEIER & FRANK DEPOT
MERCY CORP • METRO • MICROCHIP TECHNOLOGY • MULTNOMAH ATHLETIC CLUB
NATIONAL UNIVERSITY OF NATURAL MEDICINE • OAKS • OAKS • OAKS SEMICONDUCTOR
OREGON STATE BAR • OREGON STATE LOTTERY • OREGON ZOO
ORGANICALLY GROWN COMPANY • OUR LADY OF THE LAKE • OVHCLOUD
PACIFIC FRONT FARMS • PCC SYLVANIA • PERD CONSTRUCTION
PORTLAND POWDER COATING • PORTLAND TIMBERS • PRATT • LARSON
PROVIDENCE HEALTH & SERVICES • REGENTX • REPUBLIC SERVICES
ROCK CREEK • ROSE WILLY • SALEM HEALTH • SCHMITZER STEEL PRODUCTS
SHAWNEE REALTY & PAULUS • SHI TRADING CORPORATION • STAPLES
STIMSON LUMBER • SUNSET ATHLETIC CLUB • SUPREME PERILITE
SWIRE PACIFIC HOLDINGS • TEKTRONIX • THE ALBI TIKI ROOM
THE ALI HORN INN & SPA • THE STANDARD • TOKYO ELECTRON U.S. HOLDINGS
TOSHIBA QUARTZ • TOYOTA LOGISTICS SERVICES • TRIMET • TROQUET SEMICONDUCTOR
TUALITY HEALTHCARE • TUALATIN HILLS PARK & RECREATION DISTRICT
UNIVERSITY OF PORTLAND • U.S. BANK • US VETERANS HOSPITAL CENTER
VERNER SOFTWARE & TECHNOLOGY • VIDOR • WIDENHEIMNEDY
WILLAMETTE UNIVERSITY • WILLAMETTE VALLEY VINEYARDS
XXIOX • YAKIMA PRODUCTS

Together, you're helping create a clean energy future for all of Oregon.



[portlandgeneral.com/greenfuture](#)

Headline and social tags: Green Future Enterprise logo is a trademark of PGE. All other trademarks are the property of their respective owners.



City of Wilsonville and PGE partnership



Thank you for
your partnership!

- Electric Avenue
- EV charging
- Smart street lighting pilots
- Water meter readings
- Green Future Programs



Pachwaywit Fields

**Let's
meet the
future
together.**



Appendix



PGE website links

[Home \(portlandgeneral.com\)](http://portlandgeneral.com)

[Clean Energy Choices \(portlandgeneral.com\)](http://portlandgeneral.com)

[Green Power | Green Future Choice Renewable Power | PGE \(portlandgeneral.com\)](http://portlandgeneral.com)

[Green Future Enterprise | PGE \(portlandgeneral.com\)](http://portlandgeneral.com)

[Green Future Impact for Business - PGE \(portlandgeneral.com\)](http://portlandgeneral.com)



PGE contacts

Commercial and industrial renewable programs

GreenFutureEnterprise@pgn.com

GreenFutureImpact@pgn.com

Lisa.DiMartino@pgn.com

Tiffany.Delgado@pgn.com

1-800-542-8818

Residential renewable programs

GreenFuture@pgn.com

1-800-542-8818



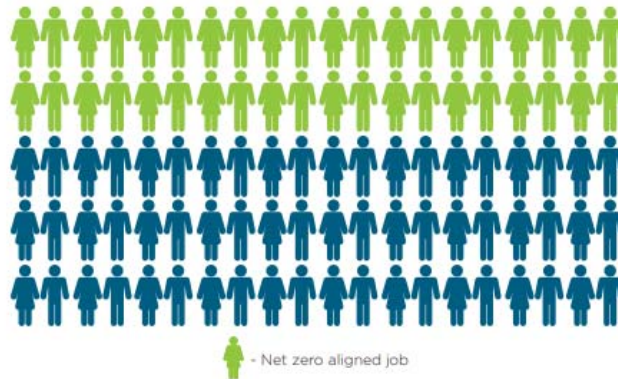
Clean energy jobs are growing in the U.S. and globally

2022 U.S. ENERGY AND EMPLOYMENT REPORT FACT SHEET



JOBS IN NET-ZERO ALIGNED AREAS

Jobs in net-zero emissions aligned areas made up approximately 40% of total energy jobs in 2021.



“The transition to clean energy is expected to generate 10.3 million net new jobs globally by 2030.

That will offset the 2.7 million jobs expected to be lost in fossil fuel sectors. “

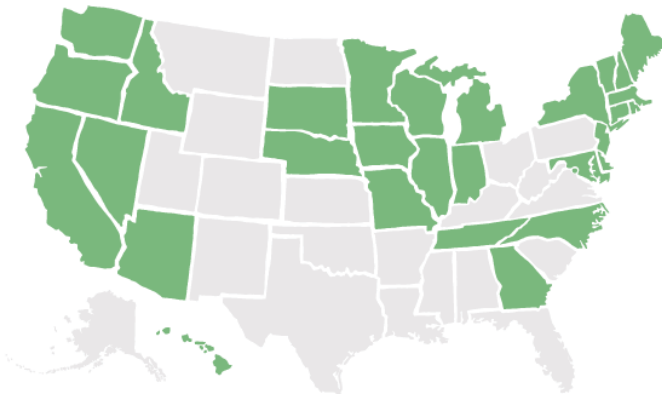
Source: [World Economic Forum \(weforum.org\)](https://www.weforum.org)

Source: [U.S. Energy & Employment Jobs Report \(USEER\) 2022 Fact Sheet](#)



Oregon is leading the way in creating clean energy jobs

The 30 states in green show where wind and solar energy jobs outnumber coal and gas jobs.



Solar jobs : 5,265

Coal jobs: 166

Source: USEER 2022 National Report
(energy.gov) based on Union Data by State.

Source: [Environmental Defense Fund report January 2018](#)

