

# Portland Public Schools Sustainability Report

## December 2019

### Utility Dashboard

- PPS has developed a utility information dashboard, which is now live on the PPS Sustainability [website](#). It has usage and cost information on electricity, natural gas, water, and solar. You can view it as a district snapshot or you can customize your view by looking at a single year or a single school. Data is updated on a monthly basis.

### **Energy Efficiency**

- Projects completed since 2017
  - 22 whole-school LED lighting upgrades
  - 10 HVAC controls upgrades
  - 2019 contract executed for building automation system monitoring and technical assistance
    - Projected to see significant energy savings and increased occupant comfort through optimizing HVAC operation and scheduling building runtime more efficiently

### **Solar**

PPS has solar installed at 19 schools, with 4 more currently in design as part of the 2017 bond. Of those 19 schools, 13 of those solar arrays are owned and operated by the district and 6 are owned and operated by PGE. We currently have 1.3 megaWatts of (PPS owned) on-site solar installed, which can save up to 1,000 metric tons of CO2 emissions per year. See chart below for the PPS sites with on-site solar arrays and to explore the data.

School	Live kWh Generation	Address	Project	Year Installed	Solar System Size (kW)	Net Metered?	Owner
<a href="#">Rosa Parks</a>	N/A	8960 N Woolsey Ave	Rosa Parks School	2006	1.1	Yes	PPS
<a href="#">Columbia</a>	N/A	716 NE Marine	PPA Thin Film	2009	52	Yes	PPS
<a href="#">Creston</a>	<a href="#">Live Data</a>	4701 SE Bush	PPA Thin Film	2009	27	Yes	PPS
<a href="#">Jackson</a>	N/A	10625 SW 35th	PPA Thin Film	2009	159	Yes	PPS

<a href="#">Lane</a>	N/A	7200 SE 60th	PPA Thin Film	2009	60	Yes	PPS
<a href="#">Lent</a>	N/A	5105 SE 97th	PPA Thin Film	2009	100	Yes	PPS
<a href="#">Roseway Heights</a>	N/A	7334 NE Siskiyou	PPA Thin Film	2009	54	Yes	PPS
<a href="#">Scott</a>	N/A	6700 NE Prescott	PPA Thin Film	2009	120	Yes	PPS
Woodstock	N/A	5601 SE 50th	PPA Thin Film	2009	16.3	Yes	PPS
<a href="#">Arleta</a>	<a href="#">Live Data</a>	5109 SE 66th Ave	PGE Solar Project	2015	151.2	No	PGE
<a href="#">Bridlemile</a>	<a href="#">Live Data</a>	4300 SW 47th Dr	PGE Solar Project	2015	241.5	No	PGE
<a href="#">Hosford</a>	<a href="#">Live Data</a>	2303 SE 28th Pl	PGE Solar Project	2015	186.6	No	PGE
<a href="#">James John</a>	<a href="#">Live Data</a>	7439 N Charlestown Ave	PGE Solar Project	2015	216.9	No	PGE
<a href="#">Laurelhurst</a>	<a href="#">Live Data</a>	840 NE 41st Ave	PGE Solar Project	2015	108.9	No	PGE
<a href="#">Wilson</a>	<a href="#">Live Data</a>	1151 SW Vermont St	PGE Solar Project	2015	273.9	No	PGE
Franklin	<a href="#">Live Data</a>	5405 SE Woodward	2012 Bond	2017	105.484	Yes	PPS
<a href="#">Roosevelt</a>	<a href="#">Live Data</a>	6941 N	2012	2017	134.79	Yes	PPS

		Central	Bond				
Faubion	<a href="#">Live Data</a>	2930 NE Dekum	2012 Bond	2017	152.28	Yes	PPS
Grant	Coming Soon	2245 NE 36th	2012 Bond	2019	325	Yes	PPS
<b>Total</b>					<b>2.485954</b>	<b>MegaWatts</b>	

## Waste

- [Waste Management webpage](#); updated educational signage, recycling guide, FAQs, best practices resources
- Cost Savings Potential
  - The more waste we divert *out of* the landfill and *into* recycling or food waste, the more money we save
    - Landfill: \$45/haul
    - Recycling (paper, plastic, metal): **\$20/haul**
    - Food Waste (food scraps only): **\$27/haul**
- Recycling
  - Education
    - Partnership with [Metro](#) for curriculum, toolkits, and presentations on recycling and resource conservation
  - Bins
    - PPS Facilities has an inventory of ‘pop-up’ recycling bins for school use
- Food Waste
  - [Back of House](#) (kitchen collection)
    - All PPS kitchens began collecting food waste in fall 2019
  - [Front of House](#) (cafeteria/student collection)
    - 19 schools participating by January 2020, and growing
      - Abernethy, Beach, Beverly Cleary, Bridger, Duniway, East Sylvan, Faubion, Gray, Hauhrust, King, Laurelhurst, Lewis, Markham, Peninsula, Richmond, Rieke, Sabin, Sunnyside, Woodlawn
- Durables/Reusable Items (trays, utensils, cups)
  - For Fall 2019:
    - 7 schools began using durable trays
    - 5 schools began using durable utensils
    - 2 schools began using durable cups
  - Nutrition Services have comprehensive data points on participating schools

## **Transportation**

### **Survey results**

The results of the **2019** survey showed that 91.5% of BESC employees drive to work, 58% of BESC employees require the use of their car for work during the work day and **8.5%** of employees use a commute option (2.6% transit).

**Since 2015 more (BESC) employees drive and use their car for work during the work day, and fewer people use transit.**

Our recommendation and plan moving forward:

- Universal Trimet pass program - Provides transit for every BESC employee and helps incentivize alternative transportation, which reduces the district's carbon emissions and helps alleviate overcrowded parking, while providing an added benefit to district employees.

**BESC Cost:** \$15,444/ yr

- Based on 2.6% utilization and 540 BESC employees
  - DEQ surveys in 2020, requires 75% response, earliest implementation is Fall 2020.
  - Increase in cost after 2 years is capped at 30%
- Evaluating parking here at the BESC - more unassigned parking, more visitor parking.
  - Re-striping & signage for visitors spaces, carpool spaces
  - Creation of more amenities (bike parking, lockers)