



ANNUAL ENERGY REPORT

FISCAL YEAR 2020/21

CONVERTING WASTE INTO GREEN ENERGY

Part of the Sanitation Districts mission is to convert waste into resources like green energy. The agency has long been a leader in producing green energy and, in fiscal year (FY) 2020/21, produced enough electricity for 67,000 Southern California homes. About half of this electricity is used for Sanitation Districts' operations and half is available to homes and business. This means the agency **produces twice the power it needs** in addition to providing wastewater and solid waste management services for 5.6 million Los Angeles County residents! The Sanitation Districts' green electricity production reduces the power that utilities must produce (often using fossil fuels) and thereby, reduces greenhouse gas emissions. This electricity production also reduced the Sanitation Districts' electric bills by \$21 million. Extra electricity is exported to the local power grid, which provided \$5.1 million income, and reduces the cost of the agency's services to Los Angeles County's residents and businesses.

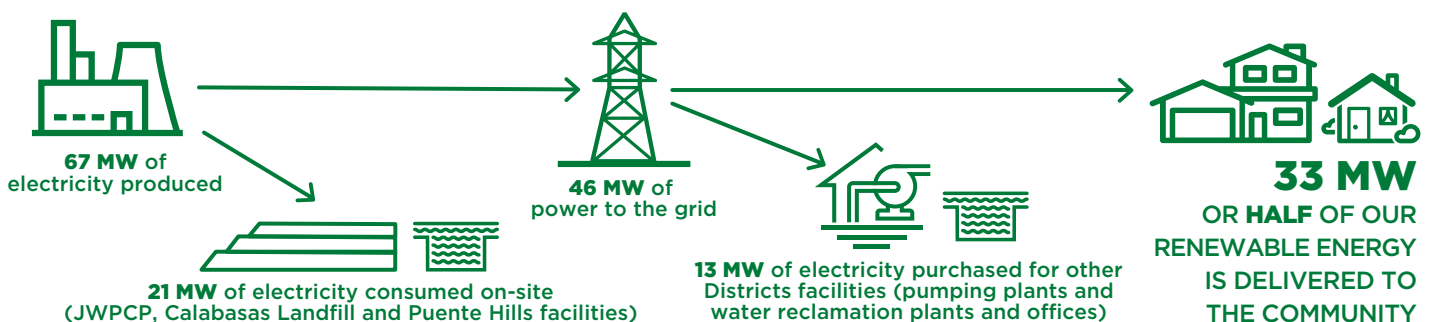
ENOUGH TO POWER ⚡ **67,000** 🏠 **HOMES** 🏠

SOURCES OF GREEN ENERGY

During FY 2020/21, the Sanitation Districts generated an average of 67 MW of electricity as illustrated below.



WHAT HAPPENS TO GREEN ENERGY



Newer Initiatives

FOOD WASTE RECYCLING

In FY 2020/21, 78,000 tons of food waste slurry were converted into electricity using the Sanitation Districts' food waste recycling program. To accommodate growing demand for this program, a biogas purification facility and new food waste receiving station were constructed in 2020 and 2021, respectively. The purified biogas is sold at the existing publicly accessible compressed natural gas (CNG) fueling station located at the agency's Joint Water Pollution Control Plant in Carson. Looking forward, the agency continues evaluating innovative ways to use the additional biogas from food waste recycling.



TRANSITIONING TO A SUSTAINABLE GREEN FLEET

Besides being a top green-energy producer, the Sanitation Districts are working towards reducing their carbon footprint. One such initiative is a move towards a vehicle fleet using green fuel.

- Over the past six years, we have been able to reduce our fleet fuel consumption from 1.1 to 0.8 million gallons per year. That's a 25% reduction! Not only was fuel consumption significantly reduced, we were able to increase our renewable fuels usage from 3% in 2016 to 50% in 2021 through expanded use of Renewable Natural Gas and Renewable Diesel.
- Over the past year, the agency upgraded its CNG stations at Puente Hills Material Recovery Facility and San Gabriel yard and commissioned a new CNG station at our Compton yard. These CNG stations are critical to the reliable supply of Renewable Natural Gas to our fleet of 90 CNG powered vehicles.
- The Sanitation Districts are also moving to electrify their fleet. Over the past four years, the agency has purchased 62 plug-in electric vehicles (EV), which has reduced our fossil fuel consumption by more than 31,000 gallons per year. To support the EV fleet, we have installed 84 EV chargers at various Sanitation Districts' facilities. At most facilities, the EV chargers are open to employees and the public to utilize at a low cost.

