

The Waste-to-Energy Cycle



Methane Gas Recovery



Gas Engine From Power Plant Generates Electricity



Input: Landfill Gas

Transmission Lines Carry Electricity Long Distances



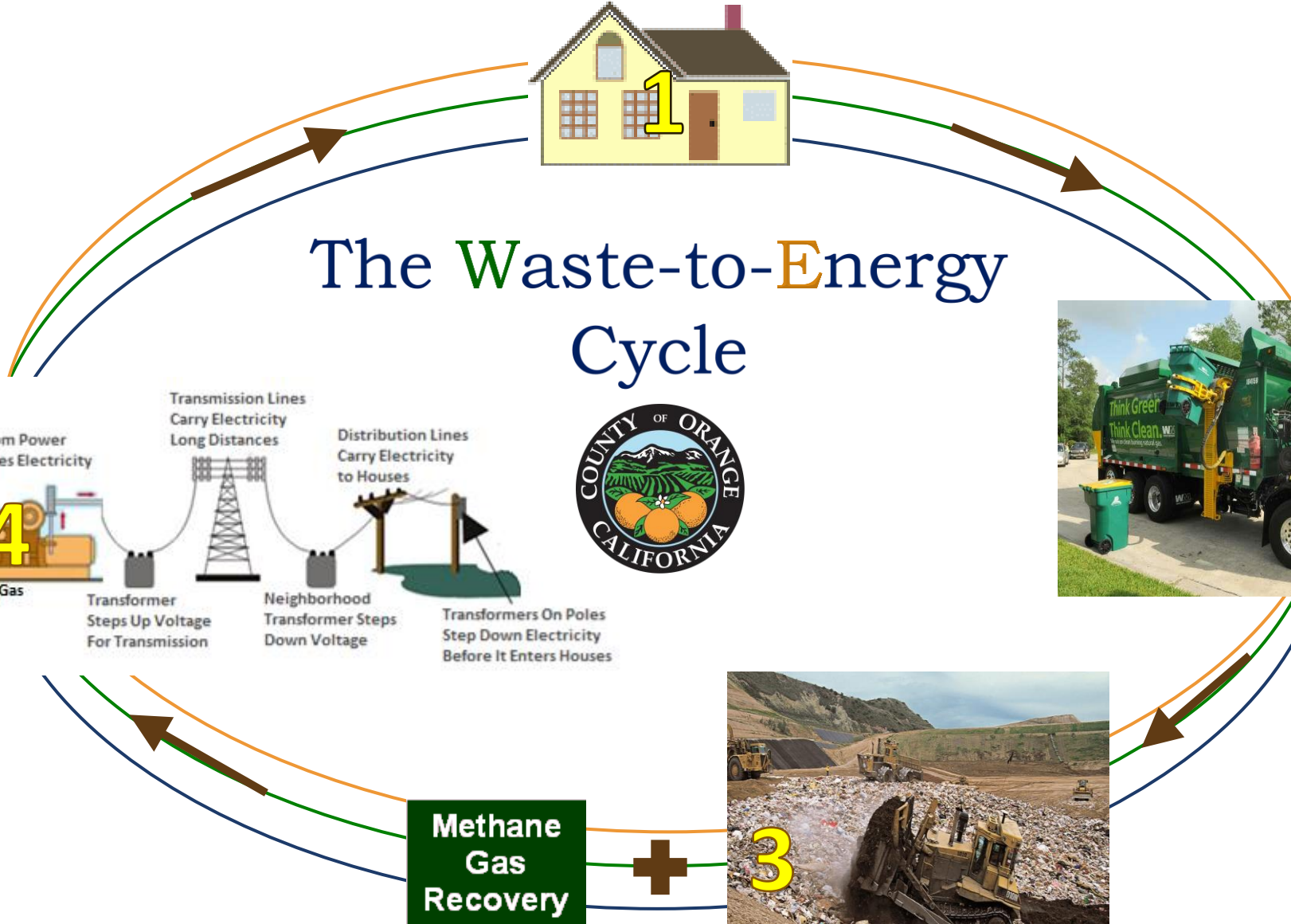
Transformer Steps Up Voltage For Transmission

Distribution Lines Carry Electricity to Houses



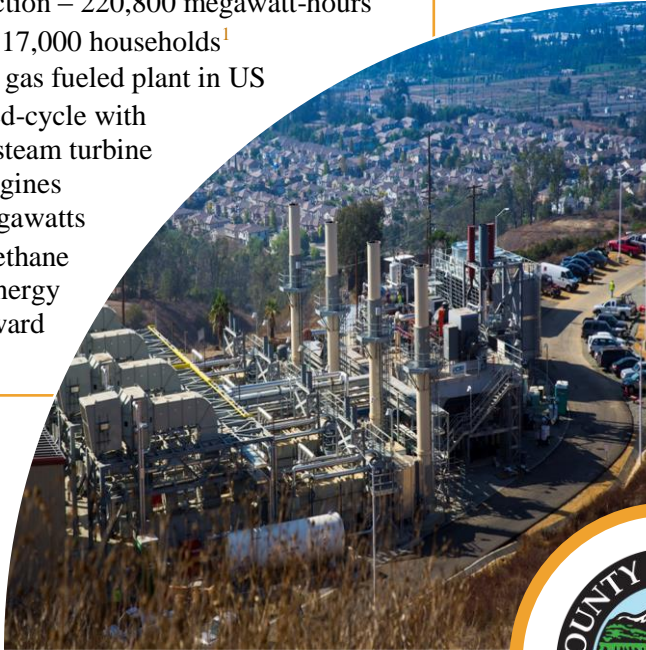
Neighborhood Transformer Steps Down Voltage

Transformers On Poles Step Down Electricity Before It Enters Houses



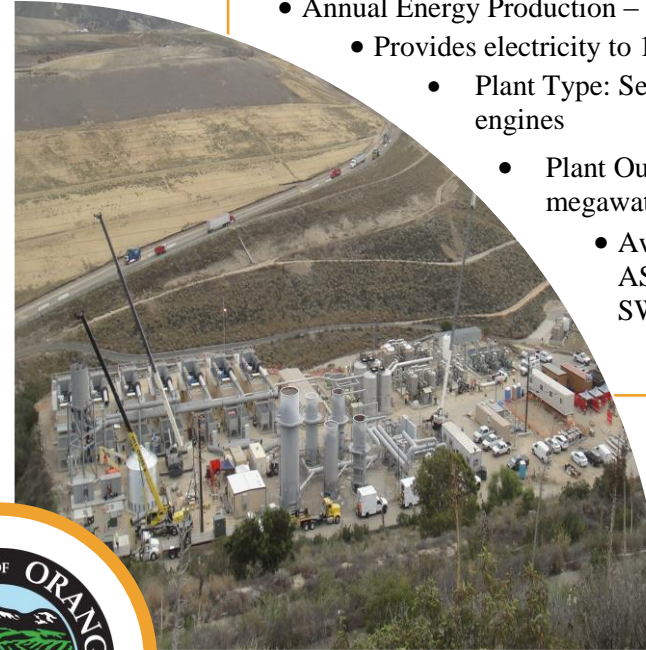
OLINDA ALPHA LANDFILL (BREA)

- Annual Energy Production – 220,800 megawatt-hours
- Provides electricity to 17,000 households¹
- The 3rd largest landfill gas fueled plant in US
- Plant Types: Combined-cycle with four gas turbines/one steam turbine and 5 reciprocating engines
- Total Output: 37.5 megawatts
- US EPA – Landfill Methane Outreach Program - Energy Project of the Year Award



FRANK R. BOWERMAN LANDFILL (IRVINE)

- Annual Energy Production – 154,500 megawatt-hours
 - Provides electricity to 14,700 households¹
 - Plant Type: Seven reciprocating engines
 - Plant Output: 22 megawatts
 - Awards from AEE, ASCE, OCBC and SWANA



RENEWABLE ENERGY PROGRAM



FACT SHEET MARCH 2018

PRIMA DESHECHA LANDFILL (SAN JUAN CAPISTRANO)

- Annual Energy Production - 45,000 megawatt-hours
- Provides electricity to 4,200 households¹
- Plant Type: Two reciprocating combustion engines
- Plant Output: 6 megawatts



CONTACT INFORMATION
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TOTAL ENERGY FROM ALL LANDFILLS IS
~ 420,000 MWH/YEAR

¹Average electricity usage per household (10,500 kWh/year)

MISSION

Making Orange County a safe, healthy, and fulfilling place to live, work, and play, today and for generations to come, by providing outstanding, cost-effective regional public services