

Renewable Energy Program Fact Sheet

September 2013

Olinda Alpha Landfill

In November 2012 Broadrock Renewables LLC launched the Brea Power II combined-cycle turbine renewable energy plant. This landfill gas-to-energy expansion project added 32.5 MW of production capacity to the Olinda Alpha Landfill. Combined with the existing 5 MW internal combustion plant, the production capacity now totals 37.5 MW of power. This combined capacity serves approximately 22,000 homes. Power is sold to Anaheim Public Utilities.

Frank R. Bowerman Landfill

Bowerman Power LFG, LLC, (GSF Energy/Montauk). Is constructing a 23-MW landfill gas-to-energy electric generating plant, which will beneficially use virtually all landfill gas generated there. The 23-MW plant will serve approximately 14,500 homes. All landfill gas is currently being flared.

Prima Deshecha Landfill

Under terms of a contract between OC Waste & Recycling and NEO Prima Deshecha (Fortistar Methane Group), an on-site internal combustion plant generates approximately 6.3 megawatts of electrical power. The plant consumes virtually all landfill gas at the landfill. Power is sold to San Diego Gas & Electric (SDG&E). 6.3 MW of electricity serves approximately 5,000 homes.

Coyote Canyon Landfill

Under the terms of Amended & Restated Refuse Gas Lease Agreement between OC Waste & Recycling and Gas Recovery Systems (GRS) an on-site boiler plant is producing approximately 7 MW of electrical power. Power is sold to Southern California Edison (SCE). Seven MW of electricity serves approximately 5,900 homes. Virtually all landfill gas is consumed in the conversion plant.

Approximate Landfill Gas Production Rates (as of February 2012)

Landfill	Production (standard cubic feet per minute)
Olinda Alpha	9,600
Frank R. Bowerman	5,800
Prima Deshecha	2,055
Coyote Canyon	3,800
Total	21,255



For More Information: Contact Renewable Energy Program Manager at 714-834-3713



Waste-to-Energy Cycle at Orange County's Landfills

