

BROADROCK RENEWABLES LLC

Olinda Alpha Landfill LFG Facility

Orange County, California

The Broadrock Renewables Olinda Alpha Landfill LFG facility represents a **\$130 million investment** in clean, renewable energy that will **create jobs** and provide low-cost power to residents of Southern California. The project is a recipient of a \$10 million job-related stimulus grant from The Department of Energy.

The new **32.5 megawatt** facility will produce enough renewable energy to power over **22,000 homes**, while **reducing greenhouse gas emissions**. Broadrock Renewables has worked closely with the Orange County's OC Waste & Recycling for many years, and we're proud to renew our commitment to the local community and the environment with our investment in California's renewable energy future. Construction of the facility commences December 2010 and commercial operations are scheduled to begin late 2012.

Energy production

- The new facility will produce **32.5 megawatts** of low-cost renewable energy which, together with the existing facilities at the site will produce **37.5 megawatts**. That is enough to supply over **22,000 average homes** and because it processes energy continuously, is equivalent to the energy output of approximately **100 one megawatt wind turbines** (per U.S. EPA benefits calculator)
- The new facility will be the **3rd largest LFG power plant in the U.S.**
- The electricity produced by the facility will be delivered to the regional grid and bought by **City of Anaheim Public Utilities**, with the output to be **used locally**

Environmental benefits

- The natural decomposition of trash buried in the landfill produces **methane**, a **powerful greenhouse gas** that contributes to **global warming**
- Over a period of 20 years, the new facility will reduce emissions equivalent to burning **144,000 railcars' worth of coal**
- Capturing the methane gas and using it to produce electricity **reduces greenhouse gas emissions** from the landfill, and also **reduces the need to use fossil fuels like coal or oil** for electricity production

Economic benefits

- Total investment is at approximately \$130 million
- Benefits to Orange County's OC Waste & Recycling: Approximately **\$2.75 million** annually in royalty payments.
- Cost to CA taxpayers is **zero**
- All major equipment components to be **manufactured in the U.S.** and the principal generating equipment, four combustion turbine generators, will be manufactured by Solar Turbines in its **San Diego manufacturing facility**

Job creation and retention

- During the Construction Phase:
 - » Approximately **155 direct jobs** in California will be created/retained. The contractor, DCO California, has agreed to use **all union labor** for the construction
 - » Approximately **424 total jobs** (e.g. manufacturing, engineering, consulting, etc.) will be created/retained. All jobs will pay prevailing wages
- Approximately **25 jobs** will be created/retained during the **commissioning phase**, in addition to the four already employed by Broadrock Renewables

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