

Brea Olinda Power II Facility

BREA, CA

VALUE DELIVERED

For the new Brea Olinda Power II facility, Performance Mechanical, Inc. (PMI) installed mechanical equipment and piping designed to capture landfill gas from decaying trash to use as fuel for combustion turbines. Our solutions helped remove harmful contaminants in the gas, to allow for clean methane production.

MANUFACTURING/INDUSTRIAL

OIL/GAS/PETROCHEMICAL

CASE STUDY

OPERATING COMPANY

Performance Mechanical, Inc. (PMI)

CLIENT

Olinda Alpha Landfill



CLIENT OBJECTIVES

The client needed full-service installation of mechanical equipment and piping to support their methane gas recovery system.

SOLUTIONS

Located at the Olinda Alpha Landfill, the Brea Olinda Power II project was comprised of two areas: gas collection/conditioning (GCC), and power block.

PMI installed mechanical equipment in the GCC area that was designed to chill and compress the captured methane gas before being used as fuel for the combustion turbines. In the power block area, we installed:

- Four Solar® Taurus 60 combustion turbine generators
- Two cooling towers
- Steam turbine generators
- Four heat-recovery steam generator units and associated pumps/equipment/piping

CLIENT BACKGROUND

Opened in 1960, the Olinda Alpha Landfill is a Class III site with 453 acres permitted for refuse disposal, and an average disposal rate of nearly 7,000 tons per day. Olinda was one of the first sites in the U.S. to construct a landfill-to-gas energy plant, powering 3,000 homes at the time.



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