



SOUTHERN CALIFORNIA METALWORKING FACILITY TO USE NEAR-ZERO EMISSION FUEL CELLS TO POWER MANUFACTURING OPERATIONS

**Ribbon Cutting:
October 11, 2006**

Project Sponsors:

- Alliance Power
- California Cast Metals Association
- FuelCell Energy
- Otto H. Rosentreter Company
- South Coast Air Quality Management District
- Southern California Gas Company

FUEL CELL BENEFITS:

- Virtually Pollution Free
- Ultra-Quiet, Non-Combustion Electricity Source
- On-Site Electricity Means Less Strain on Our Grid
- Considerably More Efficient than Today's Power Plants
- Ideal Clean Power Source for Constrained Urban Areas
- Capture Waste Heat for Co-Generation Benefits

PROJECT WEB PAGE:

Details, Project Updates, Facts, and more about this historic clean-energy project can be found at:



www.foundryccma.org/fuelcell.html

BACKGROUND:

In December 2004, the **South Coast Air Quality Management District (SCAQMD)** awarded \$560,000 from their Clean Fuels Fund to co-sponsor the commercial demonstration of two, 250 kilowatt (kW) molten carbonate stationary fuel cells at the **TST Inc's TIMCO division, a secondary aluminum smelting facility, in Fontana, CA.**

Additional financial support for this fuel cell project includes up to \$1.25 million from the **California Public Utility Commission's Self-Generation Incentive Program (SGIP)**, which will be administered by the **Southern California Gas Company.**

PROJECT TEAM:

The project's lead proponent is **Alliance Power**, an authorized, licensed distributor of **FuelCell Energy** molten carbonate fuel cells. Alliance Power is one of California's leading experts in on-site, electricity generation projects, having planned, permitted, and sited over 120 megawatts (MW) of distributed generation facilities in California since 2000.

The **FuelCell Energy DFC 300A** power plant is rated at 250 kW, which is enough to power 100-150 residential homes. A total of 500 kW will be sited at TST for this project. The exhaust heat from the fuel cells will be captured and used to offset a large natural gas burner that preheats air as part of TST's aluminum recycling and manufacturing process.

Local engineering firm **Otto H. Rosentreter Company** will work with Alliance and FCE as the installer of the units. Under a separate contract with TST, Rosentreter Co. will also install **four, 60kW C60 Capstone microturbines** provided by the SCAQMD. The fuel cells and microturbines will work parallel to the grid and satisfy a considerable portion of TST's overall energy consumption.

The **California Cast Metals Association (CCMA)** will be coordinating outreach materials, seminars, and ribbon-cutting ceremony for the project. Visit the project web page (*at left*) for complete details and more information.



FuelCell Energy DFC 300A

Power Output: 250 kilowatts

Dimensions:

Height:	11.5 feet
Width:	10.5 feet
Length:	28.0 feet

Emissions:

NOx	< 0.1 ppm
SOx	< 0.01 ppm
CO	< 10 ppm
VOC	< 10 ppm