



Wastewater Treatment



FuelCell Energy
Ultra-Clean, Efficient, Reliable Power

City of Tulare, CA

problem: Needing to reduce pollutant emissions and reliance on the local power grid, the Regional Wastewater Treatment Facility in Tulare, California decided to implement a reliable and clean onsite distributed power resource.

solution: Tulare chose to install a 900 kilowatt (kW) power system consisting of three Direct FuelCell® (DFC®) DFC300™ stationary fuel cell power plants from FuelCell Energy. By using digester gas generated in the wastewater treatment process, the DFC units provide high-quality, Ultra-Clean power 24/7, resulting in substantial cost savings.

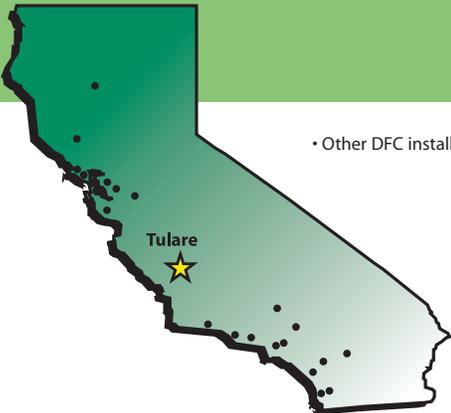
The fuel cells successfully address severe emissions non-attainment restrictions in place throughout California's San Joaquin Valley. Additionally, the fuel cells internally reform the facility's biogas which contains high amounts of sulfur contaminants resulting from the area's dairy processing waste.

result: DFC power plants have successfully reduced the facility's emissions as well as its reliance on the local power grid. And by using digester

gas as the system's source fuel, the facility is making good use of an existing renewable energy resource and substantially reducing energy costs. The Tulare installation's Combined Heat and Power (CHP) configuration facilitates the anaerobic digestion process by preheating waste sludge, creating increased cost savings for the facility, and reducing its carbon footprint by lowering the amount of methane being vented into the atmosphere.



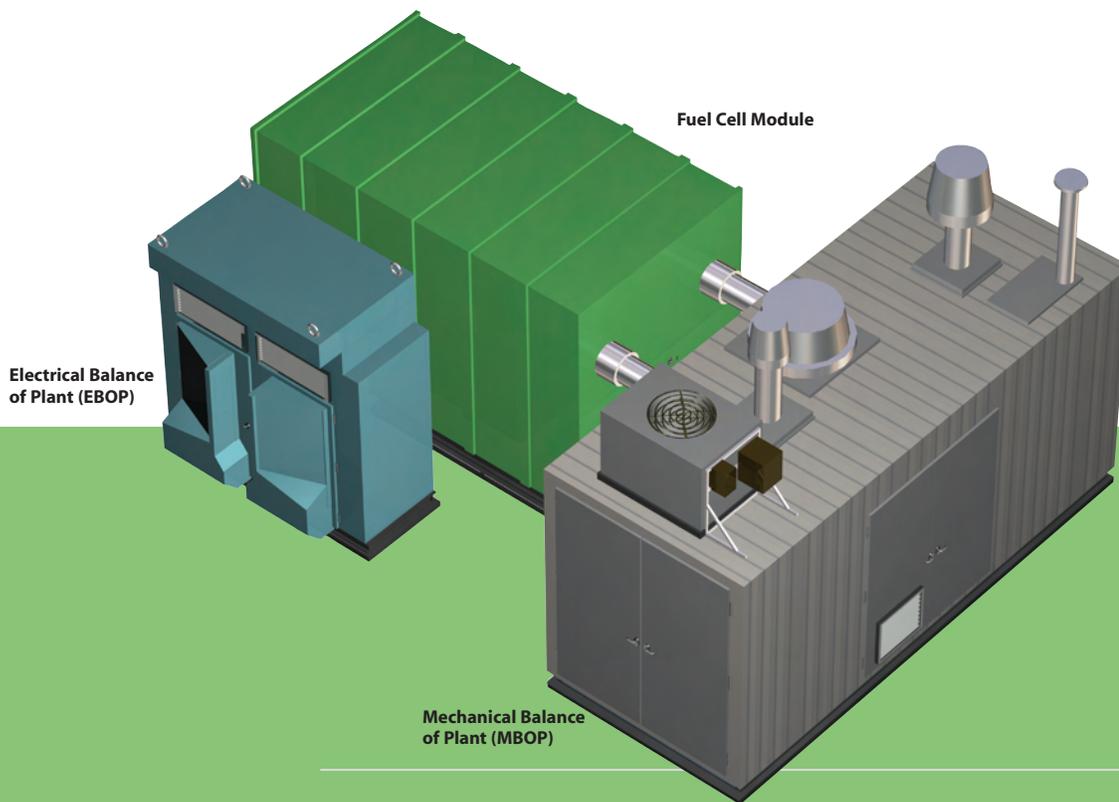
By utilizing digester gas as an onsite renewable energy source, Tulare received \$4 million in financial incentives from California's Self-Generation Incentive Program



• Other DFC installations

About DFC Power Plants

Direct FuelCell power plants operate on a variety of fuels, including methane from biogas, waste gas from industrial processes, and natural gas.



Direct FuelCell power plants are comprised of three major functional elements: Electrical Balance of Plant, Mechanical Balance of Plant, and Fuel Cell Modules.

(SGIP) and avoided \$600,000 in state Emission Reduction Credits (ERCs) that would have been required if it used alternative combustion equipment. Additionally, the fuel cell installation complies with California's new South Coast Air Quality Management District (SCAQMD) Rule 1110.2 which dictates that new and existing power plants produce electricity as cleanly from digester gas as they do from their primary source fuel. This advantage ensures that Tulare's Regional Wastewater Treatment Facility will remain compliant, efficient, and environmentally friendly for many years to come.

About Tulare

The City of Tulare, California occupies 18 miles of Southern California's richest agricultural

farm land and is home to more than 50,000 residents. The Regional Wastewater Treatment Facility in Tulare treats nearly 9 million gallons per day of the region's wastewater. For more information, please visit www.ci.tulare.ca.us.

About FuelCell Energy

FuelCell Energy develops and markets Ultra-Clean power plants that generate electricity with higher efficiency than distributed generation plants of similar size and with virtually no air pollution. For more information on the company, its products, and its world-wide commercial distribution alliances, please visit www.fuelcellenergy.com.

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