

FEDERAL CORRECTIONS CENTER

Victorville, CA

Facility Type:	Federal Prison
Facility Size:	2 million sq. ft.
Type of Contract:	ESPC
Term of Contract:	19 Years
Total Capital Cost:	\$5,430,000
Average Annual Savings:	\$640,000
Total Cost Savings:	\$12,230,000



FCC Victorville challenged NORESCO to develop projects that would reduce energy costs and use renewable energy technologies that are supported by the State of California. Working closely with FCC Victorville, the Bureau of Prisons, the Department of Energy, and the National Renewable Energy Laboratory, NORESCO met this challenge with projects that provide verifiable energy savings and utility cost reductions, as well as positive environmental impacts through lower energy use and “Green Power” initiatives.

In addition to more conventional improvements to the facility HVAC systems, this initiative included a Wind Turbine Power Generation project comprised of a single 750 kW electric generating wind turbine. The electrical power produced by the turbine is integrated into the customer side of the utility grid serving FCC Victorville - displacing some of the electricity provided by the regional utility company. At peak power output, the turbine produces up to 30 percent of the facility electric demand and over 8.5 percent of the annual electricity consumption.



NORESCO also installed a 66 kW solar PV array at the facility that was configured as a covered parking area. The net 66 kW rating is determined in accordance with the PVUSA Test Conditions rating standards and includes all array and inverter losses. The array was constructed to produce electricity from a renewable resource and offset electric consumption and peak demand. The PV system has been tied into the existing facility power grid, so battery storage is not required.



NORESCO

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESCO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel. NORESCO is accredited by, and a charter member of, the National Association of Energy Service Companies.