

# Government

## County of Kern Bakersfield, California

*Project Cost: \$3,635,502*

*Annual Savings: \$544,000*

*Facility Description: Correctional Facility*

*Contract Term: 12-year Energy Savings Performance Contract*



In early-2002, NORESKO completed the first of two phases of energy efficiency and modernization at the 500,000 square foot Lerdo detention facility.

Under a 12-year energy savings performance contract, NORESKO has completed the initial phase of work which is generating verified savings of approximately \$144,000 per year. Measures implemented by NORESKO in this project phase included:

- Retrofit to T-8/electronic and installation of new light fixtures, completing the facility's lighting upgrade and saving 177kW.
- Peak load reduction system utilizing programmable logic controller and installation of a 200,000-gallon water storage tank for the facility's domestic water supply. All high horsepower pumping is now done overnight when electric rates are the lowest. Electrical demand is reduced 135kW during peak electric cost periods.

NORESKO has provided a full range of services for this project including energy

analysis, design engineering and specification, construction management, and savings monitoring and verification. We also worked with the County on the arrangement of financing and negotiated with the local electric utility, PG&E, to secure a substantial rebate under their Cross-Cutting Demand Incentive Program. NORESKO has recently begun work on a second project phase which is expected to generate an additional \$400,000 in annual savings. In this phase, NORESKO is developing and implementing a 1,000-ton central chilled water plant. We are also providing new chilled water piping to 48 package units, conversion of those units from DX to chilled water, and a 600+ point energy management system. NORESKO has successfully leveraged \$300,000 in rebates to offset the cost of the second phase.

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, NORESKO 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.



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