

## Parsons State Hospital and Training Center Energy Savings Performance Contract (ESPC)



Parsons State Hospital and Training Center partnered with RWE Clean Energy through its subsidiary, Custom Energy Services, in an effort to generate savings that could be used to address infrastructure improvements such as the replacement of air handlers. The customer also needed help in solving problems with failing steam traps.

RWe Clean Energy's efforts were focused on improving the lighting systems, steam systems, energy management controls, and equipment replacements to improve efficiency. We also improved energy efficiency through replacement of piping systems and old standard flow toilets.

### ENERGY CONSERVATION MEASURES

#### Lighting and Lighting Controls

- High efficiency lighting
- LED exit signs
- Occupancy sensors

#### Building Controls

- Energy management system

#### Heating and Cooling

- Boiler Plant
- Steam line insulation
- Domestic hot water heating
- Steam and condensate pipe repair
- Variable air volume air handling units

#### Water Conservation

- Low-flow water fixtures

#### Additional Upgrades

- Laundry facility ozone improvement



### PROJECT DATA

#### LOCATION

Parsons, KS

#### CONSTRUCTION DATES

May 2004 to October 2004

#### CAPITAL COSTS

\$2,014,326

#### ANNUAL SAVINGS

Energy Savings: \$174,716

Non-Energy Savings: \$12,560

#### ENVIRONMENTAL BENEFITS

2,539 tons of harmful greenhouse gas emissions reduced annually

Equivalent to:

- Preserving 16.1 acres of forest from deforestation\* or
- Conserving 5,356 barrels of oil\*

\*Sources:

- Leonardo Academy's Cleaner & Greener<sup>SM</sup> Emissions Reduction Calculator: <http://www.cleanerandgreener.org/resources/pollutioncalculator.html>
- U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator: <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>