



ESPC SUCCESS STORY

**DYESS AIR FORCE BASE
DYESS, TEXAS**

Water Conservation and Green Energy

Dyess Air Force Base and surrounding west Texas has been under extreme-drought water restrictions for years. To ease the stress on the nearby city of Abilene’s potable water supply, Dyess began using the city’s effluent water for irrigation. They arranged to use existing oil pipelines to economically transport the water 7 miles from the city to the base. Dyess also entered into an energy savings performance contract to add two 11-million-gallon holding reservoirs, two pump stations, and 3 miles of distribution piping to connect the irrigation system. The project reduces annual potable water consumption by 160 million gallons and saves the base \$300,000 a year. It also saves the city a highly valued 2 percent of its water supply.



Work done under an energy savings performance contract enables Dyess Air Force Base to use Abilene’s effluent water for irrigation, saving 160 million gallons of potable water and \$300,000 a year. Fusion-welded polyethylene piping connects Abilene’s effluent supply line to a holding reservoir on the base.



Trent Mesa Wind Site, Trent, TX

In January 2003, Dyess AFB became the largest single user of wind energy in the United States. The base now procures 100% of its electric power via “Green Wind Energy,” offsetting 78 gigawatt-hours of electrical usage and reducing carbon dioxide emissions by 58,000 tons per year.



Federal Energy Management Program
Please see FEMP’s ESPC Web pages at
<http://www1.eere.energy.gov/femp/financing/espcs.html>

For More Information
Contact the EERE Information Center
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