



# Pantex Renewable Energy Project

Established by Congress in 2000, the National Nuclear Security Administration (NNSA) is a semi-autonomous agency within the U.S. Department of Energy responsible for the management and security of the nation's nuclear weapons, nuclear nonproliferation and naval reactor programs. The NNSA's nuclear security enterprise includes the Pantex Plant, located 17 miles northeast of Amarillo, Texas. Pantex is charged with securing America by providing the nation's nuclear deterrent, and is now the home of the federal government's largest wind farm.

The Pantex Renewable Energy Project, a first in the NNSA enterprise, will consist of five 2.3 megawatt Siemens wind turbines located on 1,500 acres of government-owned property east of the main Pantex Plant. Energy savings from the wind farm are expected to average \$2.8 million annually over the 18-year contract term.

Using an Energy Savings Performance Contract, the cost of the project will be funded by the energy savings guaranteed by Siemens and will enable Pantex to advance President Obama's vision for energy stewardship at federal facilities and meet nearly all of its renewable energy goals, while also offering unique research opportunities to longtime partner in education, Texas Tech University and its research collaborators.



The Pantex wind farm is projected to generate approximately 47 million kilowatt hours of clean energy annually, which is greater than 60% of Pantex's annual electricity needs. This is enough electricity to power nearly 3,500 homes and reduce CO<sup>2</sup> emissions by more than 35,000 metric tons per year. This reduction is also equivalent to removing 7,200 cars from the road each year or planting more than 850,000 trees.

The Pantex Renewable Energy Project highlights the Department of Energy's commitment to federally-mandated energy conservation measures by implementing an onsite renewable energy program. This successful project will reduce our nation's reliance on fossil fuels while meeting the NNSA's mission of energy efficiency, security and independence.

### **Project Information**

- Contract Awarded:** May 10, 2013
- Groundbreaking Date:** August 13, 2013
- Projected Operational Date:** June 17, 2014
- Number of Wind Turbines:** 5
- Wind Turbine Capacity:** 11.5 MW
- Area:** 1,500 acres
- Annual Energy Output:** 47,000,000 kWh
- Estimated Annual Savings:** \$2,800,000
- Annual Renewable Energy Credits:** 47,000

### **Project Partners**

- Energy Purchaser:**  
NNSA/Pantex
- Federal Contracting Support:**  
U.S. Department of Energy
- Project Developer:**  
Siemens USA
- Project Financier:**  
Hannon Armstrong
- Wind Turbine Manufacturer:**  
Siemens USA
- Project Construction:**  
Siemens USA and Tennessee Valley Infrastructure Group