



**Service & Product Provider Partner**

**Ameresco**

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**Customer**

**Hill Air Force Base**

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Business: United States Air Force  
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**Hill Air Force and Ameresco Landfill Gas Generator Energy Project is the First of its Kind for the Department of Defense and the State of Utah.**

**Project Scope**

Hill Air Force Base and Ameresco teamed up to create a generating facility which is powered by landfill gasses. The landfill gas extracted from the Davis County Landfill is used to fuel two 1400kW generators. These produce the equivalent energy to power approximately 660 single family homes. The systems was designed and installed in a fashion which allows the generator to run in parallel with the existing Hill Air Force Base electrical distribution system.

**Project Summary**

In an effort to reduce the amount of greenhouse emissions and enhance the bases energy security position, Ameresco completed the design and construction of a new 2700 square foot power generation facility and affected facility repairs and upgrades in three large industrial facilities. Ameresco was responsible for the engineering, design, and construction of the project that went from concept to final acceptance in approximately fifteen (15) months

- **Energy Savings**  
29,300 MBTU /yr and 8,584,800 kWh / yr, equivalent to \$394,379
- **Investment**  
The initial investment for the project was \$3.35 million with an annual recurring cost for the Operations and Maintenance of \$220,500.
- **Financial Return**  
The project was structured to pay for itself within an 18 year term.
- **Other Benefits**  
Hill AFB is now substantially powered through the use of renewable landfill gasses. Additional benefits include:  
Calculated Emissions Reduction
  - 5,000 Tons of Greenhouse Gases
  - 5.5 Tons of Nitrogen Oxide
  - 4.8 Tons of Carbon Monoxide
  - 19 Tons of Sulfur Dioxide

**Monitoring & Verifying Energy Savings**

A measurement and verification plan was established that measures the energy savings 365 days a year. Data calculations and project production savings are included in these reports.

**Distinguishing Value**

Ameresco has provided outstanding support and quality workmanship with this project. Ameresco's efforts will contribute significantly to the base achieving its energy reduction goals and will provide a better quality of life working environment for all personnel assigned to Hill AFB.

