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## Misawa Air Base – Energy Savings Performance Contract (ESPC) Fact Sheet

### Facts at a Glance

Location: Misawa Air Base, Japan

Electric Annual Savings (kWh): 69,777,004 kWh

Estimated Annual Cost Savings: \$18.6 million



### Overview

An energy savings performance contract, or ESPC, is a partnership between a federal agency and an energy service company, or ESCO, which conducts a comprehensive energy audit and identifies improvements to save energy. The ESCO guarantees that the improvements will generate sufficient energy cost savings to pay for the project over the term of the contract.

### Project Highlights

- Misawa Air Base is the 6th largest installation in energy cost and 12th largest installation for energy consumption.
- The project installs more efficient lighting, steam distribution, heating and cooling, building envelope.
- The project installs two cogeneration plants with generation capacity of 6.2 megawatts, in addition to a 6.0-megawatt solar photovoltaic farm.
- The project will reduce Misawa's energy consumption by 20% across 679 buildings and as much as 60% of its annual electrical load during normal operations. This will result in 49,450 metric tons of avoided CO2 emissions.

### About DLA Energy Installation Energy

DLA Energy Installation Energy offers acquisition support for facility energy requirements such as natural gas, electricity, renewable energy credit purchases, long term renewable energy project development and energy savings performance initiatives. It also coordinates for the Department of Defense's participation in electricity demand response programs. In response to Executive Order 14057, Catalyzing America's Clean Energy Industries and Jobs through Federal Sustainability, Installation Energy is poised to support the Department's efforts to lead by example in leveraging its scale and procurement power to drive clean, healthy, and resilient operations. On August 4, 2022, and in response to the Executive Order's carbon pollution-free electricity (CFE) goals, Under Secretary of Defense for Acquisition and Sustainment Dr. William LaPlante directed DLA Energy to serve as the Department's procurement agent to pilot new CFE approaches in both vertically integrated and retail choice markets. For more information, visit our website: [www.dla.mil/energy](http://www.dla.mil/energy)

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## Keesler Air Force Base – Energy Savings Performance Contract (ESPC) Fact Sheet

### Facts at a Glance

Location: Keesler Air Force Base, Biloxi, MS

Electric Annual Savings (kWh): 18,286,451 kWh

Estimated Annual Cost Savings: \$1.95 million



### Overview

An ESPC is a partnership between a federal agency and an energy service company, or ESCO, which conducts a comprehensive energy audit and identifies improvements to save energy. The ESCO guarantees that the improvements will generate sufficient energy cost savings to pay for the project over the term of the contract.

### Project Highlights

- The project installed a 1.5-megawatt solar photovoltaic carport array at the base commissary, the installation's first on-site electricity generation and provided an additional benefit of covered parking for nearly 500 vehicle spaces.
- The project installed chiller plant optimization controls, replaced outdated building controls with more cyber-secure direct digital controls and upgraded nearly 30,000 light fixtures with more efficient lighting technology.
- The project will reduce Keesler AFB's annual energy consumption by 15.8% and result in 12,959 metric tons of avoided CO2 emissions annually.

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## Vandenberg Space Force Base– Power Purchase Agreement (PPA) Fact Sheet

### Facts at a Glance

Location: Vandenberg Space Force Base, CA



### Overview

A power purchase agreement, or PPA, is an arrangement in which a third-party developer installs, owns and operates an energy system on a Department of Defense installation's property. The installation then purchases the system's electric output for a predetermined period. The PPA allows the installation to receive stable and often low-cost electricity with no upfront cost, while also enabling the owner of the system to take advantage of tax credits and receive income from the sale of electricity.

### Project Highlights

- The project is expected to save Vandenberg SFB \$44.7 million (\$23 million in today's dollars) of avoided electricity costs over the 25-year contract period.
- The project consists of a 28.2-megawatt solar photovoltaic array installed on 129 acres, which will re-purpose a former housing site on the base.
- This project will provide up to 35% of Vandenberg SFB's annual electricity consumption saving about 35,000 metric tons of CO2 emissions each year.
- The solar project is micro-grid capable, which enhances energy security for Vandenberg SFB.

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## U.S. Army Garrison, Fort Hood– Power Purchase Agreement (PPA) Fact Sheet

### Facts at a Glance

Location: U.S. Army Garrison Fort Hood, TX



### Overview

A power purchase agreement, or PPA, is an arrangement in which a third-party developer installs, owns and operates an energy system on a Department of Defense installation's property. The installation then purchases the system's electric output for a predetermined period. The PPA allows the installation to receive stable and often low-cost electricity with no upfront cost, while also enabling the owner of the system to take advantage of tax credits and receive income from the sale of electricity.

### Project Highlights

- The project consists of wind turbines with a total capacity of ~ 50 megawatts offsetting approximately 48% of load from fossil fuels in the first year.
- The project also consists of an on-site solar array installed on 148 acres, which will generate ~15 megawatts, approximately 964,892 megawatt hours over the 28-year production term and will offset approximately 10% of the load received from the utility grid.
- This project will avoid approximately 6.5 million metric tons of CO2 emissions over the term of the contract.
- The solar project is micro-grid capable which enhances energy security for Fort Hood.

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## Joint Base San Antonio– Energy Savings Performance Contract (ESPC) Fact Sheet

### Facts at a Glance

Location: Joint Base San Antonio, San Antonio, TX

Electric Annual Savings (kWh): 79,984,557 kWh

Estimated Annual Cost Savings: \$8.73 million



### Overview

An energy savings performance contract is a partnership between a federal agency and an energy service company, or ESCO, which conducts a comprehensive energy audit and identifies improvements to save energy. The ESCO guarantees that the improvements will generate sufficient energy cost savings to pay for the project over the term of the contract.

### Project Highlights

- The project installed seven different types of measures to include installing approximately 118,000 energy efficient lighting, building automation and energy management controls, thermal energy storage, 18-megawatt solar photovoltaic roof top arrays, 20 megawatts of on-site generation, back up generation assets and 4 megawatt/8 megawatt hours of a battery energy storage system, or BESS, high efficiency transformers, and building improvements such as window film installation.
- The project will reduce JBSA's annual energy consumption by 24% and result in 56,684 metric tons of avoided CO2 emissions annually.

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