



## Project Highlight

# Joint Base San Antonio, TX

AMERESCO 

## Assuring Energy Security at the Largest Base Organization in the Department of Defense

### Technology Type:

Microgrid Control System | Battery Energy Storage  
Onsite Energy Generation | Solar PV | HVAC  
Combined Heat and Power System | Energy Efficiency  
Energy Savings Performance Contract | Distributed  
Energy Resources | Smart Buildings

### Facility Size

**14.7M** square feet

### Task Order Size

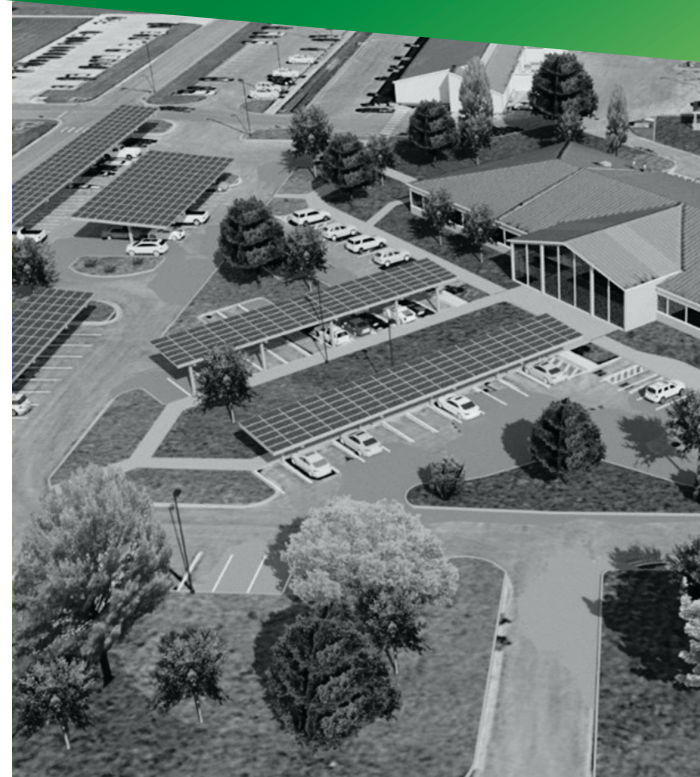
**\$133.5M**

### Annual Energy Consumption Reduction

**24%**

### Annual Energy Savings

**\$8.7M**



### Summary

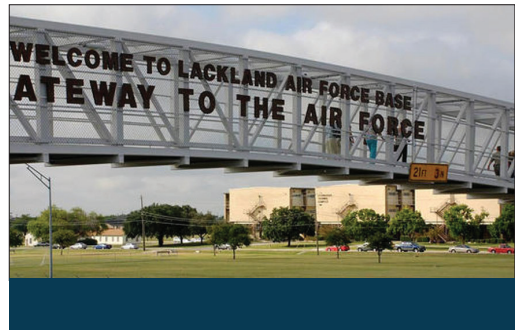
The Defense Logistics Agency implemented a self-funding energy security and resiliency infrastructure project at Joint Base San Antonio (JBSA) in Texas. The project integrates on-site renewable energy generation, battery energy storage, and microgrid technologies allowing for seamless transition to backup power in order to maintain operation of critical loads.



## Solution

Ameresco will provide energy efficiency and reliability upgrades to 900 buildings across five military installations and will build a microgrid integrating 18.5 megawatts (MW) of new onsite energy photovoltaic assets, 4 MW of gas fired backup generation and 4 MW/8 MWh of battery energy storage, and 585 kW of combined heat and power to support critical energy loads for mission assurance. This \$133.5 million task order leverages \$2.7 million of Facilities Sustainment Restoration and Modernization (FSRM) funds as a direct investment in the project.

- HVAC management control systems
- Over 2 million galls of thermal energy storage
- Building envelope improvements
- Over 140,000 LED lighting systems
- 11.7 MW ground mount solar
- Over 5 MW of roof-mount solar
- Ongoing operations and maintenance
- New combined heat and power system



## Benefits

More than 14.7 million square feet of buildings will receive energy and water conservation upgrades designed to reduce energy consumption by 24 percent annually. JBSA will leverage their efficiency savings to build an innovative microgrid in support of critical energy loads for mission assurance. The installation of new onsite energy systems will offset electricity purchases from the grid and will provide energy security and resiliency.

- Diverse portfolio of distributed energy assets
- Reduced energy consumption
- Automated Islanding from commercial power grid during periods of interruption
- Critical building resiliency during utility outage or grid disruption
- Integrated operation of renewable energy with battery generation and backup capabilities for grid-tie peak shaving and off-grid islanding of mission critical loads

Ameresco's team of energy experts can assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

