Air Force Mission Assurance Through Energy Assurance

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Energy is fundamental to every aspect of our globally networked Air Force.
By aligning and focusing existing authorities and resources, we will provide new architectures for Air Force installations.

DG Value Stream
- Power purchase agreement sales
- Ancillary services
- Capacity market auctions
- Potential resiliency payments from microgrid participants
- Demand response
- Capital cost incentives/grants
- Secure, reliable power to mission-critical infrastructure

Image Source: S&C Electric Company
We must shift from a fragmented approach, to a holistic approach to achieve affordable, clean, resilient power.

20th Century Approach has been fragmented: (examples only, not exhaustive)

- Utility rate negotiations
- Energy efficiency
- Diesel generators + dual grid feeds
- Renewable energy EULs with or without offtake agreement (no ability to “island”)

Cost-Effective

21st Century Approach will be more inclusive: (examples only, not exhaustive)

- 20th Century Approach +
- Utility-scale renewable PPAs
- Onsite renewables with PPAs and smart controlled “island” capability
- Agile, multi-fuel, integrated smart microgrids

Cleaner

Resilient
Three lines of effort will characterize our work to enhance energy assurance

Assess Vulnerabilities
Mission Decomposition Analysis
Identifies mission dependencies on energy infrastructure across geographic areas

Scale Readiness
Air Force Office of Energy Assurance
Enterprise Approach to Energy Planning and Execution

Modernize Resiliency
Resilient Energy Demonstration Initiative (REDI)
Creates energy toolkit for critical missions and infrastructure

Outcome: Strategic Energy Agility for Air Force Missions and Installations