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SUMMARY

ADI Energy prepared a preliminary energy assessment for an ESPC at the US Embassy in Kabul, Afghanistan complex. This energy study was commissioned in order to identify cost-effective energy conservation measures (ECMs) that would save energy and reduce the embassy's Carbon Foot Print.

Annual Savings: 40% Oil and 30% Electrical reduction

SERVICES

- Energy audit development and analysis
- Energy savings analysis
- Energy modeling
- Conservation solutions
- Energy analysis
- Energy engineering
- Energy performance contracting
- Energy reduction

MEASURES

- New Heating/Cooling Plant
- Solar Photovoltaics
- Solar Thermal
- Interior Lighting Upgrade
- Lighting Controls
- Variable Frequency Drives
- Upgrade DX units
- Air-to-Air Heat Pumps
- High Efficiency Transformers

Department of State Embassy, Kabul Afghanistan



UNIQUE VALUE TO CUSTOMER

Lockheed Martin hired ADI Energy to develop bundled energy system improvements to provide the site with cost-effective systems and energy savings under an ESPC. Located in the heart of Kabul, Afghanistan the embassy is entirely self-contained. Electrical power from local utilities in Kabul is unreliable and limited to several hours per day. Additionally, the harsh desert environment increases the speed of equipment deterioration from continuous use, dust and sand. The key opportunity identified was the replacement of the old generators and cooling equipment with new high efficiency equipment and utilize heat recovery to save significant energy. This included cross connection and efficient pumping systems. Other opportunities include Solar PV System, Interior and Exterior Lighting with controls, EMS Upgrade, RCX, Variable Frequency Drives

