



Mesa Top Photovoltaic Array



**National Renewable
Energy Laboratory**



SYSTEM SPECIFICATIONS

System size:

750 kW (DC, estimated)

Characteristics:

Single axis tracker photovoltaics,
ground mounted

Annual output:

1,200 MWh

Location:

Top of South Table Mountain;
NREL Campus; Golden, Colorado

Start of operation:

Spring 2008

Financial Terms

System ownership:

SunEdison will finance, build, own, and maintain the system

Solar Power and Services Agreement: SunEdison and The Western Area Power Administration (WAPA) have entered into a 20-year Solar Power and Services Agreement to provide Solar Energy Services to DOE for use at NREL

Cost to DOE/NREL: There are no up-front costs to NREL or DOE

- The price per kWh for the power purchased from the array is less than the price DOE/NREL currently pays

Rate structure insulates DOE from disruptive cost increases and reduces long-term price risk

Cost to taxpayers:

There is no additional cost above current electricity expenses

DOE/NREL Energy Impact

Current annual NREL electricity demand: 16,600 MWhrs

Amount of total NREL electricity that array will provide: 7%

Environmental Impact

Annual carbon offset: 2.4 million pounds of CO₂

Annual NO_x offset: >3,700 pounds

Annual SO_x offset: >2,400 pounds

TEAM Initiative & Executive Order 13423: Facility will address TEAM goal to have onsite renewable electricity generation at all DOE facilities

EPA Act 2005: With this system, NREL will exceed the EPA Act goal of 7.5% of a federal facility's electricity coming from renewable sources

NREL will achieve this goal over five years ahead of the 2013 requirement



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For more information contact:
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