



## 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 CO<sub>2</sub>

**Annual NO<sub>x</sub> offset:** >3,700 pounds

**Annual SO<sub>x</sub> 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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DOE/GO-102008-2546  
January 2008