

## Solar System Frequently Asked Questions

### What are the system specifications?

- 208.39 kW DC - the largest cylindrical thin film solar photovoltaic (PV) installation west of New Jersey
- 1145 Solyndra panels
- Designed, engineered and installed by Premier Power

### How much power will this system generate?

- Approx. 323,649 kWh of electricity per year
- Designed as a peak-shaver system to offset the most expensive electric rates

### Why is this system so unique?

- Conventional flat PV panels must be mounted at an angle and spaced apart for optimum energy production
- The cylindrical shape of the Solyndra panels allow these modules to perform optimally when mounted horizontally edge to edge
- Can be mounted over obstructions 8" or lower, allowing more roof area for solar
- The only roof penetration occurs at the electrical room to allow for the wire to be directed into the area where the electrical connections are made
- The PV panels employ cylindrical modules which capture sunlight across a 360-degree photovoltaic surface capable of converting direct, diffused and reflected sunlight into electricity – increasing annual solar electricity generation

### How long will this PV system last?

- Panels are warranted to produce electricity for 25 years
- System is expected to last over 40 years

### Does this solar installation require any maintenance?

- With no moving parts, the system maintenance is fairly minimal
- Due to the cylindrical shape of the modules, they essentially self-clean with the slightest amount of water or dew

### What is the cost vs. payoff of the system?

- Commercial incentives can offset the system's cost by up to 65% and include:
  - 30% Investment Tax Credit (ITC)
  - Utility company rebates
  - Accelerated 6-year depreciation
- Expected system payoff is 4-6 years

### What are the environmental benefits?

- Greenhouse gases reduction 512,427 lbs
- Cars not driven 43 cars
- Gasoline not consumed 26,383 gallons
- Barrels of oil not consumed 541 barrels
- Forest preserved 1.6 acres
- Avoid greenhouse gases by recycling waste instead of sending it to landfill 80 tons

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