

## Antelope Valley Solar Ranch – 1

W Ave D & 170th St W  
North Antelope Valley, California 93536

### Description

Located in the Antelope Valley area of North Los Angeles County, the 1372 acre, 230MW AV Solar Ranch One, when fully operational, will produce enough electricity to meet the annual energy needs of about 75,000 average homes, displacing approximately 140,000 metric tons of carbon dioxide (CO<sub>2</sub>) per year—the equivalent of taking about 30,000 cars off the road. The project will be 100% complete by the end of June.

Sited on previously-disturbed agricultural land, the project location was selected based on the quality of the solar resource, proximity to existing electrical transmission lines, compatibility with existing land uses and limited environmental impacts. There are no threatened or endangered species on the site and the project will not use water for electricity generation.

The facility provided economic benefits to businesses in the Antelope Valley including engineering and design firms, construction subcontractors, suppliers, and service providers. More than 400 construction workers were hired for the project providing employment opportunities for qualified local residents. Exelon owns the facility and First Solar built and will continue to operate and maintain it.



### Innovative Technology

- AV Solar Ranch One employs First Solar's FS Series 3 PV Module and a tracking system on a portion of the facility
  - The technology increases electricity output by tilting the solar panels to track the path of the sun
- The project also features innovative inverters with voltage regulation and monitoring technologies, which provide more stable and continuous power, increasing the project's efficiency and reliability.

### Environmental

- Produces enough power for 75,000 average homes
- Displaces 140,000 tons of CO<sub>2</sub> annually - equivalent to taking 30,000 cars off the road
- Lowest impact of any PV technology
- Electricity generation uses no water

### Community Benefits

- Wages and benefits from construction and permanent jobs
- Increased state and local tax revenues
- Local benefits to businesses in the area, from engineering and design firms to construction subcontractors, supplier, and service providers
- Exelon will not proactively seek media coverage