

# Solar Electric Generating Systems



## About NextEra Energy Resources

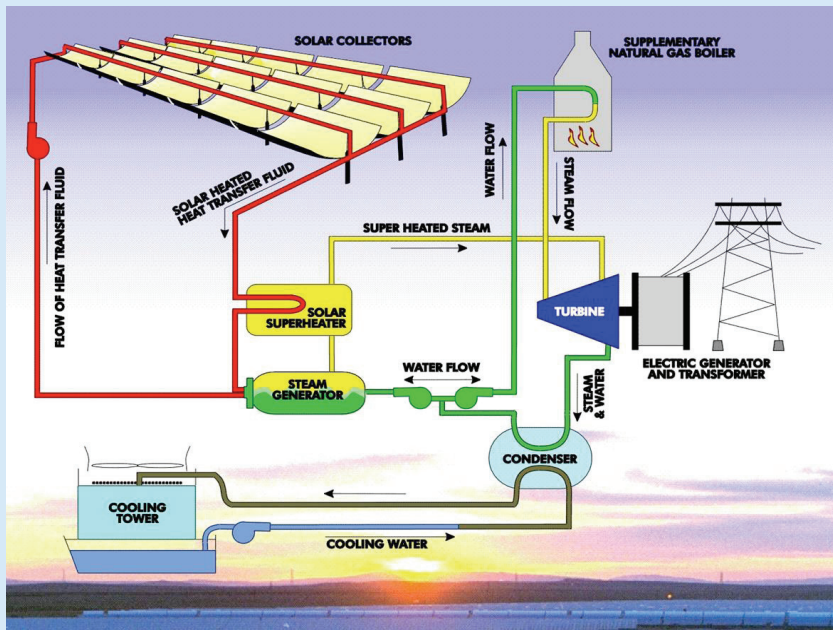
- » A leading clean energy provider operating wind, natural gas, solar, hydroelectric and nuclear power plants
- » Approximately 18,900 megawatts of generating capacity in 26 states and Canada
- » The largest wind generator in North America with facilities in 17 states and Canada
- » A subsidiary of NextEra Energy, Inc., with headquarters in Juno Beach, Florida
- » Approximately 95 percent of our electricity comes from clean or renewable sources
- » Visit us at [www.NextEraEnergyResources.com](http://www.NextEraEnergyResources.com)

-As of Jan. 2011

## How SEGS Works

Solar collectors capture and concentrate sunlight to heat a synthetic oil called therminol, which then heats water to create steam. The steam is piped to an onsite turbine-generator to produce electricity, which is then transmitted over power lines.

On cloudy days, the plant has a supplementary natural gas systems. The plants can burn natural gas to heat the water, creating steam to generate electricity.



## Overview

- » Seven solar facilities operated by a subsidiary of NextEra Energy Resources
- » Located at Kramer Junction (SEGS III-VII) and Harper Lake (SEGS VIII, IX) in California
- » A 310-megawatt solar energy plant with company ownership equivalent to approximately 150 megawatts
- » Covers more than 1,500 acres in the desert
- » More than 900,000 mirrors that capture and concentrate sunlight
- » Can power more than 230,000 homes at peak production during the day
- » Commercial operation began for SEGS III & IV in 1986; SEGS V in 1987; SEGS VI and VII in 1988; SEGS VIII in 1989 and SEGS IX in 1990.

## Benefits

- » Generates safe, clean and reliable electricity
- » Provides employment opportunities
- » Adds tax base to the county
- » Supports economy through purchases of regional goods and services
- » Supports various local community organizations