Solar Electric Generating Systems

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 system. 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

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

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

- As of Jan. 2011