

## Company profile

BrightSource Industries (Israel) is a wholly-owned subsidiary of BrightSource Energy Inc. The Company, located in Jerusalem, is responsible for the development of solar thermal technology, plant engineering, and the design, engineering and supply of the solar field for all of the BrightSource plants.

**Date of establishment:** 2006

**No. of employees:** 115

## Background on the company

BrightSource Industries (Israel) was founded by the veterans of Luz International Ltd., the company that during the 1980's designed, developed, built, financed, and operated nine Solar Electricity Generating Stations (SEGS) in California's Mojave Desert with a total generating capacity of 354 MW, still the largest operating solar power plants to day.

Examples of projects: BrightSource Energy's first project is the Ivanpah Solar Power Energy Generating System, Located in Ivanpah, California. The 4, 000 acre site will produce 392MW of clean renewable energy. The projects will provide power under 2.6 gigawatts contracts of power, including the two largest solar power agreements ever- 1, 300 megawatts with Southern California Edison and 1, 310 megawatts with Pacific Gas & Electric Company for which BrightSource shall supply the solar technology and solar fields.

Solar Energy Development Centre (SEDC) Located at the Negev Desert, at the Rotem Industrial park is a solar thermal demonstration power plant; this station serves BrightSource to demonstrate a cutting edge technology in the field of solar energy. The SEDC has been constructed for performance measurement and technology demonstration. Operating over the past year, the SEDC is producing the world's highest temperature turbine quality steam from solar energy.

## Technology & product(s)

**LUZ Power Tower technology:** BrightSource's proprietary Luz Power Tower (LPT) 550 energy system is built on proven power tower technology. The system uses thousands of small mirrors to reflect sunlight onto a boiler atop a tower to produce high temperature steam. The superheated steam is then piped to a conventional turbine, which generates electricity. This fully integrated energy system is designed to offer the highest operating efficiencies and lowest capital costs in the industry. Its low-impact design also ensures that the technology has a minimal impact on the natural environment. The result is a large-scale solar system that delivers clean, reliable energy at a cost competitive with fossil fuels.

**Function of the product(s):** Utility scale solar power plants, steam production.

## Objectives / Target companies

To learn more about the electricity sector and assess the potential for the development of solar power plants.