

MATERIALS FOR ENERGY APPLICATIONS WORKSHOP

Joseph Desmond, Sr. VP, Government Affairs & Communications January 31, 2012

BrightSource Overview

- Leading solar thermal technology used in utility-scale electric power plants to deliver cost-competitive, reliable and clean energy
 - Technology is also used in solar-to-steam plants for industrial applications, such as thermal enhanced oil recovery (EOR)

Founded: 2006

Funding to date: >\$530 million

374 employees¹

Facilities

HQ: Oakland, California

- R&D and engineering team: Jerusalem, Israel

Operating sites

- Solar Energy Development Center (SEDC): fully operational
 6 MWth solar-to-steam demonstration facility (Israel)
- Chevron: 29 MWth thermal EOR plant (Coalinga, CA)
- Ivanpah: 377 MW commercial scale solar project located in the Mojave Desert
- Pioneered first utility-scale solar thermal energy plants three decades ago



Alignment with Key Strategic Partners & Customers

Partners & Customers

International **Business Expansion**









Cornerstone Project Equity Investors





Engineering, Procurement & Construction





Proven Access to Growth Capital

















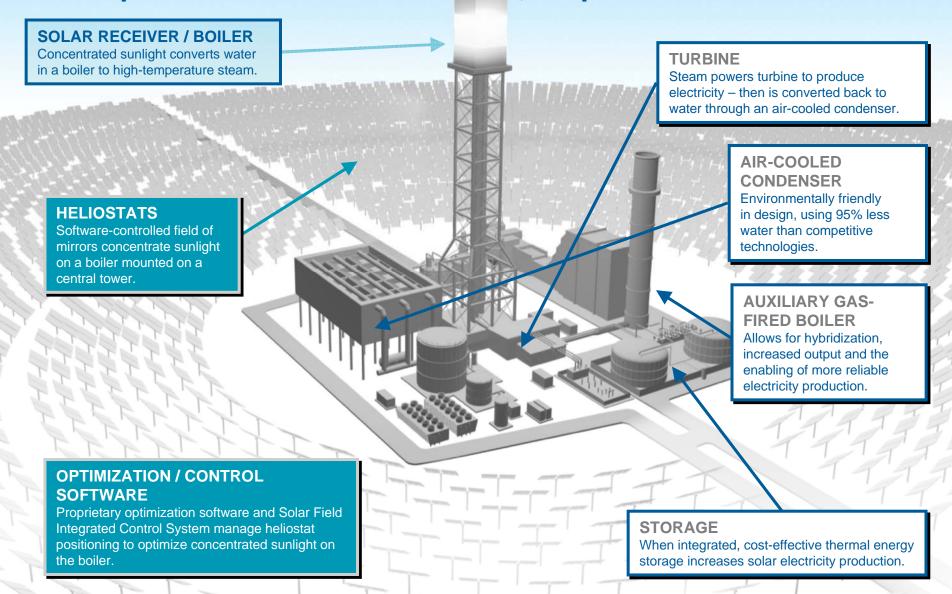








Integrating Proprietary Technology with Conventional Components to Deliver a Flexible, Dispatchable Power Plant



Ivanpah Solar Electric Generating System (SEGS)



Ivanpah Solar Electric Generating System (ISEGS)



- 3 power plants
 - 377 MW of Electricity Generation for PG&E and SCE
- \$2.2B project financing April 2011
 - Equity Investors: NRG, Google & BrightSource
 - \$1.63B DOE loan guarantee
- Key dates
 - Commenced construction October 2010
 - Estimated commercial operations 2013















Low Impact Design







Thank You

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