Innovative Technology Solutions for Sustainability



Abengoa Solar: an overview

April 2014

Abengoa Solar

We are a global solar power generation company offering proven proprietary technologies, developing new ones and operating power plants



- A twenty year commitment to the development of both CSP and PV technologies
- More than 1.300 professionals worldwide
- 1.223 MW in operation and 430 MW under construction
- Proprietary solar technologies (tower, parabolic trough, thermal storage, high concentration photovoltaics, hybrids)
- A world class team of solar experts, with unsurpassed collective experience and skills



Technological advantage

Technology as a competitive advantage for Abengoa

R&D

Pilot Plant or Real Test

Commercial Project

- +150 in-house researchers
- R&D center in Denver, CO
- R&D center in Seville, Spain
- Abengoa Research
- Collaboration with key research institutions and companies worldwide













Technology

Abengoa is a technology leader in the 3 key areas within CSP and in HCPV



Our products

Clean dispatchable plants







Hybrid plants



Conventional+ solar

- ISCC (gas + solar)
- ISCoal (Carbón + solar)

Clean intermittent plants





Our projects

Europe 693 MW

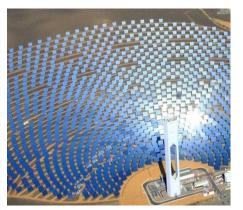
- PS10 & PS20, the first and the biggest commercial solar power towers in operation worldwide
- Solnova 1, 3 & 4, Helioenergy 1&2, Solacor 1&2, Helios 1&2,
 Solaben 1, 2, 3&6: 13 parabolic trough plants in operation (50 MW each)
- 5 photovoltaic plants in operation

U.S.A. 560 MW

- **Solana** (AZ): the largest solar power plant in the world, a 280 MW parabolic trough plant with 6 hours of storage, in operation
- **Mojave** (CA): 280 MW parabolic trough plant, under construction



- Hassi R'mel (Algeria): 150 MW ISCC hybrid plant in operation
- Shams-1 (Abu Dhabi): 100 MW parabolic trough in operation
- Kaxu Solar One & Khi Solar One (South Africa): 100 MW trough plant and 50 MW solar power tower under construction
- **Xina Solar One (South Africa):** 100 MW parabolic trough with 5 hours of storage, in pre-construction phase.
- Ashalim (Israel): 110 MW parabolic trough with thermal storage, in pre-construction phase.
- Cerro Dominador project (Chile): 110 MW tower plant of molten salt technology with 17 hours of storage, in preconstruction phase.







Some of our plants



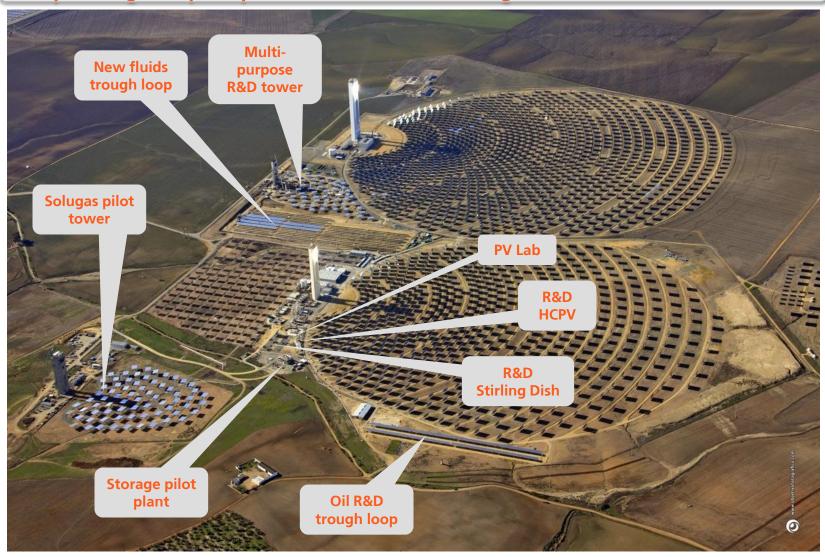






Solúcar Complex

Solúcar Complex is a world reference: a unique solar complex that combines operating and pilot plants of several technologies, as well as a R&D center





Thank you