



Presentation to San Diego County Planning Commission

January 16, 2015



Soitec has delivered significant economic development

Soitec is the third largest solar module manufacturer in the USA.
(based on installed production capacity)



Operations began in 2012

\$200M investment in the local economy

280 MWp production capacity installed

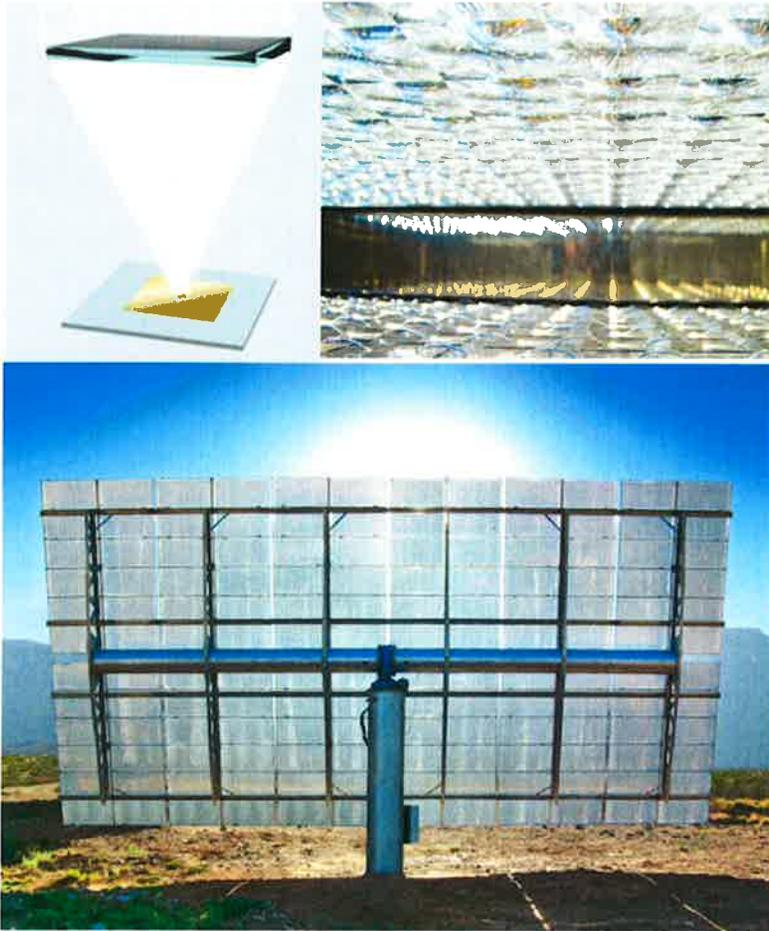
176,000-square-foot manufacturing center on 14.8 acres of land.

Significant economic leverage

- Requires 450 people at full production
- At full production the factory supports >1,000 additional indirect jobs in the region.*

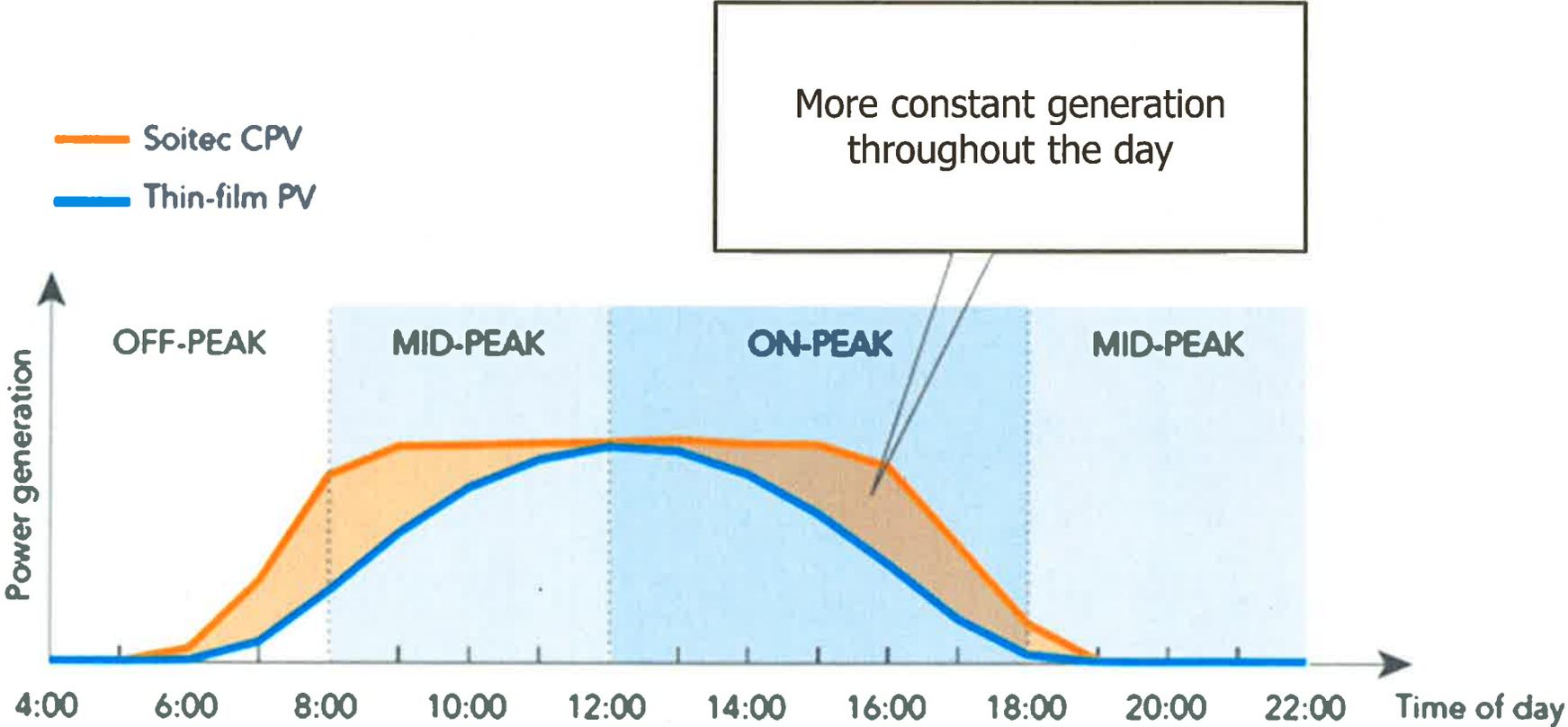


Soitec Concentrated Photovoltaic (CPV) Technology



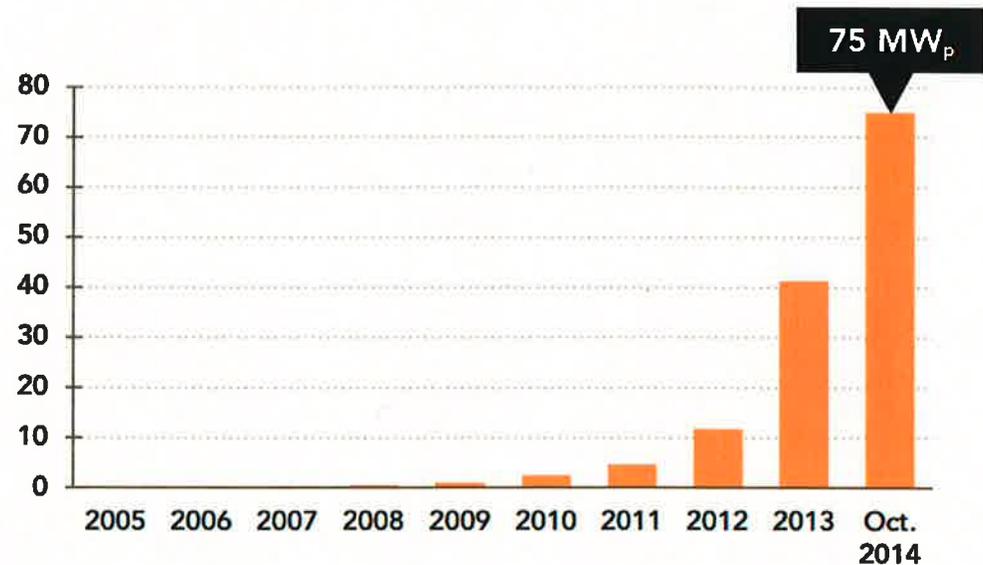
- **In a Soitec CX-500 module, Fresnel lenses concentrate the sunlight onto 2400 tiny multi-junction solar cells.**
- **The multi-junction solar cells convert sunlight to electricity very efficiently.**
- **Dual-axis tracking of the modules is required to keep the focus point of the sunlight concentrated precisely on the solar cells at every moment**

Benefit of CPV: Soitec CPV System versus flat panel



CPV installations have ramped up significantly the last 2 years the San Diego factory has been operational

- **9** years of field experience
 - first demo installed in 2005
- **6** years of commercial CPV power plants with 99% availability demonstrated
- **28** Countries where Soitec CPV modules and systems are installed
- **75MWp** of cumulative capacity installed



83% of Soitec's global CPV production shipped during the the last 2 years have been outside the US

CPV used for Borrego Springs solar project with SDG&E PPA

The financing of project in the US demonstrates CPV bankability

A bankable project:

Owned and Operated by Invenergy.
Project completed financial close on 12/5/14, financed through PNC Energy Capital one of the premier, full service capital providers to the renewable energy industry.



Successful construction:

Construction started in April 2014, Blattner Energy was EPC Contractor.

8.9 MW_p CPV project connected to San Diego Gas & Electric (SDG&E) grid

Began commercial operation on 11/26/2014



Success story:
Financial close 8.9MW_p CPV project

AB 900 Certified Environmental Leadership Development Project

- **In 2013 Governor Brown and the California Joint Legislative Budget Committee certified Soitec's San Diego County projects as an Environmental Leadership Development Project.**
- **AB 900 was developed to support the renewable energy sector – expedite innovative projects and keep investments and jobs in California.**
- **As required by AB 900, Soitec's projects will:**
 - Result in an investment exceeding \$100 Million
 - Create high-wage, highly skilled jobs
 - Will offset all GHG emissions



Why Boulevard?

- **Excellent solar resource, best in the County of San Diego**
 - outside of marine layer
 - more direct sunlight
 - High elevation
- **Large parcels of land with low residential density where solar resource is located**
- **Close proximity to new utility infrastructure and SDG&E Boulevard East Substation**
- **Local source of generation – will make up for the loss of capacity from San Onofre**

What Does it Take to Build a Solar Project?

- 1. Resource Assessment:** Meteorological weather station installed in 2012
- 2. Land:** All land is secured and under option to lease or purchase
- 3. Interconnection:** Interconnection Agreements are ready and \$3 million in Security has been posted and is at risk
- 4. Permits:** Land Use Permit and Environmental Review
- 5. Power Purchase Agreement (PPA):** Currently bidding projects into SoCal Edison and PG&E Renewable Request-for-Offers (RFOs) SDG&E RFO bid for local generation submitted

Project investment to date

- 1. More than four years in the development process**
- 2. Total investment at risk >\$12 Million**
- 3. Hundreds of meetings with County staff, agencies, community and environmental organizations and residents**

Economic & community benefits

- 1. \$469M investment in Boulevard**
- 2. ~\$7.5M community benefit package over the project life**
- 3. Up to 250 local construction jobs and 30-40 permanent jobs in Boulevard**
- 4. Use and Sales tax revenue of \$24 Million**
- 5. Commitment to use Prevailing Wage in project construction**
- 6. All green house gas emissions offset**

Comprehensive Community Outreach 2011-2015

- **Attended every Boulevard Planning Group meeting since 2011**
- **Held numerous community meetings**
 - One-on-one with residents and neighbors
 - EIR workshop
 - Roundtable discussions
 - Electronic and mail communications
 - Sponsored Mountain Health/Clover Flats Elementary Christmas toy drive (2012-2014)
 - Sponsored Mountain Health Back to School Drive
 - Sponsored booth at various community festivals and events
 - Held personal meetings with individuals and agencies who commented on the EIR



Community Organization Support

- **San Diego Regional EDC**
- **San Diego Regional Chamber of Commerce**
- **East County Economic Development Council**
- **East County Chamber of Commerce**
- **CleanTech San Diego**
- **SDG&E**
- **North County Business Chamber of Commerce**
- **North County EDC**
- **Mountain Empire and Alpine Chamber of Commerce**
- **Poway Chamber of Commerce**
- **CONNECT**
- **El Cajon Chamber of Commerce**
- **The Desert Museum**
- **Port of San Diego**

Elected Official Leader Support

- **Congressman Scott Peters**
- **Mayor Kevin Faulconer**
- **Councilmember Mark Kersey**
- **Councilmember Todd Gloria**
- **Assemblyman Brian Maienschein**
- **Senator Joel Anderson**
- **Assemblyman Brian Jones**

CEQA Comment Letters Received

- 1. Reiterate prior comments**
- 2. Technical disputes regarding potential impacts**
- 3. Assumptions & misunderstandings that can be clarified**
- 4. Questions about the projects**
- 5. Call for recirculation of the EIR**

Closing

Request this Commission's recommendation to the Board for:

1. EIR certification
2. Rezone for Tierra del Sol property
3. Agricultural Preserve Disestablishment for Tierra del Sol property
4. Major Use Permit approval for Rugged and Tierra del Sol Solar Farms