Soitec
Innover pour sauver le climat
June, 2014
The new equation

Electronics and energy industries must answer different needs:

- Higher performance
- Higher energy efficiency
- Lower environmental impact
Soitec’s commitment

Use our expertise in semiconductor materials to serve three markets:

- Electronics
- Solar Energy
- Lighting
10 milestones in the company history

1992
A start-up is founded to produce silicon on insulator (SOI)

1997
From lab to fab: licence agreement with SEH on the Smart Cut™ technology

1999
Initial IPO
First production unit: Bernin I

2002
Bernin II is inaugurated

2003
Picogiga is acquired: new expertise in technologies for composite materials

2006
Tracit is acquired: new applications for the Smart Cut™ technology

2008
Inauguration of the Singapore factory: production in Asia

2009
Soitec enters the solar energy market: acquisition of Concentrix

2011
Acquisition of Altatech Semiconductor

2012
San Diego solar modules factory grand opening
Our CPV technology

Modules efficiency: 31.8%
(twice the efficiency of standard photovoltaic technologies)
Soitec develops an highly efficient multi-junction solar cell: the Smart Cell™

- **Technology**
  - Epitaxy expertise
  - Smart Cut™ technology
  - Smart Stacking™ technology

- **Advantages**
  - Allows creation of high-performance materials
  - Helps to transfer ultra-thin layers
  - Enables stacking of multiple layers

- **50% cell efficiency targeted**

  ![Smart Cell™](image)

  - In Sept. 2013, Soitec and its partners’ research teams announced a world record solar cell achieving a 44.7% conversion of solar energy

- **With the Smart Cell™, Soitec targets 50% cell efficiency, benefiting from its semiconductor expertise which fosters solar cell development**
Une technologie au très faible impact environnemental

**Faibles émissions de CO\(_2\)**

<table>
<thead>
<tr>
<th>Technologie</th>
<th>KgCO(_2)/kW(_p)</th>
<th>Energy payback (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soitec CPV</td>
<td>0.8</td>
<td>1.5</td>
</tr>
<tr>
<td>Si PV</td>
<td></td>
<td></td>
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<tr>
<td>CIGS c-Si PV</td>
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</tbody>
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**Faible consommation d’eau**

- 2X less water for cleaning

**Faible emprise au sol**

**Double usage des sols**
Thank you!