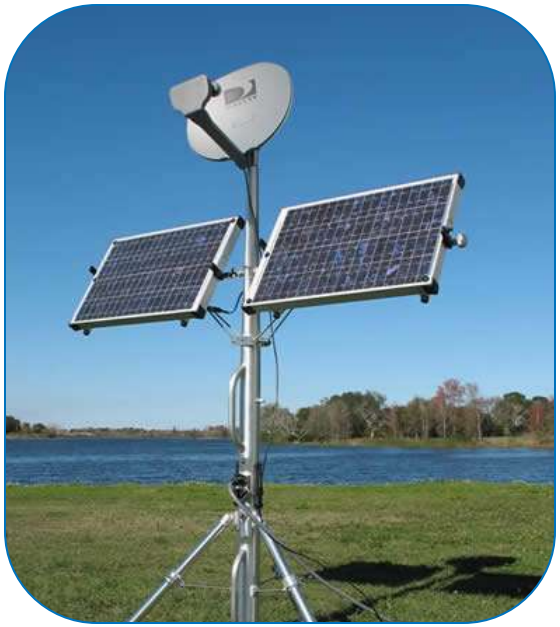
CONERGY

Clean Power for Portfolios
Upstream, Downstream, Nanostream

September 2009

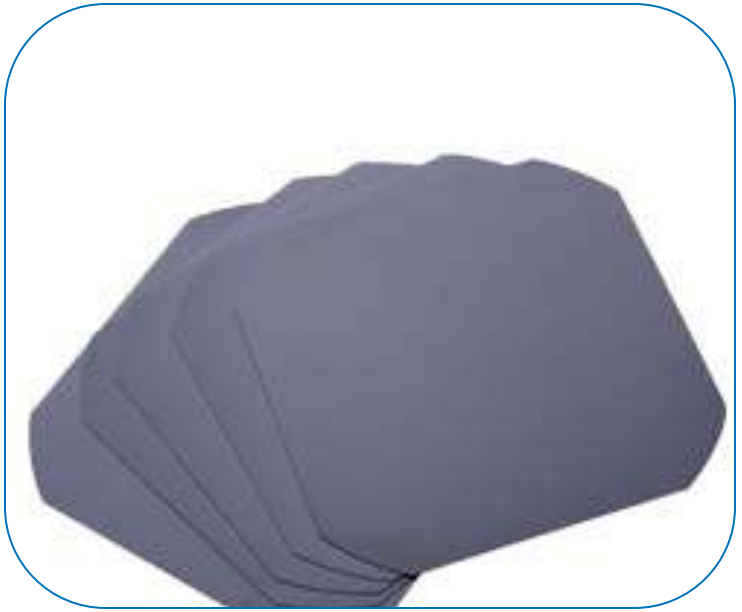
Photovoltaics Case Study

- From niche applications to mainstream supplier of clean energy



Path to success for Cleantech – Lower Cost/Lower Consumption

- Cleantech is an attractive field for research and discovery
  - It has an established and robust market
- Case Study: Polysilicon Photovoltaics
- Wafered silicon's past
  - Continual cost reduction
- Wafered silicon's future
  - Continual cost reduction



- If you can produce energy with less cost or consume energy more efficiently and achieve the same ends, you win with economics.

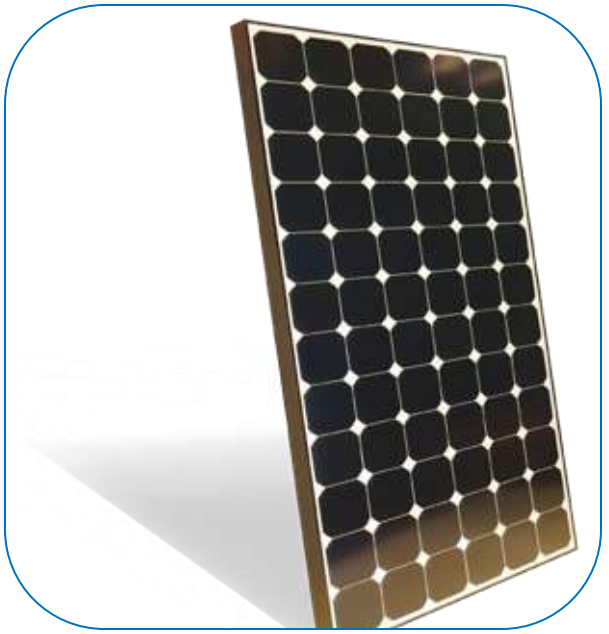
Conergy's Prospective on Microsystems - Applied to Photovoltaics

- Let's looks at some recent innovation that have made their way to the market

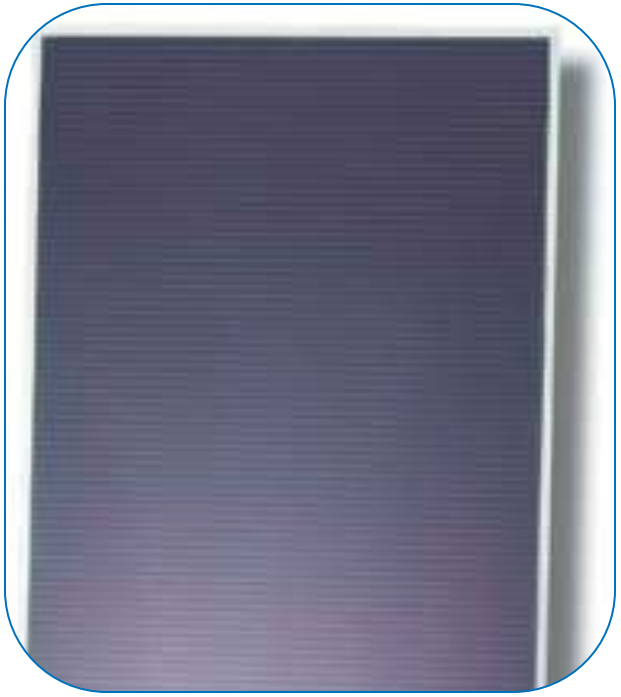
- SunPower
- FirstSolar
- Sanyo
- Enphase

SUNPOWER

- Conductive aluminum stripping on back side of modules exposing more semi-conductor material to the sun
- Most efficient cells available



- Different semiconductor = CdTe (Cadmium Telluride)
- Lower production costs
- Less susceptible to temperature increases
- More electricity in low and ambient light

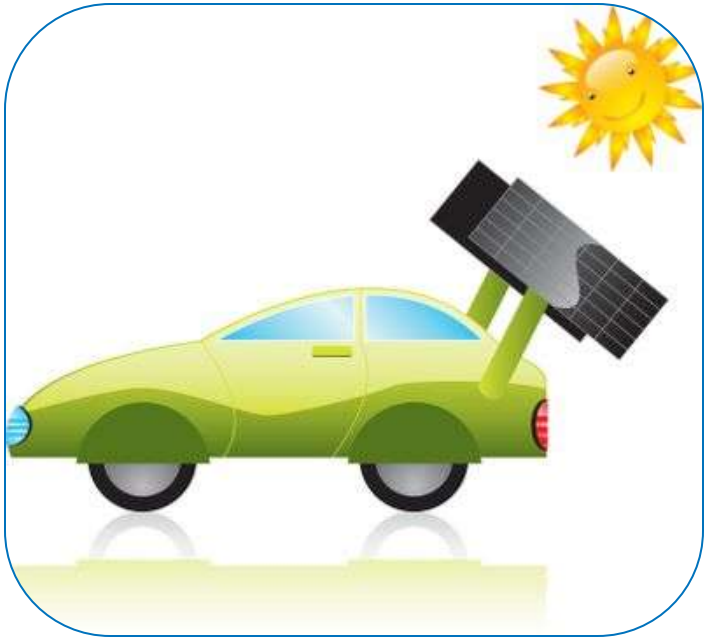


- Combines highly efficient silicon wafer with thin film technology
- Multiplies productive surface area 2X

- Micro Inverter
- Reduce adverse effects of shading
- Simplifies installation

Prospects for the future of Photovoltaics - Microsystems and Nanotechnology

- Efficiency of surface area
  - Increase light absorption
  - Increase active surface area
- Less material
  - Light concentration
  - ‘Sliver’ Cells
- New materials
- Flexible materials
- Micro-scale power conversion



Thank you for your attention.

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