

The 10th Annual Renewable Energy and Energy Efficiency Expo and Forum



*How Competitive Are US-Based Energy Efficiency and
Renewable Energy Companies in the World
Marketplace?*

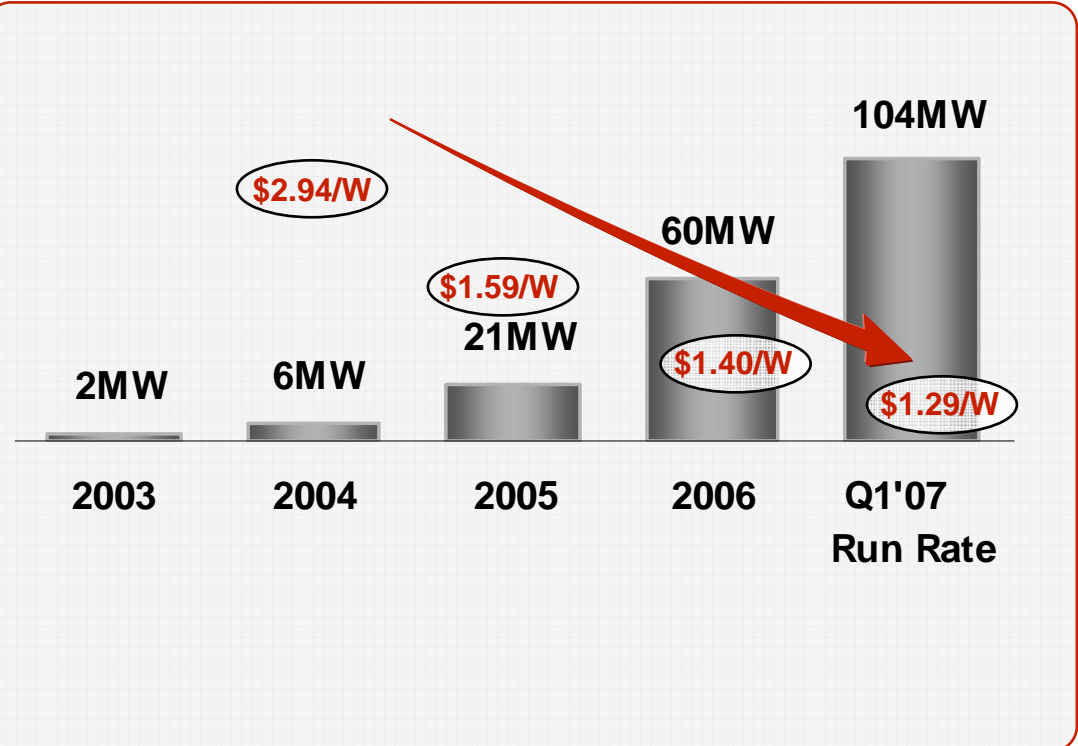
June 14, 2007

First Solar Overview



- ❑ Largest PV module manufacturer in the U.S.
- ❑ Largest thin-film module manufacturer in the world
- ❑ Lowest cost PV module manufacturer in the world
- ❑ First pre-funded module collection and recycling program in the PV industry

Realizing Economies of Scale

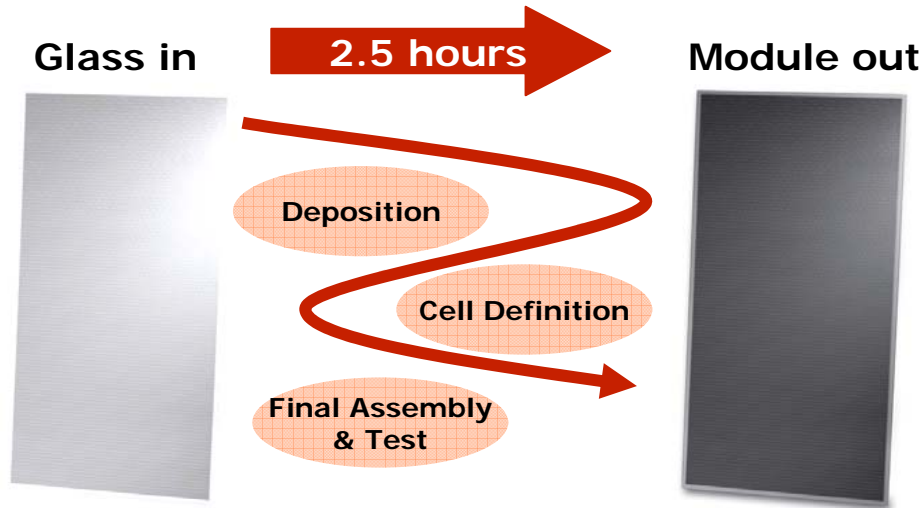


First Solar is rapidly expanding use of break-through thin-film technology to reduce solar electricity costs to grid parity.

First Solar Thin Film PV



Fully Integrated, Automated and Continuous Thin Film Process



- ✓ 99% reduction in high-cost semiconductor material
- ✓ Fully integrated, continuous process vs. batch processing
- ✓ Large (2'x4') substrate vs. 6" wafers

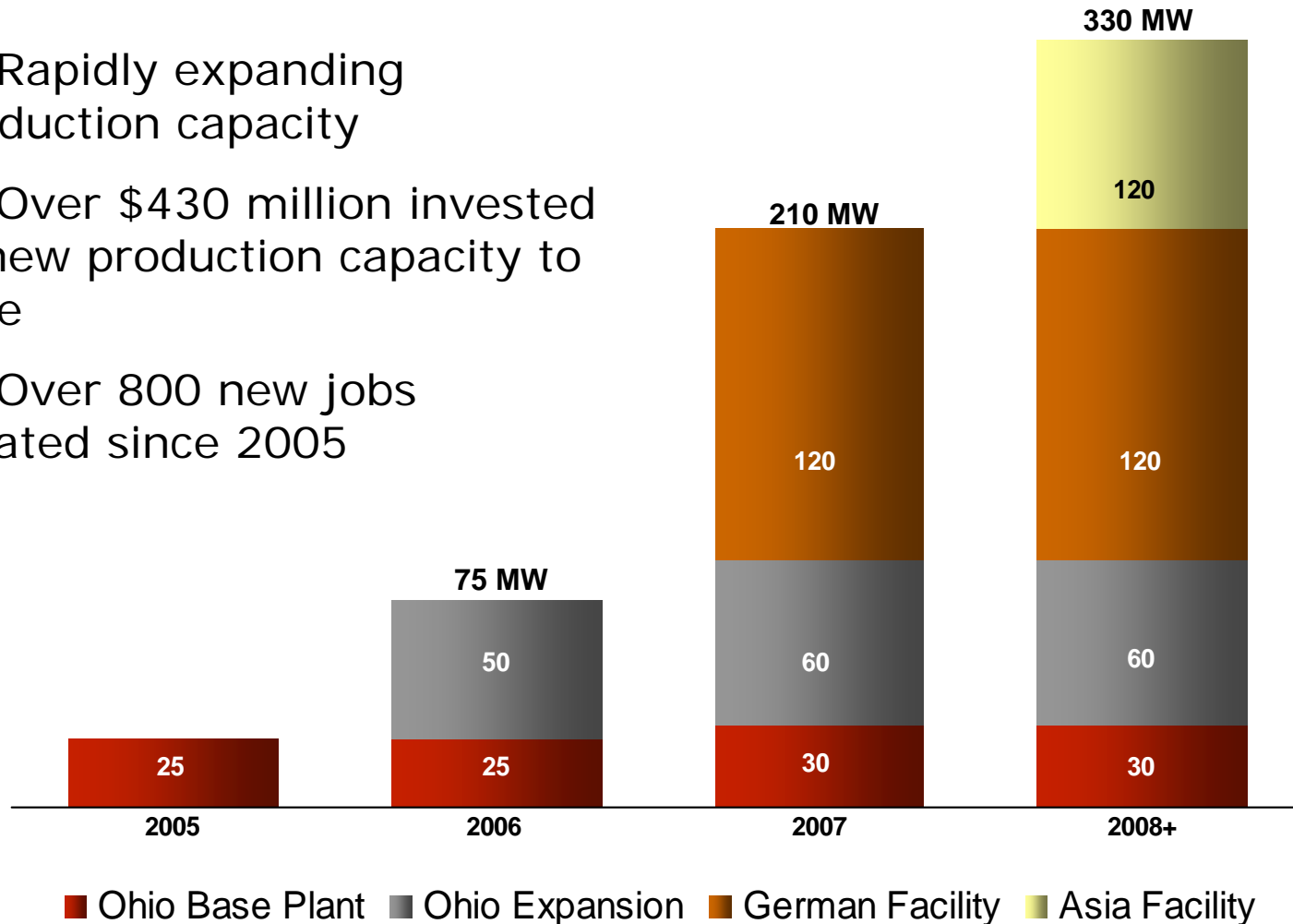
vs. Crystalline Silicon Batch Processing



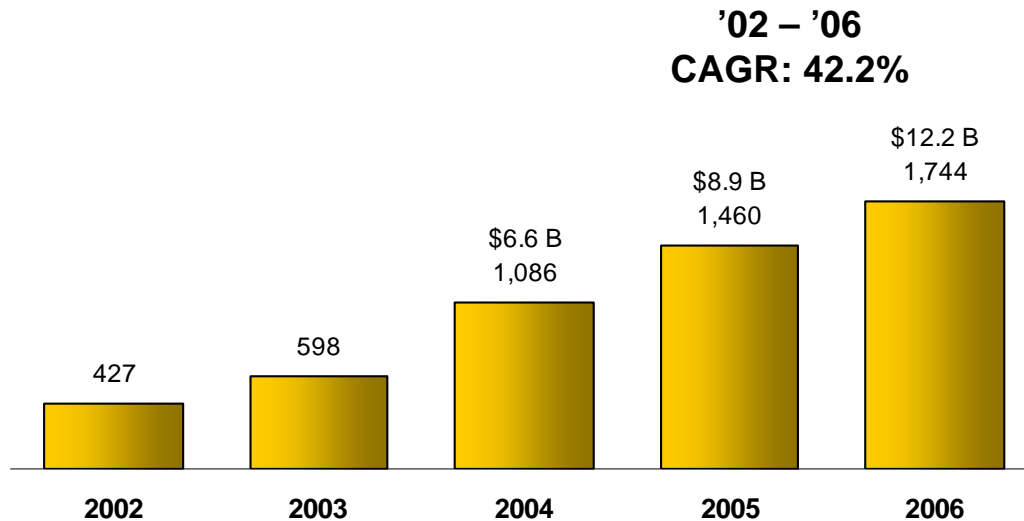
First Solar Manufacturing Capacity



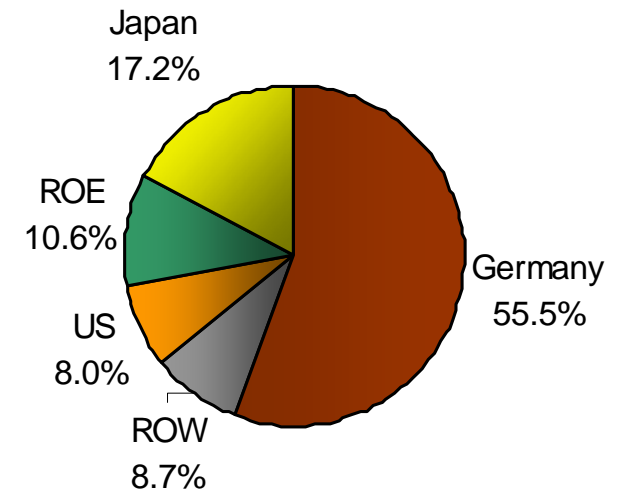
- ❑ Rapidly expanding production capacity
- ❑ Over \$430 million invested in new production capacity to date
- ❑ Over 800 new jobs created since 2005



Global PV Installations (Industry Revenues) (MW)



2006 Geographic Segmentation – Installations



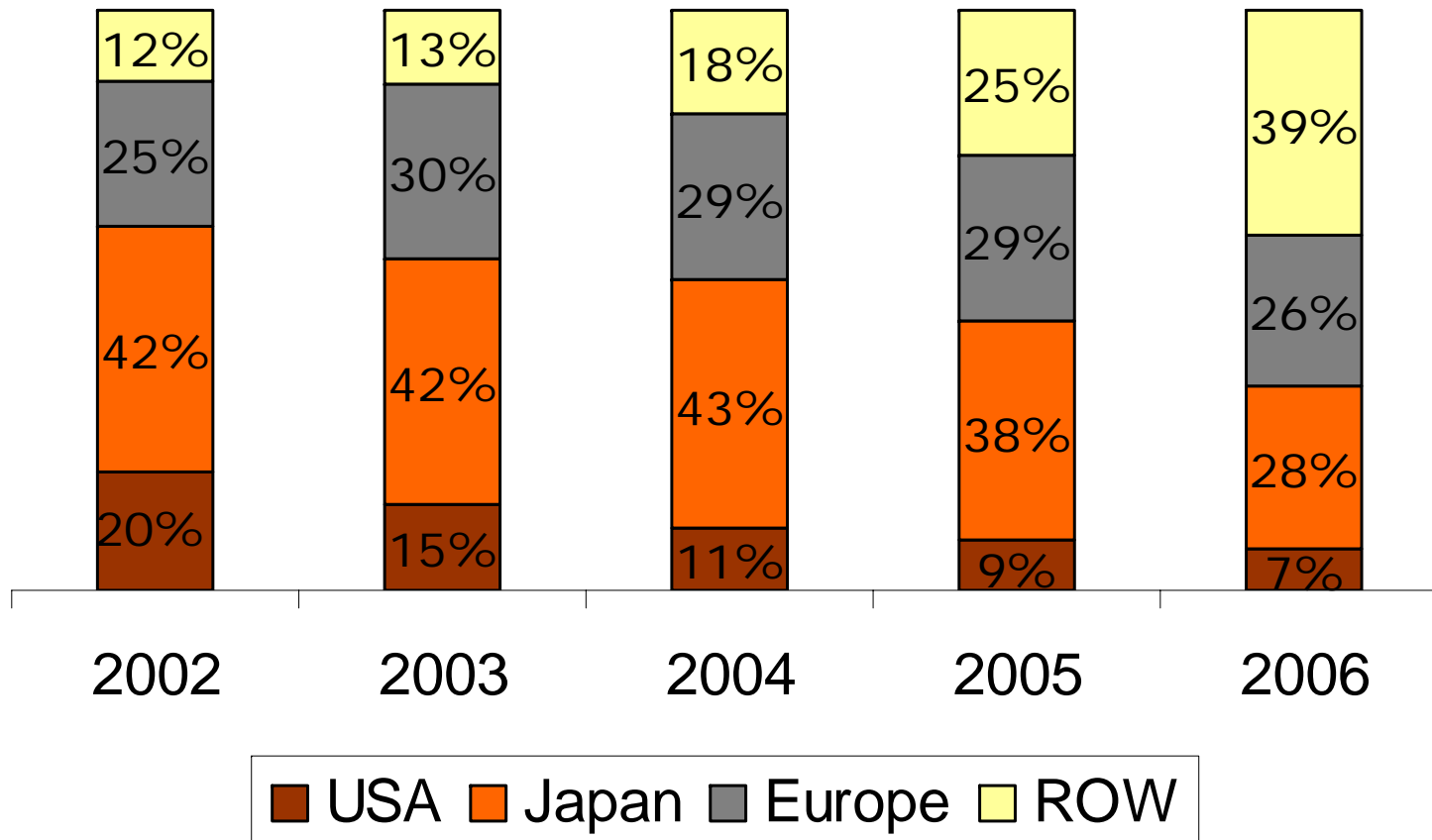
Source: Solarbuzz (2007)

The global PV market is expanding rapidly outside the U.S. and commercialized technologies are rapidly reducing solar electricity costs at a rate similar to previous semiconductor technologies.

Global PV Manufacturing Capacity



PV Manufacturing Capacity by Region (MW)



In the rapidly expanding PV Marketplace, the US share of PV manufacturing capacity is declining.

Source: Solarbuzz (2007)

First Solar/Juwi Brandis Project



Relative size of 6MW project in Rote Jahne



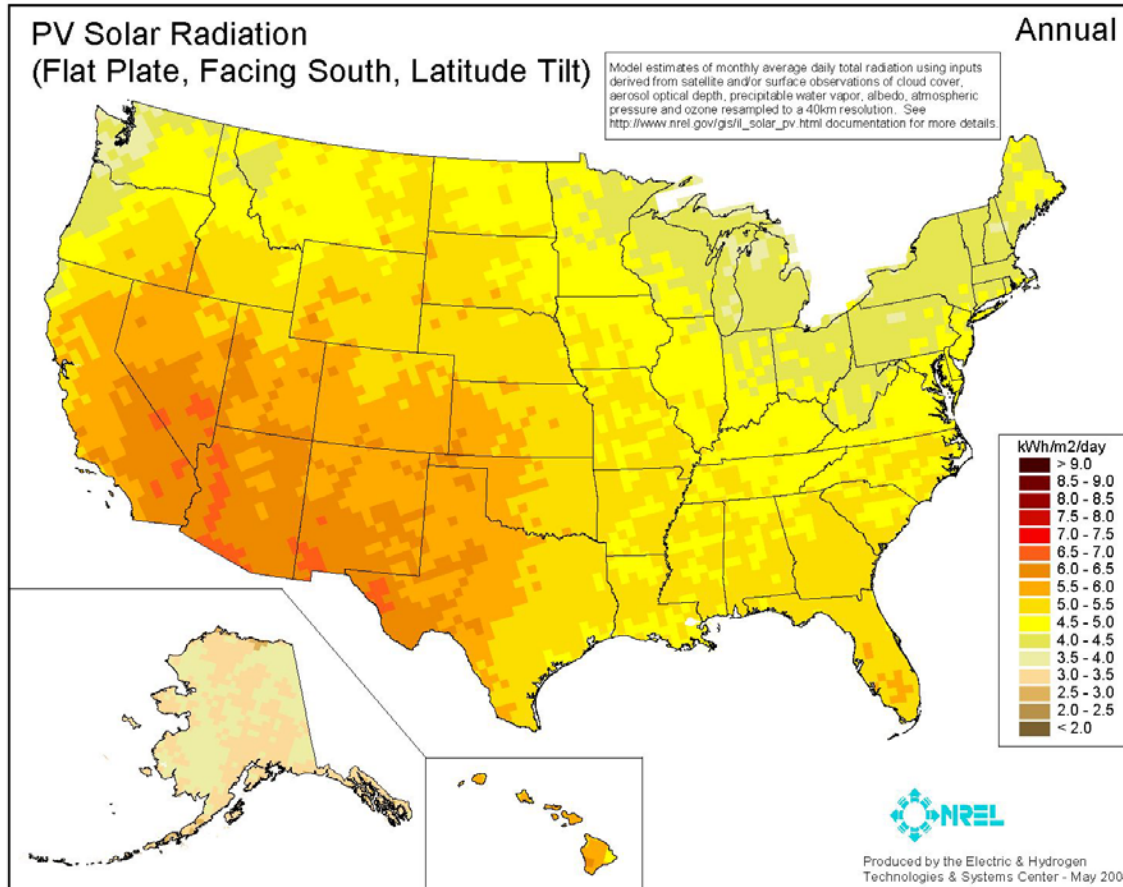
40 MW

Brandis, Germany
Project Developer: Juwi

Just Announced
Under Construction

3,250 €/kW per juwi February 2007 Press Release

U.S. PV Electricity Pricing Based on Brandis (3,250 €/kW)



Las Vegas:	15.8 ¢/kwh
Phoenix:	16.2 ¢/kwh
San Diego:	18.0 ¢/kwh
San Antonio:	18.9 ¢/kwh
Newark:	21.3 ¢/kwh
Chicago:	21.8 ¢/kwh
Pittsburgh:	22.7 ¢/kwh

