



SUNPOWER™

SunPower Overview

2011



Established and Proven Technology Innovator

- Founded in 1985
- Publicly traded company: NASDAQ
- 5,000 employees, 100% solar
- 25 years of R&D, 120 patents
- Diversified portfolio: residential, commercial, power plant & utility
- World record cell efficiency: 24,2%
- 550 systems over 4 continents
- Over 600 MW installed or under construction worldwide



SunPower Business Segments



Residential



Commercial



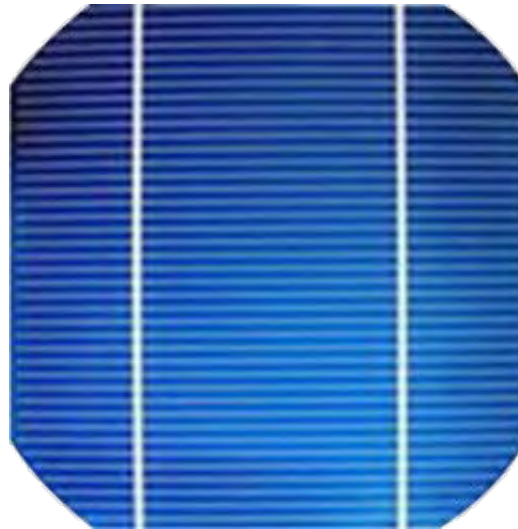
Power Plants

Most Efficient Cells in the Industry

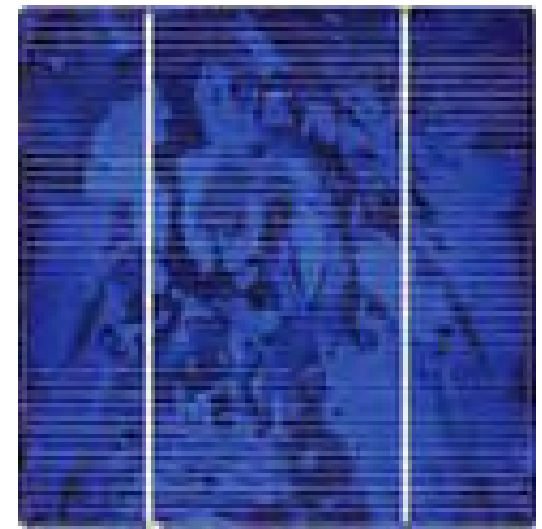
SunPower cells are up to 50% more efficient than conventional ones due to unique all-back contact design



SunPower cells
22-23% efficiency*



Conventional cells
Monocrystalline 15-17% efficiency



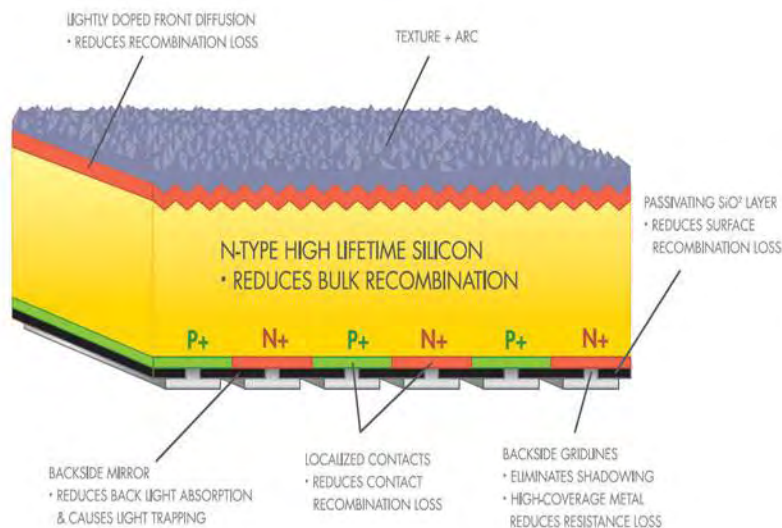
Conventional cells
Polycrystalline 14-16% efficiency

* SunPower reached 24,2% in a R&D prototype

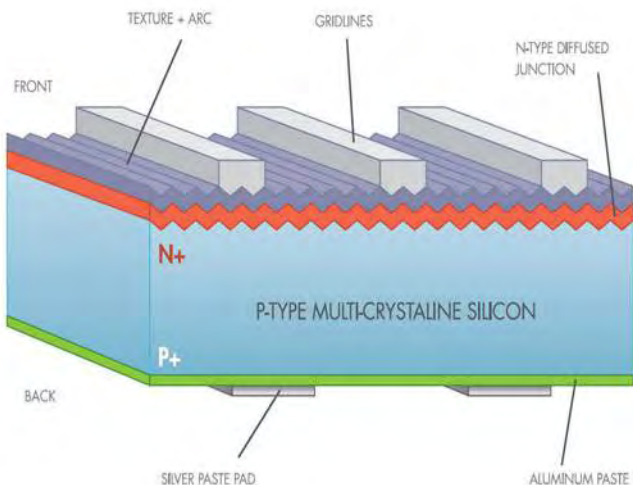
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How SunPower Cells achieve record efficiencies

SunPower Solar Cell



Conventional Solar Cell



1. Maximum light capture

- Up to 10% more sunlight on cell surface

2. Reduced Resistive losses

- Back contacts enable wider and thicker, lower resistance contacts

3. Minimum Recombination Loss

- Passivating Silicon dioxide on front and back of cell minimizes recombination loss

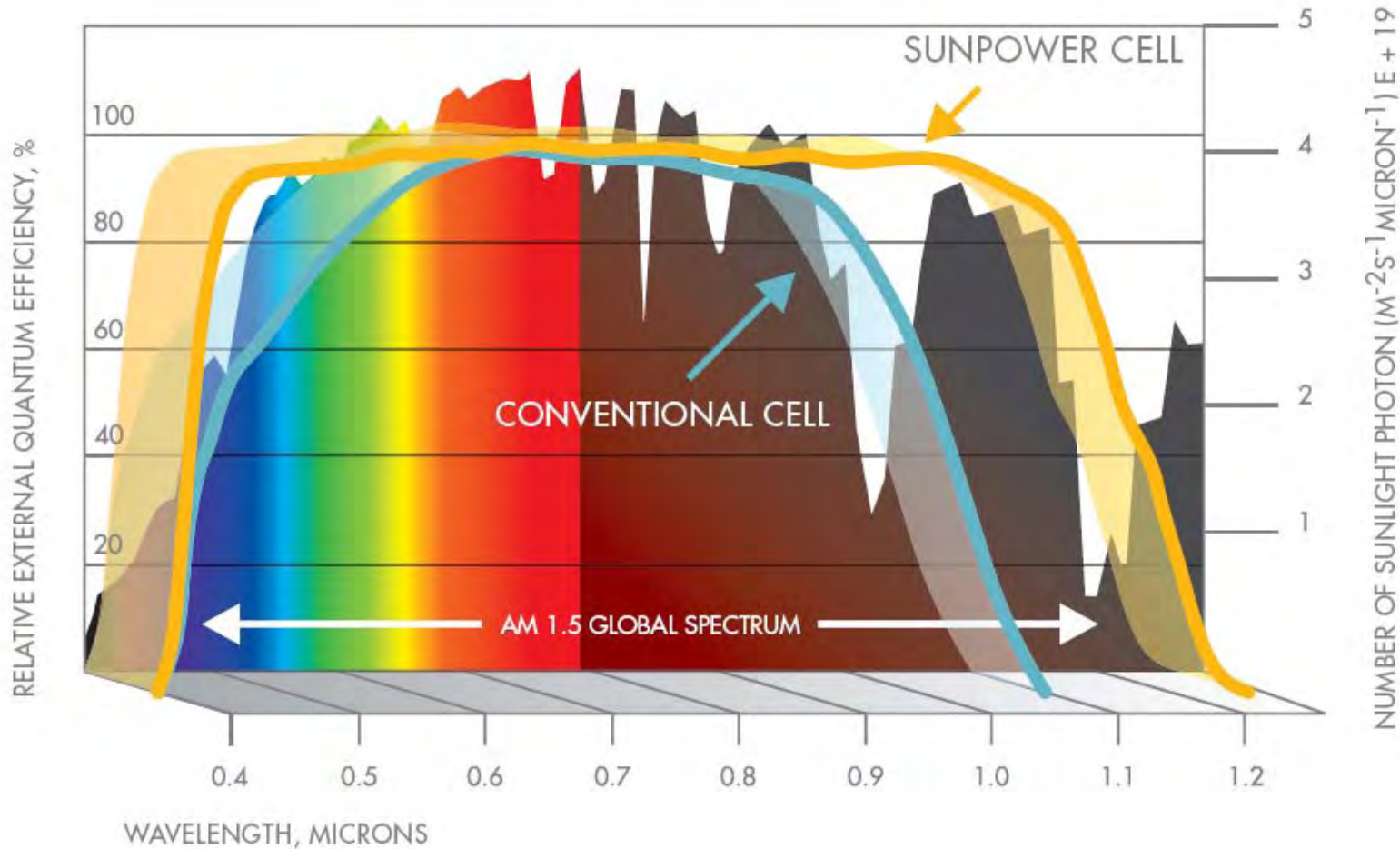
4. Maximum Absorption of Light

- Back-side mirror gives photons a second chance to generate power

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Broad Spectral Response

SunPower Cells capture more light from the blue and infra-red parts of the spectrum, enabling higher performance in overcast and low-light conditions



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More Energy Delivered per Rated Watt

Superior light capture

Superior temperature performance

No light-induced degradation

Highest cell efficiency

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SunPower Panels



Most powerful PV panels on the market

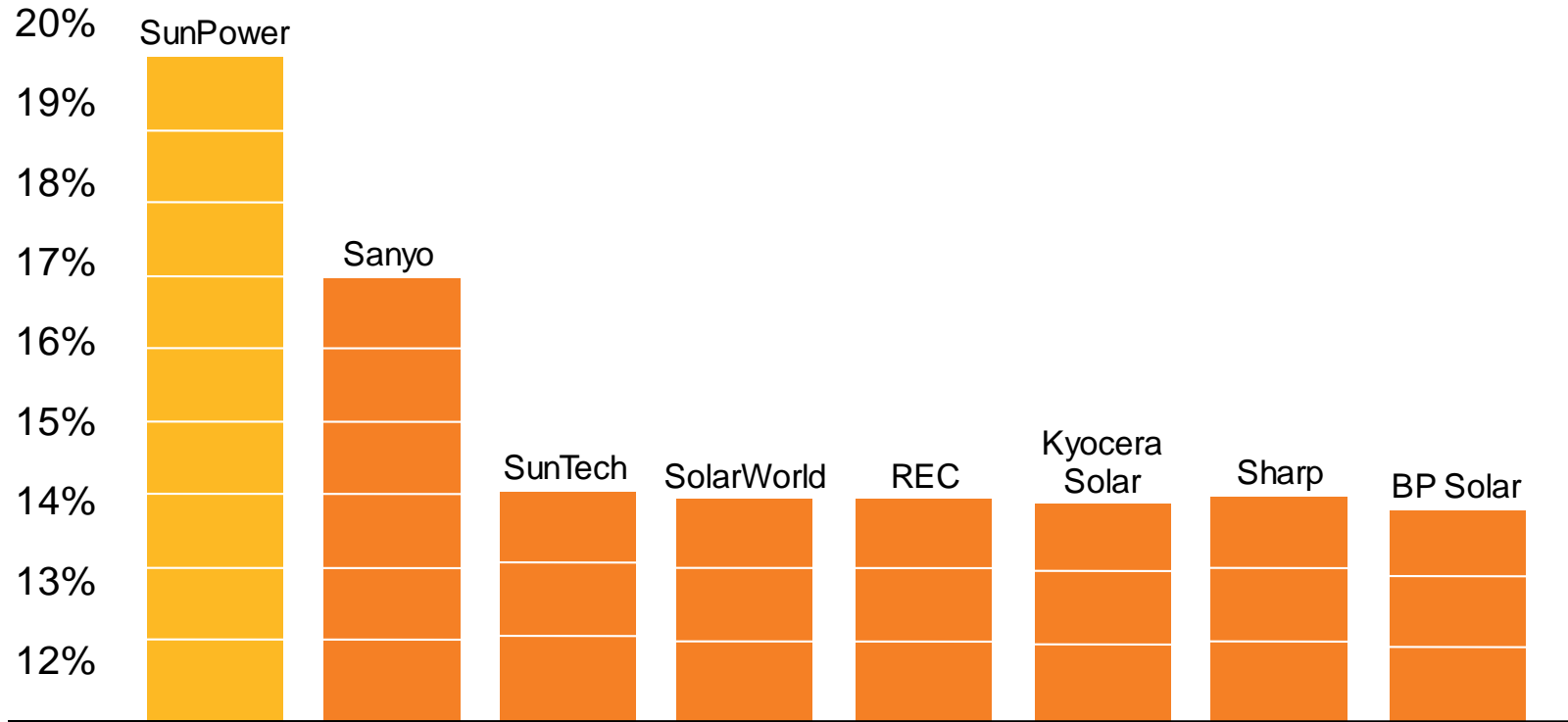
- Industry leading panel efficiency: 19,5%
- Produce up to 50% more than conventional panels and up to 4 times more than thin film panels per unit area
- Highest real-world performance in high temperature and low light

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World Record Efficiency

SunPower Solar Panels are up to 50% More Efficient

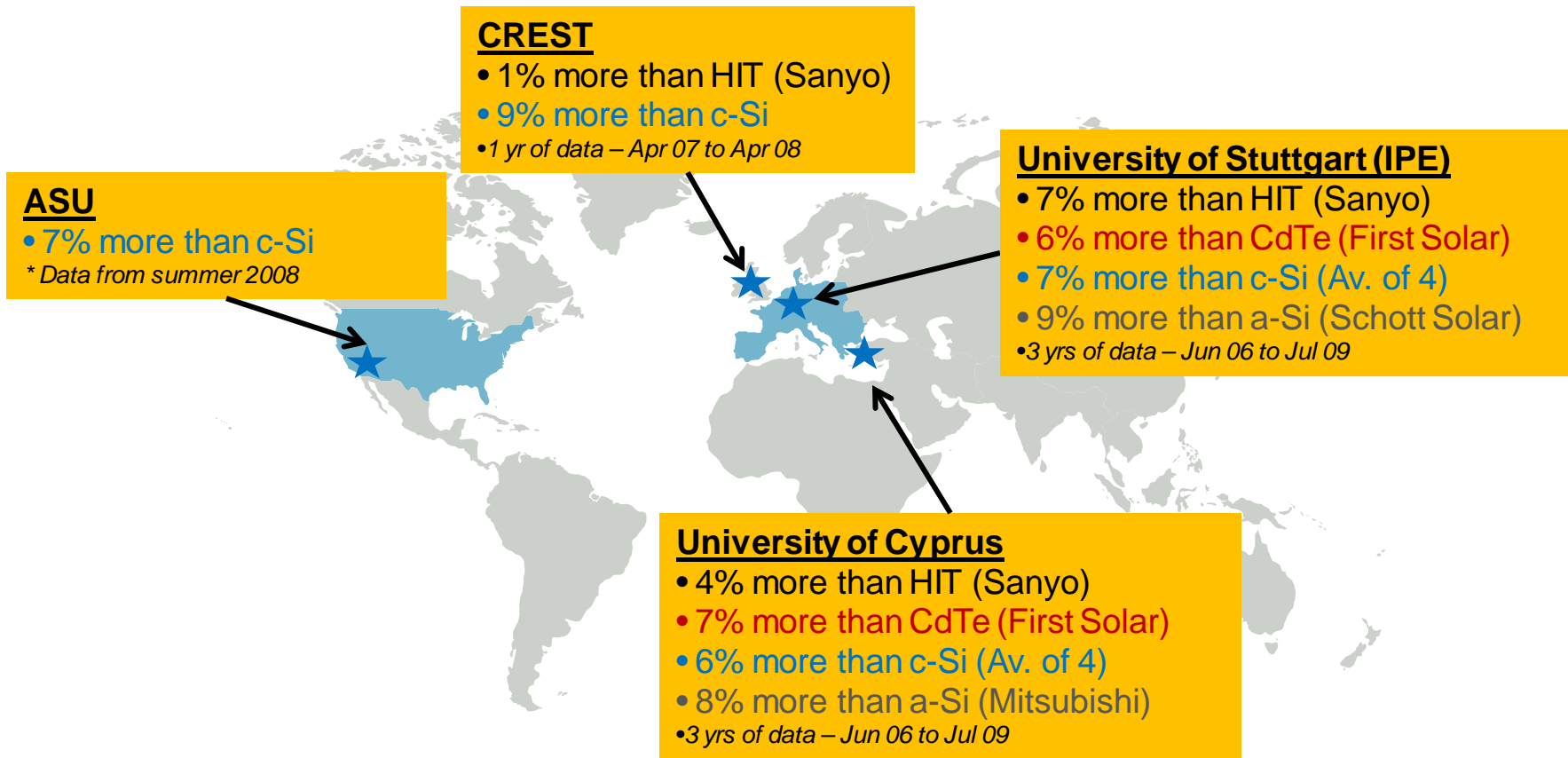


As published in Photon International, February 2009

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SunPower Energy Performance

Independent tests show that SunPower panels provide superior energy performance (kW-hs/kWp) at sites throughout the world



★ *Independent studies measuring kW-hrs generated per kW*

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SunPower T10 Solar Roof Tile



Patented next-generation commercial roofing system

- Best in class non-penetrating mounting system
- Higher energy delivery due to 10 degree tilt and sunlight reflectors
- Lightweight with high wind-performance

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SUNPOWER™



More power, a better investment



Highest panel efficiency

Most sunlight captured

Exceptional performance even
in low-light environment

Greatest long-term energy production

Reliable system performance

SUNPOWER™

Why efficiency matters

Maximize system size



SunPower solar



Conventional solar

- 1 High efficiency solar technology delivers higher power density
- 2 Resulting system capacity generates more of the energy you need

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Why efficiency matters

Minimize Roof Space



SunPower solar



Conventional solar

- 1 Use significantly less space to generate the same amount of power
- 2 Select optimal part of the roof for the solar array

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Superior Quality

- World class quality assurance processes
- ISO 9001 certification
- IEC 61215, 61730 and UL 1703 panel certifications
- Industry-leading panel warranty



Quality built to last: SunPower Warranties



10 year product warranty
25 year performance warranty



SUNPOWER™





A rock-solid partner with a strong balance sheet

Key figures	2007	2008	2009
Total revenue in millions	774	1.437	1.524
Number of employees	3434	5400	5160
Manufacturing Capacity	214 MW	414 MW	574 MW*

* Fab 3 under construction – 1 GW capacity

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SunPower - The Trusted Choice for Solar



TOSHIBA



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Johnson & Johnson



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