

Welcome to Solar Weekly Insight, presenting the most important developments in the global solar industry, ranging from significant industry trends, policies, research, and new technologies to markets and pricing.

This week's edition focuses on PV market updates, large CSP projects, and a co-operation between Solar Junction and Amonix on CPV development.

PV quarterly results: First Solar, Trina, Yingli, Enphase



First Solar achieved the record efficiency at its factory and R&D center in the US state of Ohio

This week First Solar released fourth quarter 2012 results, reporting record revenues of USD 1.08 billion, as well as unveiling a world record 18.7% efficient CdTe PV cell. [More](#)

Trina Solar's 4Q results were less encouraging, with a drop in revenues and ongoing losses in the fourth quarter. [More](#)

Meanwhile, Yingli released information on shipments, estimating a 40% increase over the third quarter and a total of 2.3 GW in 2012, but warned of negative margins. [More](#)

Finally, microinverter maker Enphase showed continuing growth and margin improvement in its quarterly results, in which it revealed that it now holds the largest market share of any inverter maker in California's residential PV market. [More](#)

CSP: Abengoa shifts markets, Siemens starts work on 100 MW in South Africa

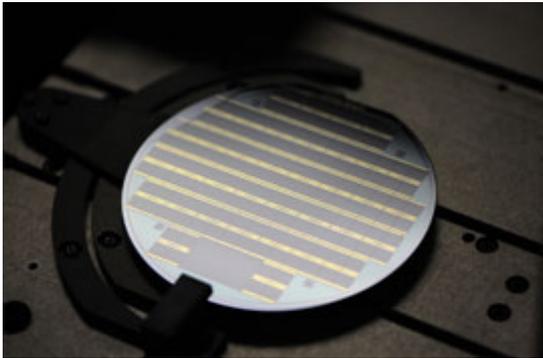


Abengoa has also released 2012 results, showing growth, profitability, and a shift towards US and Latin American markets. The company has indicated that it is leaving the Spanish market while pursuing legal action against the government over retroactive FIT cuts. [More](#)

And Siemens reported late last week that it has started work on two 50 MW CSP plants in South Africa. [More](#)

Picture left: Abengoa's USD 120 million in R&D investments in 2012 include investigations of higher temperatures and molten salt as a receiver in solar power tower CSP technology

CPV: Solar Junction, Amonix join forces



This week CPV makers Solar Junction and Amonix announced a co-development agreement, bringing together the companies with the world's highest-efficiency cells and highest-efficiency modules.

"It's our goal, by combining our world record module technology with Solar Junction's world record solar cell, that we can increase efficiencies while driving CPV costs down. The results of this collaboration, and its lower levelized cost of electricity (LCOE), will be revealed soon", said Amonix CEO Pat McCullough. [More](#)

Picture left: Solar Junction has reached a world record of 44% PV cell efficiency at 942 suns with its multi-junction technology

Promotion

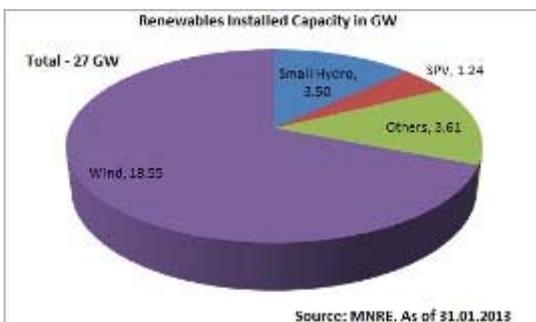
PV Power Plants - EU 2013, 14 - 15 March 2013, Warsaw, Poland



The "PV Power Plants – EU 2013" will be hosted in Warsaw, Poland. It has established itself as a renowned meeting place with good opportunities for professional exchange and networking. Poland with its new legislation for PV and further Eastern European markets will be lit up, as well as increasing international markets. The event will also focus on technical questions and continue to have a closer look on quality assurance and financing of large PV projects as well as the energy transmission.

[More](#)

Market updates: US, India



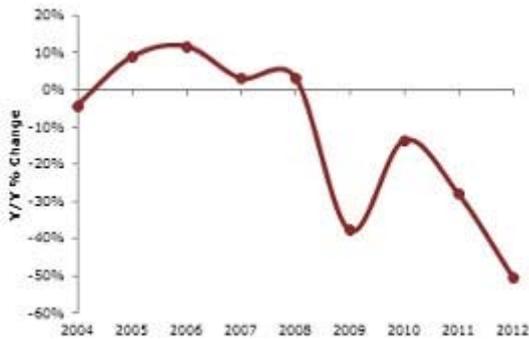
Solar photovoltaics (red) makes up a small portion of the overall installed capacity in India, but has reached 10% of renewable capacity added in the last three years

This week the US DOE's Energy Information Administration released electricity generation data for 2012, showing that large-scale PV and CSP generated 4.34 TWh.

When combined with behind-the-meter PV, the US met 0.3% of electricity demand with solar during the year. [More](#)

Meanwhile, India's MNRE has reported that the nation connected 1.23 GW of solar power to the grid in the last three years, led by Gujarat. [More](#)

Reports show struggles in PV industry



NPD Solarbuzz estimates that c-Si PV module ASPs have fallen 80% in four years

Late last week EuPD Research predicted that Germany will install only 3.9 GW in 2013, roughly half 2012 levels, causing pain for both manufacturers and installers. [More](#)

NPD Solarbuzz has supplied data on average selling prices for PV modules in 2012, reporting a 50% fall in c-Si module prices over the year. [More](#)

Solarbuzz also released an analysis late last week which indicates that the global PV market grew a mere 4.6% in 2012 to 29.0 GW. [More](#)

Promotion

6. Energy Storage World Forum: Special discount for subscribers of SolarServer's newsletter



Download the program here: <http://goo.gl/DDjcb>

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The past **Energy Storage World Forum** had a total of 200+ speakers including more than 30 leading utilities such as EDF, E.ON, ENBW, RWE, GDF SUEZ, TERNA, DONG ENERGY, CHINA STATE GRID, ENEL, with participants from over 35 countries.

The 6th Energy Storage Forum Berlin will feature 50 speakers including 17 utilities/TSOs/DSOs and 7 regulators from over 17 countries. There will be over 40 topics to be discussed covering all aspects of energy storage. [More](#)

Thanks for your interest in the Solar Weekly Insight. Stay posted for next week's industry highlights.

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