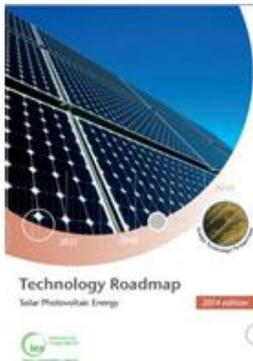


Welcome to Solar Weekly Insight, presenting the most important developments in the global solar industry, ranging from significant industry trends, policies, research, and new technologies to markets and pricing.

This week's edition focuses on IEA's new solar PV roadmap, large PV Projects in Japan, Latin America and Africa, and a new PV record.

IEA: Solar PV systems may generate up to 16% of the world's electricity by 2050

The sun could be the world's largest source of electricity by 2050, ahead of fossil fuels, wind, hydro and nuclear, according to a pair of reports issued by the International Energy Agency (IEA, Paris). The two IEA technology roadmaps show how solar photovoltaic (PV) systems could generate up to 16% of the world's electricity by 2050 while solar thermal electricity (STE) from concentrating solar power (CSP) plants could provide an additional 11%.



“The rapid cost decrease of photovoltaic modules and systems in the last few years has opened new perspectives for using solar energy as a major source of electricity in the coming years and decades,” said IEA Executive Director Maria van der Hoeven.

With 137 GW of capacity installed worldwide at the end of 2013 and adding up to 100 MW each day, solar PV deployment so far has been much faster than that of STE, mainly thanks to massive cost reductions. [More](#)

Big PV in Japan, Latin America, and Africa

This and several „mega” solar PV projects have been announced last week, with the largest project (231 MW) to be realized in Japan by 2019, and multi-gigawatts to come in Latin America.

Japan's largest solar PV project (231 MW) funded with investment by GE, Toyo

Kuni Umi Asset Management, GE unit GE Energy Financial Services and Toyo Engineering Corporation have invested in Japan's largest solar photovoltaic (PV) project, a 231 megawatt facility to be built in Setouchi City, Okayama Prefecture, via special purpose company and representative member Setouchi Future Creations.

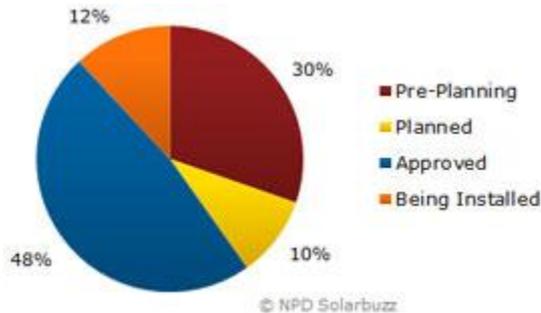


The PV project is expected to reach commercial operation in the second quarter of 2019 and sell its solar power to Chugoku Electric Power Company under a 20-year power purchase agreement (PPA) that uses Japan's renewable energy feed-in tariff regime. [More](#)

Picture left: In addition to capital, GE will supply some of the PV inverters - marking the debut in Japan of the GE 1 MW Brilliance solar inverter

Latin America, Caribbean region to install 9 GW of solar PV within five years

Solar photovoltaic (PV) technology is poised to play a substantial role in fulfilling the need for increased power generation capacity across the Latin America and Caribbean (LAC) region. According to the latest NPD Solarbuzz "Emerging PV Markets Report: Latin America & Caribbean", the total solar photovoltaic (PV) project pipeline is growing throughout the region and now exceeds 22 GW across all phases of development.



Latin America & Caribbean five-year cumulative solar PV demand forecast by project status.

Source: NPD Solarbuzz Emerging PV Markets Report: Latin America & Caribbean

Over the next five years, approximately 9 gigawatts (GW) of projects will be installed: PV projects totaling 1 GW are already under construction, and 5 GW of projects have received approval to proceed and could begin construction soon.

"Solar PV is now starting to emerge as a preferred energy technology for Latin American and Caribbean countries," said Michael Barker, senior analyst at NPD Solarbuzz. [More](#)

Solarpack starts construction of its largest solar PV plant in South America; 25 MW for mining company in Chile

Solarpack (Getxo, Spain), a multinational company that develops and builds solar photovoltaic (PV) power plants, has started the construction of the 25 MWp Pozo Almonte solar PV plant, which will provide 13% of the energy used by the mining company Compañía Minera Doña Inés de Collahuasi.



The plant is located in Tarapacá, in the First Region of Chile. The PV plant, to be completed at the end of 2014, will generate 60,000 megawatt hours (MWh) of solar power per year, equivalent to the consumption of 25,000 households, and will avoid the generation of 50,000 tons of CO₂ every year. [More.](#)

Picture left: Solarpack has built the "Calama Solar 3" project in the north of Chile

Yingli Solar to supply over 24 MW of modules to the largest to PV plant in Honduras

Yingli Green Energy Holding Company on September 22nd, 2014 announced that it will supply over 24 megawatts (MW) of solar photovoltaic (PV) modules for the Pavana Solar Park, which is the largest solar PV project to break ground in Honduras, and owned by Energia Basica S.A., a Honduran energy company. Sybac Solar, a global solar PV integrator based in Murrieta, CA, United States, will provide engineering, procurement and construction (EPC) services. [More](#)

Promotion

Improve your PV O&M strategies to increase asset revenue



Do you want to understand how a proper O&M practice will allow you to better predict plant cash flows and how this can turn your assets into standardized, tradable instruments?

At the PV O&M USA conference (19–20 November, San Jose), leading investors, plant owners and O&M solutions providers such **Rabo Bank, NRG Energy, First Solar, Sunpower & EDF renewables** will be teaching you how to do this! Get the full details of the conference agenda, speaker line up and networking opportunities by downloading the brochure [here](#).

As a member of Solar Server, you can use the exclusive discount code **SERVER150** on the registration page, or in an email directly to Sarah: [send email](#).

New PV record: JA Solar multi-silicon solar cells achieve 20% conversion efficiency

JA Solar Holdings Co., Ltd. (Shanghai, China) on September 26th, 2014 announced that it achieved 20% solar energy conversion efficiency in its multi-crystalline silicon (multi-Si) solar cell.



By using advanced proprietary light trapping and surface passivation technologies, the JA Solar research team attained this absolute 1% increase in conversion efficiency only nine months after announcing the realization of 19% efficiency in its multi-Si cells.

JA Solar intends to mass produce multi-Si cells using its new technology and integrate its new high-efficiency multi-Si cells into commercial module assemblies in 2015. [More](#)

Utility-scale PV in West Africa: EIB backs 30 MW project in Burkina Faso with EUR 23 million

The European Investment Bank (EIB) has agreed to provide EUR 23 million (15 billion CFA) to support investment in one of the largest solar photovoltaic (PV) power stations in sub-Saharan Africa.



The EUR 70.5 million (46 billion CFA) scheme will be constructed at Zagtouli on the outskirts of Ouagadougou, the capital of Burkina Faso and operated by national electricity utility, SONABEL. The new plant is expected to act as a reference for future solar investment across the continent. [More](#)

The 20 year loan agreement for the 30 megawatt solar PV facility was signed at the European Investment Bank HQ

Private Chinese cleantech investor unveils strategy for green cities world-wide, aims at 50 GW of renewable energy capacity

Cheng Kin Ming, whose recent investments in solar companies are estimated to be worth nearly USD 20 billion, publicly announced his strategy to accelerate the world's transition to green cities. His approach is to identify the world's best, complementary clean technology companies to create entire supply chains, across multiple verticals, to produce integrated solutions on an enormous scale.



Cheng, also known as Zheng Jianming, is focusing on long-term investments to provide solutions to low-carbon cities. In November 2012, he acquired a 30 percent stake in Shunfeng Photovoltaic International Ltd.

With his backing, Shunfeng has evolved quickly into the world's largest integrated clean energy company with capabilities in design, engineering, manufacturing, construction, finance, insurance, operation and maintenance, energy storage, solar PV products and applications.

Cheng's goal is to deploy more than 50 gigawatts of installed clean energy capacity in the next 10 years – enough to power over 37 million homes. [More](#)

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

For free subscription, registration and recommendation please visit:

www.solarserver.com/registration

Follow Solar Server on twitter like over 5,150 solar stakeholders do:

<http://twitter.com/solarserver>

Publisher:

Heindl Server GmbH

Kaiserstraße 137
D - 72764 Reutlingen

Tel.: +49 (0)7121-69681-30
Fax: +49 (0)7121-69681-38

Register of corporations-No: HRB 382398
Handelsregister des Amtsgerichts Stuttgart

CEO / Editor in Chief: Rolf Hug
rolf.hug@solarserver.de

Solar Server: The Gateway to Solar Power around the world: www.solarserver.com

Solar Daily Insight: Breaking news at:

<http://www.solarserver.com/solar-magazine/solar-news.html>

For recommendation / registration please visit
www.solarserver.com/registration

We respect your privacy. If you do not like to receive future e-mails from us, please opt-out by sending an e-mail with re "no newsletter" to:
info@solarserver.com