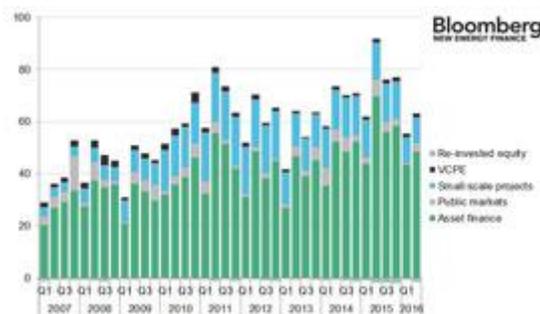


Welcome to Solar Weekly Insight, presenting the most important developments in the global solar and energy storage industry, ranging from significant industry trends, policies, research, and new technologies to markets and pricing.

This week's edition focuses on global clean energy investment figures, a utility-scale solar thermal heating solution in Denmark, expected global gigawatt deployments of residential energy storage systems, and energy storage as a promising source of solar job growth in the U.S.

Clean energy investment in H1, 2016 some 23% lower than in the first half of 2015

Clean energy investment in Q2, 2016 totaled USD 61.5 billion, some 12% above the first-quarter 2016 figure but 32% below a very strong outturn of USD 90 billion in the equivalent period of 2015, according to Bloomberg New Energy Finance (BNEF; London and New York).



Global investment in clean energy by quarter, 2007 to Q2, 2016, USD billion

Looking at the 2016 trend so far, and taking the Q1 and Q2, 2016 figures together, global investment in the first half of this year was USD 116.4 billion, some 23% lower than in the opening six months of 2015.

Europe's figure for H1, 2016 was up 4% at USD 33.5bn, and Brazil was up 36% at USD 3.7bn.

But all the other regions were down – China by 34% to USD 33.7bn, India down 1% at USD 3.8bn, the rest of Asia Pacific down 47% at USD 12.1bn, Middle East and Africa down 46% at USD 4.2bn, the US down 5% at USD 23.1bn, and the Americas excluding the U.S. and Brazil down 63% at USD 2.3bn. [More](#)

Arcon-Sunmark develops 110 MW solar thermal heating solution

Large-scale solar heating specialist Arcon-Sunmark (Skørping, Denmark) has begun the development of an 80,000 MWh solution with a 156,694 m² solar thermal collector field.



The installation will be erected on behalf of the Danish city of Silkeborg and its district heating plant. Arcon-Sunmark is the turnkey supplier for what will be the largest solar heating solution in the world.

The construction of the 156,694 m² collector field (Peak effect: 110 MW) is still in the early stages, but in six months' time the largest solar heating solution in the world will be completed on the outskirts of the city of Silkeborg, Denmark. [More](#)

Picture left: The solar thermal collector field (under construction) will produce 80,000 MWh per year when completed

New paper finds energy storage a promising source of solar job growth in the U.S.

Last week, The Solar Foundation (Washington, DC, U.S.) released a discussion paper at Intersolar North America which represents a first look at how the expansion of energy storage could impact the solar workforce.



While the conclusions reached in this paper are preliminary, the evidence suggests the emerging energy storage market will have a significant impact on solar jobs.

Specifically, the paper estimates there will be approximately 27,000 solar and storage related deployment jobs in 2021. [More](#)

The complete discussion paper along with details on the assumptions and methodology can be found at: www.thesolarfoundation.org/

Global annual deployments of residential energy storage systems are expected to increase to 3,773.3 MW in 2025

According to a new report from Navigant Research, global annual deployments of residential energy storage systems (RESSs) are expected to increase from 94.9 MW in 2016 to 3,773.3 MW in 2025.

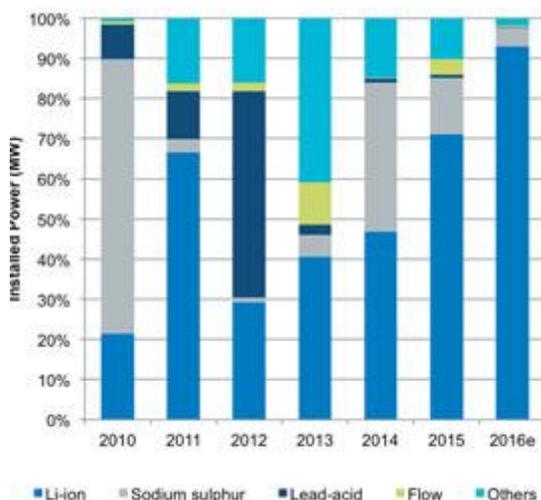


Momentum in the residential energy storage industry is growing rapidly as utilities begin to recognize the value residential energy storage systems (RESSs) can provide.

“While the economics of RESSs to save customers money only pencil out in certain markets, the involvement of utilities in this space opens significant new opportunities for market growth,” says Alex Eller, research analyst with Navigant Research. [More](#)

Global grid-connected energy storage projects pipeline to hit 2 GW

According to IHS Technology, energy storage pipeline advances are led by the United States, China and South Korea. The “IHS Energy Storage Company and Project Database – Q2, 2016” tracks a total of 2 gigawatts (GW) of grid-connected energy storage projects – a 20 percent increase, since the end of 2015.



Lithium ion’s (Li-ion’s) share of the energy storage market has grown steadily from 20 percent deployed in 2010 to 90 percent forecast for 2016. Roughly 300 megawatts (MW) – or 500 megawatt-hours (MWh) – of utility-side meter energy storage projects came online during the first half of 2016.

Driven by a surge in behind-the-meter energy storage installations in the United States, Australia, the United Kingdom, and Germany, IHS has revised its outlook. [More](#)

Chart left: Global energy storage projects by technology. Source: IHS Energy Storage Company and Project Database – Q2, 2016

Promotion



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Publisher:

Heindl Server GmbH

Kaiserstraße 137
D - 72764 Reutlingen
Germany

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

Fax: +49 (0)7121-69681-38

Register of corporations-No: HRB 382398

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

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