

Total investment cost of PV energy storage project in Sweden

What is Sweden's largest energy storage investment?

Sweden's largest energy storage investment, totaling 211 MW/211 MWh, goes live, combining 14 sites. From ESS News 14 large-scale battery storage systems (BESS) have come online in Sweden to deploy 211 MW /211 MWh into the region.

Could energy storage systems provide back-up storage in Sweden?

An ever-decreasing cost of photovoltaics (PV) combined with generous installation subsidies lead to a growth of PV systems in Sweden. A large-scale penetration of PV power would make Energy Storage Systems (ESS) interesting for providing back-up storage, enabling flexibility and regulating intermittence.

How is PV capacity distributed in Sweden?

The distribution of PV capacity in the four different price areas of Sweden was based on the installed PV power per municipality statistics from the Swedish Energy Agency . Some assumptions were made in the simulation to provide the most realistic data.

How much does a PV system cost in Sweden?

The ordinance has always included an upper cost limit per PV system. In 2006-2008 the limit was 5 million Swedish crowns (SEK) per system, in 2009-2011 it was 2 million SEK, in 2012 it was 1.5 million SEK, in 2013-2014 it was 1.3 million SEK and since 2015 until 2020 it was 1.2 million SEK. Download: [Download high-res image \(186KB\)](#)

How much peak power PV & storage capacity is needed in Sweden?

Figure 9: Estimation of installed peak power PV and storage capacity to enable 10 % of yearly electricity usage in Sweden to be covered. It can be seen from the results that 24 GW_{peak} power PV is needed as well as 3.46 TWh of electricity storage capacity.

Do PV systems get a capital investment subsidy in Sweden?

In addition, as described in section 1, PV systems are entitled a capital investment subsidy in Sweden. As the studied projects represent large PV systems, they all reached the upper cost limit of 1.2 million SEK (about 114,000 EUR) per PV system.



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