

Can a battery energy storage system complement a PV plant in Mexico?

An analysis was carried out to verify if it would be commercially feasible to operate a Battery Energy Storage System (BESS) to complement the operation of a PV plant in the Mexican market. This PV plant would generate a revenue through the contracting via the 2015, 2016 or 2017 LTAs in Mexico.

Why is the photovoltaic sector generating high investment expectations?

The photovoltaic sector in particular has generated high investment expectations, reflected in the results of the Long Term Auctions (LTA), in which solar energy projects had the largest participation in awarded contracts at very competitive prices.

What percentage of photovoltaic installed capacity is self-supply?

Self-supply represents 30.3% of photovoltaic installed capacity. 28% of the photovoltaic gross generation corresponds to self-supply. CRE has granted 546 self-supply permits (including operating stations, construction and those about to start the construction stage), from which 65 corresponds to photovoltaic technology.

How many large-scale photovoltaic power plants were installed in 2017?

According to the Programa de Desarrollo del Sistema Eléctrico Nacional (PRODESEN 2018 - 2032), 23 large-scale photovoltaic power plants were in operation by the end of 2017, representing about 0.28% of the total installed capacity and 0.105% of power generation during 2017.

What remuneration does a PV plant receive?

As a remuneration, 95% of the hourly PML price is paid to the PV plant operator for any energy fed into the grid. If the PV plant feed-in during an hour is within $\pm 5\%$ of the forecast that has been submitted by the PV plant operator to the grid operator CENACE, the PV plant receives 98% of the hourly PML price.

Can BESS be used for long-term auctions in Mexico?

Financial modeling and sensitivity analysis of the three selected BESS technologies. Chapter six analyzes the feasibility of operating BESS as part of Long-term Auctions in Mexico based on the services that these systems are able to provide and, on the auctions' legal and regulatory framework.



Photovoltaic ESS cost vs benefit calculation in Mexico



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