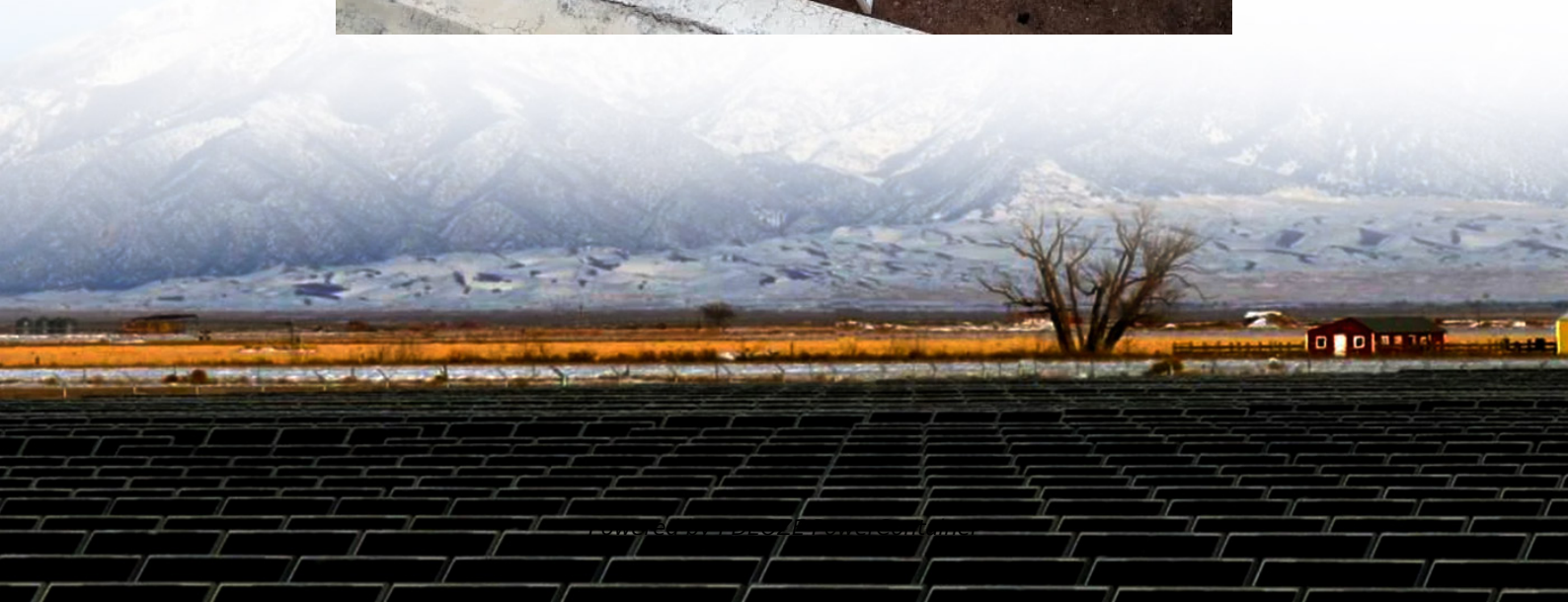


PDEOZE PowerContainer

South America behind-the-meter energy storage devices



Overview

Why are energy storage systems important?

Energy storage systems (ESSs) can help make the most of the opportunities and mitigate the potential challenges. Hence, the installed capacity of ESSs is rapidly increasing, both in front-of-the-meter and behind-the-meter (BTM), accelerated by recent deep reductions in ESS costs.

Which countries use SM meter?

In the European Union, Sweden and Finland are among the pioneers, having already equipped more than 80% of their customers with SMs. Other notable examples are Ireland and Italy, where all existing electricity meters are being upgraded with SMs to enable accurate billing via time-of-use pricing [62, 63].

Do prosumers need ESS metering?

Under Gross/net metering, for example, the sell rate is set equal to the retail electricity prices, so prosumers have no reason to install ESS and incur installation and maintenance costs, unless utilities impose limits on authorized hours and the amount of energy sold to the grid .

What are some examples of smart meters?

Other notable examples are Ireland and Italy, where all existing electricity meters are being upgraded with SMs to enable accurate billing via time-of-use pricing [62, 63]. In North America, almost all customers are equipped with modern smart meters, the same as those in Canada and Australia . SMs, however, present several challenges.

What is a smart meter?

Smart meter A smart meter (SM) is an advanced measurement device that monitors real-time power consumption and records this data at predetermined intervals. One of their great advantages is that the device's architecture and interface can be customized to offer a range of services .

What is a small-scale energy storage device?

small-scale energy storage devices: $P < 5$ MW. Small-scale ESSs are routinely installed in customers' premises, known as behind-the-meter (BTM) ESSs, typically up to 5 kW/13.5 kWh for residential customers and up to 5 MW/10 MWh for commercial and industrial units [11, 12].

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