

Ville neuss retail store energy storage

stoRE facilitates the realization of the ambitious objectives for renewable energy by unlocking the potential for energy storage infrastructure. Energy storage, as part of an integrated approach including grid reinforcement and demand management helps accommodate higher percentages of variable renewable energy by balancing the supply and demand and improving the power quality.

stoRE contributed in creating the right regulatory and market conditions that gives incentives for the development of energy storage infrastructure to the extent necessary for the accommodation of the planned renewable energy installations to the electricity grid.

All key actors on the European level were involved in a process designed to build consensus about the necessary adaptation of the European Energy framework and policies, developing concrete recommendations and plan their implementation. Similar work was undertaken in the target countries, leading to improvements of the policies, legislation and market mechanisms.

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This report gives a snapshot of all the main outcomes of the stoRE project.

This report investigates the barriers within the German regulatory and market framework to furthering the development of bulk energy storage...

One look at the enigmatic Mesa Laboratory and you could never forget it. Situated in the outskirts of Boulder, Colorado and designed by the much celebrated architect I. M. Pei for the US National Center for Atmospheric Research (NCAR) in the 1960s, the research center focuses on meteorology and climate sciences with environmental and societal impact. This breakout building of concrete and geometric shapes changed the course of the career for Pei, who went on to design his more famous works including The Louvre Pyramid in Paris and Bank of China Tower in Hong Kong.

Elsewhere in Colorado, our portfolio manager Ken-Ichi Hino is mulling over the design of a very different type of building: energy storage. Because renewable energy like solar and wind power is intermittent and unpredictable, batteries are needed to save up power when there is an oversupply and to release what is stored when there is high demand. To our Energy Storage team (part of the UBS Real Estate and Private Markets Infrastructure team), the design of a battery project is critical, and it takes engineering and economical craft and might to get it right. I. M. Pei once quipped, "No one combines art and functionality like an architect"; perhaps it can be said that energy storage combines climate technology with functionality like nothing else.

The need for energy storage

The world is using more electricity, and more of it is coming from solar and wind. With continued electric vehicle adoption and rapid AI proliferation across industries driving up demand, energy storage makes for a perfect complement to solar and wind and is critical in balancing a renewables-heavy grid.

Transition towards decarbonization will span decades, but now is an interesting time for energy storage. Battery technologies are scaling quickly, making energy storage commercially lucrative in more and more markets. The overall energy storage market is projected to grow more than 35% annually through the end of this decade. In the US alone, it is expected to grow 20 times over from 2020 to 2030.¹ The path solar has taken in its growth to where it is today is one we believe storage will follow.

That said, investing in energy storage is a craft and requires weaving together deep market, technical and operational expertise. From the right location to the right design, from a reliable supply chain agreement to a capital efficient financing structure, every step is crucial to delivering a successful energy storage project. Barriers to entry are high and business models have not fully come to form, creating a market opportunity that can only be maximized by a few. Since economics are highly attractive in certain markets, energy storage could potentially offer higher returns than traditional infrastructure.

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