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Energy storage costs at French power plants

Overview

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PARIS (AURORA ENERGY RESEARCH)– The French energy regulator CRE has officially unveiled TURPE 7, a new grid tariff system set to take effect on 1 August 2025, designed to modernise grid pricing and accelerate the integration of battery storage and renewable energy. Building on the previous TURPE 6.

The government published new “S21” rates – to be paid for excess solar electricity fed into the grid from systems up to 500 kWp in size – during the event. For systems up to 9 kWp in scale, the self-consumption bonus has been halved, to €80 ($87.70)/kWp, having already been reduced 40% over the.

France is preparing to reshape the economics of battery energy storage with a new tariff structure designed to reward flexibility rather than penalize consumption. Starting in August 2026, the country’s latest grid tariff reform — TURPE 7, approved by the Commission de Régulation de l’Énergie (CRE).

Recent industry analysis reveals that lithium-ion battery storage systems now average €300-400 per kilowatt-hour installed, with projections indicating a further 40% cost reduction by 2030. For utility operators and project developers, these economics reshape the fundamental calculations of grid.

France is continuing its ambitious push into renewable energy, installing an impressive 4.2 GW of new solar capacity in the first nine months of 2025. This brings the nation’s cumulative installed solar capacity to a significant 27.5 GW. While this represents a robust expansion, the pace shows a.

While tourists joked about athletes needing portable generators, France’s

energy sector was already sprinting toward a solution: large-scale energy storage power plants. With projects like the 240MW/480MWh Tesla-powered behemoth in Cerny-la-Reims breaking ground in 2025 [2], Paris isn’t just. How much does electricity cost in France?

According to the latest quarterly report from the French energy regulator (CRE, 2019), 35% of a typical electricity bill (varying between €170 and €200/MWh e depending on the tariff chosen and consumption profile) represents electricity production, which costs between €59–€70/MWh e.

Should France invest in new nuclear power plants?

France is at the crossroads of the decision to retrofit existing power plants and invest in new nuclear power plants, or slowly decrease the proportion of nuclear power in favor of a renewables-dominated power mix (DNTE, 2013). In France, a wide range of prospective studies have been conducted by public authorities, companies and associations.

Is France a “business as usual” power system?

These results contrast with those of Krakowski et al. (2016), where the least costly scenario for France is presented as being “business as usual”, and increasing the proportion of RES gradually increases the annualized cost of the power system by approximately 20% for an electricity mix with 80% of RES (€40bn/year).

Are renewables the key to the French energy transition?

Among them, the “ 100% renewable power mix” study (ADEME, 2015), and “ electricity mix development trajectories 2020-2060” (ADEME, 2018a) explicitly optimize the power system and study the role of renewables in the French energy transition. Our results in the previous fully-renewable power mix study were very close to those of these two studies.

Are battery electricity storage systems a good investment?

This study shows that battery electricity storage systems offer enormous deployment and cost-reduction potential. By 2030, total installed costs could fall between 50% and 60% (and battery cell costs by even more), driven by optimisation of manufacturing facilities, combined with better combinations and reduced use of materials.

Are batteries the future of energy storage?

That’s where energy storage solutions, such as batteries, have a vital role to play. Technological developments and market uptake have already had a positive impact on the storage sector: the costs of battery storage are down by 93% since 2010, according to the International Renewable Energy Agency (IRENA).

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