Energy storage market prague

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The Czech energy sector is largely built around two large nuclear plants and several smaller conventional coal power plants. Nuclear and coal power plants provide primarily baseload power at a high level of utilization, while gas fired units, reservoir hydro and pumped storage provide flexible generation. Recent rises in costs of carbon credits have made coal power plants almost financially inviable.

In 2022, Czech gross electricity production reached 78.8 terawatt-hours (TWh), while domestic consumption was around 60.4 TWh. The Czech energy mix was made up of 53.60 percent fossil fuels (47.50 percent lignite, 5.86 percent natural gas, etc.), 40.95 percent nuclear power, and 5.46 percent renewables (3.34 percent biomass, 1.47 percent solar, 0.63 percent water, etc.). The first green hydrogen electrolyzer powered by solar energy in the Czech Republic started in May 2023 with production capacity of about 100 kilograms per day / 8,000 kilograms of green hydrogen per year.

While the goal of EU funds is to support a sustainable low-carbon-emission economy and ensure energy security by utilizing alternative energies, the Czech approach is different. As described in the State Energy Policy, the future Czech energy mix will be primarily based on nuclear power with a goal of reaching 50 percent of the energy supply. Due to EU regulations, the share of coal energy will decrease but be largely replaced by both one (and possibly more) large nuclear reactors. The deployment of a series of small modular reactors is also under consideration by the Czechs. The share of alternative energies will grow but its potential for becoming the backbone of the energy sector is unclear.

Table: Market Size (US$, thousands)

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