

PDEOZE PowerContainer

Norway wind solar and energy storage project



Overview

Energy Transition Norway's research and development (R&D) projects focus on renewable energy, carbon capture and storage (CCS), enhanced oil recovery, and decommissioning. How do power plants in Norway work?

Many power plants in Norway have storage reservoirs and production can therefore be adjusted within the constraints set by the licence and the watercourse itself. Wind and solar power are intermittent; electricity can only be generated when the energy is available. The same applies to run-of-river power plants and small-scale hydropower plants.

Are solar power plants a good investment in Norway?

Most solar installations are rooftop systems installed on private homes and industrial buildings, primarily covering the owners' own electricity consumption. In recent years, there has been growing interest in ground-mounted solar power plants. Norway's thermal power plants accounted for about 1.5% of the total production capacity in 2025.

Does Norway have a battery market?

Today Norway has not one, but two huge battery markets. "There are two market drivers for batteries: EVs and stationary energy storage. Energy storage is coming on strong now. It's the key to turning intermittent wind and solar into a stable energy source," explains Pål Runde, Head of Battery Norway.

How much solar power does Norway have?

As of the beginning of 2025, the total installed capacity for solar power in Norway was 767 MW. In 2023, over 90 percent of the solar power capacity was connected to the Norwegian power grid. Around 5 percent of solar installations in Norway had an installed capacity of more than 50 kW in 2023.

How many thermal power plants are there in Norway?

Hence, production often depends on the electricity needs of the industry. These power plants use a variety of energy sources, including municipal waste, industrial waste, surplus heat, oil, natural gas and coal. There are 30 thermal power plants in Norway, with a total installed capacity of about 538 MW.

Is Norsk Hydro planning a new pumped storage power plant?

In April 2020, the Norwegian Ministry of Energy granted Norsk Hydro a concession to develop the Illvatn pumped storage power plant. An application for a plan change is being processed by the Norwegian Water Resources and Energy Directorate (NVE).

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