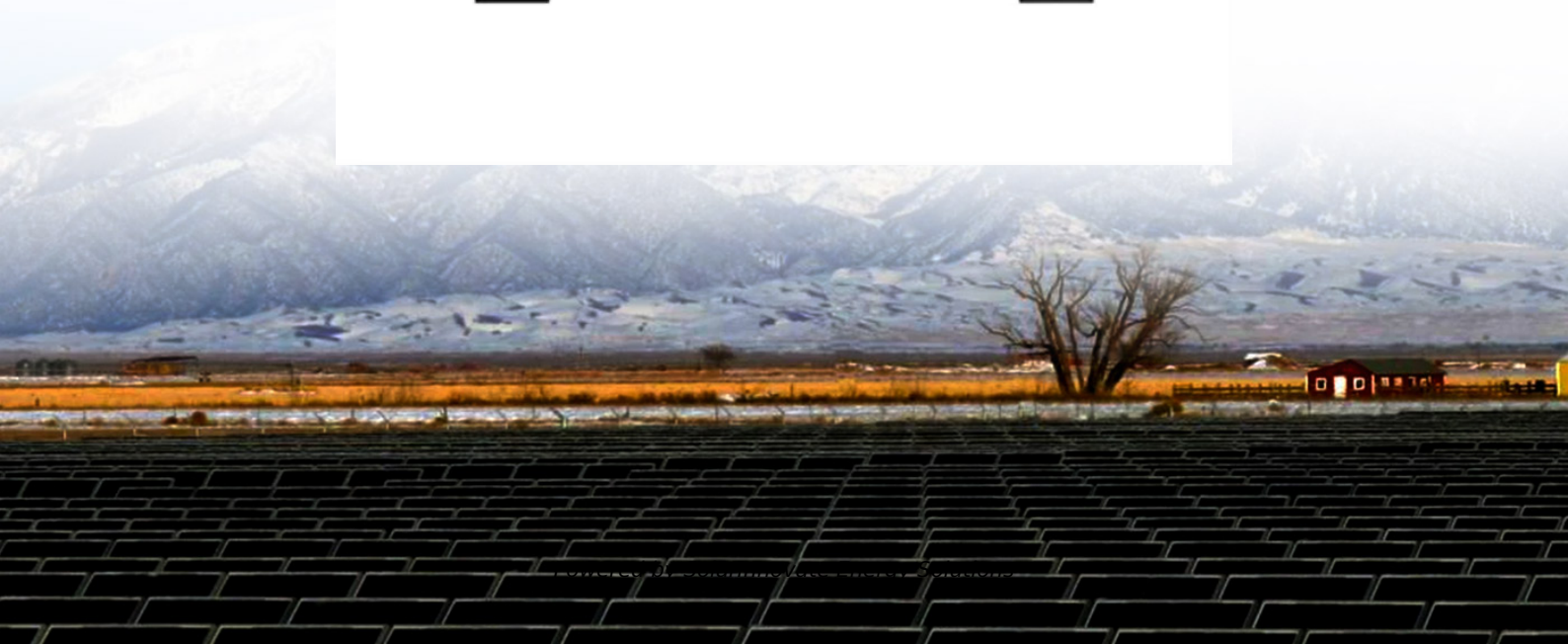


## SolarInnovate Energy Solutions

# Austrian photovoltaic power station energy storage requirements



## Overview

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Austria will need a battery energy storage capacity of 8.7 GW by 2040 to address the expansion of renewable systems and the rising power demand, according to a study published on Thursday. How many photovoltaic battery storage systems are there in Austria?

Of these, approx. 94% were built with public funding and 6% without. The total inventory of photovoltaic battery storage systems in Austria therefore rose to 11,908 storage systems with a cumulative usable storage capacity of approx. 121 MWh.

How big is Austria's hydraulic storage power plant capacity?

In 2020, Austria had a historically grown inventory of hydraulic storage power plants with a gross maximum capacity of 8.8 GW and gross electricity generation of 14.7 TWh. This storage capacity has already played a central role in the past in optimising power plant deployment and grid regulation.

Does Austria have a market for energy storage technologies?

A study 1 carried out by the University of Applied Sciences Technikum Wien, AEE INTEC, BEST and ENFOS presents the market development of energy storage technologies in Austria for the first time.

How has photovoltaics impacted Austria's electricity generation?

The growth in the last year can be traced back to the significant increase of photovoltaics. The photovoltaic share of electricity generation has more than doubled since 2022, rising from 0.98 TWh in 2022 to 2.35 TWh in 2023, meaning that photovoltaics now accounts for 4.4% of Austria's electricity generation.

How many tank water storage systems are there in Austria?

A total of 840 tank water storage systems in primary and secondary networks with a total storage volume of 191,150 m<sup>3</sup> were surveyed in Austria. The five

largest individual tank water storage systems have volumes of 50,000 m<sup>3</sup> (Theiss), 34,500 m<sup>3</sup> (Linz), 30,000 m<sup>3</sup> (Salzburg), 20,000 m<sup>3</sup> (Timelkam) and twice 5,500 m<sup>3</sup> (Vienna).

How many terawatt hours of green gas a year in Austria?

A total of at least 7.5 terawatt hours of green gas will then be fed into the gas grid in Austria every year. In addition, the draft of the Hydrogen Promotion Act (Wasserstoffförderungsgesetz, WFöG) was adopted by the Council of Ministers on 15 May 2024 and forwarded to the National Council. The WFöG promotes the production of renewable hydrogen.

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