

Wind energy plants supplement Switzerland's electricity supply during the winter. Wind energy is an ideal accompaniment to electricity production from solar facilities and hydropower plants.

We develop two new functionalities to explore the substitutability of storage for transmission and the optimal capacity and siting decisions of renewable energy and battery resources through 2030 in the ...

In a joint study, experts from local universities have looked for ways to supply Switzerland with renewable electricity by 2035. The results show that the three strategies developed could cover ...

The HVDC supergrid would connect Switzerland to the offshore wind farms in the North Sea and the solar farms in southern Europe. Additionally, Switzerland could also better market its storage ...

This study aims to analyse Swiss PV and wind generation data from 2020 to 2023 to assess their complementarity using statistical indicators and energy flow simulation.

Here, we outline an optimized, phased pathway for integrating solar and wind energy into a globally interconnected and fully coordinated power system.

This study focuses on the optimal operation and power transmission curve for large-scale wind-solar-storage integration base in the SGB region, aiming for 100% renewable energy transmission.

Wind/PV power related data: Detailed wind/solar generation data that fully characterize plant performance and geographical spread (co-incident with load and all weather dependent data used) ...

Under Energy Strategy 2050, the Swiss electricity mix should be shaped by renewable energies such as wind and solar energy. But what happens when demand is high and the weather isn't playing ball? ...

In this study, we have conducted a data-driven analysis of the complementarity between solar PV and wind energy production in Switzerland over four years, to evaluate the added value of ...

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