

# **Expected ROI of large scale battery storage project in Switzerland 2030**





## Overview

---

Does Switzerland's new large-scale battery support the Energy Strategy 2050?

The new large-scale battery for Switzerland in Kappel supports the Energy Strategy 2050 and supports renewable energies.

What factors influence the ROI of a battery energy storage system?

Several key factors influence the ROI of a BESS. In order to assess the ROI of a battery energy storage system, we need to understand that there are two types of factors to keep in mind: internal factors that we can influence within the organization/business, and external factors that are beyond our control.

Will lithium-ion batteries become more expensive in 2030?

According to some projections, by 2030, the cost of lithium-ion batteries could decrease by an additional 30–40%, driven by technological advancements and increased production. This trend is expected to open up new markets and applications for battery storage, further driving economic viability.

What ration & innovation is needed for battery 2030+?

ration and innovationFor BATTERY 2030+ being able to achieve the ambitious goals laid out in this roadmap, research within the initiative – and beyond – must meet the highest standards in terms of data generation, data processing, data storage, data exchange a.

How does energy storage affect Roi?

The cost of electricity, including peak and off-peak rates, significantly impacts the ROI. Energy storage systems can store cheaper off-peak energy for use during expensive peak periods. Subsidies, tax credits, and rebates offered by governments can enhance the financial attractiveness of ESS installations.

Where in Switzerland will Primeo energy install a battery storage system?



In Kappel, in the canton of Solothurn, we will install one of the largest battery storage systems in Switzerland with a total capacity of 65 megawatt hours. Primeo Energie will use the stand-alone storage system to make energy more flexible and store electricity temporarily and withdraw it again when it is needed.



## Expected ROI of large scale battery storage project in Switzerland 2

---

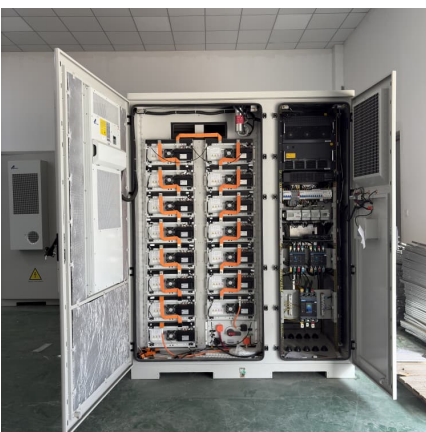


### [Executive summary - Batteries and Secure Energy ...](#)

To deliver this, battery storage deployment must continue to increase by an average of 25% per year to 2030, which will require action from policy makers and industry, taking advantage of the fact that battery storage can be built in a ...

### **Understanding the Return of Investment (ROI): battery energy storage ...**

Several key factors influence the ROI of a BESS. In order to assess the ROI of a battery energy storage system, we need to understand that there are two types of factors to keep in mind: ...



### [Big batteries in 2024 - the opportunities and ...](#)

The recent surge in utility-scale battery storage activity is expected to continue through 2024 and onwards, underscored by government-led investment schemes and the successful progression of major battery projects.

### [We're about to see a \\$1 trillion 'super-cycle' of ...](#)

Peak Energy A decade ago, large-scale battery storage was considered the mythical Holy Grail to solving renewable energy's intermittency woes with sunshine and wind.



### Targets 2030 and 2050 Energy Storage

Executive Summary As Europe accelerates its ambitions to achieve climate neutrality by 2050, the energy system is set to look very different from the one we see today. Driven by ambitious ...



### Containerized Battery Energy Storage System (BESS) Market

The global Containerized Battery Energy Storage System (BESS) Market size was estimated at USD 9,33 billion in 2024 and is predicted to increase from USD 13.87 billion in 2025 to ...



### Switzerland Energy Storage Market 2024-2030

With an underground hydropower project that has the capacity to store enough electricity to concurrently charge 400,000 car batteries, Switzerland is introducing a much-needed cog to its energy supply.



### [Battery Report 2024: BESS surging in the "Decade of ...](#)

Data centre power consumption is expected to triple by 2030 as a proportion of total US power demand - and could be even greater, as shown in the graph below (taken from page 160 of the Battery Report): Two interesting ...



### **Battery storage in the energy transition , UBS Switzerland**

These regulatory steps, combined with greater BESS cost efficacy and the heightening demand for energy storage, is a promising sign for the further development of the ...

### [MW Storage and Fluence partner to deliver their ...](#)

The German Federal Network Agency estimates the demand for large-scale battery storage will reach 23.7GW in 2037, which corresponds to 237 projects of the same size as the one to be delivered by MW Storage and ...



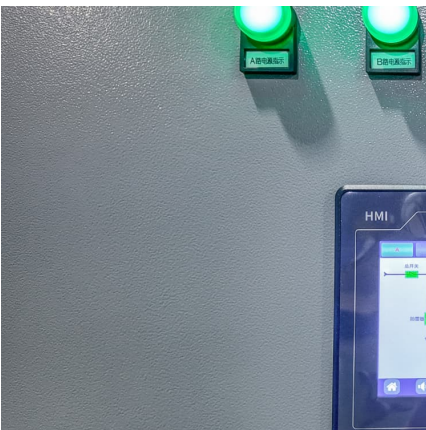
### [Large-scale battery for Switzerland: 65 megawatt ...](#)

The success of the project was not only determined by the delivery of the battery containers, but also by the overall logistical coordination. INTILION managed the entire transport chain from China to Switzerland - including shipping, customs ...



### Cost Projections for Utility-Scale Battery Storage: 2021 ...

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...

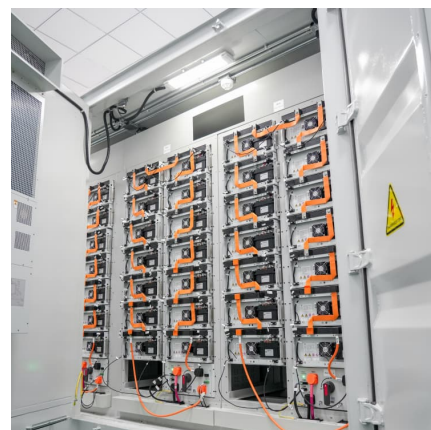


### Executive summary - Batteries and Secure Energy Transitions - ...

Battery storage in the power sector was the fastest growing energy technology in 2023 that was commercially available, with deployment more than doubling year-on-year. Strong growth ...

### Battery Storage: Australia's current climate

As the world shifts to renewable energy, the importance of battery storage becomes more and more evident with intermittent sources of generation wind and solar playing an increasing role during the transition.





### [The Economics of Battery Storage: Costs, Savings, ...](#)

This analysis delves into the costs, potential savings, and return on investment (ROI) associated with battery storage, using real-world statistics and projections.

### **SPAIN**

The market for utility-scale storage projects remains comparatively small at around 100MW, though a pipeline of projects is beginning to emerge.<sup>2,3,4,5</sup> Much of Spain's existing utility ...



### **BATTERY 2030+ Roadmap**

The BATTERY 2030+ vision is to incorporate smart sensing and self-healing functionalities into battery cells with the goals of increasing battery reliability, enhancing lifetime, improving safety, ...

### [Battery 2030: Resilient, sustainable, and circular](#)

Battery 2030: Resilient, sustainable, and circular  
Battery demand is growing--and so is the need for better solutions along the value chain.



### Solar, battery storage to lead new U.S. generating capacity ...

We expect 63 gigawatts (GW) of new utility-scale electric-generating capacity to be added to the U.S. power grid in 2025 in our latest Preliminary Monthly Electric Generator ...



### New report: European battery storage grows 15% in 2024, EU ...

The large-scale battery segment is growing rapidly, and for the first time, is set to represent most of battery installations on the continent this year. Historically, home batteries ...



### Chart: US is set to shatter grid battery records this year

The U.S. is set to plug over 18 gigawatts of new utility-scale energy storage capacity into the grid in 2025, up from 2024 's record-setting total of almost 11 GW, per Energy Information Administration data analyzed by ...





### **U.S. battery storage capacity will increase significantly ...**

The remarkable growth in U.S. battery storage capacity is outpacing even the early growth of the country's utility-scale solar capacity. U.S. solar capacity began expanding in 2010 and grew from less than 1.0 GW in ...



### **Microsoft Word**

PREFACE BATTERY 2030+ is a large-scale cross-sectoral European research initiative bringing together the most important stakeholders in the field of battery R& D. The initiative is working ...

### [Battery industry in the United States](#)

Large-scale battery storage projects forecast after IRA in the U.S. 2021-2030 Number of large-scale battery storage projects operating in the United States in 2021, with a forecast with and



### **Australia has 7.8 GW of utility-scale batteries under ...**

The volume of large-scale battery energy storage projects under construction in Australia passed that of solar and wind projects combined in 2023 and the trend has intensified this year, with



## Projects

The large-scale BATTERY 2030+ research initiative aims to invent the batteries of the future by providing breakthrough technologies to the European battery industry. This shall be done throughout the value chain and enable long-term ...



### [U.S. Battery Storage Hits a New Record Growth in 2024](#)

Both of these will significantly increase energy consumption, driving substantial growth in the global battery storage market. Electric vehicles (EVs) alone will replace millions of barrels of oil daily by 2030, intensifying the ...

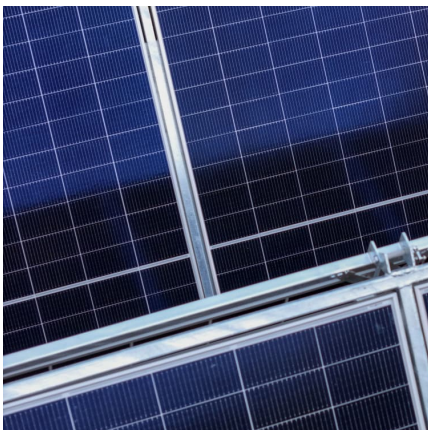
### **ABB introduces Battery Energy Storage Systems-as-a-Service**

The International Energy Agency (IEA) projects a sixfold increase in global storage capacity by 2030 1, with commercial and industrial systems alone expected to surge ...



### [The prospects for battery investment in Germany](#)

By contrast, small-scale, household "behind-the-meter" battery storage has enjoyed significant growth over the past five years and stands at 10.8 GWh. British BESS





### [This is how the initial projects of the 250 battery](#)

Poland Impact Clean Power Technology, a Polish company part of the Grenevia Group, has announced ambitious plans for a large-scale battery factory for EVs and energy storage. Named GigafactoryX, this facility will be ...



### **Switzerland Solar Energy and Battery Storage Market (2025-2031)**

Continued advancements in technology and favorable government policies are expected to further fuel the growth of the solar energy and battery storage market in the country.

### [European Market Outlook for Battery Storage 2025-2029](#)

European Market Outlook for Battery Storage 2025-2029 7 May 2025 The report explores trends and forecasts across residential, commercial & industrial (C& I), and utility ...



## **Contact Us**

---

For catalog requests, pricing, or partnerships, please visit:  
<https://conrad.edu.pl>