

Global PV Storage Insights

Total investment cost of sodium ion battery storage project in France



Overview

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In France, there is a total accumulation of ten billion euros from public and private funds for the opening of four gigafactories around the national territory in the near future. The latest announcement occurred in January, and it comes from the French sodium-ion battery technology startup.

The French company Tiamat Energy is planning a factory for sodium-ion battery cells with an annual capacity of 5 GWh in northern France - and is receiving financial support from Stellantis, among others. (UPDATE BELOW) Tiamat Energy is a sodium-ion cell developer spun off from the French national.

This tracker monitors the Horizon Europe's financial contribution to both mitigating climate change (e.g., contributions to the reduction of greenhouse gas emissions) and adapting to climate change by building resilience (e.g., regarding floods, droughts, spatial planning and better governance).

The Amarenco-Claudia Battery Energy Storage System is a 105,000kW lithium-ion battery energy storage project located in Gironde, Nouvelle-Aquitaine, France. The rated storage capacity of the project is 98,000kWh. The electro-chemical battery storage project uses lithium-ion battery storage.

The funds from the investment will enable Tiamat to embark on the construction of a sodium-ion battery plant in France. What sets sodium-ion technology apart is its lower cost per kilowatt-hour and its freedom from lithium and cobalt, making it an economically and environmentally compelling. Who makes sodium ion batteries in Europe?

In Europe, only the Swedish battery cell manufacturer Northvolt has announced its entry into the sodium-ion battery business.

How many jobs will a sodium ion battery plant create?

The sodium-ion battery factory is expected to have an annual capacity of five gigawatt-hours. In the first phase, a capacity of 0.7 gigawatt-hours is targeted by the end of 2025. The plant will be built in Hauts-de-France and is expected to create more than 1,000 jobs.

Are China's big players turning to sodium-ion batteries?

In China, the big players are increasingly turning to sodium-ion batteries: BYD and Huaihai recently signed a contract to build a plant for sodium-ion batteries in China with an annual capacity of 30 GWh. CATL is also planning to produce sodium-ion cells. The Chinese startup Zoolnasm is also planning to do so from 2024.

Are sodium-ion batteries a viable alternative to lithium-based batteries?

Sodium-ion batteries offer a promising solution due to their cost-effectiveness, sustainability, and lower environmental impact. However, to rival lithium-based technologies, significant advancements are required in performance, safety, and scalability.

Should electric cars use sodium-ion batteries?

However, Tiamat is the only player in this list that favours sodium-ion batteries. These are a technology that has re-emerged in recent years and would bring a clear cost reduction in the electric car sector. After all, the low-cost sodium replaces lithium, which has now become very expensive.

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Tiamat to build sodium-ion battery plant in France ...

Tiamat was acknowledged by Stellantis Ventures as one of the top-performing tech startups. What sets sodium-ion technology apart is its lower cost per kilowatt-hour and the absence of lithium and cobalt.

Top five energy storage projects in France

The Total-Mardyck Battery Energy Storage System is a 25,000kW lithium-ion battery energy storage project located in Mardyck, Dunkirk's port district, France. The rated ...



Technology Strategy Assessment

About Storage Innovations 2030 This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage ...

U.S. Invest 50 Million Dollars in Sodium-Ion Batteries

The U.S. Department of Energy will invest 50 million dollars in the Low-cost Earth-abundant Nation Storage consortium for a five-year period.

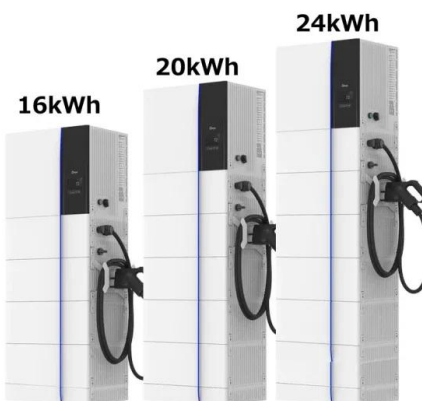


France for Batteries

To support projects in the battery industry, France has decided to create a new tax credit covering 25% of investment expenditure for large companies and up to 45% for small companies ...

Batteries and Secure Energy Transitions - Analysis

In the power sector, battery storage is the fastest growing clean energy technology on the market. The versatile nature of batteries means they can serve utility-scale projects, behind-the-meter storage for households and ...



Top five energy storage projects in France

Listed below are the five largest energy storage projects by capacity in France, according to GlobalData's power database. GlobalData uses proprietary data and analytics to ...

Sodium-ion Batteries 2025-2035: Technology, Players, Markets, ...

Sodium-ion Batteries 2025-2035 provides a comprehensive overview of the sodium-ion battery market, players, and technology trends. Battery benchmarking, material and cost analysis, key ...



Battery Energy Storage System Market Size, Trends & Regional

...

The global battery energy storage system market size was estimated at USD 10.16 billion in 2025 and is anticipated to grow from USD 12.61 billion in 2026 to USD 86.87 billion by 2034, growing ...

2.1GWh! Two Companies Sign Major Energy Storage Deals, ...

As China's inaugural hybrid grid-forming energy storage project, it combines 10MW/20MWh lithium-ion batteries, 1MW/5min supercapacitors, and 200kW/400kWh sodium ...



Beyond Lithium: Unveiling the Promise of Sodium-Ion Batteries

Sodium-ion batteries are considered one of the most promising alternatives to lithium-ion batteries. Sodium-ion development dates back to the 1970s and early 1980s. ...

Cost Projections for Utility-Scale Battery Storage: 2021 Update

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 systems. The projections are ...

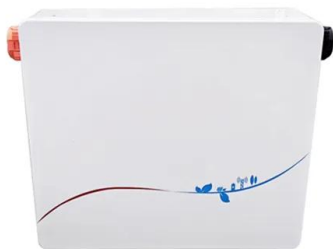


Building utility-scale battery storage in Europe

Will ongoing challenges hinder battery plant development? Even as grid-scale battery projects multiply across the continent, developers still complain of excessive red tape ...

Sineng Electric: China's largest sodium-ion battery ...

Sineng Electric makes its mark on the energy storage market with the world's largest sodium-ion battery project, aimed at diversifying storage technologies in China.

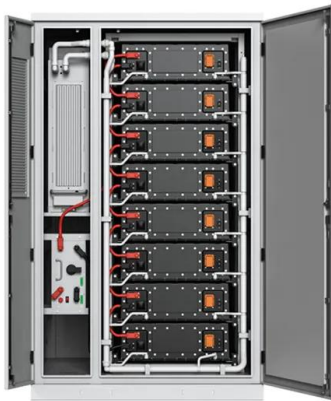


Executive summary - Batteries and Secure Energy ...

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 occurred for utility-scale battery projects, behind- the ...

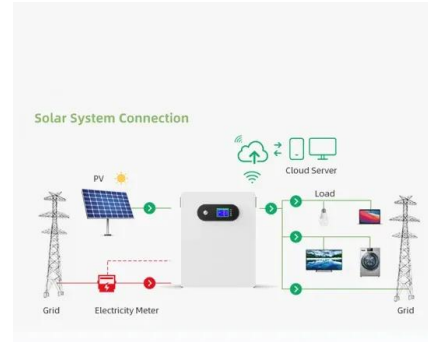
iNewsflash! France secures EUR10 billion investment for ...

In France, there is a total accumulation of ten billion euros from public and private funds for the opening of four gigafactories around the national territory in the near future.



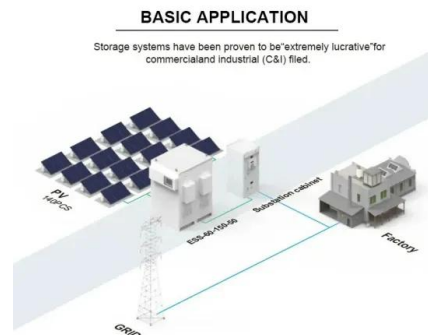
The rise of bankable BESS projects in Europe

As the renewable energy sector rapidly evolves, battery energy storage systems (BESS) are emerging as a critical pillar for decarbonization. However, with capital constraints and rising market



Building utility-scale battery storage in Europe

Will ongoing challenges hinder battery plant development? Even as grid-scale battery projects multiply across the continent, developers still complain of excessive red tape and unnecessary costs. Notwithstanding its ...



China launches world's first grid-forming sodium-ion ...

China Southern Power Grid (CSG) announced on May 26 the commissioning of the Baochi Energy Storage Station in Wenshan, Yunnan province -- a national pilot project and the first large-scale hybrid lithium ...

Sodium-Ion Batteries: Tiamat Receives EUR30 Million

Stellantis Ventures, Arkema, MBDA, historical investors and Bpifrance participated in the financing, which raised a total of 30 million euros. Further financing of a similar amount is planned, bringing the total investment ...



China launches world's first grid-forming sodium-ion ...

The Baochi Storage Station in Yunnan integrates lithium and sodium-ion technologies at scale, a global first, aiming to stabilize renewable energy and cut costs as China accelerates its energy

Tiamat secures funding for sodium-ion gigafactory in ...

French sodium-ion battery maker Tiamat has raised EUR30 million (\$32.6 million) in equity and debt financing. It will use the funds to launch the construction of a 5 GWh production plant in the

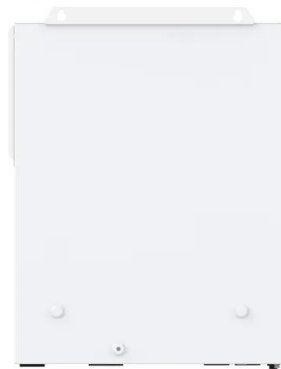


Enabling renewable energy with battery energy ...

These developments are propelling the market for battery energy storage systems (BESS). Battery storage is an essential enabler of renewable-energy generation, helping alternatives make a steady contribution to the ...

Sodium-Ion and sodium Metal Batteries for efficient and

Jointly this will result in a sodium-based battery demonstrating the improved performance, recyclability and sustainability, for a stationary energy storage use-case, ...

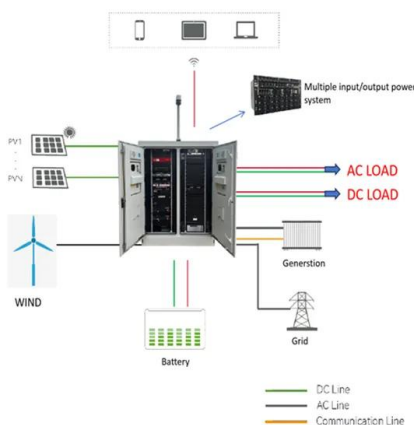


Energy Storage Costs: Trends and Projections

As the global community increasingly transitions toward renewable energy sources, understanding the dynamics of energy storage costs has become imperative. This ...

NEXGENNA - The next generation in sodium-ion batteries

The Faraday Institution 's Nexgenna project will accelerate the development of sodium-ion battery technology by taking a multi-disciplinary approach incorporating fundamental chemistry right ...



Tiamat: revolutionizing the electric mobility landscape

The start-up, a pioneer in the production of sodium-ion batteries, sets up in the heart of Battery Valley in Hauts-de-France! Find out more about this innovative project.

Sustainable European sodium-ion batteries for stationary

Sodium-ion batteries offer enhanced cost-effectiveness and sustainability, challenging the dominance of lithium batteries in the stationary energy storage sector. The ...



Sodium-ion Batteries in Grid Storage: Current Projects and ...

This abundance translates directly into lower material costs and a decreased environmental impact associated with mining and extraction. Additionally, sodium-ion batteries ...

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 ...



White paper BATTERY ENERGY STORAGE SYSTEMS ...

The majority of newly installed large-scale electricity storage systems in recent years utilise lithium-ion chemistries for increased grid resiliency and sustainability. The capacity of lithium ...

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