

## Global PV Storage Insights

# Government procurement price of flow battery system in China



## Overview

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The Power Construction Corporation of China drew 76 bidders for its tender of 16 GWh of lithium iron phosphate (LFP) battery energy storage systems (BESS), according to reports. Bids averaged \$66.3/kWh, with 60 bids under \$68.4/kWh. The tender, covering supply, system design, installation guidance.

□ Summary □ On March 1st, China National Nuclear Corporation (CNNC) Xinhua Hydroelectric Power Co., Ltd. issued a bidding announcement for the centralized procurement of all vanadium flow electrochemical energy s On March 1st, China National Nuclear Corporation (CNNC) Xinhua Hydroelectric Power Co.

State-owned EPC firm China Power Construction Group (Power China) recently concluded a 16GWh BESS supply tender, which resulted in extremely low prices amidst a squeezing of market share and increased buying power from state-owned companies, an S&P analyst told Energy-Storage.news. The tender for.

The bids were opened on December 4. The tender attracted 76 bidders, with quoted prices ranging from \$60.5/kWh to \$82/kWh, averaging \$66.3/kWh. Notably, 60 of the bids were below \$68.4/kWh, signaling competitive pricing trends in China's energy storage market. According to the previously announced.

As of March 2023, significant projects have already commenced, such as a

100MW/400MWh flow battery facility in Jiangshan city, with a total capital expenditure of ¥14 billion. This project highlights the integration of energy storage systems with various components, such as battery storage and.

it in rechargeable batteries for use at a later date. When energy is needed, it is released from the BESS to power demand to lessen any the integration of demand- and supply-side management. An augmented focus on energy storage development will substantially lower the curtailment rate of renewable. Does China have a market advantage for battery storage systems?

ds, and service networks for battery storage systems. At present China does have some market advantages when it comes to the development of BESS infrastructure, including the supply chain related to global lithium-ion battery production.

What is the largest energy storage procurement in China's history?

The tender marks the largest energy storage procurement in China's history. In what is described as the largest energy storage procurement in China's history, Power Construction Corporation of China (PowerChina) is targeting an unprecedented cumulative storage capacity of 16 GWh. The bids were opened on December 4.

How much does LFP cost per kWh?

The tender, covering supply, system design, installation guidance, 20-year maintenance, and safety features, targets systems to be built in 2025-2026. That's an astounding price, as earlier this year even I, as a battery optimist, was astounded by CATL's announcement that it would be shipping LFP cells at \$56 per kWh.

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### CMS Expert Guide to public procurement regulation in ...

Are you looking for information on public procurement regulation in China? This CMS Expert Guide provides you with everything you need to know.

### China's Liquid Flow Battery Industry Faces "Cost Challenges" ...

In a recent initiative, a 500MW/2GWh flow battery system has been established, alongside a 300MW/1200MWh facility. The total investment for these projects is estimated at ...



### What's Behind China's Massive New Flow Battery ...

China has established itself as a global leader in energy storage technology by completing the world's largest vanadium redox flow battery project.

### CHINA'S LEGAL FRAMEWORK FOR PUBLIC ...

It describes the unique aspects and challenges of China's procurement system, notably the existence of two laws (the Tendering and Bidding

Law and the Government Procurement Law), ...



## Strategic battery procurement in new energy vehicle supply chains

Based on these findings, Section 5 discusses battery procurement strategies, AFS provision approaches, and the government's regulatory role. In Section 6, we extend the ...

## Flow Battery Price: Key Factors Shaping the Future of Energy

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China's 14th Five-Year Plan aims to install 100GW of flow battery storage by 2025, creating unprecedented economies of scale. This push aligns with global flow battery price trends ...



## 'Mind-blowing' bids in Power China's 16GWh BESS tender

State-owned EPC firm China Power Construction Group (Power China) recently concluded a 16GWh BESS supply tender, which resulted in extremely low prices ...

## Winning the Battery Race: How the United States Can ...

The United States battery industry has fallen dangerously behind the global leaders. The main thrust of the U.S. policy response to the battery crisis must be the urgent commercialization of next-generation ...



## New Government Procurement Policy: Domestic Products to ...

The draft policy focuses on industrial products listed in the Government Procurement Item Classification Directory. A key proposal is to grant domestic products a 20% ...

## Vanadium redox flow batteries: a new direction for China's energy

By Jessica Long and Jingtai Lun Vanadium's ability to exist in a solution in four different oxidation states allows for a battery with a single electroactive element. And compared ...



### ESS



## Key trends in battery energy storage in China

China has been an undisputed leader in the battery energy storage system deployment by a far margin. The nation more than quadrupled its battery fleet last year, which helped it surpass its 2025 target of 30 GW of ...

## China increases govt procurement in 2020

BEIJING -- Government procurement in China rose 11.8 percent last year as it played an increasing role in supporting economic and social development, showed data from ...



## World's largest vanadium flow battery in China ...

The project in Ushi, China, taken from a video the company posted on LinkedIn. Image: Rongke Power via LinkedIn. Technology provider Rongke Power has completed a 175MW/700MWh vanadium redox flow battery ...

## China reaches over 70GW of BESS, DC block prices 'stable'

A BESS project in China deployed by Hyperstrong, the largest system integrator in the domestic market. Image: Hyperstrong. China has reached well over 70GW of installed ...



## PowerChina receives bids for 16 GWh BESS tender ...

The large-scale centralized procurement aims to secure resources for PowerChina's renewable energy projects and align with China's green energy transition goals. Analysts regard this tender as a landmark for ...

## Rongke Power Completes World's First Grid ...

The 200MW/1GWh vanadium flow battery system, built with the participation of Dalian Rongke Power Co., Ltd., marks a historic milestone -- ushering in the GWh era for flow battery technology. With a maximum energy ...



To Strive forward No Energy Waste



- ✓ All in one
- ✓ 100-215kWh High-capacity
- ✓ Intelligent Integration

## China completes world's largest vanadium flow battery ...

A giant solar-plus-vanadium flow battery project in Xinjiang has completed construction, marking a milestone in China's pursuit of long-duration, utility-scale energy storage.

## Vanadium Battery Energy Storage Systems Market

Impact of Government Incentives on Vanadium Battery Energy Storage Adoption Government incentives and subsidies serve as critical levers to overcome the high upfront ...



- ☑ High energy density and long cycle life
- ☑ Modular structure



- ✓ No need to replace the battery
- ✓ Shorter charging time
- ✓ Meets 80% EV car

## China Sees Surge in 100MWh Vanadium Flow Battery Energy ...

August 30, 2024 - The flow battery energy storage market in China is experiencing significant growth, with a surge in 100MWh-scale projects and frequent tenders for GWh-scale flow ...

## Navigating The Battery Storage Boom

Notably, by 2024 battery costs began to decline (with lithium-ion battery pack prices falling roughly 20%), providing some relief on the cost front, but lead times for critical ...



## **Government Procurement and Sales to State-Owned ...**

These challenges are exacerbated by both deteriorating US-China relations and by China's failure to join the World Trade Organization's (WTO) Government Procurement Agreement (GPA), ...

## **How the U.S. gave away a breakthrough battery ...**

The former UniEnergy Technologies office in Mukilteo, Wash. Taxpayers spent \$15 million on research to build a breakthrough battery. Then the U.S. government gave it to China.



## **Top Battery Energy Storage System (BESS) ...**

The 2023 rankings by the Zhongguancun Energy Storage Industry Technology Alliance highlight China's top battery energy storage system integrators across domestic, global, user-side, and DC markets, showcasing ...

## 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 ...



## Technology Strategy Assessment

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

## Six all-vanadium liquid flow battery companies were shortlisted ...

On November 7, China Power Construction Municipal Engineering Corporation announced the shortlist of 17 companies for the framework procurement project of energy storage systems for ...



## Procurement of 3108-25400030008A Energy flow test system (1)

This tender is from the country of China in Asian region. The tender was published by Chongqing international investment consultation group Co.,ltd. on 17 Apr 2025 for Procurement of 3108 ...

## World's largest vanadium flow battery goes online in ...

A giant solar-plus-vanadium flow battery project in Xinjiang has completed construction, marking a milestone in China's pursuit of long-duration, utility-scale energy storage.



## China Battery Energy Storage System Report 2024

A Battery Energy Storage System (BESS) secures electrical energy from renewable and non-renewable sources and collects and saves it in rechargeable batteries for use at a later date. When energy is needed, it is ...

## PowerChina receives bids for 16 GWh BESS tender ...

In what is described as the largest energy storage procurement in China's history, Power Construction Corporation of China (PowerChina) is targeting an unprecedented cumulative storage capacity of 16 GWh. The bids ...



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