

VANITEC VANADIUM FLOW BATTERY INSTALLATIONS



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Climate Action
SDG

1 RISING DEMAND FOR VANADIUM FLOW BATTERIES

Guidehouse Insights (2022) projected **32.8 GWh of annual installed Vanadium Flow Battery** capacity by 2031, requiring **130,000 - 170,000 tons of vanadium yearly** – over double current production.



In China, the total storage capacity reached an impressive **2.1 gigawatt-hours** by mid-2024, marking a staggering **30%** uptick in growth since the end of 2023.

3 A GLOBAL ENERGY STORAGE SOLUTION

Vanadium Flow Batteries are **durable, long lasting, and scalable**, ideal for **long-duration energy storage**.

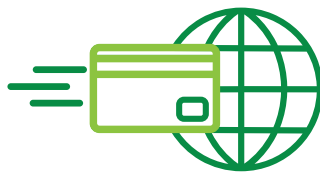


Unlike lithium-ion batteries, **Vanadium Flow Batteries store energy for hours** releasing it as needed.



5 FUTURE GROWTH

The **World Bank** projects Vanadium Flow Battery demand **will reach 111 GWh by 2030**, or 2.4% of global stationary energy storage.



Projects like Jiangsu Guanyun Energy Storage highlight the **rapid global growth** of this technology.



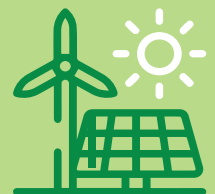
7 SUPPORTING HYBRID ENERGY SYSTEMS

Vanadium Flow Batteries are also used in **hybrid energy storage solutions**, **improving performance** of renewable systems and **extending lifespan** of lithium-ion batteries by reducing their discharge cycles.



8 MARKET POTENTIAL

Vanadium Flow Batteries are **a key part of the solution for renewable energy storage**, helping achieve global carbon neutrality.



#GREEN
VANADIUM

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