第四届
钒原料、电解液与钒电池国际论坛
The 4th International Vanadium, Electrolytes & VRFB Forum 2026

5月21-22日 湖南·吉首
May 21-22 Jishou, Hunan Province

主办单位 Organizer 咨亚询化 ASIACHEM®

支持单位 Supporter VANITEC 国际钒技术委员会

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Presentations (updating as of April 15)

Vanadium Energy Electrolyte Production（Title TBD）

——Yang Linlin, GM & CTO, Shanghai Electric Energy Storage Technology Co., Ltd.

Commercial Practice of Vanadium Electrolyte Production

——Shi Xiaohu, General Manager, Big Power Energy Storage Technology Hubei Co., Ltd.

Discussion on the Development of Vanadium Extraction from Stone Coal

——Hu Zhimin, Assistant to President, Wontai Power Co.,Ltd.

Research and Application of Key Materials for Long-Duration Vanadium Flow Battery

——Wu Xiongwei, General Manager & Chief Scientist, Hunan Yinfeng New Energy Co., Ltd.

Global Vanadium Market History and Projections

——Terry Perles, Vice Chairman/Presiden, Vanitec/TTP Squared, Inc.

Vanadium Resource Integration and Ultra-Short Process Breakthrough

——Guan Qing, Chairman, Hunan Jinglun Technology Co., Ltd.

A New Method for Efficient Enrichment & Separation of Vanadium from Low-Grade Resources

——Yan Baijun, Professor, University of Science and Technology Beijing

Vanadium Extraction from Carbonaceous Shale: Technology and Applications（Title TBD）

——Jishou University

Progress in Clean Vanadium Extraction Using the Calcium Method and Product Upgrading

——He Wenyi, Deputy Director & Senior Engineer, Pangang Group Vanadium Technology Institute

Progress in Vanadium Extraction and Short-Process Preparation of Vanadium Electrolyte

——Meng Fancheng, Associate Professor, Institute of Process Engineering, Chinese Academy of Sciences

Industrial Visiting

HongYuan Technology

(Phase I Plant of 5000 t/a V_2O_5 Project)

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Background

Vanadium redox flow batteries (VRFB) offer advantages such as high safety, long cycle life, and zero capacity degradation. With the rapid growth of energy storage demand, the global VRFB industry has experienced rapid development. As a global leader in vanadium resources and industry, China has established a complete industrial chain from vanadium resource development and electrolyte preparation to system integration, leading the growth of the global market. Meanwhile, major markets such as North America, Europe, and Australia are also accelerating the development of localized VRFB industry ecosystems. It is projected that by 2030, the global cumulative capacity of VRFBs will reach 20 GW/120 GWh.

In 2025, the winning bid price for VRFB projects fell below 2 yuan/Wh for the first time, completely breaking the conventional wisdom that "long-duration energy storage is necessarily high-cost." Electrolyte cost accounts for the largest proportion of the total cost of VRFB, increasing with the duration of energy storage, ranging from 40% to 80%. Starting from upstream vanadium raw materials and electrolytes, reducing costs through technological breakthroughs is crucial for the success of the VRFB industry.

In 2025, a new ultra-short-process technology for vanadium battery electrolyte, "vanadium oxy-sulfate crystals," jointly developed by chinese firms, started trial production. Advances in other short-process electrolyte and vanadium extraction technologies have significantly reduced the overall cost of the electrolyte. Industry experts predict that the overall cost of electrolyte could drop from 1000 yuan/kWh to below 700 yuan/kWh within two years, accelerating a transformation that will reshape the VRFB industry.

How to achieve stable and cost-competitive vanadium raw material supply? What is the progress of industrialization of different vanadium extraction technologies? What are the new developments in electrolyte preparation processes? How to control electrolyte costs? How to improve the competitiveness of VFRB energy storage batteries through clean and low-cost processes?

The 4th International Vanadium, Electrolytes & VRFB Forum 2026 will be held in **Jishou, Hunan Province** from **May 21-22.** The conference is organized by ASIACHEM and supported by Vanitec. It will discuss topics such as vanadium ore and raw material supply, clean and efficient vanadium extraction, vanadium electrolyte preparation processes, and VRFB technology development.

Topics

- Global Vanadium Resource Supply Pattern and Price Trends
- Market Demand and Outlook for Global VRFB Technology
- VRFB Industry Development: Demand and Prospects for Vanadium
- Efficient Extraction and Comprehensive Utilization of Vanadium Ore Resources
- Clean Vanadium Extraction: Coal, Steel Slag, and V-Ti Magnetite Routes
- Clean and Low-Cost Processes for Vanadium Raw Materials and Electrolytes
- Latest Progress in Short-Process Vanadium Electrolyte Preparation Technology
- Electrolyte Performance Improvement and Integrated Cost-Reduction Strategies
- Matching and Optimization of Electrolytes with High-Performance Stacks
- Advances in Electrolyte Recycling and Regeneration Technologies
- Innovative Models for Electrolyte Financial Leasing and Asset Management
- Cost Reduction Pathways for VRFB Energy Storage Systems
- Integrated Development Opportunities Across the VRFB Industry Chain
- Industrial Visiting (Phase I Plant of 5000 t/a V2O5 Project)

Agenda

May 20	17:00-20:00	Registration
May 21	09:00-12:00	Presentations
	12:00-14:00	Networking Lunch
	14:00-18:00	Presentations
	18:00-20:00	Reception Dinner
May 22	09:00-12:00	Industry Visiting

Registration Contact: Mr. Zhao (915220117@qq.com); Ms. Yao (yaoxy@chemweekly.com)