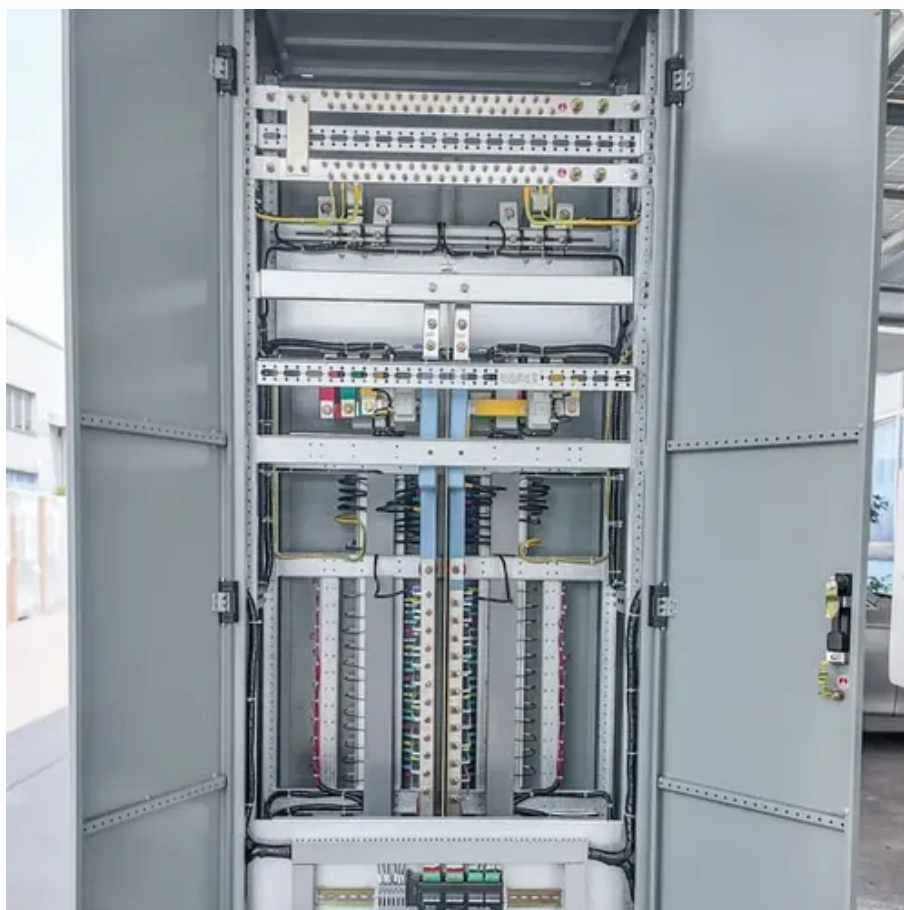




Saudi arabia vanadium liquid flow energy storage project





Overview

Saudi Arabian Oil Co. (Saudi Aramco) achieved a global milestone by successfully commissioning a megawatt (MW)-scale renewable energy storage system for gas production, using for the first time an iron-vanadium redox flow battery as a backup for solar-assisted power for gas well.

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Aramco, one of the world's leading integrated energy and chemicals companies, has achieved a world-first by successfully commissioning a megawatt (MW)-scale renewable energy storage system to power gas production activities. It is the first deployment globally of an Iron-Vanadium (Fe/V) flow.

Dhahran, May 22, 2025, SPA -- Saudi Aramco has achieved a world-first milestone by successfully operating a megawatt-scale renewable energy storage system to support gas production operations. This marks the first global use of an iron-vanadium flow battery as a solar energy backup for gas well.

First-of-its-kind deployment: Aramco is the first company to commission a megawatt-scale Iron-Vanadium flow battery for renewable energy storage in gas operations. Strategic emissions reduction: The technology supports Aramco's goal of achieving net-zero Scope 1 and 2 emissions across wholly owned.

Dubai: Saudi Aramco, a global leader in energy and chemicals, made a historic stride in renewable energy innovation by commissioning the world's first megawatt-scale Iron-Vanadium (Fe/V) flow battery. The system, designed to power gas production activities, marks a significant step toward more.

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[Partnerships in Saudi and Australia plan future of ...](#)

Image credit: Schmid. With Saudi Arabia's major renewable energy uptake plans in years to come and Australia's battle with grid ...

[Aramco Unveils World's First MW-Scale Iron-Vanadium Flow ...](#)

Located in Wa'ad Al-Shamal, in western Saudi Arabia, the 1-MW/hour flow battery system is based on Aramco's patented technology and was developed in collaboration with ...



[ACWA Power Signs Key Agreements with Aramco ...](#)

The second agreement centers on testing the efficiency and durability of vanadium flow battery technology under Saudi Arabia's ...

[Aramco Commissions Groundbreaking Renewable Energy ...](#)

Aramco has achieved a global first by commissioning a megawatt-scale renewable energy storage system designed to support gas production operations. This ...



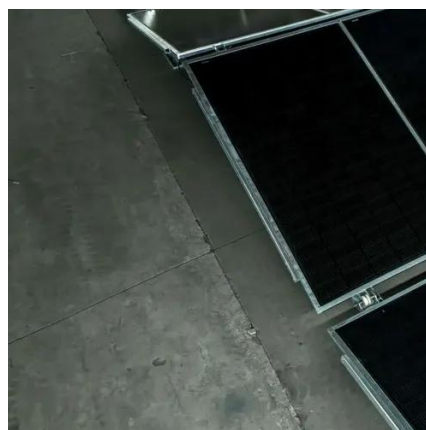
[renewable energy storage system for gas operations](#)

It is specifically engineered to withstand the hot climate of Saudi Arabia and achieve optimal performance under extreme weather conditions, setting it apart from other ...



[Aramco Commissions Groundbreaking Renewable Energy Storage ...](#)

Aramco has achieved a global first by commissioning a megawatt-scale renewable energy storage system designed to support gas production operations. This ...



[Aramco Becomes First in the World to Operate Advanced Renewable Energy](#)

This marks the first global use of an iron-vanadium flow battery as a solar energy backup for gas well operations. The 1-megawatt-hour flow battery system in Wa'ad Al Shamal in northwest ...



[Tdafoq and Delectrik strike deal to commercialise ...](#)



Tdafoq Energy will distribute Delectrik Systems' vanadium batteries in GCC markets and set up a manufacturing plant in Saudi Arabia.



[Aramco Commissions World's First Renewable ...](#)

This pioneering initiative features an Iron-Vanadium (Fe/V) flow battery used as a solar energy backup for gas well sites, setting a ...

[Aramco Becomes First in the World to Operate Advanced Renewable Energy](#)

Dhahran, May 22, 2025, SPA -- Saudi Aramco has achieved a world-first milestone by successfully operating a megawatt-scale renewable energy storage system to support gas ...



[Rongke Power to supply 1MWh flow battery to ...](#)

Rongke Power has collaborated with Aramco to deliver an iron-vanadium (Fe/V) flow battery that can deliver back-up power at gas ...



[Aramco Commissions World-First Iron-Vanadium ...](#)



It will serve as a backup solar power source for gas well operations, supporting up to five wells over a projected 25-year lifespan. ...



[Aramco's World First in Sustainable Energy Storage](#)

Aramco has successfully commissioned an Iron-Vanadium (Fe/V) flow battery on a megawatt scale, set to enhance renewable energy storage by converting solar energy into a ...



[Aramco's Renewable Energy Breakthrough: Flow Battery Powers ...](#)

Aramco has achieved a global milestone by commissioning a megawatt-scale renewable energy storage system, using an Iron-Vanadium (Fe/V) flow battery to power gas ...



[Aramco pioneers renewable energy storage in gas operations](#)

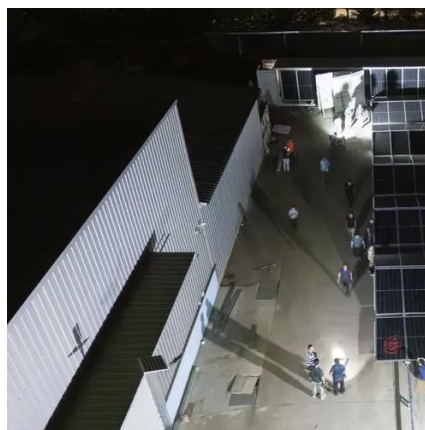
Flow batteries store energy in liquid electrolytes pumped through cells and can be repeatedly charged with minimal degradation. Aramco's design uses reduced amounts of ...



[Aramco pioneers renewable energy storage in gas operations](#)



The 1-MWh iron-vanadium (Fe/V) flow battery system has been deployed at Wa'ad Al-Shamal in western Saudi Arabia and is the world's first such system. Developed ...



48V 100Ah

[Aramco debuts flow battery first while Bulgaria and New Zealand ...](#)

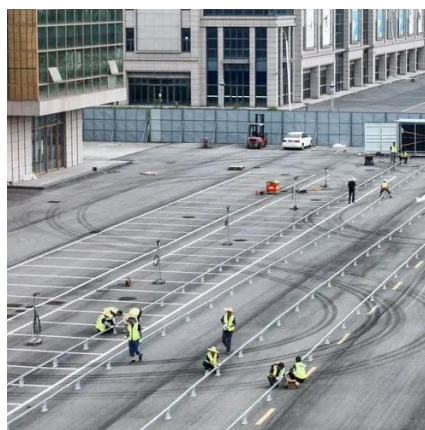
Recent energy storage innovations include Aramco commissioning the first-ever iron-vanadium flow battery backup for solar-powered gas wells in Saudi Arabia, Bulgaria ...



[Aramco Deploys World-First Iron-Vanadium Flow Battery to ...](#)

[Aramco launches world's 1st renewable energy storage for](#)

Saudi Arabian Oil Co. (Saudi Aramco) achieved a global milestone by successfully commissioning a megawatt (MW)-scale renewable energy storage system for gas production, ...



[Saudi Aramco launches world-first renewable ...](#)

Dubai: Saudi Aramco, a global leader in energy and chemicals, made a historic stride in renewable energy innovation by ...



Aramco has commissioned a world-first Iron-Vanadium (Fe/V) flow battery system to store renewable energy for its gas operations, marking a major milestone in industrial ...



[Saudi Aramco launches world-first renewable energy storage for gas](#)

Dubai: Saudi Aramco, a global leader in energy and chemicals, made a historic stride in renewable energy innovation by commissioning the world's first megawatt-scale Iron ...





Contact Us

For inquiries, pricing, or partnerships:

<https://www.zawojesolina.pl>

Phone: +48 22 173 6647

Email: info@zawojesolina.pl

Scan QR code for WhatsApp.

