

European Solar Energy Storage

Saudi aramco energy storage



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.

Aramco, a global leader in energy, is strategically evolving beyond traditional oil and gas, embracing renewable energy and energy efficiency as core components of its future. With an ambitious target to achieve net-zero Scope 1 and Scope 2 greenhouse gas emissions across its wholly-owned operated.

Aramco's MW-scale Iron-Vanadium flow battery is storing renewable solar energy to power gas operations in Saudi Arabia's extreme weather conditions. Aramco has successfully commissioned an Iron-Vanadium (Fe/V) flow battery on a megawatt scale, set to enhance renewable energy storage by converting.

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 operations. In a.

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.

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. What is Saudi Aramco Energy Ventures?

Saudi Aramco Energy Ventures is the corporate venturing arm of Saudi Aramco. Its mission is to invest globally into start-up and high-growth companies with technologies across upstream oil & gas, downstream oil & gas and value-added products, renewables, energy efficiency, and water technologies.

Is Saudi Aramco a sustainable oil company?

As my complaint stated, Aramco is advertising crude oil, which meets no definition of being sustainable.” Last year the Guardian revealed that Saudi Aramco had produced almost 5% of all global emissions since 1965 and was on course to massively expand its oil and gas operations in the next decade.

Is Saudi Aramco a 'real energy' AD?

Saudi Aramco claimed in the advert that “real sustainability doesn’t wait until tomorrow”, adding “this is real energy”. The ASA said it had received more than 60 complaints about the campaign, which appeared in print and online earlier this year. It contacted the company, which responded by saying it had withdrawn the campaign.

How does Aramco's flow battery system work?

Aramco’s flow battery system is designed to operate in the harsh climate conditions of Saudi Arabia, where temperatures can soar to extreme levels. Unlike traditional solar energy systems, the Fe/V flow battery technology can handle fluctuating power demands with high efficiency and minimal performance degradation.

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renewable energy storage system for gas operations

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.

Saudi Aramco launches world-first renewable energy ...

The modular nature of the battery system makes it more affordable to maintain, and it is equipped to provide long-term energy independence with minimal capacity loss.



Saudi Aramco Achieves World-First with Flow Battery ...

Dhahran, May 22 (Saudi Arabia Breaking News) -- Saudi Aramco has achieved a global first by successfully operating a megawatt-scale renewable energy storage system using an iron-vanadium flow battery to support gas production

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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 reliable backup for its gas operations.



Saudi Aramco Renewable Storage Marks First-Ever Deployment

The battery's reduced vanadium usage, wide temperature tolerance, and fluid-electrolyte architecture support its use in future oil and gas infrastructure. As a result, it marks a key advancement in energy storage innovation in Saudi Arabia and contributes to Vision 2030 energy transition goals.

Aramco Becomes First in the World to Operate Advanced Renewable Energy

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Aramco pioneers renewable energy storage in gas operations

DHAHRAN, May 23, 2025 - Saudi Aramco has commissioned a megawatt-scale renewable energy storage system to power its gas

production activities in western Saudi Arabia, the company announced on Thursday.



Aramco Launches First Renewable Energy Storage for Gas ...

Aramco has commissioned a megawatt-scale renewable energy storage system to power gas production activities, marking the first global deployment of an Iron - Vanadium flow battery as a backup solar power source for gas well operations.



Saudi Aramco Energy Storage and Battery Initiatives for 2025: ...

With an ambitious target to achieve net-zero Scope 1 and Scope 2 greenhouse gas emissions across its wholly-owned operated assets by 2050, Aramco is actively developing and deploying innovative energy storage solutions.

Saudi Aramco Achieves World-First with Flow Battery Energy Storage ...

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Aramco launches world's 1st renewable energy storage for

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