

Title: All-vanadium liquid flow battery in Antwerp Belgium

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Could a vanadium redox flow battery be a sustainable alternative?

Jan De Nul, ENGIE and Equans launch a pilot project centred around the use of Vanadium Redox Flow batteries on industrial scale. This type of battery, which is still relatively unknown to the general public, could become a safe and sustainable complement to the widely-used lithium-ion battery.

How long do vanadium flow batteries last?

Unlike lithium-ion batteries, vanadium flow batteries have a lifespan of at least 25 years, a capacity that ages very little over time and a natural storage capacity of several hours.

Who makes redox flow batteries?

ENGIE, Equans and Jan De Nul join their efforts to test this installation of Redox Flow batteries. Equans installed a Vanadium Redox Flow battery, manufactured by Invinity Energy Systems, with an 800 kWh capacity at the Jan De Nul site in Hofstade (near Aalst), connected to their 578kW solar panel installation.

Can flow battery technology be used as an alternative to Li-ion?

ENGIE's energy management system (EMS) will control the batteries as they store energy generated from the onsite solar PV for use in the evenings. Invinity said it, ENGIE and EQUANS hope to use the project to better understand how flow battery technology could be used at such sites as an alternative to Li-ion.

Abstract All-vanadium redox flow batteries (VRFBs) have experienced rapid development and entered the commercialization stage in recent years due to the characteristics of intrinsically ...

Vanadium Redox Flow batteries as potential alternative for Lithium-Ion batteries Vanadium Redox Flow batteries are innovative batteries that are currently mature enough technically ...

As large-scale vanadium projects progress, installed capacity for all-vanadium flow batteries is expected to expand rapidly. Industry forecasts estimate significant new electrochemical storage additions by ...

Huo et al. demonstrate a vanadium-chromium redox flow battery that combines the merits of all-vanadium and iron-chromium redox flow batteries. The developed system with high theoretical ...

Vanadium Redox Flow batterijen als potentieel alternatief voor Lithium-Ion batterijen Vanadium Redox flow batterijen zijn innovatieve batterijen die vandaag technisch en commercieel ...



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Invinity Energy Systems is pleased to announce that partners ENGIE, Equans and Jan De Nul have officially launched a first project featuring Invinity's Vanadium Flow Battery ("VFB") ...

Belgium's energy minister visited a lithium-ion battery storage project a few days after attending inauguration of vanadium flow battery.

Brussels, 27 March 2024 - Jan De Nul, ENGIE and Equans launch a pilot project centred around the use of Vanadium Redox Flow batteries on industrial scale. This type of battery, which is ...

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