

## European Solar Energy Storage

# Redflow x10 battery U S Virgin Islands



## Overview

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What happened to Redflow X10 battery?

From pv magazine Australia Redflow, a Brisbane-based zinc-bromine flow battery producer, has entered into voluntary administration after failing to secure capital to scale up its X10 battery to target larger projects.

Why did Redflow enter voluntary administration?

Australian battery manufacturer Redflow has entered voluntary administration after failing to secure capital to upscale its X10 battery for larger projects. From pv magazine Australia.

Is Redflow a 'next generation' lithium battery?

Australian long duration energy storage contender Redflow says it has a bigger, better “next generation” zinc bromide flow battery in the works that will be competitive with all large-scale battery technologies on the market, including lithium.

What did Redflow do in 2024?

The company also secured AUD 20 million of United States government funding in June 2024 for a 6.6 MWh zinc-bromine flow battery energy storage system (BESS) and in July 2024, Redflow teamed up with Queensland-owned generation company Stanwell to develop a non-lithium long-duration BESS for use in a 400 MWh project.

Will Redflow continue to operate in Australia?

“The process has not identified a viable transaction that would allow the business to continue as a going concern,” Orr said in an announcement on Friday (18 October). “Accordingly, operations in Australia will cease from 18 October 2024.” Queensland -based Redflow created a scalable zinc-bromine flow battery designed for energy storage.

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### Redflow belatedly eyes local battery manufacture

The feasibility study is scheduled to be completed in early 2025 followed by a decision to proceed with the 5 MWh X10 battery project which is expected to be deployed in the first half of 2026. Further reading: The disappointment of overseas production - Lithium Australia (and Redflow) Picture: Redflow's ZBM3 zinc-bromine flow battery



### Redflow was the great hope of Australian manufacturing. Its

...

In short: Battery company Redflow was tipped to be the future of Australian clean energy manufacturing, but it collapsed in August this year. Some customers, installers and former employees say



### Redflow to jointly develop X10 flow battery

Redflow, the Australia and US-based energy company, and utility company Stanwell are to jointly develop and deploy Redflow's new X10 flow battery solution for use in a large-scale project of up to 400MWh. The battery ...



### Brisbane battery company

## Redflow cracks US defence ...

Brisbane-based battery company Redflow has won a \$4.38 million deal with the US Department of Defence to repower a solar microgrid at a New York state airbase, in what it hopes will be a string of



## Australia's Redflow targets 30MWh annual flow battery ...

Redflow said last week that the installation of battery production equipment has begun at the plant, with commercial operation expected to begin by the end of this year. The Brisbane-headquartered tech company has signed a three-year lease on a 1,500 square-metre building, Hemaraj Chonburi Industrial Estate, part of a free trade zone 110km

## Administrators fail to recharge battery maker Redflow

Administrators have been unable to secure a viable deal to keep battery maker Redflow (ASX:RFX) in business. David Orr and Richard Hughes from Deloitte were appointed voluntary administrators on 23 August ...



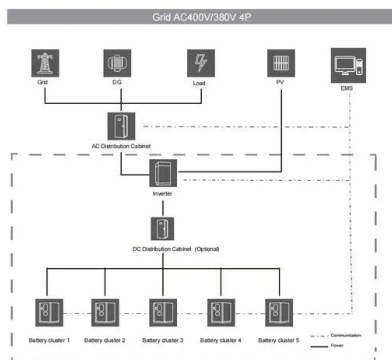
## Redflow flags next-gen flow battery as it targets ...

Redflow, which on Tuesday flagged an expected loss of around \$14 million for the first half of the 2024 financial year, has had some significant wins in the US market since the introduction of the



## Ameresco signs up flow battery provider Redflow for North ...

Redflow makes flow batteries based on a zinc-bromine electrolyte, following up deployments in markets including Australia, New Zealand and South Africa with its entry into the US, completing a 2MWh project in 2021 at a California bioenergy power plant and signing a master service agreement (MSA) with EPC services firm Black & Veatch to put



## Administrators fail to recharge battery maker Redflow

Queensland-based Redflow created a scalable zinc-bromine flow battery designed for energy storage.. The company says its battery is the "world's smallest and most scalable" from tens of kilowatt hours up to hundreds of megawatt hours.. Redflow was planning to develop a larger scale X10 battery (based on its existing stack design) targeted at larger ...

## Redflow teams with Stanwell to advance zinc bromide flow battery

"Redflow has taken the core chemistry and technology IP from the Pod200 and scaled this up and optimised it to provide better performance, higher energy density and lower cost," the company said, adding that the X10 retains its modular approach so system design is bespoke, however each 20ft container equivalent is initially about 150 kW / 725 kWh with a ...



## California Energy Commission to fund 20MWh zinc-bromine flow battery ...

Redflow's project for California biofuel producer Anaergia (pictured) has been in operation for over a year. Image: Redflow. Redflow will supply a 20MWh zinc-bromine flow battery energy storage system to a large-scale solar microgrid project in California, aimed at protecting a community's energy supply from grid disruptions.

## Brisbane battery company Redflow cracks US defence contract

Brisbane-based battery company Redflow has won a \$4.38 million deal with the US Department of Defence to repower a solar microgrid at a New York state airbase, in what it hopes will be a string of



## Zinc-bromine flow battery maker Redflow 'unable to continue as ...

However, those commitments required Redflow to match the government funding on offer, and



attempts to raise equity support did not bear fruit, Redflow said last week (23 August). "In the absence of such support, the Directors believe that Redflow is unable to continue as a going concern and have no option but to place the Redflow Group into voluntary ...

## Redflow suspends deliveries after battery mode failure incidents

Australia-based flow battery provider Redflow has paused deliveries of new batteries after a number of unexpected product mode failures during remote monitoring at customer sites, according to a filing on the Australian Stock Exchange. At present, Redflow has roughly US\$1 million worth of product back-orders, with 96 batteries in stock and



## Redflow halves ZBM battery costs to below grid price in just six ...

The ZBM is now available for US\$0.2/kWh, down from US\$0.48 six months ago due to improved technology and reduced manufacturing costs, Redflow claimed. The recommended retail price for the company's 10kWh ZBM2 product has also been reduced by 16% to US\$8,000 and its 11kWh ZBM3 has decreased by 10% to US\$8,800.

## Redflow Delivering For Queensland's Battery Industry And Jobs ...

Redflow and Stanwell will collaborate on the development and deployment of Redflow's new X10 battery solution for use in a large-scale project of up to 400 MWh, which will serve as a potential anchor order for Redflow's planned manufacturing facility in Queensland. The feasibility study is scheduled to be completed in early 2025

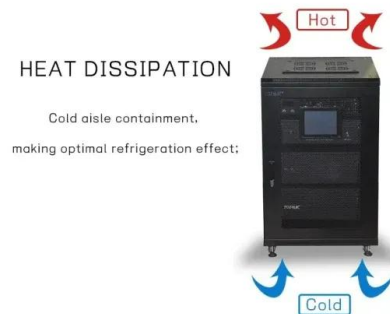


## ASX RELEASE

the Redflow Groups' respective boards of directors. Redflow has developed a strategic plan to develop a larger scale X10 battery (based on its existing stack design) targeted at larger megawatt hour scale projects. Redflow received significant commercial interest in the X10 battery and, with a growing customer base, was proposing a new

## Redflow administrators see early interest in flow ...

The administrators appointed to handle the affairs of Australian flow battery manufacturer Redflow have already received interest from prospective buyers and investors. As reported yesterday by Energy ...



## Redflow administrators see early interest in flow battery maker

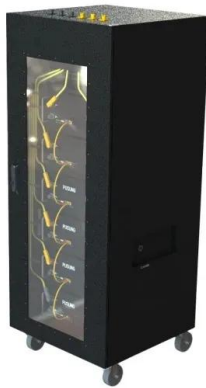
The administrators appointed to handle the affairs of Australian flow battery manufacturer Redflow have already received interest from prospective buyers and investors. As reported yesterday by Energy-Storage.news, Queensland-



headquartered Redflow, which has a proprietary zinc-bromine hybrid electrochemical energy storage technology, went into

## Stanwell sign MOU with Redflow to deliver on Queensland's battery ...

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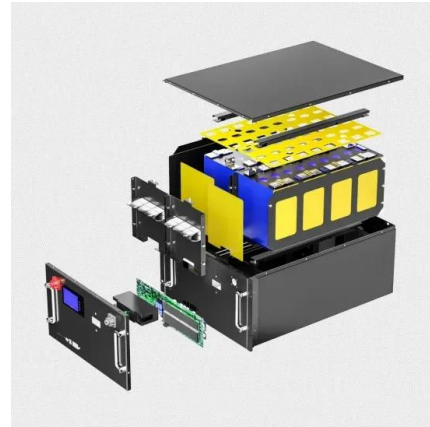
## Stanwell deal sets scene for Queensland battery plant

Queensland battery developer Redflow says it has taken a significant step towards delivering local manufacturing through an MOU with energy generator Stanwell Corporation. The MOU sets out Redflow's and Stanwell's intention to collaborate on the development and deployment of Redflow's X10 battery for use in a 400 MWh large-scale ...

## Redflow to jointly develop X10 flow battery

Redflow, the Australia and US-based energy company, and utility company Stanwell are to jointly develop and deploy Redflow's new X10

flow battery solution for use in a large-scale project of up to 400MWh.. The battery has the core stack technology as the company's ZBM3 battery. It is redesigned for large-scale deployments. This will serve as a ...



## ASX-listed battery company Redflow handed to administrators ...

Redflow has a range of large projects here and in the US for battery storage, including with the US Dept of Defence, (MOU) with energy generator Stanwell Corporation to deploy of Redflow's X10 battery solution in a large-scale project of up to 400 MWh. It was meant to be the potential anchor order for Redflow's planned manufacturing plant.

## Redflow to jointly develop X10 flow battery

Redflow, the Australia and US-based energy company, and utility company Stanwell are to jointly develop and deploy Redflow's new X10 flow battery solution for use in a large-scale project of up to 400MWh.. The battery ...

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## Zinc batteries: Redflow teams with Stanwell on 400 MWh project, ...

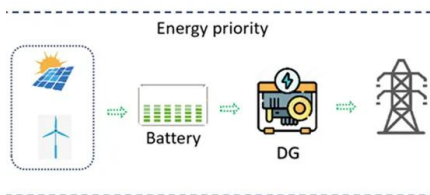
Australian zinc bromide flow battery specialist Redflow has struck a partnership with

Queensland state-owned generation company Stanwell to work together on the development of a non-lithium long



## Redflow : delivering for Queensland's battery industry and jobs ...

Redflow and Stanwell will collaborate on the development and deployment of Redflow's new X10 battery solution for use in a large-scale project of up to 400 MWh, which will serve as a potential anchor order for Redflow's planned manufacturing facility in Queensland. RedFlow Limited Receives Funding from U.S. Department of Energy for 34.4 MWh



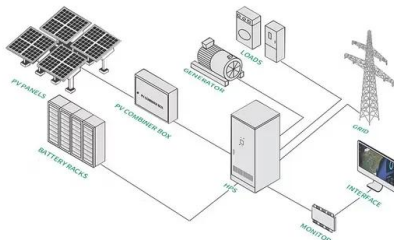
## Redflow Liquidation: Australian Battery Developer Faces Financial ...

Redflow, a prominent developer of battery storage technology in Australia, along with its Australian subsidiaries, has been placed in liquidation due to persistent cash shortages. This decision comes

## Redflow lands second US defence battery contract

Brisbane-based battery manufacturer Redflow has signed a contract to supply a 400 kWh zinc-bromine energy storage system to the United

States Department of Defense (DOD) as part of what it hopes will be a series of lucrative deals at U.S. bases worldwide. Redflow said the long-duration energy storage solution (LDES) will be deployed to supply



## Redflow plans 20MWh battery storage system in California

Redflow plans 20MWh battery storage system in California. "This project is a great example of US-Australian collaboration in renewable energy and supports the aims of the recent Climate, Critical Minerals and Clean Energy Transformation Compact, which cites clean energy as the third pillar of the alliance," he added.

## Flow battery maker Redflow 'unable to continue as ...

Australian flow battery manufacturer Redflow is in voluntary administration after being unable to raise equity funding for a strategic plan. The company said that it had secured financing commitments from state and ...



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