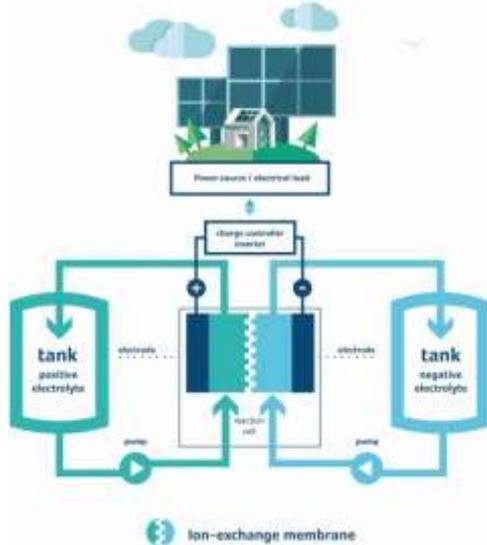


New Battery Technology for Green Energy Storage

energy in the flow



- Long lifetime
- Non-explosive
- Non-flammable
- Low cost over lifetime
- Scalable
- Recyclable
- Environmentally friendly

Value Proposition/USP

Compared with other battery technologies, Redox Flow batteries are an attractive choice for energy storage, due to safety aspects, as they cannot explode or catch on fire, they have a long lifetime, low cost and maintenance, constant energy efficiency, and are scalable, recyclable and environmentally friendly.

Business Opportunity/Objective/Commercial Perspectives

Bloomberg has analysed a possible outlook for 2040 and their conclusions are: electricity from renewables will be cheaper than coal as from 2027, along with a 60% lowering of Capex for PV-systems. Furthermore, they estimate that 70% of the electricity in Europe will stem from renewables (50% solely from solar energy), and 10% of electricity will never pass through a meter (AMR), due to local storage.

VisBlue sees potential in the following markets: housing associations, backup/UPS systems, off-grid sites and island, the wind turbine industry, and manufacturing companies.

Description of Technology

Redox Flow batteries (RFB) represent one class of electrochemical energy storage devices. The name "redox" refers to chemical reduction and oxidation reactions employed in the RFB to store energy in liquid electrolyte solutions, which flow through a battery of electrochemical cells during charge and discharge. During discharge, an electron is released via an oxidation reaction from a high chemical potential state on the anode (negative) side of the battery. The electron then moves through an external circuit and is, finally, accepted via a reduction reaction at a lower chemical potential state on the cathode (positive) side of the battery. The direction of the current and the chemical reactions are reversed during charging.

Development Phase/Current State

The first commercial sale has been finalised and will be installed in Q4-2018 and Q1-2019. Version 3.0 of the battery solution is currently being developed.

Contact Information

Søren Bødker, CEO
Cell: +45 2166 3575
Email: ssb@visblue.com

