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Title: Vanadium titanium liquid flow battery investment

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What is the economic model for vanadium redox flow battery?

A techno-economic model for vanadium redox flow battery is presented. The method uses experimental data from a kW-kWh-class pilot plant. A market analysis is developed to determine economic parameters. Capital cost and profitability of different battery sizes are assessed. The results of prudential and perspective analyses are presented.

Does reselling vanadium electrolyte preserve its operative value?

In addition, the vanadium electrolyte after regeneration preserves its operative value because it is not affected by cross-contamination and aging effects. However, no market quotations are available at present for vanadium reselling, so that in a prudential analysis it was assumed EOL cost equal to zero, consistently with most literature [13,23].

What is a redox flow battery?

Nevertheless, flow batteries (FBs, also redox flow batteries - RFBs) present a number of features which make them particularly promising among other electrochemical storage technologies [15, 16]. The all-vanadium FB (VFB) is the most developed among them.

Is EoL cost a Prudential assumption for vanadium reselling?

However, no market quotations are available at present for vanadium reselling, so that in a prudential analysis it was assumed EOL cost equal to zero, consistently with most literature [13,23]. A more favorable hypothesis is made in the perspective analysis. 4. Results 4.1. LCOS and NPV with prudential assumptions

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