

## Kongres Container

# Slovakian flow battery companies



## Overview

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### 1.1. What is a Flow Battery?

What is a flow battery?

A flow battery is an electrochemical cell that converts chemical energy into electrical energy as a result.

Where is the first battery cell production line in Slovakia?

The Slovak company InoBat has launched the first battery cell production line in Slovakia. It is situated right next to the research & development laboratories in Voderady. The maximum installed capacity of the line equals 50,000 battery cells produced annually.

When will the first Slovakian batteries be produced in Voderady?

Pilot production of the first Slovakian batteries in Voderady is scheduled for the Q1 of 2024. About InoBat.

Where will the first battery Gigafactory be located in Slovakia?

The first battery gigafactory in Slovakia will be located in Šurany on a 95-hectare area and will create thousands of jobs. In the initial development stage, it will have a capacity of 20 GWh with the further potential to reach a capacity of up to 40 GWh.

How many INOBAT operators are there in Slovakia?

In the first phase, the line will be operated by 41 InoBat operators, ensuring 24/7 operation of the battery formation and aging processes. The Slovak company InoBat has launched the first battery cell production line in Slovakia. It is situated right next to the research & development laboratories in Voderady.

What are flow batteries used for?

Flow batteries help create a more stable grid and reduce grid congestion and

fill renewable energy production shortfalls for asset owners. Global R&D is fueling the development of flow battery chemistry by significantly enabling higher energy density electrodes and also extending flow battery applications.

What are the typical chemistries used in flow batteries?

Typical flow battery chemistries include all vanadium, iron-chromium, zinc-bromine, zinc-cerium, and zinc-ion. A flow battery is an electrochemical cell that converts chemical energy into electrical energy as a result of ion exchange across an ion-selective membrane that separates two liquid electrolytes stored in separate tanks.

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