CAPE SOLUTIONS

Development of digital twins for energy storage.

Digital Twin (DT) can be described as a digital representation of a real process, product or apparatus. The task of DT is to synthesize knowledge in the form of available data and mathematical description of the process and its inputs and outputs. On this basis, DT provides a wide range of functions in the areas of management, decision-making, maintenance of know-how, environmental and economic optimisation of operations, troubleshooting and long-term technology development.

Unique selling points:

- DT enables online management, monitoring and optimization of energy storage systems.
- Custom-made DTs are developed for the customer based on physicochemical models and experimental data.
- DT summarises knowledge of the process using state-of-the-art methods for efficient operation.

Product

Software containing AI

Technology readiness

Development

Proof of concept

▶ Prototype

First implementation

Extensive implementation

1/2024

B2B