

ABOUT:ENERGY | STMICROELECTRONICS

# Accelerating Battery Management System Development with a Rapid Prototyping Platform

Combining STMicroelectronics Battery Management System Integrated Circuits and the AutoDevKit ecosystem with the About:Energy cell model library to simplify BMS development.

## THE CHALLENGE

Battery Management System (BMS) development is time-intensive, cost-intensive, and requires specialist expertise. On top of this, the EV industry is fast-paced with stringent time-to-market ambitions. This creates a need for simplified and accelerated BMS prototyping and development.

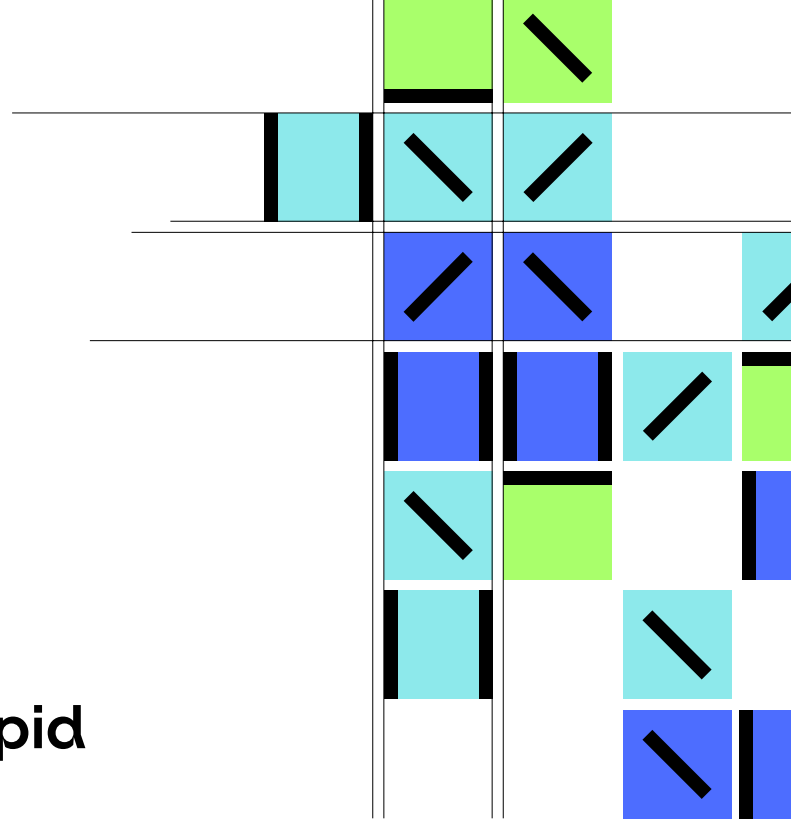
## THE SOLUTION

About:Energy cell models can now power the BMS state estimation algorithm that runs on the STMicroelectronics BMS evaluation kit. This provides a complete BMS prototyping solution for any chemistry of choice. The project required technical alignment of About:Energy cell models with STMicroelectronics' existing BMS algorithm implementations.

## THE OUTCOME

STMicroelectronics and About:Energy are seeking to revolutionise e-mobility by facilitating low-cost, in-house development of battery management systems (BMS), making advanced battery technology more accessible. This collaboration supports comprehensive BMS design, eliminating the need for separate in-house battery cell testing to create battery models. This enhances safety and efficiency in underserved electrification sectors, enabling companies to develop their own intellectual property.

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## ABOUT:ENERGY

### WEBSITE

[aboutenergy.io](https://aboutenergy.io)

### FOUNDED

2022

### HEADQUARTERS

London, UK

### NO. OF EMPLOYEES

10-50



**Portfolio of Plug and Play**  
since 2023

## About:Energy accelerates time-to-market for battery systems.

About:Energy's technology reduces time-to-market and battery testing/ modelling costs by rapidly and accurately parameterising battery cells.

## ABOUT STARTUP AUTOBAHN

STARTUP AUTOBAHN powered by Plug and Play is an open innovation platform that provides an interface between innovative tech companies and industry-leading corporations. The basis of the program is the partnership that develops between startups and the corporate business units. The two entities hold an equal footing from the get-go: together they evaluate the potential for a joint venture, move forward to pilot the technology, and work to achieve the ultimate goal – a successful production-ready implementation. Designed with the intention to exceed startup acceleration, STARTUP AUTOBAHN powered by Plug and Play moderates a community for collaboration with a focus on implementable results. Over the years, the platform has successfully cultivated over 400 projects with more than 300 startups since its founding in 2016.

## ACKNOWLEDGEMENTS

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## CONTACT FOR THIS PROJECT

### Noemie Haziza

EMEA Automotive Marketing Comms  
STMicroelectronics  
[noemie.haziza@st.com](mailto:noemie.haziza@st.com)

### Julia Riedel

EMEA Automotive Marketing Comms Manager  
STMicroelectronics  
[julia.riedel@st.com](mailto:julia.riedel@st.com)

### Roberto Sampietro

Ventures Mobility  
STARTUP AUTOBAHN powered by Plug and Play  
[r.sampietro@pnptc.com](mailto:r.sampietro@pnptc.com)