

# Näst Energy Lab launches one of Europe's largest vehicle-to-grid installations

**Polarium contributes large-scale battery storage solution to a fully operational local power system.**

**Torslanda, Sweden – 16 April**

Näst Innovation Destination today launches Näst Energy Lab, a real-world energy platform and one of Europe's largest vehicle-to-grid (V2G) installations. The initiative demonstrates how buildings, batteries, and electric vehicles can be connected into a fully operational local power system — reducing grid strain, increasing energy resilience, and enabling electrification at scale. Polarium is part of the initiative, contributing Polarium BESS — a large-scale battery energy storage system designed to enable and optimize energy use. The solution supports smart charging and vehicle-to-grid functionality, enabling local energy storage, flexibility and real-time optimization within the integrated system.

Näst Energy Lab is the result of partnerships formed within Näst Innovation Destination Torslanda, an open and neutral arena designed to accelerate innovation through collaboration across industries. The first project delivered within the platform, *From Parking to Power*, is now in full operation.

"At a time when we are facing growing pressure on energy systems, we also have the technology, the industry, and the willingness to act. Näst Energy Lab shows what becomes possible when collaboration moves from ideas to real systems," says Joel Ambré, CEO, Vectura.

## **From Parking to Power — a local power system in operation**

*From Parking to Power* demonstrates how parking infrastructure can be converted into an active part of the local energy system. The project integrates real estate and buildings, stationary battery storage, charging infrastructure, and up to 160 connected electric vehicles into a coordinated local power system operating in real time.

Polarium's battery system plays a key role in optimizing how energy is produced, stored, and used locally — helping reduce peak demand, lower operating costs, and strengthen energy resilience in the built environment. Combined with smart charging and vehicle-to-grid functionality, the system enables continued electrification without the need for major grid reinforcements.

Phase one infrastructure is designed with future phases set to expand capacity further — establishing a new benchmark for large-scale V2G integration within a single, integrated system.

## A platform for collaboration and scale

Näst Energy Lab is Näst's platform for energy — a real-world environment where solutions can be implemented, tested, and scaled. It brings together partners with clearly defined roles:

- Buddy Energy leads system integration
- Volvo Cars contributes V2X-enabled vehicles and chargers
- Polarium delivers large-scale battery energy storage for local optimization
- Vectura and Steptura provide the real estate infrastructure
- Näst Innovation Destination operates the lab as a neutral platform for collaboration and scaling

"No single actor can solve the power challenge alone. Näst Energy Lab proves that when industry collaborates in real environments, electrification can be faster, more resilient, and more cost-effective," says Per-Henrik Persson, CEO, Buddy Energy.

"The EX60 can charge when energy is cheap and clean, and feed power back to the grid when it is needed most. The owner saves money. The grid gets flexibility. And the car is no longer just transport — it is also an energy asset," says Alejandro Castro Pérez, Vice President Energy Solutions at Volvo Cars.

### About Polarium

Polarium develops smart battery management and storage solutions that turn energy into measurable value – mastering every watt hour. Our technology powers businesses within telecom, commercial and industrial and residential facilities worldwide. Polarium was founded in 2015 on the conviction that safe and smart energy storage solutions will be key to empower the transition to a truly, sustainable energy future. We are an impact business contributing to the energy transformation by enabling the electrification and intermittent power supply. Our cutting-edge and easily adaptable modular battery technology enables us to be in the forefront of developing state-of-the-art battery management and storage solutions for today – and tomorrow. Polarium is headquartered in Stockholm, with production in Vietnam, and customers across the world.

Website: [www.polarium.com](http://www.polarium.com)

### About Näst Innovation Destination

Näst Innovation Destination is an open and neutral platform for collaboration, innovation, and industry development. Located in Torslanda, Sweden, Näst brings together companies, talent, and real-world environments to accelerate solutions within energy, mobility, materials, and learning — from idea to scale.

Website: [www.nastinnovationdestination.com](http://www.nastinnovationdestination.com)



**Press Release**

16 April 2026 18:30:00 CEST

## **Image Attachments**

[PolariumNast](#)

## **Attachments**

[Näst Energy Lab launches one of Europe's largest vehicle-to-grid installations](#)