

# Nordic research station uses outdoor photovoltaic cabinet for bidirectional charging

Voltage range

636V-876V

Rated voltage

768V

Cell type

Lithium iron phosphate



## Overview

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**ELECTRIC CARS AS ROLLING CHARGING STATIONS:** In the "ROLLEN" research project, Fraunhofer IFAM and its partners have shown how electric vehicles with bi-directional charging technology can store surplus energy from photovoltaic systems and pass it on in a targeted manner - to.

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### Deep Dive: How to make bidirectional charging a no

This bidirectional charging capability transforms EVs into mobile energy storage units, which can be used to balance supply and demand on the

### [Nordic Semiconductor expands nRF54L Series with entry-level](#)

Leveraging Nordic's complete Bluetooth offerings With these entry-level Bluetooth LE SoCs, developers can ensure their products benefit from the same fully featured, certified Bluetooth



### [Nordic Semiconductor accelerates cellular IoT leadership with major](#)

Nordic Semiconductor unveils its next-generation portfolio featuring Cat 1 bis, satellite NTN, advanced LTE-M/NB-IoT with edge AI, and a clear path to 5G eRedCap delivering secure and

### [Green light for bidirectional charging? Unveiling grid repercussions](#)

Bidirectional charging, such as Vehicle-to-Grid, is increasingly seen as a way to integrate the growing number of battery electric vehicles into the energy system. The electrical storage



### [Next generation smart ring integrates Nordic's nRF54L15 SoC](#)

"We selected Nordic's nRF54L15 SoC for the



### [Project Bidirectional Charging Management- Insights and](#)

The research project "Bidirectional Charging Management" (BCM) tests bidirectional charging applications in a comprehensive field trial to demonstrate the customer benefits and value



### [Bidirectional charging of outdoor photovoltaic energy storage](#)

Explore how Battery Energy Storage Systems (BESS) and Bidirectional Charging (BDC) are transforming energy storage, improving efficiency, and maximizing renewable energy.



### **Smart Charging and V2G: Enhancing a Hybrid Energy**

This paper introduces a novel testing

IDR01 smart ring because of its outstanding overall characteristics," continues Zhu. "By leveraging its powerful processing capabilities, ultra-low power



### **Nordic Semiconductor unveils nRF54LV10A**

Nordic Semiconductor, a global leader in low-power wireless connectivity solutions, today launches the nRF54LV10A SoC, setting a new benchmark for integration, performance, and battery life in the



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environment that integrates unidirectional and bidirectional charging infrastructures into an existing hybrid



### About Nordic Semiconductor

Nordic Semiconductor plays a key role in the realization of the wireless future. We remain passionately committed to ultra-low power wireless technology done right.

### [Finland Gets Its 1st Public Bidirectional V2g Charging Station](#)

The vehicle-to-grid (V2G) charging point complements an existing solar power plant and a stationary energy storage, and enables using EVs as energy storages and to stabilize the electricity grid.



### [Nordic Semiconductor launches nRF9151 software and development](#)

Nordic Semiconductor, a global leader in low-power wireless connectivity solutions, today announces the launch of the nRF9151 SMA Development Kit (DK), a specialized DK for RF engineers

### Bidirectional Charging: EVs as Mobile Power Storage

The aim of the project was to optimise the geographical and temporal distribution of surplus energy from renewable energy systems (RE systems) using bi





### **Nordic research station uses photovoltaic containers for bidirectional**

The objective of this article is to propose a photovoltaic (PV) power and energy storage system with bidirectional power flow control and hybrid charging strategies.

### **Google Scholar**

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### **Nordic Semiconductor**

Investor relations Nordic Semiconductor is a global leader in low power wireless connectivity solutions, providing the essential platform and wireless technologies that connect IoT devices within the

### [Nordic Semiconductor debuts low-power nRF93M1 Cat 1 bis module](#)

Nordic Semiconductor, a global leader in low-power wireless connectivity solutions, unveils low-power nRF93M1 Cat 1 bis modules at Mobile World Congress 2026. Nordic



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### [Bidirectional Charging and Electric Vehicles for Mobile Storage](#)

The size of a light-duty EV battery (approximately 15-100 kWh) makes individual bidirectional units ideal for smaller applications like individual buildings, where they can optimize the use of PV and replace



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