



# POLICY PAPER. BIDIRECTIONAL CHARGING – THE BMW GROUP'S ENERGY-MOBILITY INTEGRATION STRATEGY.

## WHAT IS BIDIRECTIONAL CHARGING?

Bidirectional charging (BDC) enables electric vehicles not only to draw electricity from the grid but also to feed it from their battery pack into the grid or to other electrical consumption points. In other words, vehicles become flexible energy storage systems that support grid stability and enable more efficient use of renewable energy.

BDC goes beyond the individual customer to embody the vision of simple, convenient energy sharing among users within communities.

## THE BMW GROUP'S POSITION AND STRATEGY.

The BMW Group regards BDC as a key technology for intelligently linking mobility with the energy system, while ensuring safe, comfortable and reliable mobility for our customers.

We urge the creation of harmonised, future-proof regulatory frameworks, particularly for feeding energy back into the public grid (vehicle-to-grid, V2G). Our holistic approach extends beyond our product portfolio to include innovative concepts such as energy communities (decentralised local cooperatives for energy distribution) and energy sharing (where users exchange energy directly). In combination, these elements align customer needs with a sustainable and resilient energy system.

In Germany and Europe, favourable regulatory, technological and market conditions make V2G a particular focus. In the US, fragmented monopoly structures and inconsistent regulations pose challenges to V2G implementation, so our priority there is to expand charging infrastructure and regional cooperation. In China, local market structures and competitive conditions shape our activities, so the BMW Group's focus in that country is on expanding e-mobility and developing charging infrastructure in collaboration with local partners.

## PRECONDITIONS FOR THE SUCCESS OF V2G.

The following five factors are crucial for scaling customer-friendly V2G:

- **Customer centricity:** Mobility should remain simple, user-friendly and fully available at all times.
- **Technical integration:** Vehicles, charging infrastructures and energy systems should interact seamlessly, with manufacturers such as the BMW Group playing a central role in their control and coordination.
- **Regulatory harmonisation:** Measurement, billing, energy exchange and taxation should be regulated clearly and uniformly across the EU to ensure a customer-friendly experience.
- **Financial incentives and fair tax frameworks:** Attractive, transparent, easy-to-understand models such as flexible charging tariffs and reimbursements should encourage grid-friendly charging and discharging – at no extra cost to customers (e.g. grid fees, taxes).
- **Interoperability and scalability:** Hardware and software must be compatible across providers to ensure fair competition, rapid rollout and smooth cooperation across the mobility and energy ecosystem.

## BENEFITS FOR STAKEHOLDERS AND SOCIETAL CONTRIBUTION.

BDC offers numerous advantages:

- Flexible charging options and financial incentives for customers.
- Greater grid stability for operators, thanks to the additional flexibility offered by BDC.
- Faster expansion of renewable energy through improved grid integration.
- Local energy autonomy through collective action by energy communities.
- CO<sub>2</sub> reductions, optimised grid loads and increased citizen participation for the wider benefit of society.

To unlock the full potential of BDC, clear policy frameworks are essential.

## CONCLUSION.

BDC is key to intelligently linking the energy and mobility sectors and is essential for the energy transition and climate protection. Used as flexible energy storage systems, electric vehicles can stabilise the grid and support the expansion and use of renewable energy.

For us at the BMW Group, the focus remains on customer mobility and the professional and secure integration of mobility and energy. We are committed to enabling the widespread rollout of BDC and V2G across Europe and beyond – through technological innovation, harmonised regulatory frameworks, customer-friendly incentives and high interoperability. This will contribute significantly to sustainable mobility and energy supply.

BMW Group, January 2026

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