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Unlocking the Grid's Potential:

How **V2G Technology** is Redefining Energy Management

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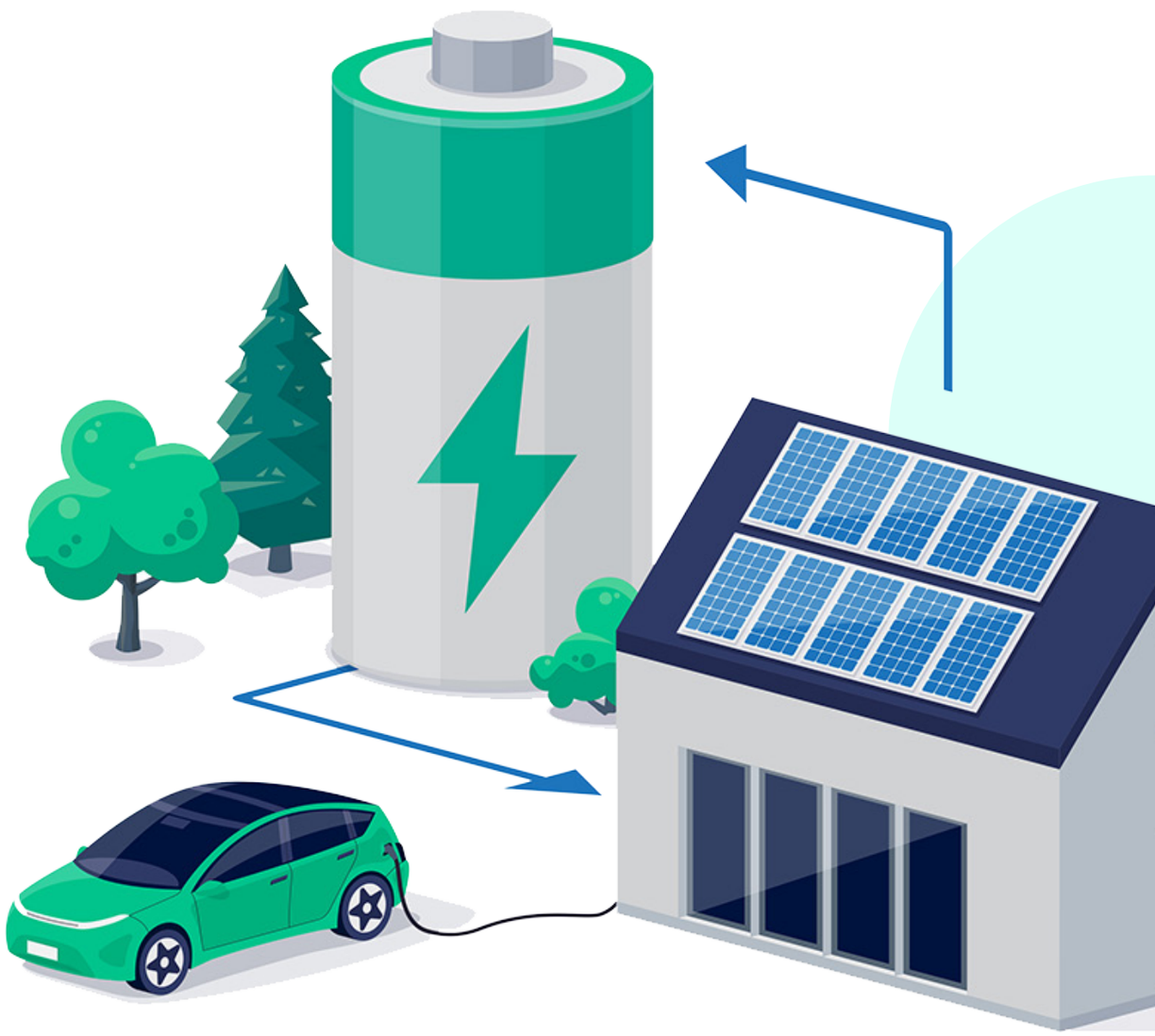
Bi-directional Charging in Action

EVs are no longer just **energy consumers**—they are **mobile energy assets** that can enhance grid resilience by supplying power back to the grid during times of need, offering **smart energy solutions** to manage demand.



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Key Benefits of V2G

Besides balancing energy supply & demand during peak hours, V2G technology supports in:

Sustainability

Reduces reliance on fossil fuels

Monetization

Opportunity to earn via ancillary services markets, where energy storage is traded for grid support.

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Industry Initiatives Driving V2G Adoption: A Collaborative Effort (1/2)

Nissan planned to launch affordable vehicle-to-grid technology in 2026

Nuvve, ComEd, and **Resource Innovations** announced the launch of a pilot partnership to advance V2G technology using electric school buses.

GM has patented a dual charging system concept for EVs.

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Industry Initiatives Driving V2G Adoption: A Collaborative Effort (2/2)

Nissan joined **BMW, Ford,** and **Honda**-led V2G charging joint venture: ChargeScape

Nuvve has collaborated with **Tellus** for V2G charging solutions by opting for the latter's bidirectional & unidirectional charging solutions ranging from 20 kW to 360 kW.

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Future of V2G in Energy Markets

V2G-powered EV fleets can store excess solar & wind energy, reducing curtailment losses.

Advanced charge cycle management and AI-driven charge optimization help mitigate degradation risks.

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V2G is shifting the energy paradigm—where EVs are not just vehicles but integral components of the smart grid

For tailored insights,
email to our **mobility tech expert**

Rehan Khan **rehan.khan@iebrain.com**

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