

Development Trends and Market Opportunities for V2G Technology

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Abstracts

Vehicle-to-Grid (V2G) technology enables bidirectional interaction between vehicles and the power grid, transforming electric vehicles into "mobile power sources on wheels." This technology not only effectively alleviates peak load pressure on the grid but also meets the storage needs for renewable energy. It is anticipated that the V2G equipment market will experience double-digit compound annual growth rates (CAGR) through 2030. However, challenges persist across the vehicle, charging infrastructure, and grid interfaces, presenting both opportunities and obstacles.

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