

# Grid Interconnection



## For Utilizing Renewable Energy as the Major Power Source! Let's Check Next-Generation Power Network

The mass introduction of renewable energy is an essential element towards carbon neutrality. However, some issues must be solved to make renewable energy the primary power source. Outside of cost and environmental impact, the most important factor for a stable supply of power is to achieve a balance between demand (the amount of power to be used) and supply (the amount of power to be generated). If this balance is broken, it can lead to a massive blackout in the worst-case scenario.



※1 電力用半導体素子のスイッチング作用を利用して、直流電力を交流電力に変換する装置

※2 送電を高電圧の「直流」で行うシステム。送電ロスが少なく、長距離でも大量に送電できる上、周波数が異なる系統の連系にも適している

In addition, since the amount of electricity generated from renewable energy sources is easily affected by weather and climatic conditions, the amount of electricity generated is currently adjusted by thermal power generation and other methods to prevent an imbalance between supply and demand. Therefore, to accept more renewable energy into the existing power transmission and distribution grids, it is necessary to solve various issues, including balancing supply and demand.



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