The Smart Grid concept is a next-generation power grid in which the electric power flow is controlled flexibly by fully utilizing the latest information technologies. It monitors the condition of electricity consumption and generation, balancing "demand" and "supply," at a time when demand and supply will further diversify due to the installation of EV/PHEV, wind power generation, etc, to power grid.

**Smart grid promoted by Hitachi**

Hitachi owns a wide range of information/communications and control technologies that will be required for the development of Smart Grids. These include communication technology for advanced metering infrastructure and grid stabilizing technology to mitigate any negative impact on the grid such as unstable renewable energy. Hitachi can achieve this with technologies in both the power/electric and information/communications fields.

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DMS: Distribution Management System  
BEMS: Building and Energy Management System  
CEMS: Community Energy Management System  
FEMS: Factory Energy Management System  
HEMS: Home Energy Management System  
AMI: Advanced Metering Infrastructure  
MDM: Meter Data Management  
PFC: Power Conditioning System  
SVC: Static Var Compensator  
PV: Photovoltaic  
EV: Electric Vehicle  
PHEV: Plug-in Hybrid Electric Vehicle