## HVDC transmission

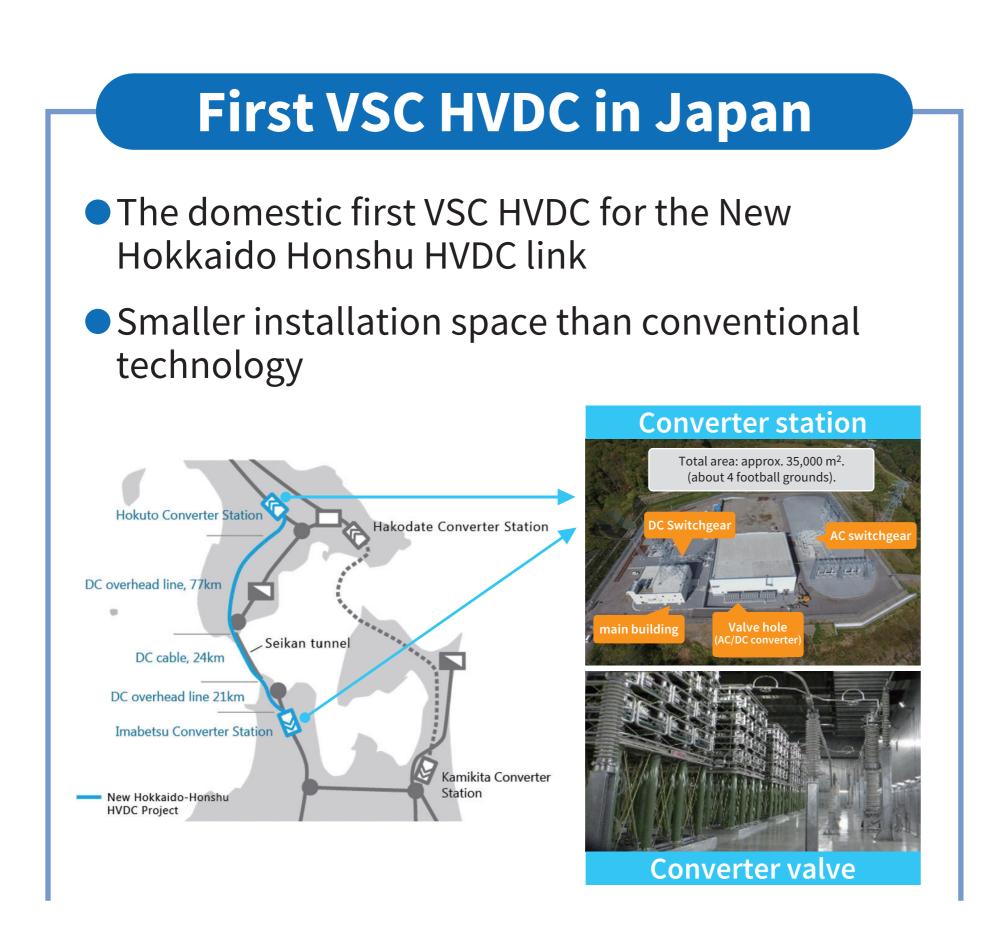
Connecting distant renewable energy generation to the grid Interconnecting large power transmission systems

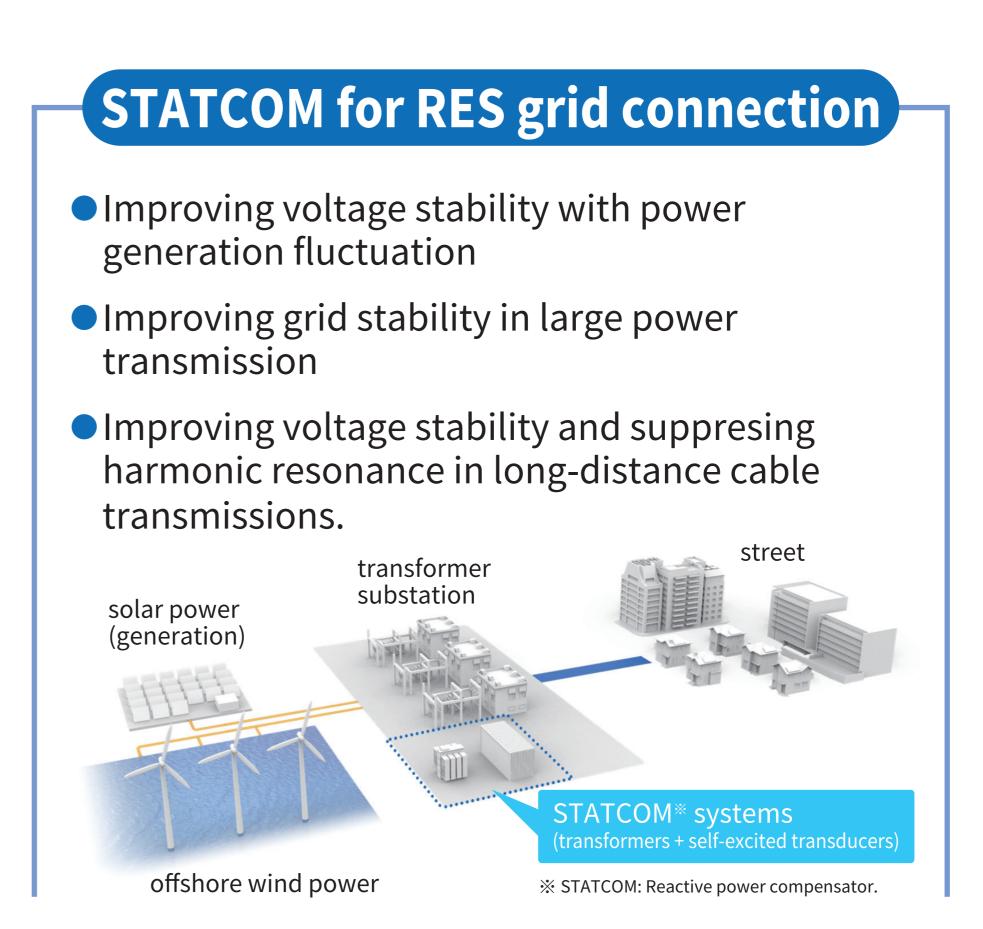
## Working on the development of HVDC technologies

## **Special features**

- Long-distance power transmission with low losses

  Long distance transmission with low transmission power losses makes renewable energy generation sites very distant from major power consumption area viable.
- Connecting grids with different frequencies
  Supplying electricity across different frequency regions (50 Hz and 60 Hz)
  Contributing to a stable power supply over a large area.
- Strengthening interconnection between major Japanese islands





## More introduction of offshore wind power

- A master plan for the wide-area grid interconnection is being developed in Japan for utilizing renewable energy generations and improving robust power supply.
- Interconnection between multiple wind farms and long-distance submarine cable transmission to onshore substations is required. The introduction of VSC based HVDC will enable power transmission.

