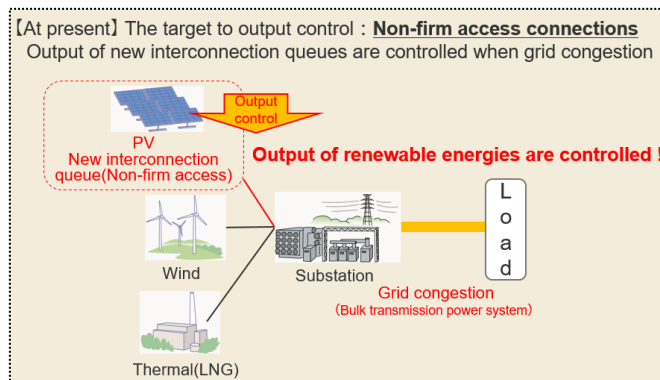


Power system operating rules for introducing a large amount of renewable energies

This paper introduces the target of controlling the power generation on Non-firm access system.

At present, Non-firm access connections have been applied to new interconnection queues with output control when bulk transmission power system is congested. The targets of controlling the power generation output are all Non-firm access connections even if these are renewable energies such solar power generations. The cost relating to processing congestion will be covered by a power generation companies that have the Non-firm access connected power sources.



From the end of 2022, Bulk transmission power system is going to apply an adjustable power to output control generation (Re-dispatching system). It's a output control method to maximize the use of a large amount of renewable energy. An adjustable power is power generation having a contract with TSO to adjust a balance of supply and demand. Output of an adjustable power that has well-established environment (system and contract) will be controlled. A renewable energy generation will be prioritized because of lower CO₂ emission and marginal cost. The cost relating to processing congestion will be covered by TSO.

In addition, the rule to control power generations with expensive marginal cost is under consideration.

Like this, we are trying to use and introduce a large amount of renewable energy for carbon-free future.

