



A Statement on Energy Transition and Adaptation of Power Systems by CEOs of the World's Largest Power Grid Operators

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Sixteen of the world's largest Power Grid Operators (PGOs) share the conviction that the development of robust power grids is essential for economic development and social welfare. Therefore, they have committed to facilitate transformation of the energy sector focusing on an evolving generation mix and a changing consumption pattern and to further strengthen their collaboration across the continents in the joint mission of making the power grids more reliable.

This development has been accentuated by the recent focus on energy and climate change challenges facing countries around the world. A stronger emphasis is being placed on the development of the new energy mix including renewable generation and energy storage. On the consumption side, demand management initiatives and the utilization of electric vehicles are modifying traditional patterns of demand. This new energy mix realizes a re-mapping of electricity generation with the aim of promoting a better energy mix at the regional and continental level.

The challenge is to integrate new generation sites such as solar photovoltaic installations, wind energy, offshore wind farms and other technologies onto the power grid without risking reliability.

With this challenge in mind, power grids will need to be enhanced and developed to ensure the connection and the transmission of cleaner sources of energy to the points of consumption with no loss of reliability. Furthermore, there should be no gap between the increased number of power plants and development of the transmission infrastructure to guarantee security of supply at minimum cost.

In addition to deployment of existing energy sources, integration of renewable generation, demand side management and energy storage, new information and automation technology systems should be implemented to manage the power system and guarantee reliability of supply. Innovation should be encouraged.

The sixteen Power Grid Operators are also aware that integration of intermittent and decentralized generation requires active and dynamic management of the power grid to ensure the essential balance between energy supply and demand.

We, the chief executive officers of the world's largest Power Grid Operators, have developed a joint statement on the energy transition and adaptation of power systems, which is a common vision of the "GO15. Reliable and Sustainable Power Grids" Association (GO 15):

- We believe that well-designed power grids, electricity markets and transmission network tariff structures should be developed to cover the cost of the power grid enhancement and extension and to promote reliable integration of distributed and renewable energy resources.
- We will contribute to the development and implementation of enhanced protection and control measures in order to improve power system security.
- We support the promotion of the worldwide harmonization of standards, which will provide for interoperability of the solutions in a reliable and efficient way.
- To achieve this, the commitment of competent authorities is needed to support the development of new power grid and information technology infrastructure to provide for a successful and reliable energy transition and to reduce the time required for administrative authorization procedures.

We will continue our present work within GO 15 and commit time, effort and resources to support the energy transition in our industry by deploying appropriate equipment and infrastructure with the aim of achieving a robust and reliable power grid and building a low carbon society.

SIGNATORIES

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