

# *An overview of Smart Grid: Technologies, Applications and Research Challenges*

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GUEST SPEAKER/ CONFÉRENCIER INVITÉ



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ABSTRACT / RÉSUMÉ

## *An overview of Smart Grid : Technologies, Applications and Research Challenges*

The smart grid is a major power grid transformation based on a constantly evolving infrastructure of information technology and power-industry practices for improved management of electricity generation, transmission, and distribution. There are many benefits and advantages associated with smart grid compared to the conventional electric grid, namely, better reliability, efficiency, and security.

In this talk, different issues related with smart grid such as the underlying technologies, standards, architectures and applications will be discussed in detail. Special emphasis will be put on emerging trends in Smart Grid and on different research challenges and business opportunities offered by this emerging technology.

KEYWORDS / MOTS-CLES

(EN) Smart Grid, infrastructure of information technology, efficiency and security.