

# Smart and Secure Transmission Grids To Realize US and EU Renewable Energy Potentials

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- EU: “One of the next great European projects is to give Europe a new European **supergrid** for electricity and gas”  
*(European Commission President Barroso’s 2020 strategy)*
- US: “We will build...the **electric grids** and digital lines that feed our commerce and bind us together”  
*(US President Obama’s Inaugural Address)*

- Renewable energy targets
  - EU: **20%** energy from renewables **by 2020**
  - US: **doubling** renewable generation **by 2012**
- Stimulus initiatives
  - EU: **€3 billion** for energy grids and offshore wind
  - US: **\$11 billion** for a bigger and smarter grid

## **JRC: Robust science for policy making**

Transatlantic cooperation

- AAAS, EU-US Energy Council WG on smartgrids,...

Support to EU initiatives

- Trans-European Energy Networks, Strategic Energy Technology Plan,...

- **Pei Zhang**, Electric Power Research Institute (EPRI)  
*A Smart U.S. Power Grid for a Reliable and Sustainable Service*

- **Keith Bell**, University of Strathclyde  
*Climate Change Drivers for a Single and Smart E.U. Grid*



- **Michele de Nigris**, IEA Implementing Agreement on networks (ENARD)  
*U.S. and E.U. Power Grids: Comparable Challenges and Solutions?*