

# Collaboration to face the challenges of the future energy system

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## Challenges

Decreasing the CO2 emission while securing stability, security of supply and quality of service

## Need

An even smarter and more flexible energy system than today

## The challenges are GLOBAL

Sweden, represented by the Swedish Energy Agency, is therefore involved in the International Smart Grid Action Network (ISGAN).

## ISGAN

- An Initiative of the Clean Energy Ministerial
- Technology Collaboration Programme under the International Energy Agency

**ISGAN is a 'Strategic platform to support high-level government attention and action for the accelerated development and deployment of smarter, cleaner electricity grids around the world'**

## ISGAN Activities



Several deliverables from the ISGAN Activities are available at <http://www.iea-isgan.org/>.

**Sharing knowledge and future plans will improve our possibilities to succeed with the global climate challenge with a maintained reliability and quality level in our energy systems**

## Power T&D Systems

Sweden has the leading role in one of the ISGAN Activities called Power T&D Systems.

### Activity objective:

To facilitate the use of smarter and stronger power grids given significant trends in the industry (integrating large amount of RES, aging infrastructure, utilisation of ICT systems, etc) and to condense the messages to conclusions and recommendations for policy makers.

### Case book:

Spotlight on Strong & Smart Power T&D Infrastructure ver. 2.0

- 13 case studies describing best practices from both transmission and distribution networks from different parts of the world.
- *"Smart grid solutions are found across the entire electrical system, from the high-voltage transmission grid through the distribution grid and at the consumer level. (...) Although conditions vary among countries, there is significant common ground for sharing experiences."*

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