



# Adapting energy infrastructure to climate change

## The role of standardization

27 January 2016 at DIN, Berlin, Germany

### Background info Climate Change Adaptation

The climate is changing, despite mitigation efforts. The EU is already facing unavoidable impacts. Effective adaptation actions can reduce overall damage costs, save lives and natural and human assets. An EU-wide framework will support adaptation measures that have to be designed and applied locally. European Standardization Organizations (ESOs) are asked to identify standards relevant for adaptation to climate change. These focus on three priority sectors:

- Transport infrastructure;
- Energy infrastructure;
- Buildings/construction.

### Workshop – informative content

This workshop is addressed to the European and national standards makers and stakeholders in the sector Energy Infrastructure.

The workshop will provide current information, expert assessment and discussion.

The EC wants to ensure that the framework is suitable for the needs of the stakeholders. This workshop is a way to get your voice heard.

This workshop will:

- inform you about the effects of climate change and experiences with adaptation in various sectors. This will encourage cross sectorial awareness and use of success-stories on adjustment of standards;
- actively involve you in the first phase of adaptation of standardization; you will be encouraged to think about and deal with the standardization need respected to the climate change adaptation deepened; and
- will bring you in discussions with all participants. Jointly you will prepare inputs on standardization needs and prioritization.

The results from the workshops are essential input for the Climate Change Adaptation standardization work programme.

Among the results will be:

- additional standardization needs;
- proposal for first selection of standardization needs and initiatives including their justification;
- prioritization criteria for standardization initiatives.

### Scope workshop Energy Infrastructure

The changing climate will cause several major impacts on energy infrastructure, such as vulnerability to flooding, to severe storms and extreme weather patterns, i.e. long high and low temperature peaks, strong rain and snow falls, extreme ice phenomena.

Of course, availability of data for climate scenarii is a significant challenge for the anticipation of impacts then designing appropriate adaptation strategies.

**Standardization:** DIN Deutsches Institut für Normung e. V



The scope of the workshop will mainly cover 3 major energy sectors: Electricity, Gas and Heating & Cooling. In addition, ICT related infrastructure will be considered.

### Date and location

The workshop on Energy Infrastructure will be hosted by DIN, the German institute for standardization in Berlin, Germany. The workshop will be held on 27 January 2016, from 09:00 until 16:00h.

### Registration

Register at: [www.nen.nl/Evenementen/Workshop-Energy-Infrastructure\\_27jan2016.htm](http://www.nen.nl/Evenementen/Workshop-Energy-Infrastructure_27jan2016.htm)

Participation is free of charge, but registration is required. Please register by Monday 11<sup>th</sup> of January 2016.

### More information

For questions about the workshop please contact:

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For more information about climate change adaptation:

<http://www.cencenelec.eu/standards/Sectors/ClimateChange/Pages/default.aspx>



### Draft programme

1. Introduction to climate change adaptation and standardization request:
  - Global challenge & EU strategy – *Beatriz Yordi (EC DG Clima)*
  - Standardization request – *Andrea Nam (CEN/CENELEC)*
2. Initiatives and tools:
  - European Climate Adaptation Platform in support of EU Member States National Adaptation Strategies – *André Jol (European Environment Agency) tbc*
  - Example of National Adaptation Strategy - France – *speaker tbc*
  - BSI/ISO development: A framework standard for adaptation to climate change – *speaker tbc (BSI)*
  - German specification on standardization and adaptation to climate change – *Dr. Mingyi Wang (GDV)*
3. European Standardization Organisations (ESOs) work on adaptation to climate change:
  - Supplement to CEN guide 4 on climate change adaptation - *Kay Johnstone (Environment agency UK)*
  - Workplan/structure of the project – *Caroline van Hoek / Ab de Buck (NEN)*
  - Energy related Climate Change Strategy – *DG ENER*
4. Sectors' issues and priorities:
  - Introduction about climate change adaptation issues with regard to the standardization request – *Dr. Bernard Gindroz*
  - Sector presentations on issues and priorities – Supply, Transport & Distribution, Demand Side Management - :
    - ✓ Electricity (*tbc*)
    - ✓ Gas – *Françoise Dupin (Marcogaz)*
    - ✓ Heating & Cooling (*CELSIUS EU project leader, Gothenburg*)
    - ✓ ICT infrastructure (*speaker tbc*)
5. Inputs to ESOs' work:
  - Identification of standardization needs and priorities in adaptation to climate change issues for energy infrastructure – Pannel discussion – *Dr. Bernard Gindroz*
6. Conclusion and next steps - *Dr. Mingyi Wang (GDV)*