WELCOME TO TODAY'S WEBINAR

EN ISO 14090 – a new standard on climate change adaptation

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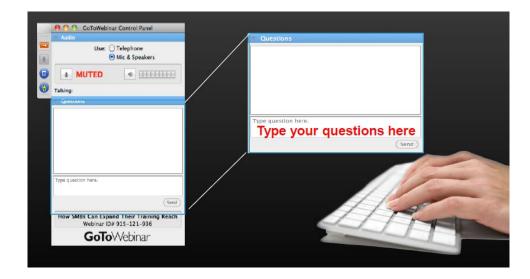
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Your speakers today







Andrea NAM Project Manager Energy & Living Standardization & Digital Solutions Celine PHILLIPS ADEME Climate Change Adaptation Programme Manager French Agency for the Environment and Energy management, ADEME





EN ISO 14090 – a new standard on climate change adaptation

The context

Climate change and Standards



About the Changing Climate

- Human activities are estimated to have caused approximately 1.0°C of global warming above pre-industrial levels (UN IPCC report findings)
- Changes in climate have caused impacts on natural and human systems on all continents and across the oceans.



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Associated Risks



- > If we carry on without addressing it sufficiently, we risk increasingly severe and irreversible **impacts**:
 - melting ice sheets,
 - more severe droughts and floods,
 - extreme events,
 - leading to rising seas,
 - food and water shortages,
 - more climate refugees, etc.

- > The associated risks depend on
 - the magnitude and rate of warming,
 - geographic location,
 - levels of development,
 - vulnerability, and
 - on the choices and implementation of adaptation and mitigation options





What can be done?



Complementary **Strategies** for reducing and managing the risks of climate change

 Mitigation - dealing with the causes of climate change by reducing emissions.

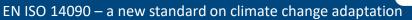
even if anthropogenic emissions of greenhouse gases are are stabilized relatively soon, many associated impacts of climate change will continue to persist for centuries (IPCC).

 Adaptation - dealing with the unavoidable physical impacts of climate change



- anticipating the adverse effects of climate change
- taking appropriate action to prevent or minimized the damage they can cause or
- ✓ taking advantage of opportunities that may arise

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Climate change adaptation



Today we talk about adaptation



Source – Printest – T. Smerling





Adaptation and Standards development at ISO and in the EU

- EU work vertical sector specific standards
 - Mainstream adaptation considerations in standards in key vulnerable sectors:
 - Energy,
 - Transport
 - Construction
 - ✓ Ensuring more resilient infrastructure a long life span and high costs
- ISO international work horizontal standards management system standards
- Avoid duplication of work at International and European levels



European and International Standards

Aiming at having identical worldwide and European Standards

Why are European Standards so unique ?

1 European Standard

34 identical national standards All conflicting standards removed

Access to a market of 600 million consumers



EN ISO 14090:2019 'Adaptation to climate change — Principles, requirements and guidelines' – adopted ISO standard

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EN ISO 14090:2019



The standard

EN ISO 14090:2019 'Adaptation to climate change — Principles, requirements and guidelines'





Management System Standards

- help organizations improve their performance by
 - ✓ specifying repeatable steps to achieve their goals and objectives,
 - creating an organizational culture that engages in a continuous cycle of selfevaluation, correction and improvement
- can be implemented by any organization, large or small,
- are the result of consensus among international experts.

EN ISO 14090 – a « Framework » Standard



- Guidance on tools, adaptive capacity
- Enables tailored solutions, not 'one size fits all'
- Recording and documenting is fundamental
 - "The organization shall...
 - document the results of its assessment...";
 - document the data and information sources used ...";
 - document how the adaptation actions address the most critical climate impacts and opportunities" etc.
- Allows 'subservient' Adaptation Standards to be drafted in more detail (e.g. 14091, 14092...)





- Identify, prepare for, and manage, the impacts of climate change
 - opportunities
 - harmful impacts
- Demonstrate good practice to investors and customers etc.





EN ISO 14090 at a glance

Published July 2019

Content

- 15 Terms and definitions
 - ▲ Climate change adaptation
 - ▲ Transformation
 - ▲ Adaptive capacity
 - Adaptive management
 - **4** ...
- ▲ 10 Principles
 - Flexibility
 - Robustness
 - Transparency
 - ▲ Synergy between adaptation and mitigation
 - **.**..
- 36 Requirements
- Guidelines

Scope

Applicable to any organization, regardless of size, type and nature

e.g. local, regional, international, business units, conglomerates, industrial sectors, natural resource management units.

 Can support the development of sector-, aspector element-specific climate change adaptation standards

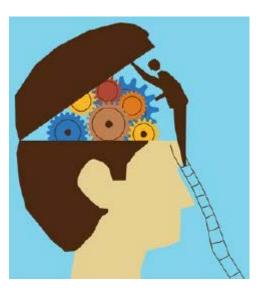
Main Clauses

- Pre-planning
- Assessing climate change impacts including opportunities
- Adaptation planning
- Implementation
- Monitoring and evaluation
- Reporting and communication



EN ISO 14090 – Pre-planning

- Assess the organisation's capability to undertake the climate change adaptation process described in the subsequent clauses e.g.
 - ✓ leadership and broader governance;
 - ✓ human resources;
 - ✓ roles and responsibilities;
 - ✓ financial resources;
 - ✓ required levels of expertise and knowledge;
 - ✓ information and data sources.
- Prepare the climate change adaptation process
 - ✓ document and describe capability gaps;
 - ✓ establish a work programme;
 - ✓ commit the human and financial resources;
 - ✓ identify relevant interested parties and develop a plan to engage with them.

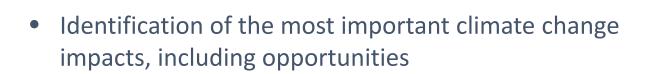






EN ISO 14090 – Assessing climate change impacts including opportunities (1/3)

- Assessment of how the organisation's activities, products and services might be impacted by climate change.
 - slow onset impacts (chronic) and sudden impacts due to extreme events (acute)
 - impacts directly and indirectly on the organization
 - past and future trends in average and extreme conditions and changing variability and seasonality of relevant climate parameters



Webinar/2019-11-14









EN ISO 14090 – Assessing climate change impacts including opportunities (2/3)

- Documentation of
 - ✓ the impact assessment process, the data and information sources used;
 - \checkmark the findings of the impact assessment
 - ✓ uncertainties.



• The impact assessment must be reassessed and updated to reflect changes in business strategy, external environment and influences, and knowledge about climate change.





EN ISO 14090 – Assessing climate change impacts including opportunities (3/3)

Assessment of the organisation's adaptive capacity

- ✓ financial resources;
- ✓ human resources;
- ✓ technical resources;
- ✓ other organizational capabilities.





EN ISO 14090 – Adaptation planning

> Adaptation plan

- ✓ Establish climate change adaptation priorities;
- Incorporate and embed climate change adaptation into policies, strategies and plans;
- ✓ Identify a range of potential climate change adaptation actions that address its priorities;
- Use decision-making methods suited to climate change,
- Adopt an <u>adaptive management</u> approach that enables the capture of new knowledge and learning to inform future decisions;
- ✓ Develop <u>adaptive capacity</u>;
- ✓ Engage key decision makers and interested parties.

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Synergy between

Robustness

Flexibility



EN ISO 14090 – Implementation

- Leadership and commitment
- Top management shall demonstrate leadership of, commitment to and accountability for implementation
- Implementation plan





EN ISO 14090 – Monitoring and Evaluation



Flexibility

- Monitoring and evaluation plan
 - Assessment of progress against the implementation plan
 - Actions:
 - ✓ Document the results of monitoring and evaluation
 - ✓ Determine whether the plans are still valid;
 - ✓ Update policies, strategies and plans using the outcomes of the evaluation;
 - ✓ Determine the periodicity of monitoring and evaluation



EN ISO 14090 – Reporting and communication



Transparency

- Communication to external interested parties
 - Climate change adaptation report





Draft international standards dealing with climate change adaptation



Other international adaptation standards in the pipeline:

- ISO 14091
 - Adaptation to climate change -
 - Vulnerability, impacts and risk assessment
- ISO/TS 14092
 - Adaptation to climate change Requirements and guidance on adaptation planning for local governments and communities
- ISO 14097
 - Framework including principles and requirements for assessing and reporting investments and financing activities regarding climate change





EN ISO 14090 – Key learning points

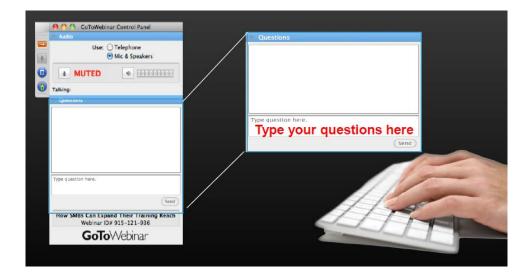


- > The choices and implementation of adaptation options help organisations to mitigate climate risks
- Who can use EN ISO 14090?
 - ANY organization
- > What will it help organisations to do?
 - Identify, prepare for, and manage, the impacts of climate change : opportunities & harmful impacts
 - Demonstrate good practice to investors and customers
- What are the main steps?
 - Pre-planning ; Assessing climate change impacts including opportunities ; Adaptation planning ; Implementation ; Monitoring and evaluation ; Reporting and communication
- What are the main deliverables?
 - Adaptation plan; including an implementation plan, a monitoring and evaluation plan, arrangements for reporting and communication
 - Climate change adaptation embedded into the organisation's policies, strategies and plans





Use the Q&A panel to submit your questions







Next webinars:

2019-11-25: <u>Revised CEN-CENELEC Guide 8 "Standard essential patents" (SEPs)</u> 2019-12-10: <u>10-10 webinar: EU elections - the impact for CEN & CENELEC</u>

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