



European Standardization Organizations

# Webinar 'Climate Resilience in Standardization: Applying CEN-CENELEC Guide 32'

We start at  
10:00 CET

# Your webinar moderator



**Els Somers**

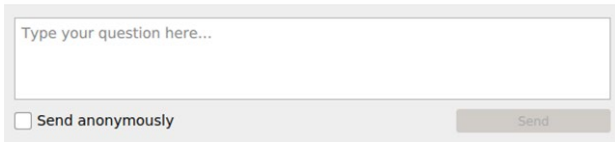
Project Manager

Public Relations

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# Today's Agenda

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- Welcome and webinar arrangements
- What is a CEN-CENELEC Guide? — Joanna Frankowska
- Adaptation to climate change and standards — Daniele Pernigotti
- Why now? A European Commission perspective — Andras Toth
- How Guide 32:2026 developed and how to apply it — Doogie Black
- How the Guide has been used and support available — John Dora
- Slido questions, discussion and next steps — Els Summers



# What is a CEN-CENELEC Guide?



**Joanna Frankowska**

Account Manager Sustainable  
Systems & Consumers

CEN and CENELEC

[Jfrankowska@cencenelec.eu](mailto:Jfrankowska@cencenelec.eu)

# What is a CEN or CENELEC Guide

## Formal deliverable

Guide is an informative document made available by CEN and/or CENELEC in at least one official language and established and approved by a corporate body by simple majority vote.

Formal CEN/CENELEC publication.

Defined in CEN and CENELEC Internal Regulations Part 2, clause 11.5

## What a Guide can do

- Provide technical or administrative orientation
- Give advice on how to deal with standardization matters
- Collect corporate-body decisions on general questions for consistent future treatment
- Provide information or guidance on conformity assessment

- ▶ CEN Guides
- ▶ CENELEC Guides e.g:
  - ▶ CENELEC Guide 32 'Guidelines for Safety Related Risk Assessment and Risk Reduction for Low Voltage Equipment'
- ▶ CEN and CENELEC Guides incl.:
  - ▶ **CEN and CENELEC Guide 32 'Guide for addressing climate change adaptation in standards' (2026)**

|                                                                                                                                           |   |
|-------------------------------------------------------------------------------------------------------------------------------------------|---|
| CEN-CENELEC Guide 29                                                                                                                      | - |
| CEN and/or CENELEC Workshop Agreements - A rapid way to standardization (2024)                                                            |   |
| CEN-CENELEC Guide 30                                                                                                                      | - |
| European Guide on Standards and Regulation - Better regulation through the use of voluntary standards - Guidance for policy makers (2015) |   |
| CEN-CENELEC Guide 31                                                                                                                      | - |
| Competition law for participants in CEN-CENELEC activities (2015)                                                                         |   |
| CEN-CENELEC Guide 32                                                                                                                      | - |
| Guide for addressing climate change adaptation in standards (2026)                                                                        |   |
| CEN-CENELEC Guide 33                                                                                                                      | - |

# Standardization Request M/617 on Climate Change

# Standardization Request M/617



- ▶ As regards mainstreaming of climate adaptation in European standards in support of Commission Regulation (EU) 2021/1119 (European Climate Law).
- ▶ Adaptation to climate change: addresses standards for infrastructure with a lifespan of more than 30 years to withstand (extreme) future climate events
- ▶ Follow-up of M/526 'Climate change'
- ▶ acceptance by CEN and CENELEC: 2025-11-25

## ► Requests:

- 1) developing 2 new standardization deliverables on climate services → allocated to CEN/TC 467 'Climate change';
- 2) review 25 existing CEN or CENELEC standards to identify if future climatic conditions are considered;

► If missing requirements are identified, the standard shall be revised in a second step

# Standardization Request M/617

**Table 2: List of existing European standards and European standardisation deliverables to be reviewed and deadlines for the adoption of the review reports as referred to in Article 1**

|   | Reference information                                                                                                                                                                     | Group | Deadline for the adoption by the European Standardisation Organisations |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------|
| 1 | EN 50708-1-1:2020 Power transformers - Additional European requirements: Part 1-1: Common part - General requirements                                                                     | 1     | 15 October 2027                                                         |
| 2 | EN 60076-1:2011 Power transformers - Part 1: General                                                                                                                                      | 1     | 15 October 2027                                                         |
| 3 | EN 12473 General principles of cathodic protection in seawater                                                                                                                            | 2     | 15 October 2027                                                         |
| 4 | EN 12954:2019 General principles of cathodic protection of buried or immersed onshore metallic structures                                                                                 | 2     | 15 October 2027                                                         |
| 5 | EN ISO 16647:2021 Nuclear facilities - Criteria for design and operation of confinement systems for nuclear worksite and for nuclear installations under decommissioning (ISO 16647:2018) | 3     | 15 October 2027                                                         |
| 6 | EN IEC 63046:2021 Nuclear power plants - Electrical power system - General requirements                                                                                                   | 3     | 15 October 2027                                                         |
| 7 | EN 50214:2006 Flat polyvinyl chloride sheathed flexible cables                                                                                                                            | 4     | 15 October 2027                                                         |
| 8 | EN 50397-3:2022 Covered conductors for                                                                                                                                                    | 4     | 15 October 2027                                                         |

# Adaptation to climate change – why now?



**Andras Toth,**  
**Policy Officer at the European  
Commission's Directorate-General for  
Climate Action (DG CLIMA)**



# European Integrated Framework for Climate Resilience

How Standardization can support European Legislation – CEN-CENELEC Webinar

11 September 2026

Andras Toth, Adaptation Unit, DG CLIMA

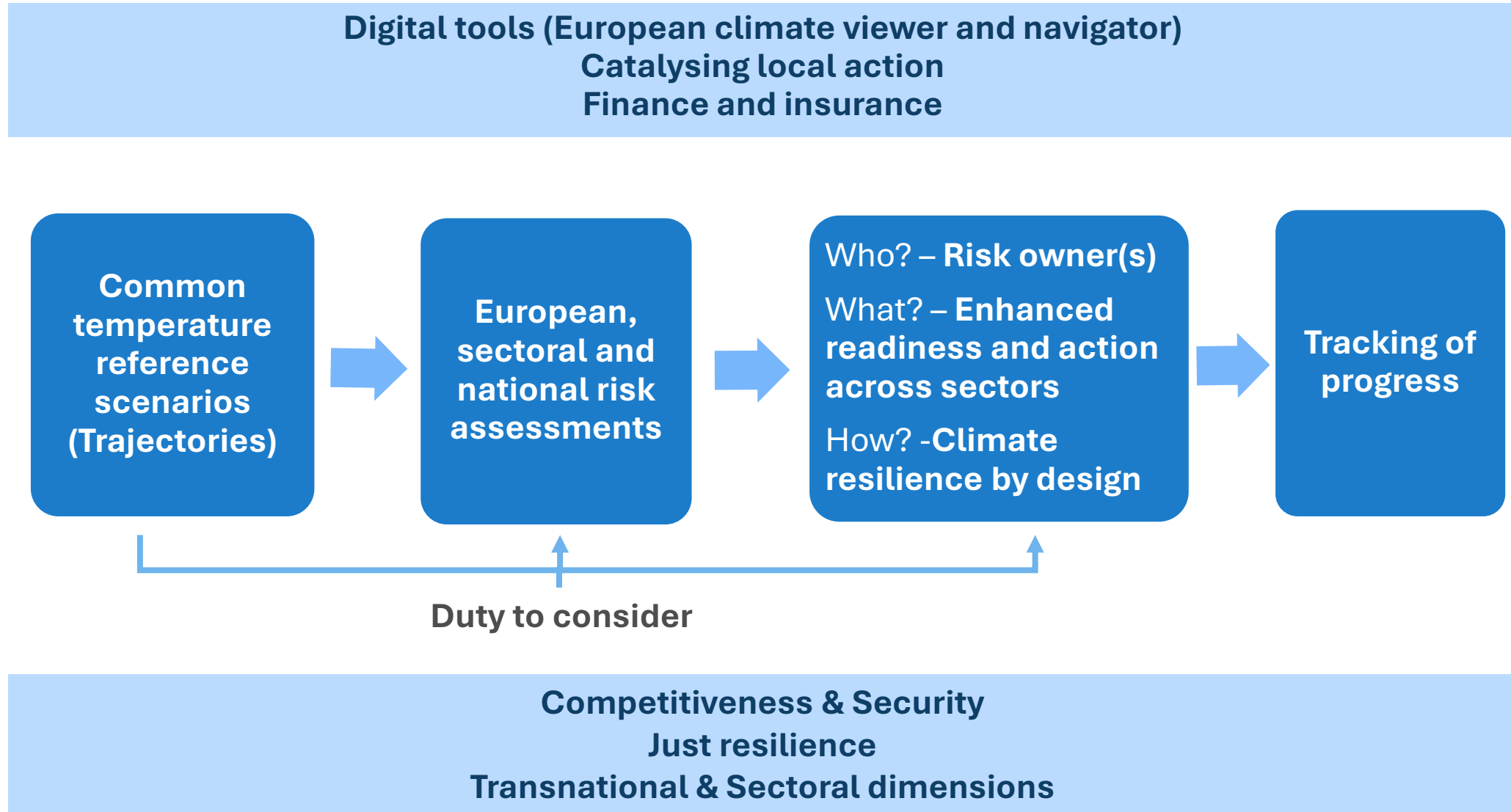


# Integrated Framework for Climate Resilience (Q4 2026)

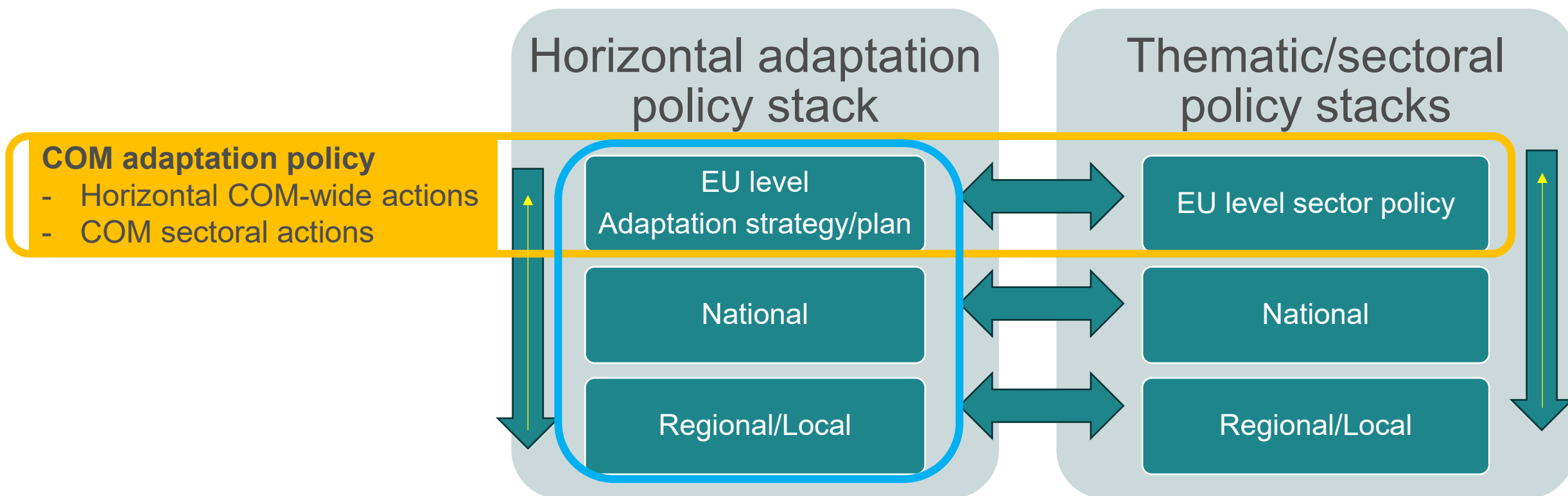
- Announced as 'European Climate Adaptation Plan' in the Political Guidelines 2024-2029
- Key element of a broader policy agenda
- Reflected in mission letters of several Commissioners
- Developed as all-of-Commission initiative
- Will work with other EU flagship initiatives



# Envisaged key elements



# Building climate resilience into policy and action



# Policy package under consideration

## Main

- **Communication**
- **Legislative proposal**
- **Document (tbc)**  
on the application of climate resilience by design within the Commission

## Others

- **Impact Assessment**  
with summaries of stakeholder consultations
- **Digital European Climate Viewer**



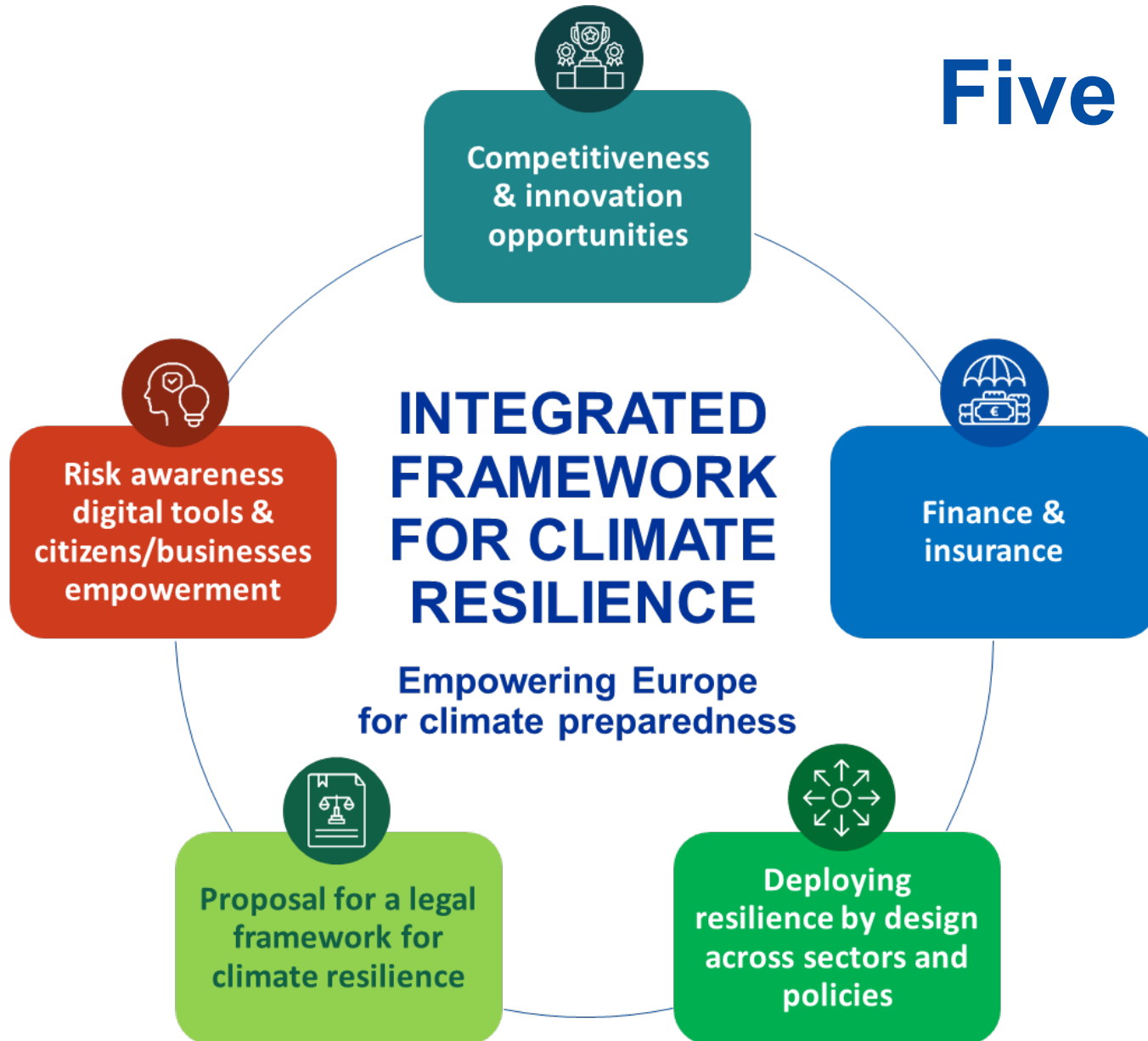
**Expected delivery date:  
4th quarter 2026**

# Milestones for developing the policy package

|                      |                                                                         |
|----------------------|-------------------------------------------------------------------------|
| <b>04/09/25</b>      | <b>'Call for evidence' closed</b>                                       |
| <b>09/25</b>         | <b>Launch of the Impact Assessment process</b>                          |
| <b>12/25 - 02/26</b> | <b>Open public consultation (open 12 weeks)</b>                         |
| <b>Q4 2026</b>       | <b>Adoption of the package and publication of the Impact Assessment</b> |

**Commission: Inter-Service Coordination Group established (ISCG): 30+ services**

# Five key components



# Elements under consideration



- **Guiding principles**  
(Proportionality, subsidiarity, EU value added, coherence with existing EU law, joined up efforts, avoiding unnecessary red tape...)
- **General elements**  
(definitions, objectives, targets, indicators...)
- **Important concepts**  
(mainstreaming, resilience by design, common climate/temperature reference scenarios, risk ownership...)
- **Risk assessments**  
(European climate risk assessments (EUCRA), national and sectoral climate risk assessments...)
- **Climate resilience/adaptation governance at EU and national levels**  
(including transboundary considerations)
- **Monitoring, reporting, evaluation and learning**

# Adaptation to climate change and standardisation



**Daniele Pernigotti,**  
**Chair of CEN/TC 467 “Climate Change”**

**Established** in 2020

**Scope:** standardization in the field of **mitigation** and **adaptation** to climate change, including related social and economic aspects.

Act as interface with the **ISO/TC 207/SC 7**  
“Greenhouse gas and climate change  
management and related activities”

Organized in two working groups:

**WG1:** mitigation

**Convenor:** Romain Poivet

**WG2:** adaptation

**Convenor:** Jeroen Oomkens

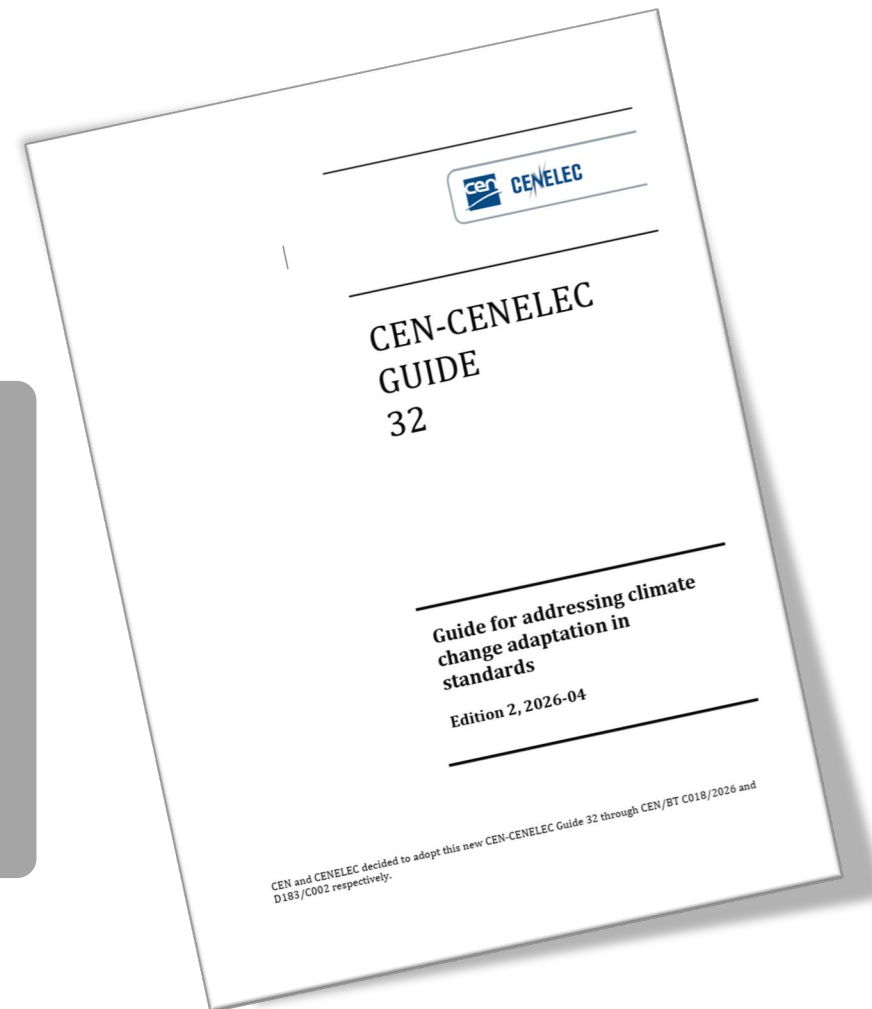
# CEN-CENELEC Guide 32 Explained



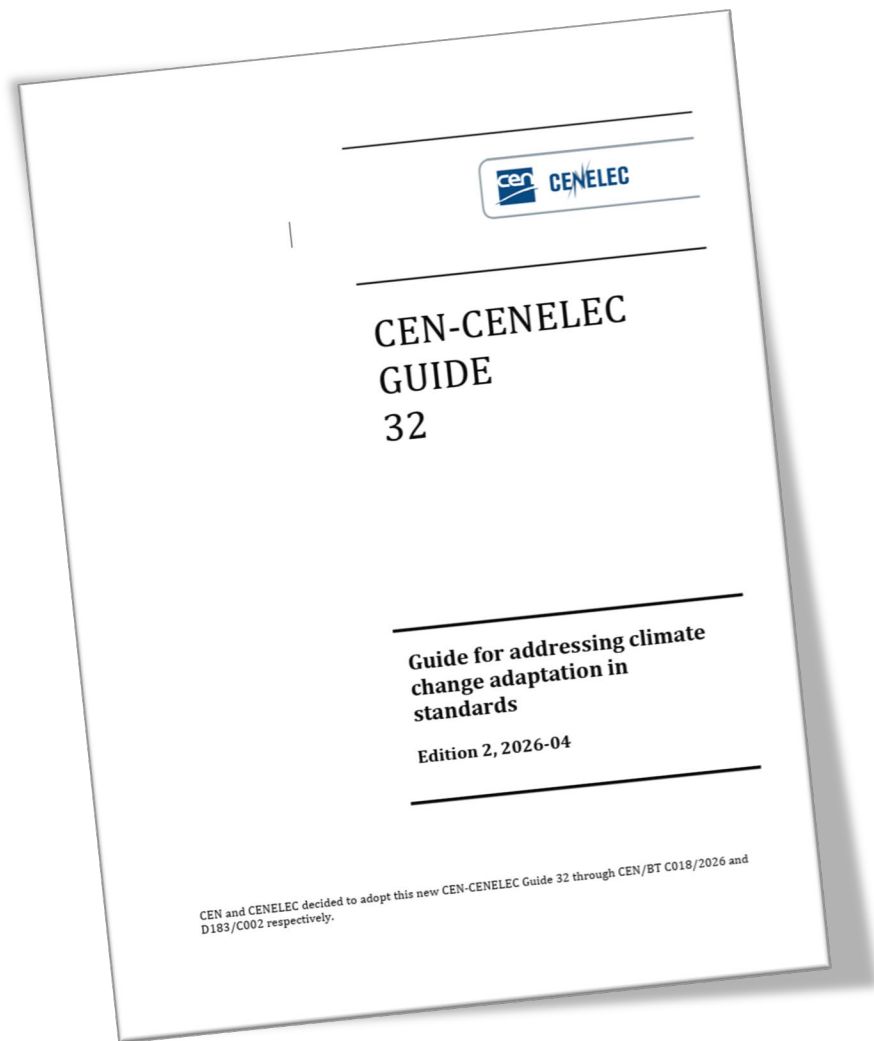
**Doogie Black,**  
**CEO, Climate Sense**  
**[doogie.black@climatesense.global](mailto:doogie.black@climatesense.global)**

# How Guide 32 developed

From infrastructure guidance  
to one practical Guide:



# How Guide 32 developed



► The 2026 Guide brings earlier learning together in one clearer, more practical resource for Technical Committees and Working Groups.

# What does Guide 32 help a committee do?

## Guide 32 helps Technical Committees and Working Groups to:



Decide whether climate adaptation is relevant to a standard



Identify where climate and weather may affect its performance over time



Use appropriate climate information when it is needed



Build adaptation into new or revised standards



Keep decisions under review as information and conditions change

# Look across the whole life cycle

► Climate-related risks can arise at any point in the life cycle.



## **Inputs and supply chains**

Materials, water, energy, logistics and suppliers



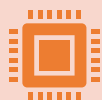
## **Design, manufacture and installation**

Climate assumptions, test conditions and construction or delivery conditions



## **Operation and maintenance**

Performance, safety, reliability, service continuity and recovery



## **Upgrading and end of life**

Adaptability, repair, replacement, reuse, disposal and future decisions



# Different standards, same starting point



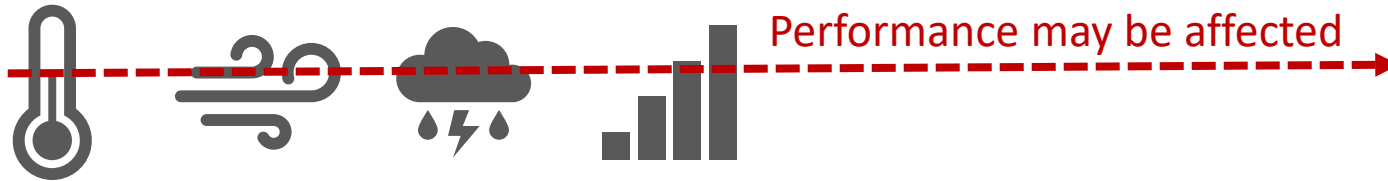
**Start with the same question:**

*"Could a changing climate affect whether this standard remains fit for purpose?"*

| Infrastructure                        | Products                               | Services                                |
|---------------------------------------|----------------------------------------|-----------------------------------------|
| Long life and interdependencies       | Materials, testing and durability      | Continuity, people and recovery         |
| Future climate over the working life  | Future operating conditions            | Disruption and dependencies             |
| Ability to maintain, upgrade or adapt | Performance limits and user conditions | Ability to maintain essential functions |

# What is a threshold?

- ❑ A threshold is the point at which conditions begin to affect performance.
- ❑ A threshold may be defined in the standard—or it may need local interpretation by the standard user.



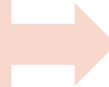
## Examples:

- Excessive heat affects a material, product or working environment
- Heavy rainfall exceeds drainage or water-management capacity
- High winds affect structural performance or safe operation
- Service disruption affects continuity of an essential function

## Are the data and assumptions in the standard still relevant?



Historic data



### Fit-for-purpose standard

Use the timeframe that matches what the standard covers.

What conditions were used to set requirements, tests or parameters?



Current Conditions



Do recent observations still support those assumptions?



Future range



Could relevant conditions exceed a threshold during the expected lifespan?

# The four practical steps

A practical, documented process for Technical Committees and Working Groups

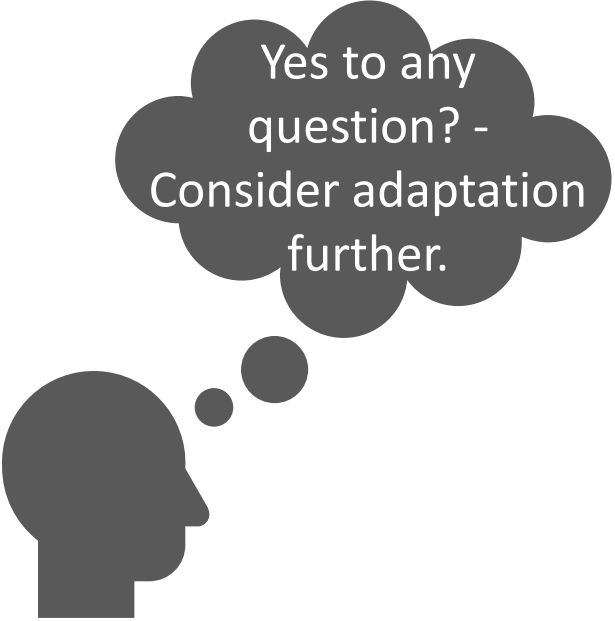


# The four practical steps

## 1. Screen

### Ask four main questions:

1. Does the standard include weather or climate-related parameters, conditions or thresholds?
2. Could climate change affect performance, safety, functionality or service continuity?
3. Could climate change disrupt inputs, suppliers, transport or other dependencies?
4. Could a change to the standard reduce an identified vulnerability?



Yes to any question? -  
Consider adaptation further.

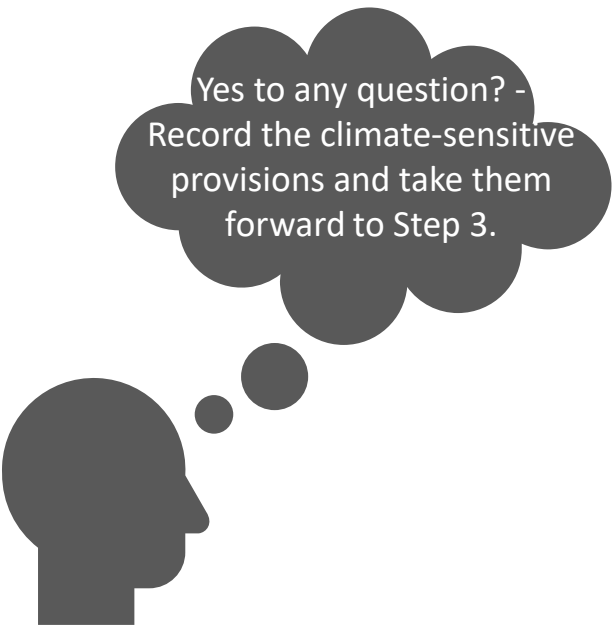
Record the outcome, sources consulted and rationale.

# The four practical steps

## 2. Diagnose

### Ask four main questions:

1. Have climate-sensitive requirements, test conditions, reference data or assumptions been identified?
2. Has a performance, safety or functionality threshold been identified for each relevant provision?
3. Have relevant future climate conditions, including potential combined hazards, been considered?
4. Have the findings and evidence been recorded for the next revision cycle?



Yes to any question? -  
Record the climate-sensitive  
provisions and take them  
forward to Step 3.

Record the outcome, sources consulted and rationale.

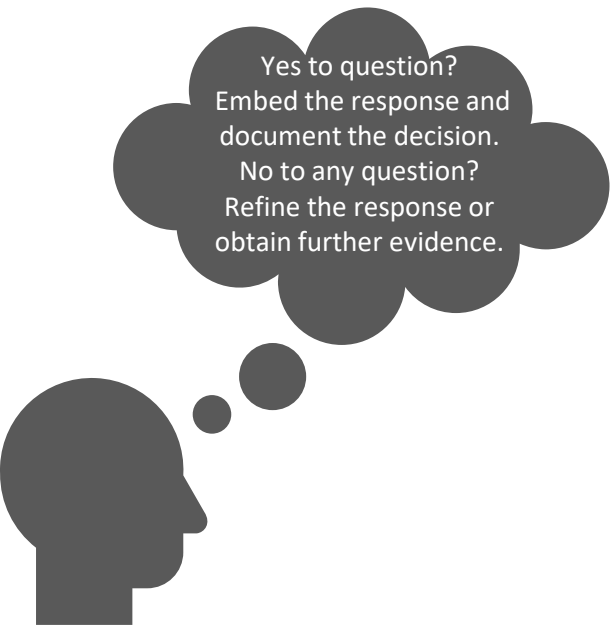
# The four practical steps

## 3. Embed

### Ask four main questions:

1. Has the committee identified a proportionate adaptation response?
2. Is that response based on suitable climate information and technical evidence?
3. Does the response provide for local interpretation where a single European value would not be appropriate?
4. Does the response avoid locking out future adaptation, upgrading or flexibility where this is practical?

Record the outcome, sources consulted and rationale.



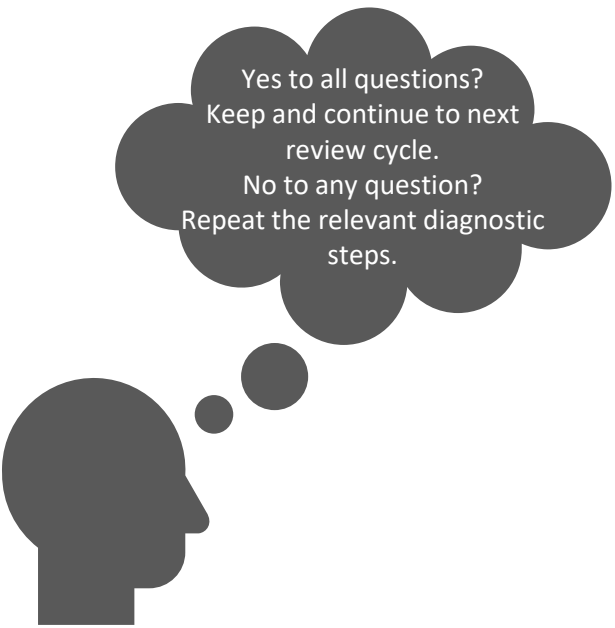
Yes to question?  
Embed the response and  
document the decision.  
No to any question?  
Refine the response or  
obtain further evidence.

# The four practical steps

## 4. Review

### Ask four main questions:

1. Has the climate-resilience decision been reviewed at this systematic review or revision?
2. Is there new climate information, evidence, technology or delivery experience to consider?
3. Do any recorded assumptions, thresholds or adaptation responses need to be updated?
4. Have the review outcome, evidence and rationale been documented for the next revision cycle?



Yes to all questions?  
Keep and continue to next  
review cycle.  
No to any question?  
Repeat the relevant diagnostic  
steps.

Record the outcome, sources consulted and rationale.

# How could a standard respond?



**Update** parameters, assumptions or reference data.



**Guide** users on local interpretation.



**Enable** adaptation, upgrading or redundancy.



**Set** a trigger for future review.



**Record** why no change is needed, where appropriate.

# CEN-CENELEC Guide 32 Explained



**John Dora**

**Director, Climate Sense**

**[john.dora@climatesense.global](mailto:john.dora@climatesense.global)**

# Early experience

What the review adds beyond the information

## 1 Issue identified



Climate sensitivity can sit inside ordinary technical provisions.

- Operating ranges and environmental limits
- Test conditions, assumptions and reference data
- Durability, access, continuity and dependencies

Source Standard

Practical lesson: clause

### Climate Resilience Review of BS EN 60702-3:2016 Mineral Insulated Cables and their Terminations with a Rated Voltage not Exceeding 750 V – Part 3: Guidance for Use

Prepared for: CLC/TC 20 Electric Cables

Author: John Dora  
Date: 9 June 2026

#### Introduction

BS EN 60702-3:2016 provides guidance for the safe selection, installation, operation, inspection, storage, transportation and maintenance of mineral insulated cables and their terminations with rated voltages not exceeding 750 V.

The standard contains numerous climate-sensitive provisions including temperature limits, ambient environmental conditions, water exposure, humidity, solar radiation, corrosion, direct burial, fire performance and installation constraints.

These parameters directly influence cable safety, reliability and service life and therefore require assessment under CEN-CENELEC Guide 32.

The standard is particularly relevant because mineral insulated cables are often installed in critical infrastructure and safety-related applications with long operational lifetimes. The review identifies whether current climatic assumptions remain appropriate under changing future climate conditions.

#### Guide 32 Checklist Table

| Yes | No | Question                                                                                                                                              |
|-----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| ✓   |    | Is the standardization deliverable dependent on climatic conditions and/or vulnerable to risks from extreme weather or impacts in a changing climate? |
| ✓   |    | Does the standardization deliverable address supply chain vulnerability to extreme weather or impacts in a changing climate?                          |
| ✓   |    | Can changes (additions/modifications) to the standardization deliverable reduce the identified vulnerabilities?                                       |

#### Methodology

The review was undertaken in accordance with CEN-CENELEC Guide 32:2026. The complete standard was assessed including Scope, Safety provisions, Limiting Conditions, Installation requirements, Initial and Periodic Verification requirements, Packaging, Storage and Handling provisions, Tables 1 and 2, and referenced environmental influences. Climate-sensitive terminology, environmental assumptions, climatic thresholds, operational limitations, lifecycle stages and supply-chain dependencies were evaluated.

Particular attention was given to temperature limits, ambient environmental conditions, rain, water accumulation, humidity, solar radiation, corrosion, thermal effects, direct burial, moisture ingress, transportation, storage and inspection provisions. Future climate

## Transferable learning

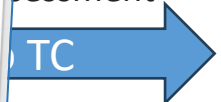


Keep the work standards-focused and proportionate.

Focus on provisions that affect less for purpose

Give the TC/WG clause-specific provisions

Avoid a generic sector climate-risk assessment



al standards work.

n: Applying

# What the TC or WG receives

Evidence and recommendations structured for use in normal standards revision work

1

## Concise Guide 32 review

Screening outcome, climate-sensitive provisions, lifecycle and supply-chain considerations, future conditions and priorities.

2

## Clause-level action map

Climate hazard or assumption → affected provision → implication → recommendation → Guide 32 reference.

3

## Prioritised committee options

Retain the provision, update it, add guidance, enable adaptation, amend a reference or set a future review trigger.

## A clear committee decision

No significant  
climate  
adaptation  
issues identified

Further action  
recommended

Where action is needed,  
recommendations are prioritised and  
linked to the relevant clause(s).

**A manageable starting point: choose one live standard or one forthcoming systematic review and screen it.**

# Question time

**Joining as a participant?**

# CENCLCGuide32



By using Slido you accept the [Acceptable Use Policy](#).

► Scan the QR code



# Where are you now?

## How far have you considered climate adaptation?



### Answer options:

Not started

Early discussion

Reviewing standards

Routine application

Not sure

# What support would help?

## What support would help your Committee to use Guide 32?



**Instruction: Select up to two options.**

**Answer options:**

|                    |               |
|--------------------|---------------|
| Awareness briefing | Peer Exchange |
| Training           | Other         |
| Worked examples    |               |
| Evidence and data  |               |
| Facilitation       |               |

## Who is best placed to initiate and drive the use of Guide 32?



### Answer options:

|                         |          |
|-------------------------|----------|
| Chair                   | Convenor |
| Secretary               | Other    |
| Technical expert        |          |
| National Standards Body |          |
|                         |          |
|                         |          |

# Who should lead?

**What could prevent your committee from starting?**

**Does your committee have the necessary climate adaptation expertise?**



**Answer  
options:**

Submit answers through the chat or Slido comments box.

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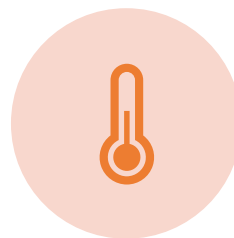
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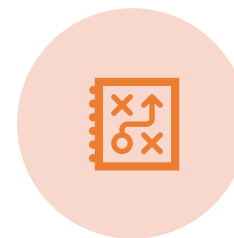
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# Main Take Aways



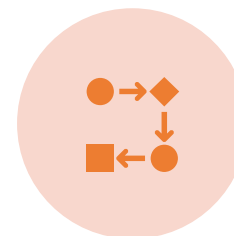
CLIMATE ADAPTATION  
MATTERS WHERE CLIMATE  
AFFECTS A STANDARD'S  
OUTCOMES.



GUIDE 32 PROVIDES A  
PRACTICAL, STRUCTURED  
ROUTE FROM QUESTION TO  
ACTION.



START WITH SCREENING  
AND FOCUS EFFORT  
PROPORTIONATELY.



RECORD DECISIONS AND  
REVISIT THEM OVER TIME.

# Next Steps for You



Access **CEN-CENELEC Guide 32:2026**



Discuss relevance within your TC or WG.



Select a deliverable or revision cycle for an initial screen.



Further information and support:

[john.dora@climatesense.global](mailto:john.dora@climatesense.global) and [doogie.black@climatesense.global](mailto:doogie.black@climatesense.global)

# Your feedback



# Question tome

Use the Q&A panel to submit your questions

Question and Answer

You 04:36 PM

When is the next session?

Type your question here...

☐ Send anonymously

Send



European Standardization Organizations

# Thank you for your participation!

Upcoming events/webinars:

2026-09-14 - Webinar ['Harmonized standards in support of the Machinery Regulation: Update of gap-analysis and new Annex ZA/ZZ'](#)

2026-10-01 - Webinar ['The EN Development Process - First batch of changes'](#)

2026-10-06 - Webinar ['Towards a New European Anthropometric Database for User-Driven and Inclusive Standards'](#)