# CEN-CENELEC Workshop ‘New recommendations for monitoring and follow-up of energy efficiency measures implementation’

## Workshop description form

- PART A – Workshop Summary
- PART B – Project Plan

## PART A – Workshop SUMMARY

| 1 | WS details | | |
|---|---|---|---|
| 1.1. | **Organization** | ☐ CEN<br>☐ CENELEC<br>☒ Joint with ☒ CEN lead ☐ CENELEC lead | |
| 1.2. | **Title** | CEN/CLC WS "New recommendations for monitoring and follow-up of energy efficiency measures implementation"<br><br>(select CEN or CLC or leave CEN/CLC in case of joint WS) | |
| 1.3. | **Scope** | Establishing guidelines and best practices for the implementation of energy efficiency measures in energy-intensive industries, based on the results obtained from energy audits. To provide a best-practice framework that enables organizations to implement energy improvements in a systematic and efficient manner, in alignment with the applicable energy efficiency regulations. Applicable to industries across any sector, and in particular to energy-intensive industries that carry out energy audits in accordance with national or European standards. | |
| 1.4. | **Does this WS stem from an EU Research project?** | ☒ YES<br>Name of the project: Enhancing energy audit schemes in energy intensive industries with practical approaches (LIFE22-CET-LIFE AUDIT-PLUS)<br>Grant number: 101120511<br>☐ End date 2026-09-30<br>☐ NO | |
| 1.5. | **Financial support** | ☒ EU Research project<br>☐ EC/EFTA Grant reference: Type here<br>☐ Other Specify, if needed: Type here | |
| 1.6. | **WS Proposer** | Name:<br>Organization:<br><br><br><br>Postal address:<br>Email:<br>Phone:<br>Webpage:<br><br>Contact person (name and email): | Ana Mezquita Martí<br>Asociación de Investigación de las Industrias Cerámicas (ITC-AICE)<br><br>Campus Universitario Riu Sec, Avinguda de Vicent Sos Baynat, s/n, 12006 Castellón de la Plana, Castellón - Spain<br>ana.mezquita@itc.uji.es<br>+34 608 38 63 71<br>https://www.ierc.ie/auditplus/<br><br>Ana Mezquita Martí<br>ana.mezquita@itc.uji.es |
| | **WS Proposed Chair** | Name:<br>Organization:<br><br><br>Postal address:<br><br>Email:<br>Phone:<br>Webpage: | Ana Mezquita Martí<br>Asociación de Investigación de las Industrias Cerámicas (ITC-AICE)<br><br>Campus Universitario Riu Sec, Avinguda de Vicent Sos Baynat, s/n, 12006 Castellón de la Plana, Castellón - Spain<br>ana.mezquita@itc.uji.es<br>+34 608 38 63 71<br>https://www.itc.uji.es/<br>Ana Mezquita Martí (ana.mezquita@itc.uji.es) |

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|---|---|---|---|
| | | Contact person (name and email): | |
| 1.7. | **WS Secretariat** | Organization:<br>Postal address:<br>Email:<br>Phone:<br>Webpage:<br>WS Secretary name:<br>Email:<br>Phone: | UNE – Spanish association for standardization<br>Calle Génova 6, Madrid (Spain),28004<br>info@une.org<br>+34 915 294 900<br>www.une.org<br>Teresa Sanchez Segura<br>tsanchez@une.org<br>+34 650 251 555 |
| 1.8. | **CEN and CENELEC Management Centre (CCMC) contact** | Organization:<br>Postal address:<br>Webpage:<br>CCMC Project Manager name:<br>Email:<br>Phone: | CEN and CENELEC<br>Rue de la Science 23B - 1040 Brussels, Belgium<br>https://www.cencenelec.eu/Pages/default.aspx<br>Claire Van Thielen<br>cwa@cencenelec.eu<br>+3225500831<br>+32478793545 |
| 1.9. | **Tentative date and place of the Kick-off Meeting** | Date : 2026-04-15 | Place: Online |
| 1.10. | **Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies?[1]** | ☒<br>☐ | YES<br>Specify: CEN/CLC/JTC 14 - Energy management and energy efficiency in the framework of energy transition<br><br>NO |
| 1.11. | **Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ?[2]** | ☒<br>☐ | YES<br>Specify: ISO/TC 301Energy management and energy savings<br><br>NO |
| 1.12. | **Are the following aspects affected?** | Safety matters<br>Management system aspects<br>Conformity assessment aspects<br>Security matters | YES[3] ☐ NO ☒<br>YES[4] ☐ [7] ☒<br>YES[5] ☐ NO ☒<br>YES[6] ☐ NO ☒<br>NO [8] |
| | | Add information/explanations if Management System aspects and Conformity Assessment aspects are affected:<br>Type here | |
| **2** | **WS Deliverables** | | |
| **2.1.** | **CWA #1** | | |

[1] Part A and Part B of this form shall be sent by the WS secretary to the secretary of the Technical Bodies identified in this section to inform them about the creation of the WS and register any possible objection within 30 days (45 during the holiday period).

[2] Part A and Part B of this form should be sent by the WS secretary to the Bodies identified in this section to inform them about the creation of the WS.

[3] Work on the proposed CEN and/or CENELEC Workshop shall not be initiated.

[4] The CEN and/or CENELEC Workshop proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

[5] CEN-CENELEC Internal Regulations - Part 3, Clause 33 applies.

[6] For projects dealing with security matters the security risk analysis provided in Annex I shall be carried out.

[7] See Note 2 in CEN-CENELEC Guide 29, Clause 3.

[8] See Note 2 in CEN-CENELEC Guide 29, Clause 3.

| | | | |
|---|---|---|---|
| 2.1.1 | **Title** | ☒<br>☐ | Same as WS title (1.2)<br>Other: Type here |
| 2.1.2 | **Scope** | | The purpose of this CWA is to establish guidelines and best practices for the implementation of energy efficiency measures in energy-intensive industries based on the results obtained in energy audits. Its purpose is to provide a framework of best practices that allows organizations to implement energy improvements in a systematic, efficient manner that is aligned with current energy efficiency regulations. The CWA will be applicable to industries across any sector, and in particular to energy-intensive industries, which carry out energy audits in accordance with national or European standards. It will include reference regulations and methodologies, as well as best practices and recommendations for the implementation of energy efficiency measures and the monitoring of results. |
| 2.1.3 | **Does the proposed CWA conflict with a published EN** | ☐<br><br>☒ | YES<br>Specify: Type here<br><br>NO |

## PART B – Project Plan

# Abstract

Energy-intensive industries are essential for achieving the European Union's climate and energy objectives. Despite existing regulations, such as Directive 2023/1791 and the EU Emissions Trading System, significant gaps remain between identifying energy efficiency opportunities and implementing them effectively. Barriers include technical knowledge gaps, limited management engagement, lack of information on funding options and the absence of structured action plans.

This workshop is intended to address these challenges by developing a CEN-CENELEC Workshop Agreement (CWA) that provides guidelines and best practices for systematically implementing energy efficiency measures in energy-intensive industries. As the CWA is voluntary, does not create legally binding requirements and focuses on technical guidance for post-audit implementation. Its main benefit is to harmonize approaches and provide guidance to facilitate the implementation of energy efficiency measures across different industrial sectors.

# 1 Status of the project plan

**Draft project plan** for public commenting (Version 1.0)

This draft project plan is intended to inform the public of a new Workshop. Any interested party can take part in this Workshop and/or comment on this draft project plan by sending an email to the WS secretary.

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off meeting of the Workshop on 2026-04-15.

# 2 Workshop proposer and potential Workshop participants

This workshop is proposed by the partner "**Asociación de Investigación de las Industrias Cerámicas (ITC-AICE)**" in the framework of the EU-funded project LIFE AUDIT-PLUS. More information: https://www.ierc.ie/auditplus/

This project has received funding from the European Union's LIFE-CET environmental and climate programme under grant agreement N°101120511 Co-funded by the European Union.

## 2.1 Workshop proposer

**Proposed Chair:** Ana Mezquita Martí, Senior Researcher in the Sustainability Area - Energy Efficiency and Industrial Decarbonisation at ITC-AICE (contact details are provided in Part A of this form).

**ITC-AICE** is a private, independent, non-profit Spanish entity with more than 50 years of experience in R&D, technical consultancy and education in the field of ceramic technology, including, but not limited, to energy efficiency at high temperatures and decarbonization.

**Proposed Secretariat:** Teresa Sánchez. Project Officer at UNE (Spanish Association for Standardization).

**UNE** is a private, independent, non-profit Spanish entity which is legally recognized nationally, in the European Union and internationally as the National Standardization Body of Spain. As such, it is the national member of the European and International Standards Organizations CEN, CENELEC, ETSI, ISO, IEC and COPANT.

## 2.2 Potential participants

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of other experts would be helpful and is desired.

Participation from the following stakeholders is expected:

- LIFE AUDIT PLUS project partners
  - ASOCIACIÓN DE INVESTIGACIÓN DE LAS INDUSTRIAS CERÁMICAS (ITC-AICE)
  - UNIVERSITY COLLEGE CORK'S INTERNATIONAL ENERGY RESEARCH CENTRE (UCC-IERC)
  - ASOCIACION DE EMPRESAS DE EFICIENCIA ENERGETICA (A3E)
  - FUNDACION INSTITUTO TECNOLÓGICO DE GALICIA (ITG)
  - NARODOWA AGENCJA POSZANOWANIA ENERGII SA (NAPE)
  - LAWLER SUSTAINABILITY
- Research institutions in energy efficiency
- Energy-intensive industries (especially ceramics, pharmaceutical, and food processing industries)
- Policymakers focused on sustainability and energy efficiency
- Standardization bodies
- Expert consultants in energy efficiency
- Etc.

# 3 Workshop objectives and scope

## 3.1 Workshop background

**Motivation for the creation of the workshop**

Energy-intensive industries play an important role in achieving the European Union's climate and energy objectives. Despite the existence of solid regulatory frameworks such as the Directive 2023/1791, which establishes the obligation to carry out energy audits or to implement an Energy Management System depending on energy consumption, a significant gap remains between the identification of energy efficiency opportunities and their effective implementation in industrial processes. This gap is caused, among other factors, by the lack of information on possible funding options, technical knowledge gaps, insufficient management engagement, or the absence of a structured action plan.

This workshop is initiated with the objective of addressing these limitations through the development of a reference document compiling guidelines and good practices for the systematic implementation of energy efficiency measures in energy-intensive industries. The workshop aims to respond to the need to harmonize

criteria and support industrial organizations in technical and strategic decision making, thereby contributing to the reduction of energy consumption, associated emissions and dependency on fossil fuels.

The future added value of the CEN-CENELEC Workshop agreement (CWA) lies in providing a common, flexible and voluntary framework that facilitates the implementation of energy efficiency measures aligned with the European objectives for energy transition and climate neutrality. The CWA is not intended to establish mandatory requirements, replacing existing legislation, certification schemes or applicable technical standards.

**Market environment**

A variety of standards, guidelines and tools related to energy management and energy efficiency already exist on the market, such as EN ISO 50001- Energy management systems, EN 16247- Energy audits, as well as sector-specific technical documents and guidelines. However, these instruments mainly focus on management system requirements or audit methodologies and do not specifically and practically address the implementation phase of the identified measures.

The proposed CWA differs from existing solutions by explicitly focusing on the post-audit phase, providing technical recommendations, examples of best practices and guidance for the planning, implementation and monitoring of energy efficiency measures in energy-intensive industries. In this way, it complements existing standards without overlapping with them and responds to a clearly identified need within the industrial sector.

**Origin of the workshop and funding**

The workshop stems from a European project funded under the LIFE programme of the European Union, entitled “Enhancing energy audit schemes in energy intensive industries with practical approaches” (LIFE22-CET-LIFE AUDIT-PLUS, GA Nº 101120511).

The development of this CEN-CENELEC Workshop Agreement (CWA) is supported by the outcomes and activities carried out within the framework of the LIFE AUDIT PLUS project, which aims to enhance the audit schemes in Energy Intensive Industries with practical approaches. However, the content of the CWA will reflect the consensus of the participating stakeholders and does not represent an official position of the European Commission or the LIFE Programme.

**Legal and regulatory environment**

The CWA is developed in coherence with the current European legislative framework on energy efficiency, including, among others:

- Directive (EU) 2023/1791 on energy efficiency (recast of Directive 2012/27/EU)
- Directive (EU) 2003/87 Emissions Trading System (EU ETS)
- Royal Decree 203/2024 which establishes the national framework in Spain for the free allocation of greenhouse emission allowances to installations under the EU Emissions Trading system.

The document does not introduce new legal requirements nor provide binding interpretations of existing legislation but rather serves as technical support document to provide guidance and facilitate practical implementation within the industrial sector.

**Existing standards, protocols and standardization activities**

The workshop takes into account existing European and international standards, guidelines and protocols related to energy efficiency and energy management, in particular:

- EN 16247 (series)- Energy audits requirements, methodology and expected results
- EN ISO 50001- Energy Management systems
- ISO 50002- Requirements and guidelines for carrying out energy audits
- ISO 50006 and ISO 50015- Energy performance indicators and measurement.
- ASHRAE Guideline 14 – Measurement of Energy, Demand, and Water Savings
- International Performance Measurement and Verification Protocol (IPMVP)

The development of the CWA is not expected to require the creation of new normative requirements nor to interfere with the work of existing CEN or CENELEC technical committees. However, the need for establishing liaisons with relevant Technical Committees, industrial associations and other stakeholders will be considered in order to ensure technical coherence, avoid duplication of work and maximize the impact and acceptance of the document.

# 4 Workshop programme

## 4.1 General

The kick-off meeting is planned to take place on 2026-04-15, online as virtual meeting. A draft for public commenting will be published for 30 days.

After the kick-off meeting, the necessary number of Workshop meetings (kick-off meeting and Workshop meetings) and web conferences will be held, during which the content of the CWA will be discussed, agreed and approved. The number of agreed meetings will be arranged as needed in the drafting and agreement process. Online work will be preferred to improve the sustainability of this work.

The working language (language of meetings, minutes, etc.) of the WS will be English. The CWA will be written in English.

## 4.2 Workshop schedule

A tentative timeline is described in the Figure below.

**Table 1: Workshop schedule (preliminary)**

| CEN/CENELEC Workshop | Jan26 | Feb26 | Mar26 | Apr26 | May26 | Jun26 | Jul26 | Ago26 | Sep26 |
|---|---|---|---|---|---|---|---|---|---|
| **Initiation** | | | | | | | | | |
| 1. Workshop description form submission and TC response | | | | | | | | | |
| 2. Open commenting period on draft project plan (mandatory) | | | | | | | | | |
| **Operation** | | | | | | | | | |
| 3. Kick-off meeting | | | | | | | | | |
| 4. CWA(s) development | | | | | | | | | |
| 5. Open commenting period on draft CWA(s) (optional) | | | | | | | | | |
| 6. CWA(s) finalized and approved by Workshop participants | | | | | | | | | |
| **Publication** | | | | | | | | | |
| 7. CWA(s) publication | | | | | | | | | |
| **Dissemination** | | | | | | | | | |
| **Milestones** | | | | K V | V | V/A | V | P D | |

Legend

**K** Kick-off

**M** Workshop meeting

**V** Virtual Workshop meeting

**A** Adoption of CWA

**P** Publication of CWA

**D** Online distribution of CWA

# 5 Resource planning

Registration and participation at this CEN-CENELEC Workshop are free of charge, but each participant shall bear his/her own costs for travel, accommodation, and subsistence in the case of on-site meetings (at the moment of writing this document all meetings are planned to take place on-line).

The administrative costs of the CEN-CENELEC Workshop Secretariat will be financed within the framework of the EU funded research project: LIFE AUDIT-PLUS (grant agreement No. 101120511).

The copyright of the CWAs shall be with CEN. 8% secretariat costs will be provided by UNE to CCMC to cover the free download of the published CWA.

# 6 Workshop structure and rules of cooperation

## 6.1 Participation in the Workshop

The Workshop will be constituted during the kick-off meeting. By approving this project plan, the interested parties declare their willingness to participate in the Workshop and will be formally named as Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the Workshop.

As a rule, the request to participate in the Workshop is closed once it is constituted. The current Workshop participants shall decide whether any additional members will be accepted or not.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time. It is particularly important to consider these aspects:

a. expansion would be conducive to shortening the duration of the Workshop or to avoiding or averting an impending delay in the planned duration of the Workshop;
b. the expansion would not result in the Workshop taking longer to complete;
c. the new Workshop participant would not address any new or complementary issues beyond the scope defined and approved in the project plan;
d. the new Workshop participant would bring complementary expertise into the Workshop in order to incorporate the latest scientific findings and state-of-the-art knowledge;
e. the new Workshop participant would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
f. the new Workshop participant would ensure wider application of the CWA.

All Workshop participants who approved the publication of the CWA or its draft will be named as authors in the European Foreword, including the organizations which they represent. All Workshop participants who did not approve the publication of the CWA will not be named in the European Foreword.

## 6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and consensus building. The Workshop Chair is supported by the Workshop Vice-Chair (if any) and the responsible Workshop secretariat, whereby the Workshop

secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer be able to carry out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings
- Ensures that the development of the CWA respects the principles and content of the adopted project plan
- Manages the consensus building process, assesses when the Workshop participants have reached agreement on the final CWA, on the basis of the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by a CEN and/or CENELEC Member, is responsible for organizing and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organized by the Workshop secretariat in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organizations and individuals
- Offers infrastructure and manages documents and their distribution through an electronic platform
- Prepares agenda and distributes information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manages CWA approval process upon decision by the Workshop Chair
- Interfaces with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and brings any major problems encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

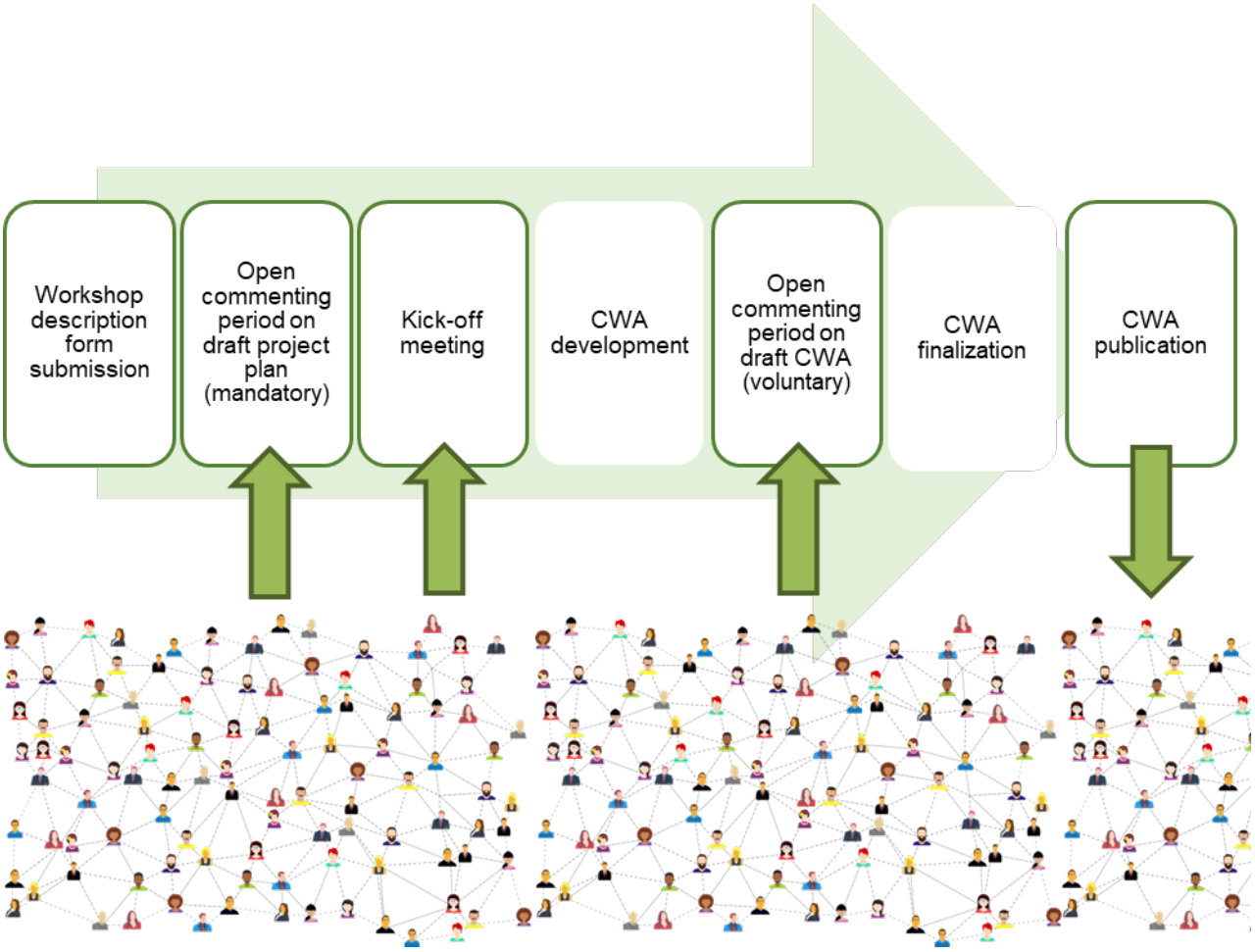
## 6.3 Decision making process

The CEN and/or CENELEC Workshop Chair is responsible for ensuring that the development of the CWA follows the principles and content of the project plan described in this document and the requirements of CEN-CENELEC Guide 29. The CEN and/or CENELEC Workshop Chair may take decisions on the conduct of the CEN and/or CENELEC Workshop on the basis of the comments expressed by the participants and of CEN-CENELEC Guide 29.

Decisions shall be taken based on consensus of the WS participants.

# 7 Dissemination and participation strategy

Potential participants identified in section 2.2 and potential interested stakeholders identified in Part A should be informed of the open commenting phase, if any, and of the publication of the CWA.




In addition to the CCMC website, the final CWA might be advertised on:

- sector specific newsletter
- social media, such as
  - Facebook
  - Instagram
  - LinkedIn
  - X
- Research Gate
- EC Newsroom
- Others
- Zenodo