CEN and/or CLC Workshop 'Guidance for refuelling and bunkering of ammonia fuelled maritime and inland waterway vessels'

Workshop description form

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

PART A – Workshop SUMMARY

1	WS details		
1.1.	**Organization**	☒ CEN ☐ CENELEC ☐ Joint with NEN ☐ CEN lead ☐ CENELEC lead	
1.2.	**Title**	CEN WS "Guidance for refuelling and bunkering of ammonia fuelled maritime and inland waterway vessels" (select CEN or CLC or leave CEN/CLC in case of joint WS)	
1.3.	**Scope**	Guidance for ammonia refuelling points and bunkering of ammonia for ammonia-fuelled maritime and inland waterway vessels, including: – technical aspects for hardware and transfer systems – operational procedures – requirements for documentation (e.g. bunker delivery note) – training and qualification of personnel involved Excluded from the scope of this Workshop are: – vessel design and construction requirements; – fuel quality specifications for ammonia; – requirements related to the production, transport and storage of ammonia beyond the refuelling point; – regulatory requirements established by national, European or international legislation.	
1.4.	**Does this WS stem from an EU Research project?**	☐ YES Name of the project: Type here Grant number: Type here End date Type here ☒ NO	
1.5.	**Financial support**	☐ EU Research project ☒ EC/EFTA Grants reference: MOVE/B4/2021-696 & SA/CEN/EFTA/2022-09 ☐ Other Specify, if needed: Type here	
1.6.	**WS Proposer/~~Proposed Chair~~** **WS proposer**	Name: Organization: Postal address: Email: Phone: Webpage: Contact person (name and email):	Sophie Smit NEN Postbus 5059, 2600 GB Delft klantenservice@nen.nl +31 15 2 690 391 nen.nl Sophie Smit, sophie.smit@nen.nl
1.7.	**WS Secretariat**	Organization: Postal address: Email: Phone: Webpage: WS Secretary name: Email: Phone:	NEN Postbus 5059, 2600 GB Delft klantenservice@nen.nl +31 15 2 690 391 nen.nl Sophie Smit sophie.smit@nen.nl +31 6 52 903 529
1.8.	**CEN and CENELEC Management Centre (CCMC) contact**	Organization: Postal address:	CEN and CENELEC Rue de la Science 23B - 1040 Brussels, Belgium

		Webpage: CCMC Project Manager name: Email: Phone:	https://www.cencenelec.eu/Pages/default.aspx Claire Van Thielen cwa@cencenelec.eu +3225500831 +32478793545
1.9.	**Tentative date and place of the Kick-off Meeting**	Date: October 2026	Place: NEN, Delft, The Netherlands
1.10.	**Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies?[1]**	☒ ☐	YES Specify: CEN/TC 15 Inland Navigation Vessels NO
1.11.	**Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ?[2]**	☒ ☐	YES Specify: CEN TC 268 - Cryogenic Vessels and CEN TC 282 – Installation and equipment for LNG NO
1.12.	**Are the following aspects affected?**	Safety matters Management system aspects Conformity assessment aspects Security matters	YES[3] ☐ NO ☒ YES[4] ☐ NO[7] ☒ YES[5] ☐ NO ☒ YES[6] ☐ NO ☒ NO[8]
		Add information/explanations if Management System aspects and Conformity Assessment aspects are affected: Type here	
2	**WS Deliverables**		
2.1.	**CWA #1**		
2.1.1	**Title**	☒ ☐	Same as WS title (1.2) Other: Type here
2.1.2	**Scope**		Guidance for ammonia refuelling points and bunkering of ammonia for ammonia-fuelled maritime and inland waterway vessels, including: technical requirements for hardware and transfer systems, operational procedures, requirements for documentation (e.g. bunker delivery note), training and qualification of personnel involved and considerations supporting interoperability and harmonised implementation across European ports and inland waterways.
2.1.3	**Does the proposed CWA conflict with a published EN**	☐ ☒	YES Specify: Type here NO

[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.

			In case the answer is ‘yes’, the development of the CWA shall be stopped

PART B – Project Plan

Abstract

The increasing use of alternative fuels in maritime and inland navigation creates a need for harmonized and safe bunkering practices. Ammonia is a promising zero-carbon fuel, but currently lacks standardized guidance for refueling infrastructure and bunkering operations.

This Workshop aims to develop a CEN Workshop Agreement (CWA) addressing technical and operational aspects for ammonia refueling points and bunkering of ammonia-fueled maritime and inland waterway vessels, including transfer systems, procedures, documentation and training.

The CWA will support early market adoption and align with existing regulations and standards. It will not introduce regulatory requirements or certification schemes and is intended as a pre-normative document for future standardization.

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: sophie.smit@nen.nl.

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off virtual meeting of the Workshop on **2026-10-27**.

2 Workshop proposer and potential Workshop participants

2.1 Workshop proposer

NEN, as the Netherlands Standardization Institute, has extensive experience in facilitating standardization processes and acting as a neutral platform for stakeholders. In the context of the energy transition and the increasing interest in alternative fuels such as ammonia, NEN is involved in initiatives related to maritime and inland navigation. NEN proposes this Workshop to support the development of harmonised technical guidance for ammonia bunkering, bringing together relevant stakeholders from industry, authorities and research.

2.2 Potential participants

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of the following persons/organizations would be helpful and is desired. It is recommended that:

- ship owners and operators (maritime and inland navigation)
- ammonia producers, fuel suppliers and bunker operators
- port authorities, terminal operators and harbour masters
- waterway authorities
- infrastructure providers and equipment manufacturers
- classification societies and inspection bodies
- emergency response organisations and safety authorities
- research organisations and universities

- public authorities and regulators
- insurers and risk management specialists
- and any other interested stakeholders

take part in the development of this CWA.

3 Workshop objectives and scope

The objective of this Workshop is to develop a CEN Workshop Agreement (CWA) specifying technical and operational requirements for ammonia refueling points and bunkering of ammonia-fueled maritime and inland waterway vessels.

The CWA aims to address key aspects related to transfer systems, operational procedures, documentation and training of personnel, with a focus on safety, interoperability and harmonisation of ammonia bunkering practices across Europe. The document is intended to capture current industry best practices and provide a common framework that supports the safe deployment of ammonia as a marine fuel.

The Workshop will not develop regulatory requirements or certification schemes and will aim to complement, not duplicate or conflict with, existing standards and regulations.

3.1 Workshop background

In accordance with the EU-funded project MOVE/B4/2021-696 – Alternative Fuels Infrastructure (AFI 2), this Workshop aims to support the development of a harmonised approach for ammonia refuelling points and bunkering of ammonia-fuelled maritime and inland waterway vessels. The CWA is intended to provide an initial framework that can support future standardization activities. Following publication of the CWA, its suitability for further development into a European Standard may be assessed.

The Workshop does not start from a blank sheet. The development of the CWA will build upon findings generated through the Alternative Fuels Infrastructure (AFI) activities, allowing stakeholders to consolidate existing knowledge, achieve consensus and translate identified standardization needs into practical guidance for ammonia bunkering.

This Workshop will align with relevant legislation and standards, including, where relevant, applicable IMO instruments for maritime transport and inland navigation frameworks such as ES-TRIN and ADN.

Particular attention will be given to consistency with relevant international regulations, standards and guidance documents in order to facilitate international interoperability and avoid duplication of existing work.

As the Workshop addresses both maritime and inland waterway vessels, the guidance will take into account the different operational contexts and regulatory frameworks applicable to each sector. Where appropriate, the CWA will distinguish between requirements that are common to both sectors and those that are sector-specific, while promoting a harmonised European approach.

While pilot projects are emerging, no dedicated European standard exists for ammonia bunkering. Existing standards and guidance for other fuels, such as LNG and methanol, provide useful references but are not directly applicable to ammonia.

4 Workshop programme

4.1 General

The kick-off meeting is planned to take place virtually on 27 October 2026.

Prior to the kick-off meeting, preparatory activities will be carried out, including stakeholder engagement, review of existing standards and regulations, collection and assessment of available technical information, and the preparation of background material and an initial working document. These activities will provide the basis for the Workshop discussions and support the efficient development of the CWA.

A total of 3 Workshop meetings are planned. Following the virtual kick-off meeting, two virtual Workshop meetings will be held on 19 November 2026 and 14 January 2027. During these meetings, the draft CWA will be presented, discussed, refined and consolidated with the aim of reaching consensus among the Workshop participants.

Following the Workshop meetings, a draft CWA will be made available for external consultation through a public commenting phase. Comments received during this period will be reviewed and addressed by the Workshop participants.

If necessary, a virtual or in-person finalization meeting will be held in February 2027 to resolve outstanding comments and finalize the document for submission.

The working language of the Workshop (meetings, minutes and related documents) will be English. The CWA will be drafted and published in English.

4.2 Workshop schedule

The Workshop will develop the following work item:

– CEN Workshop Agreement: Guidance for ammonia refuelling and bunkering of ammonia-fuelled maritime and inland waterway vessels

The development of the CWA will start with the kick-off meeting on 27 October 2026, followed by a second Workshop meeting on 19 November 2026 and a third on 14 January 2027. A finalisation meeting will be held either virtually or in person in February 2027.

The CWA is planned to be finalised and submitted for publication in March 2027.

Table 1: Workshop schedule (preliminary)

CEN/CENELEC Workshop	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
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												

| | | |

5 Resource planning

The Workshop will be financed within the framework of the European Commission/EFTA project MOVE/B4/2021-696 – Alternative Fuels Infrastructure (AFI 2).

Dedicated project resources will support the preparation, development and finalization of the CWA. This includes the assessment and consolidation of relevant outcomes from the Alternative Fuels Infrastructure (AFI) activities and their translation into draft technical content for the Workshop.

Preparatory activities will build upon work already undertaken within the Alternative Fuels Infrastructure (AFI) initiative, including stakeholder consultations, identification of standardization needs and analysis of existing regulatory and standardization frameworks. Resources will therefore also be allocated to the assessment and consolidation of relevant AFI outcomes and their translation into draft technical content for the Workshop.

These resources include personnel responsible for project coordination, Workshop secretariat support, stakeholder engagement, technical drafting activities, workshop organization, comment resolution, final editing and dissemination activities.

The funded activities will cover:

- review and analysis of existing standards, regulations and industry practices;
- assessment of identified standardization gaps and stakeholder needs;
- preparation of background material and working documents;
- stakeholder identification and engagement;
- organization and administration of Workshop meetings;
- management of comments and consensus-building activities;
- finalization and publication of the CWA;
- dissemination and communication activities related to the CWA.

Workshop participants will contribute their expertise and time in-kind through active participation in meetings, review of draft documents, submission of comments and technical proposals, and support for consensus building.

All costs related to the participation of interested parties in the Workshop's activities will be borne by the participants themselves. No participation fee is foreseen.

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, 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 will not be granted Workshop participant status and are excluded from further decisions.

As a rule, participation requests are closed once the Workshop is constituted. The Workshop participants may decide whether additional members will be accepted at a later stage.

Any new participant joining the Workshop at a later stage shall be accepted by consensus of the existing Workshop participants, taking into account their expertise and contribution to the objectives of the Workshop.

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

6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and consensus building. The Workshop Chair is supported by 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 TCs

Workshop participants are expected to actively contribute to the development of the CWA and support the consensus-building process. The list below covers the main responsibilities of Workshop participants. It is not intended to be exhaustive.

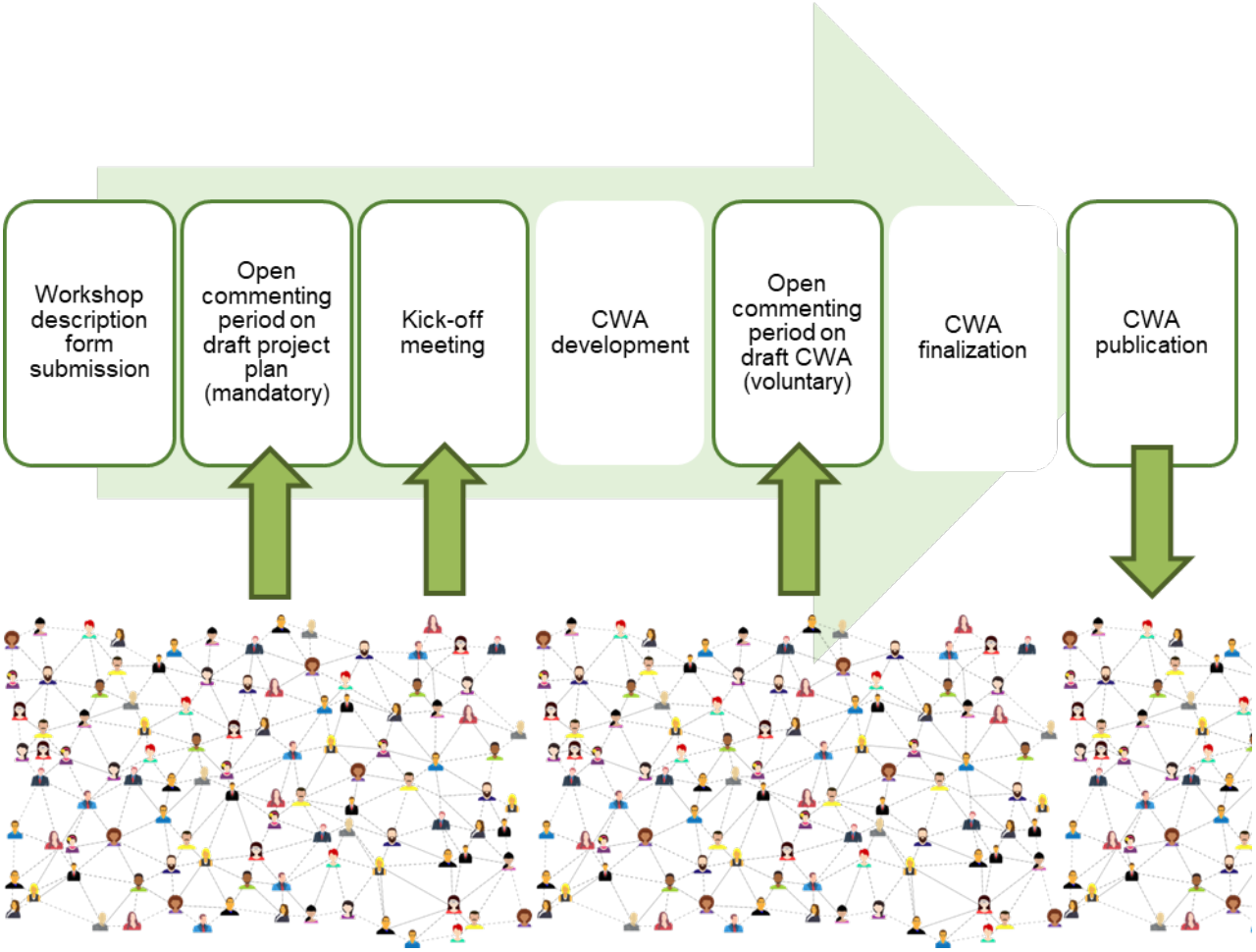
- Contribute relevant expertise and represent the interests of their sector or stakeholder group
- Participate actively in Workshop meetings and related activities
- Actively contribute to the drafting, review and revision of the CWA document
- Review and comment on draft documents in a timely manner
- Submit concrete technical proposals and contributions within the agreed scope of the Workshop
- Support the achievement of consensus through constructive engagement with other participants
- Respect the principles of openness, transparency and fair representation throughout the Workshop process

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 intervene to help the participants reach consensus on sensible topics 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



The dissemination and participation strategy aims to support stakeholder engagement throughout the development of the CWA and to promote awareness of the final document.

Potential participants identified in section 2.2 and interested stakeholders identified in Part A will be informed about the creation of the Workshop, opportunities for participation, the public commenting phase and the publication of the final CWA.

Dissemination activities may include communication through the CCMC website, the NEN website, sector-specific newsletters, professional networks, social media channels (e.g. LinkedIn) and, where appropriate, European Commission/EFTA communication channels. Relevant CEN Technical Committees and other identified stakeholders will also be informed and invited to contribute where appropriate.

Project resources will support stakeholder engagement, the public commenting phase and dissemination activities related to the development and publication of the CWA.