

## TECHNICAL BOARD

CEN/BT by correspondence

For information

Issue date:

2016-02-22

Simultaneous circulation to CENELEC/BT

---

### SUBJECT

**Announcement of a new CEN Workshop 85 on “Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes” – TOP-REF**

---

### BACKGROUND

CCMC received the draft Project Plan for a new CEN Workshop on a “Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes (TOP-REF)”. The proposal originates from an EU-FP7 funded project, TOP-REF. This project will develop and demonstrate a robust, resource-efficiency-focused and cross-sectorial methodology. This methodology will be demonstrated in a non-invasive on-line monitoring and control tool adapted to three specific continuous energy and resource intensive processes: agrochemical, petrochemical and chemical. The tools will be validated through demonstration under real conditions in three pilots, one in each sector.

The Workshop is built upon and will further develop and validate specific indicators, methodologies and non-invasive tools devoted to the improvement of resource efficiency in energy intensive continuous and batch industrial processes in the agrochemical, chemical and petrochemical sectors.

### Draft Business plan

The draft Business Plan for the new CEN Workshop is in Annex 1.

### Assessment

The proposed Workshop was evaluated by CCMC with regard to the current four conditions under which there is a need for an agreement of BT Members before proceeding with the process to launch a Workshop:

- The proposed Workshop does not deal with management system or conformity assessment or safety aspects.
- The proposed CWA does not fall within the scope of any TCs.

Considering the above, the self-assessment in Annex 2 as well as the analysis of the degree of interest in the subject in different European countries and amongst different stakeholders in Annex 3, **there is no need for a CEN BT decision.**

CCMC publicly announced the kick-off meeting of the Workshop on its web-site on 14 June 2016 for 30 days.

### Kick-off meeting

The kick-off meeting of the Workshop will take place at Dow Chemical Iberica SL in La Canonja (Tarragona), Spain on **13 July 2016.**

---

**Secretariat**

**DS** has volunteered to provide the secretariat.

Should you need further information or have any comments on this proposed Workshop, please contact Andrea Nam, CCMC programme manager ([anam@cencenelec.eu](mailto:anam@cencenelec.eu)).

---

2016-06-15 – AN



2016-06-13

**DRAFT**

**Project Plan for the CEN Workshop on “Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes”  
WS TOP-REF**

**Workshop  
(to be approved during the kick-off meeting on 2016-07-13)**

**1. Status of the Project Plan**

This is the first draft of the Project Plan, which is to be further developed and approved at the CWA kick-off meeting in July. The draft Project Plan follows the requirements in CEN Guide 29.<sup>1</sup>

**2. Background to the Workshop**

As considered in the “Europe 2020 Strategy”, the European Union is facing major challenges such as the economic crisis, sustainability and the competition with emerging economies. In this context, TOP-REF contributes to a smart and sustainable growth while promoting a more efficient, greener and competitive economy based on knowledge and innovation<sup>2</sup>

TOP-REF is committed to increase the competitiveness and efficiency of the EU resource intensive process industry, as well as to assure a long-term greener economy. All this is achieved through innovative focus on an optimized monitoring and control of the processes, providing a deeper knowledge of the processes.

This CEN Workshop has been initiated by TOP-REF, a EU funded research project under FP7: Collaborative projects (NMP.2013.3.0-1).

The Workshop is built upon and will further develop and validate specific indicators, methodologies and non-invasive tools devoted to the improvement of resource efficiency in energy intensive continuous and batch industrial processes in the agrochemical, chemical and petrochemical sectors.

TOP-REF will develop and demonstrate a robust, resource-efficiency-focused and cross-sectorial methodology. This methodology will be demonstrated in a non-invasive on-line monitoring and control tool adapted to three specific continuous energy and resource intensive processes: agrochemical, petrochemical and chemical. The tools will be validated through demonstration under real conditions in three pilots, one in each sector.

---

<sup>1</sup> [ftp://ftp.cencenelec.eu/EN/EuropeanStandardization/Guides/29\\_CENCLCGuide29.pdf](ftp://ftp.cencenelec.eu/EN/EuropeanStandardization/Guides/29_CENCLCGuide29.pdf)

<sup>2</sup> COM (2012) 2020 final. A strategy for smart, sustainable and inclusive growth



As preparatory work for the CWA, several existing standards have been screened in order to build a representative list of standards related to Top-Ref.

The list was analysed and a handful of these standards were selected and used as inspiration for a preparatory workshop where the scope of the CWA was discussed.

Throughout the CWA process it can be beneficial to continuously check the lists to draw on the knowledge in existing standards and to ensure that there is no overlap with the Top-Ref CWA.

- 45 relevant standards were found
- Of these 10 were selected for further analysis.
- In the end three standards were selected to give inspiration to the Top-Ref CWA/IWA process:
  - ISO 14031:2013
  - ISO 14045:2012
  - ISO 50006:2015

### **3. Workshop proposers and Workshop participants**

#### **Proposers**

The proposer of the workshop is CIRCE - Centro de investigación de recursos y consumos energéticos, Spain, in its role as coordinator of the TOP-REF project. The Secretariat will be placed at Danish Standards.

Associated TOP-REF partners include: Fundacion CIRCE Centro de Investigación de Recursos y Consumos Energeticos (Spain), Dow Chemical Iberica SL (Spain), BIO Intelligence Service SA (France), Petroleos de Portugal - PETROGAL SA (Portugal), Fundación TECNALIA Research & Innovation (Spain), The COSMO Company SAS (France), FERTINAGRO Nutrientes S.L. (Spain), INOSIM Software GmbH (Germany), TU Dortmund University (Germany), Fonden Dansk Standard (Denmark).

The above-mentioned organizations are expected to participate in the kick-off meeting.

#### **Participants**

Participation in the Workshop is open to anyone, and the opportunity to participate will be widely advertised in advance by its proposers and by CEN and its member bodies.

The TOP-REF project will circulate the invitation to the kick-off meeting to identified stakeholders. Simultaneously CEN publishes the CWA Project and kick-off Meeting invitation through the CEN channel.

### **4. Workshop scope and objectives**

The Workshop aims to develop a methodology for improving the resource efficiency of industrial processes.



The methodology will guide an organization on how to find opportunities for improving the resource efficiency of industrial processes using a non-invasive method. The framework will be based on PDCA<sup>3</sup> principles for continuous optimization and improvement (Deming Cycle).

The methodology can be used by all energy intensive industries / industrial sectors.

Furthermore, the CWA is expected to include key resource indicators<sup>4</sup>, developed in TOP-REF that can be used to measure and improve resource efficiency either in the main body of text or as an Informative Annex.

A common basis for diagnosis on resources efficiency may be included in the CWA.

The Workshop aims to refine the TOP-REF results and establish European consensus for its outcomes during the course of the project.

## 5. Workshop programme

The working language during the Workshop is English. The CWA will be drafted and published in English.

The steps to achieve the CEN Workshop Agreement entails the following:

Organisation of the CWA meetings:

1. The CEN Management Centre (CCMC) will post the Project Plan, the invitation and the agenda for the kick-off meeting on the CEN Website for a period of 30 days. The interested parties will be able to register by email. In parallel, the invitation is forwarded to the TOP-REF stakeholders.  
Participation in the development of the CEN Workshop Agreement is open to anyone, and the opportunity to participate will be widely advertised in advance by its proposers, the TOP-REF network and by CEN and its member bodies.
2. Danish Standards will organize a kick-off meeting to plan the CEN Workshop Agreement. It will be held on July 13 2016, at Dow Chemical Ibérica, S.L. (DCI) at the Tarragona site in Spain.  
The kick-off meeting will:
  - approve the Workshop Project Plan;
  - select the project team, Workshop chair and designate the secretariat;
3. The Workshop Secretariat will organize the first **CEN Workshop plenary meeting** for all registered participants

---

<sup>3</sup> Plan, do, check, act.

<sup>4</sup> Key Resource Indicator (KRI): variable that represents an index for evaluating the resource efficiency of a process and/or impacts associated with their consumption. *Deliverable 2.3, TOP-REF project.*



4. An internal reviewing period will be carried out to allow for inclusion of final comments from Workshop participants to ensure consensus is reached. This includes a meeting to discuss any issues that may arise.
5. A 60-day Public comment phase will be carried out.
6. A second **plenary meeting**<sup>5</sup> for registered Workshop participants will be organised for the resolution of the comments received during the 60-day public comment phase.
7. The chairman will check by correspondence that a consensus has been reached on the final draft of the CWA.
8. When the consensus is achieved, the CWA will be sent to the CEN-CENELEC Management Centre for publication.

---

<sup>5</sup> Web or face to face depending on the nature of the comments.



Work in progress

	<b>“Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes”</b>	<b>Deadline/date</b>
	Preliminary activities before the launch of the Workshop Project Plan	
1	Invitation to the kick-off meeting	15 May 2016
2	Workshop kick-off meeting CWA open to any interested party	July 13 2016 Terragona
3	CEN Workshop Plenary meeting for registered participants	October 2016, to be decided
4	An internal reviewing period and meeting	December 2016 (meeting in January 2017)
5	Public comment phase on the Draft CWA	Feb-March 2017
6	CEN Workshop Plenary (web)meeting for registered participants for resolution of comments	April 2017
7	Publication CEN Workshop Agreement “Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes”	

## 6. Workshop structure

The working language during the Workshop is English. The TOP-REF CWA will be drafted and published in English.

The following hold the responsibility of the workshop.

### 6.1 CEN Workshop Chairperson

A proposal for the chairperson will be made by the Workshop proposers; he/she or any other candidate nominated during the period of publication of this Project Plan or at the Kick-Off will be approved at the Kick-off meeting by the parties present. His / her responsibilities include:

- Chairing the CEN Workshop meetings,
- Monitoring the progress of the CWA,
- Interface with CCMC regarding strategic directions, problems arising, external relationships, etc.
- Guides the work towards consensus.

### 6.3 CEN Workshop Secretariat



The CEN Workshop Secretariat is providing the formal link to the CEN system. The following main activities will be carried out by the Workshop Secretariat:

- Is responsible for administrative tasks of the CEN Workshop Agreement
- Forming the administrative contact point for CWA project,
- Makes and follows up on action lists,
- Ensures that the Workshop Agreement follows the directives,
- Administrating the liaison with relevant CEN/TCs, if applicable.

## 7. Resource requirements

The registration and participation at this CEN Workshop is free of charge. All costs related to the participation of interested parties in the Workshop's activities have to be borne by the interested parties themselves.

The TOP-REF project (funded under the European Union Seventh Framework Programme FP7, grant agreement n° 604140) includes participation from Danish Standards in the Workshop secretariat.

## 8. Further information (related activities, liaisons, etc.)

Liaisons are not foreseen in this CWA, however input from CEN TCs will be highly welcomed.

Further information on the TOP-REF project is available from <http://toprefproject.eu/>

## 9. Contact points

### Proposed Chairperson:

José Luis Vadillo  
Fundación CIRCE  
Campus Río Ebro  
Mariano Esquillor Gómez, 15  
50018 Zaragoza  
Spain  
+34 976 761 863  
[jlvadillo@fcirce.es](mailto:jlvadillo@fcirce.es)  
<http://www.fcirce.es>

### Proposed Secretariat:

Charlotte Vincentz Fischer  
Danish Standards Foundation  
Göteorg Plads 1,  
2150 Nordhavn  
Denmark  
+45 39966101  
[cvf@ds.dk](mailto:cvf@ds.dk)  
[www.ds.dk](http://www.ds.dk)

### CEN-CENELEC Management Centre

Andrea NAM  
Avenue Marnix, 17  
B-1000 Brussels  
Tel.: +32 2 550 09 68



Fax: +32 2 550 08 19

e-mail: [aNam@cencenelec.eu](mailto:aNam@cencenelec.eu)

[www.cen.eu](http://www.cen.eu)



## Annex 2 Template for the self-assessment

Title of the proposed CWA: **“Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes”**

**1. Does the proposed CWA conflict with an EN or an HD for CENELEC?**

- NO  
 YES      **WARNING:** Work on the proposed CWA shall not be initiated.

**2. Does the proposed CWA intend to define requirements related to safety aspects?**

- NO  
 YES     -> Is the proposed CWA within the scope of  
 CEN?  The CWA proposal shall be submitted to CEN/BT for decision.  
 CENELEC?  **WARNING:** Work on the proposed CWA shall not be initiated.

**3. Is the scope of the proposed CWA within the scope of an existing CEN/CENELEC technical body?**

- NO  
 YES

**4. Does the proposed CWA intend to define requirements related to management system aspects?**

- NO  
 YES     -> The CWA proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

**5. Does the proposed CWA intend to define requirements related to conformity assessment aspects?**

- NO  
 YES     -> CEN/CENELEC Internal Regulations - Part 3, 6.7 applies.

If all these questions are answered NO, the CWA proposal may be processed.  
If not, special conditions apply as given above.

**Annex 3**  
**Analysis of degree of interest**  
**TOP-REF**

The proposed subject “Methodology for Improving the Resource Efficiency of Energy Intensive Industrial Processes” has its origin in the standardization activities of the TOP-REF project. TOP-REF is a European FP7-funded project, committed to increase the competitiveness and efficiency of the EU resource intensive process industry, as well as to assure a long-term greener economy. All this is achieved through innovative focus on an optimized monitoring and control of the processes, providing a deeper knowledge of the processes. Different partners with specific expertise have been involved in this project.

The project consortium is broadly diversified including relevant sectors regarding the proposed topic of the CWA. The consortium is composed of partners from

- a) RTD centres
- b) SMEs
- c) Industry
- d) Other

RTD centre	SME	Industry	Other
TU Dortmund University	Inosim Software GmbH	Fertinagro Sur, S.L.U.	Danish Standards
Tecnalia	The Cosmo Company	Petróleos de Portugal - Petrogal SA	
CIRCE Foundation	Bio Intelligence Service SA	DCI Chemical Iberia	

Based on the discussion and the results of the Workshop on standards and standardization potential in February 2016 the project partners highly agree with the importance of the proposed subject; both for the scientific sector as well as for the relevant stakeholders from the industry and SMEs.

During the workshop all partners agreed on the proposed idea for the possible standardization topic within the consortium. This emphasizes the great interest in the topic from various stakeholders.

Stakeholders from 5 different European countries with academic as well as industrial background are showing a high degree of interest in the subject. Further interested parties are very welcome to join the workshop to enhance the importance of the topic.