

RESEARCH AND STANDARDISATION

RESPONSE FORM for Standardisation groups

To contribute to *EMPIR - the European Metrology Programme for Innovation and Research* *

Objective: to collect standardization needs and suggestions to develop research projects in testing and measurements for the upcoming EMPIR calls in 2020

In the frame of the between CEN, CENELEC and EURAMET, CEN and CENELEC have been invited by the EURAMET Management to put forward their **testing and measurement needs in research** for consideration by metrology institutes for future calls under EMPIR.

Relevant technical groups (sector fora, advisory boards, coordination groups, TCs, WGs...) **are invited to contribute with**

- a short introduction or an overview paper of their unaddressed standardization needs for testing and measurement, and
- a contact person (secretary, chair, convenor, liaison officer, etc.) whom proposers for the Potential Research Topics can contact,

by using this Response Form and send it at :

STAIR EMPIR secretariat, Mr Ortwin Costenoble: empir@nen.nl

Deadline for the consultation: **13 December 2019**.

Proof of need by the TC/SC is highly recommended for a successful submission.

Source of the identified need (identification of TC, WG, etc, incl. title)	<input type="checkbox"/> CEN/TC 0/WG 0 <input checked="" type="checkbox"/> CLC/TC 8X/WG 1 <input type="checkbox"/> ISO/TC 0/SC 0 / WG 0 <input type="checkbox"/> IEC/TC 0/SC 0 / WG 0 <input checked="" type="checkbox"/> NEC 8
European entity responsible for submission of the need	<i>CLC/TC8X-WG1</i> System aspects of electrical energy supply
Person that can be contacted for more detail	Jeroen van Waes, Chairman NEC8 M: +31(0)61178 0065, E: j.v.waes@tue.nl Frans van Erp, Member CLC TC8X WG1 M: +31 (0)6 832 337 12 E: Frans.van.Erp@tennet.eu
Unaddressed need (short description)	<i>The power quality framework for the AC supply voltage is described in EN 50160 and there is a need to describe and regulate also the DC supply voltage. Due to new technologies (PV, EV, storage) the use of DC-voltage is increasing, resulting also in the need to build a DC-framework and definition, limits, measurement guide on DC power supply.</i>
Further explanation of need	<i>Within the TC8X, WG1 the power quality definitions on DC</i>

(TC business plan, road map, formal decision, work item, etc.)	<i>and the acceptable limits is already defined as a new work item. Metrology support is necessary to get the proper power quality definitions, a practical measurement guide and realistic and well-defined power quality limits for DC-power systems. This should be established in the coming years because the first practical cases where DC is used as supply voltage in distribution networks are already in operation.</i>
Enclosures	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

*See more information at [EMPIR website](#)
[CEN/CENELEC website](#) "Standards and metrology"