

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"/> NEC8
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>In the Requirements for Generators-code (EU regulation 2016/631), a required response is defined on several classes of generators connected to the public electricity network. To check if the actual generator response is working appropriately local measurements should be used, measuring the relation between frequency, voltage level, active and reactive power. However, the way of measurement, the needed accuracy, and the needed</i>

	<i>correlation between the measured data is still not clear and thus requires further research. For some parameters there are methods, but information is scattered and an overview is lacking. Standards are needed that define what different parameters should be measured in order to ensure generators meet the RfG under actual grid conditions and how to measure them.</i>
Further explanation of need (TC business plan, road map, formal decision, work item, etc.)	<i>The stability of the future electricity network is depending on the response of generators in the network. The Network Code on Requirements for Generators (RfG) is harmonizing standards that generators (including wind and solar) must respect to connect to the grid. The required generator response will be checked at the installation of the generators, but should ideally also be monitored during their operation. New measurement systems have to be defined and new applications to ensure, also in the future, a stable and reliable network.</i>
Enclosures	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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