

European Metrology Network Clean Energy and energy transition

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The European energy transition is a complex process that can be accelerated by the introduction of new technologies and, sometimes, by exploiting those already available when used in an unconventional way. In both the cases, to bring technologies to industrial plants as fast as possible, advanced metrology is urgently needed. Technically verifiable methods and standards are required to master the challenges of the energy transition and to provide an important anchor of trust in technologies for the society of a joint Europe.

In this frame, one of the roles of the National Metrology Institutes (NMI) is to facilitate the upgrade of the normative that has been thought to be applied in a different context and, to this scope, a tight collaboration among policy, standardization bodies, industry and research is necessary. For this reason, our consortium of NMI is planning to establish a European Metrology Network (EMN) on Clean Energy within the framework of the European Association of National Metrology Institutes (EURAMET). The EMN will summarize the requirements for metrology resulting from political framework conditions and technology roadmaps into strategic research agendas for the clean energy metrology landscape. Since the foundation phase of this network, a unique point of contact for stakeholders will be provided for all metrological issues at European level in the field of clean energy, such as for photovoltaics, wind, geothermal, power conversion, like Power2X, fuel cells, biomass, and energy storage materials.

In this brief talk, more details about role of the EMN and its activities will be discussed with the aim to inform about how the actors of the energy transition can advantage by the collaboration with the network.