

European Metrology Network for Clean Energy and energy transition

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Setting Europe on a more sustainable path is indispensable to reduce the energy dependence of member states from extra European countries not only for mitigating the impact of the climate change but also for ensure a reliable supply of energy to the next generations. While the use of fossil fuels will be probably, partially or totally, substituted by bio-gases with a neutral carbon-dioxide foot-print, the production and storage of energy from renewable sources with negative CO₂-impact is the final goal of the European energy transition. The success of European Green Deal is strictly linked to the equilibrium among politics, availability of new technologies, industry participation and societal acceptance. In this subtle frame, metrology finds its place supporting standardization bodies and providing the technologies that industries need to preserve their own investments. To facilitate the collaboration among member states, manufacturers, commissions and standardization bodies, EURAMET promoted the creation of the European Metrology Network for Clean Energy. In this talk, a description of the role, the objectives and the methods adopted by that network is provided with a particular attention to the fields of photo-voltaic, CO₂ reprocessing, fuels cells and batteries.