

The EMN Clean Energy

The European Green Deal, including green transformation of the energy infrastructure, tackling climate change and mitigating its effects, will be of highest priority for Europe in the coming decades. Linked to the Green Deal, the REPowerEU plan addresses the need to end the Union's dependence on fossil fuels, while accelerating the energy transition and strengthening the security of supply and storage of energy.

The target of this network on Clean Energy includes the identification and collection of measurement needs and solutions through a long-term dialogue with stakeholders to inform research and other activities and the take-up of research outputs from the metrology community. The EMN will focus on 3 technology areas: the generation and utilisation of solar and wind energy and energy storage. The network refers to metrological needs, meaning for instance, more accurate energy measurements, under realistic conditions, understanding of materials performance and durability, or more trustful international comparability allowing investments with lower risks. Additionally, projects on life-cycle analysis and energy efficiency analysis using better data quality and novel AI statistical tools are envisaged. The digital transition and standardisation needs will also be considered.'

In addition to the European Green Deal, the EMN's work will also contribute to the UN sustainable development goals. Initially, the EMN will focus on generation and utilisation of renewable energy, covering topics such as the conversion of solar and wind energy into electrical energy. The EMN will also prepare for the EURAMET Green Deal Call in 2024 and identify potential research topics covering the stakeholder needs beforehand.