

## IEC TC106 announces new strategic plan to deliver advanced 5G, Wireless Power Transfer and EMF standards at Università degli Studi di Napoli Federico II



The [IEC TC106 2022 Plenary meeting](#) hosted by the [Italian national committee \(CEI\)](#) and held at the [Università degli Studi di Napoli Federico II](#), Naples Italy with the co-hosting of the [Department of Electrical Engineering and Information Technologies](#) in September 2022 has approved a significant new 5-year strategic plan to deliver advanced 5G electromagnetic field assessment standards and technical reports for base stations and devices, and new standards for the safety assessment of electric vehicles.

With the global acceleration of smart sustainable cities and rapid deployment of 5G networks, the IEC TC106 Plenary Meeting was a significant gathering of international experts to ensure the IEC standards reflect the latest scientific and technology updates, and international best practice.

The approval of latest EMF assessment standards for 5G base stations and networks (IEC 62232 ED3) was announced at the meeting reflecting significant global testing over the past 3 years.

Commenting on the success of the meeting, new strategic plan and 5G standards, [IEC TC106](#) Chairman Mike Wood said, *'harnessing the collaborative power of academia, industry, governments and testing laboratories all working together, is what delivers world's best practice. It is a great honour to lead this team of international experts contributing to the ongoing safety of all communities.'*

Governments and regulators use the international standards from TC106 to undertake independent safety assessments on mobile and wireless technology including 5G.

Chair of the Italian mirror technical committee [CEI CT106](#) and host of the TC106 Plenary meeting, Professor Nicola Pasquino said *'Under the auspices of the CEI CT106, a team of researchers and scientists from University, public environmental regulatory agencies and mobile operators have thoroughly tested the 5G EMF assessment methods – particularly the actual power approach – and formalized methodologies to test the recently introduced power monitoring and control features, contributing findings into the new international standard. Our live test results show that 5G is very efficient and has low EMF levels.'*

## About the IEC

The [IEC](#) (International Electrotechnical Commission) is a global, not-for-profit membership organization that brings together 171 countries and coordinates the work of 20 000 experts globally. IEC International Standards and conformity assessment work underpins international trade in electrical and electronic goods, facilitates electricity access, and ensures the safety, performance and interoperability of electric and electronic devices and systems.

The standards developed by TC106 are used globally by the wireless and mobile industries, broadcasting authorities, regulators and government agencies, the automotive and electrical power sectors for the assessment of human exposure to electromagnetic fields. This includes the compliance assessment for all mobile phones, tablets, wireless devices, IoT, Wi-Fi devices as well as the wireless networks, and electric power distribution including wireless power transfer and electric vehicles.

## About the CEI

The [CEI](#) (Italian Electrotechnical Committee) is a private, non-profit Association operating, at national level, for technical standardisation in the electrotechnical, electronic and telecommunication field. CEI represents Italy in the European activities (CENELEC – Comité Européen de Normalisation Electrotechnique) and international activities (IEC – International Electrotechnical Commission).

[CT 106](#) develops standard and technical guides about human exposure to electric, magnetic, and electromagnetic fields from 0 Hz to 300 GHz generated by power transmission lines and substations, base station, radio links, radio and tv broadcasting systems, radars, IoT devices and wireless power transfer equipment. The focus of CT106's activities are measurement and assessment methodologies to verify compliance to law limits for both general public and occupational exposure.