Dr. Eng. **Giorgio Graditi** - PhD in Electrical Engineering / Director of the Department of Energy Technologies and Renewable Sources of ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Rome, Italy.

He received the doctoral degree and the Laurea degree (cum laude) in Electrical Engineering from the University of Palermo (Italy). Since July 2020, he is the Director of the Department of Energy Technologies and Renewable Sources of ENEA. Since 2000, he is a Researcher at ENEA. From 2011 to 2017, he was the head of the Photovoltaic Systems and Smart Grid Unit of ENEA, whereas from 2018 to 2019 he was the head of Solar Thermal and Smart Network Division of ENEA. From April 2019, he is the President of MEDENER, Mediterranean Association of National Agencies for Energy Management for energy efficiency and the development of renewable energy sources, and from May 2019 is the Coordinator of the Scientific Technical Committee of National Energy Technological Cluster under the Ministry of Education, University and Research. He is a member of IEA task 11 “PV Hybrid systems within mini-grids” and task 14 “High penetration of PV systems in electricity grids” and of Italian Electrotechnical Committee (CEI) CT 82 “Solar photovoltaic”, CT 316 “Connection to LV, MV and HV distribution networks” and CT 313 “Smart grids”.

In 2017, he received the Italian National Scientific Qualification as Full Professor in the sector of electrical energy engineering. He is operating as Italian member for Mission Innovation Challenge 1 “Smart Grids” and Challenge 2 “Off-grid access to electricity”, and he is a member of the H2020 National Steering Board for the "Safe, Clean and Efficient Energy" Cluster, and member of the working group of the thematic area "Industrial Energy” for the “Climate, Energy and Sustainable Mobility” area set up by the Italian Ministry of University and Research within the drafting of the national research plan 2020-2027. He is the vice-coordinator of the Joint Programme on Smart Grid (JP SG) within European Energy Research Alliance (EERA) and the responsible of many National and European (FP7, H2020) projects on the topics of RES, integrated energy networks and smart grid.

His main research interests are in: design, modelling and tools development for the control and management of Smart Grids and microgrids in the presence of DER; energy conversion components and systems design and characterization; performance analysis of integrated energy networks by multi-objective techniques; design, modelling, and analysis of multi-energy hubs; management and operation optimization of local and renewable energy communities; design, characterization and testing of concentrated solar power and photovoltaic components and plants; technologies and uses of hydrogen; RES production and demand forecasting based on artificial intelligence techniques.

He has supervised several MSc and PhD theses. He is also peer review, associated editor, member of editorial and advisory board of scientific journals, and chairman in international conference. He is also responsible of many R&D contract and agreement in the energy sector with international and national stakeholders. He is author of more than 250 scientific papers (with Scopus H-index 33) published in international journals and proceedings of international conference most of them awarded as highly-cited papers.