

**Dr. Giorgio Graditi** - PhD (male). He received the doctoral degree and the Laurea degree (cum laude) in electrical engineering from the University of Palermo (Italy). Since 2000, he is a Researcher at ENEA, Italian National agency for new technologies, Energy and sustainable economic development. Since October 2011 until August 2018, he is the head of Photovoltaic Systems and Smart Grid Unit of ENEA; since September 2018 is leading the Solar Thermal and Smart Network Division of ENEA, and since June 2019 is also the Vice Director of Energy Technologies Department of ENEA. He is also the president of MEDENER - Mediterranean Association of National Agencies for Energy Management, energy efficiency and the development of renewable energy sources.

In 2017, he received the Italian National Scientific Qualification as Full Professor in the sector of electrical energy engineering. His main research interests are in: power systems design and control; power system conversion; PV, CSP electrical and thermal design, characterization and testing; microgrids and smart grids modelling and analysis; design, management and control of multi-energy hub systems by multi-objective optimization approach. 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”. He is operating as Italian member for Mission Innovation Challenge 1 “Smart Grids” and Challenge 2 “Off-grid access to electricity”, and as a member of national board of director of H2020 for “Secure, Clean and Efficient Energy”.

He is the responsible of National and European (FP7, H2020) projects within renewable energy and smart grid topics. He is the vice-coordinator of Joint Programme on Smart Grid (JP SG) within European energy Research Alliance (EERA). He has supervised several MSc and PhD theses. He is also peer review, member of editorial and advisor board of scientific journals, and chairman in international conference. He is author of more 230 scientific papers published in the proceedings of international conferences and journals.

