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## SOTIRIOS KARELLAS

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Professor at the School of Mechanical Engineering of NTUA, Director of the laboratory of Thermal Processes, visiting Professor at the Technische Universität München. He was a member of the European Hydrogen Sustainability and Circularity Panel (EHS&CP) acting as a Task Force Leader in the Hydrogen End Uses Task Force (2024-2025). Member of the Greek delegation to the Programme Committee “Secure Clean and Efficient Energy” (2014-2021) and to the Coal and Steel Committee (COSCO) (2014 – 2019). He is member of the technical group: TGK2 (Coal preparation, conversion and upgrading) of the European Research Executive Agency (REA). His research is focusing on Hydrogen production and utilization, Energy Storage, Power-to-X, LCA-LCC analysis of energy systems, central and decentralized energy systems, Carbon Capture Storage and Utilisation, Zero Energy Buildings, co-, poly-generation, solar-thermal energy, biomass, Organic Rankine Cycle technology and heat pumps, Waste to energy. He has over 150 relevant publications in scientific Journals and Conferences and more than 5000 citations. He has supervised 9 Ph.Ds and he is currently supervising 6 Ph.D students at NTUA working in the field of Hydrogen energy, Energy storage, CCU, energy conversion systems for Electricity, Heating and Cooling. He has participated in a large number of projects in NTUA (2006-present) and in Technische Universität München (2001-2006), having both technical and coordination responsibilities. He has significant industrial experience in power production plants, co/tri-generation systems, heat pumps, building heating systems and chillers. He is full member of the editorial board of 4 scientific journals dealing with renewable and sustainable energy systems, Energy Storage, hydrogen energy, central-decentralised energy systems.

