

May 13, 2025

PPC Group Participates in the European Research Project RAIDO

RAIDO: Leveraging Artificial Intelligence to Enhance Energy Efficiency and Sustainability in the Energy Sector

PPC Group is taking part in the European research initiative [RAIDO](#) (101135800), which among others aims to develop and implement Artificial Intelligence (AI) technologies that improve energy efficiency and sustainability in the energy sector. Funded by the European Union's Horizon Europe program, the project seeks to enhance the management of energy infrastructure, particularly variable renewable energy sources. RAIDO brings together more than 20 organizations from 10 European countries, coordinated by the Jožef Stefan Institute in Slovenia.

As AI advances and the need to optimize energy consumption increases, smart, reliable and efficient energy management solutions become essential. RAIDO addresses this need by developing and deploying AI technologies that optimize the use of green energy, support the operational flexibility of energy systems and reduce CO₂ emissions.

The project applies cutting-edge methodologies, including the use of digital twins and diffusion models, to generate reliable and unbiased training data. In addition, "Green AI" tools are employed, utilizing machine learning techniques such as few-shot and zero-shot learning, which reduce the need for large datasets and enhance the energy efficiency of AI models.

As part of the project, PPC will implement a pilot application of Artificial Intelligence technologies in a suitably controlled energy infrastructure environment, leveraging its expertise and existing platforms. This participation aligns with PPC's strategic focus on improving energy efficiency and promoting innovative digital solutions that support sustainable growth and the green transition. The aim is to test AI tools in real-world conditions and evaluate their effectiveness, contributing to their adaptation to the sector's specific needs.

Currently in its second year, RAIDO has already launched the initial pilot scenarios. PPC serves as a key pilot partner, focusing on testing AI technologies for the operation and management of its energy infrastructure.

By steadily investing in green energy, smart infrastructure, and technology, PPC Group is actively shaping the new energy era. In this context, PPC's evolution into a Powertech company is a natural progression. Its active participation in research projects like RAIDO is part of the Group's broader strategy in Artificial Intelligence, confirming its commitment to ongoing innovation and its contribution to building a sustainable, digital, and efficient energy future for Greece and the wider region.

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About PPC Group

PPC is the leading South-East European electric utility, with activities in electricity generation, distribution and sale of advanced energy products and services in Greece, Romania and North Macedonia. PPC has a total installed capacity of 12.3GW, consisting of thermal, hydro and RES installations with a total annual generation amounting to approximately 21TWh, while the total Regulated Asset Base of its networks amounted to €4.9bn approximately at the end of 2024. PPC Group is the leading energy supplier in Greece and Romania, servicing 8.8m customers in total, providing them with approximately 32TWh of electricity and a wide range of energy products and services.

PPC Group's Strategic transformation plan is based on three key pillars: (i) Clean and resilient generation portfolio, through the ramp-up of Renewables investments and the decarbonization of its business with an accelerated phase out plan of lignite, (ii) Modernization of its distribution networks with the application of new technologies across all business activities and (iii) Customer centric retail services.

PPC was founded in 1950 and is publicly listed since 2001 and its shares are traded on the Main Market of the Athens Exchange.