

The H2020 project D^2EPC aspires to set the grounds for the next generation dynamic Energy Performance Certificates (EPCs). The aim is to trigger energy-efficient behavioral change and stimulate smart buildings. The D^2EPC digital platform will enable the issuance of next generation EPCs on a regular basis and will be armored with additional services.

- Introduce and establish the concept of next generation dynamic Energy Performance Certificates to empower the regular energy classification of buildings and allow for an EU-wide deployment
- Enable enhanced multi-parameter assessment by the inclusion of new indicators (energy, smart readiness-SRI, sustainability, human comfort, financial) to facilitate the understanding of buildings energy performance
- Introduce BIM-based Digital Twin coupled with a state-ofthe-art IoT ecosystems for the near-real time asset and operational energy assessment of the building
- Provide improved Al-driven assessment recommendations towards energy efficiency and optimal comfort and foster energy saving consciousness
- Integrate geolocation and "polluter pays" practices into the EPC rationale and turn EPCs registries into policy feeding mechanisms



Partners

- Centre for Research and Technology Hellas, Information Technologies Institute, Greece
- Kaunas University of Technology, Lithuania
- Geosystems Hellas A.E., Greece
- Cleopa Gmbh, Germany
- SEnerCon Gmbh, Germany
- Asociacion Espanola de Normalizacion, Spain
- DEMO Consultants BV, Netherlands
- SGS Tecnos SA, Spain
- HYPERTECH Energy Labs, Greece
- Austrian Standards International, Austria
- Frederick Research Center, Cyprus
- Austrian Energy Agency, Austria
- + IsZEB Intelligent Solutions For Zero And Positive Energy Buildings, Greece, as linked 3rd party

D^2EPC in numbers

- 7 EU countries
- 12 partners
 - 1 industrial company
 - 5 SMEs
 - 3 research centers
 - 2 standardization bodies
 - 1 energy association
- 1 linked 3rd party
- 6 buildings with diversity of classes to be studied

Project Coordinator

Dr. Dimosthenis Ioannidis Centre for Research and Technology Hellas, Information Technologies Institute (CERTH) Contact: djoannid@iti.gr



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 892984.