



Use Case 1

Energy communities: Distributed solar energy production forecasting and demand management

Use Case 1 focuses on forecasting solar energy production and managing demand to optimise local energy efficiency. Led by the National Observatory of Athens with EnergyFamily and StadtWerke Amstetten as core users, it addresses fluctuating solar production due to weather changes and the need for smart grid solutions. By creating 3D models of cities like Amstetten and Athens, it aims to improve solar PV forecasts and develop smart grids that align supply with demand, helping Distribution System Operators plan energy distribution and fostering energy independence at the community level.

For collaboration, contact **Dr. Panagiotis Kosmopoulos** (pkosmo@noa.gr).





Copernicus Foundation Models for a Thinking Earth

ThinkingEarth will utilise AI to create Copernicus Foundation Models and a Graph representation of the Earth.

Four Use Cases are being developed under the project.



Find out more and follow us for updates.





thinking-earth.eu





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