

Bridging climate science and the energy sector to better anticipate future risks while fostering business opportunities

Consortium



E3P is a project of the Knowledge and Innovation Community (KIC-Climate). The academic partners are international leaders in climate science and studies on climate extremes. In its starting configuration, the consortium is composed of:

- **Academic partners:** LSCE (IPSL, CEA-CNRS-UVSQ, France), Imperial College (London, UK), Météo-France, Wageningen University (NL)
- **Industrial partners:** EDF, GDF SUEZ
- **SMEs:** ARIA Technologies, CLIMPACT and Numtech.

Deliverables

- The project will develop computer products (software, maps, data) in a generic format.
- Professional and student training on climate extremes and their impacts will be proposed.

Those deliverables are the corner stones of climate services, and will be focused on extreme climate events.

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Extreme Events
for Energy Providers

E3P

From weather extremes to solutions for energy providers

Climate extremes affect energy production, supply, demand and security in several ways.

Elaborating adapted climate diagnostics based on state-of-the-art statistical methodologies and model simulations will help the energy sector to elaborate medium to long-term plans of adaptation to climate change, and will allow the assessment of climate risks associated to those plans.

The E3P project will provide:

- State-of-the-art diagnostic and prognostic tools on extreme climate events relevant for energy providers
- Emphasis on uncertainties stemming from statistical analyses and physical processes
- A platform of exchange of expertise on climate risk at a European scale

The project will help defining adaptation strategies in energy production/supply sector as a response to extreme events.

Creating new business opportunities

Performing dedicated research and innovation in order to build a portfolio of prognostic tools and best practices to use climate information for the energy sector, which can be applied in various areas of the world.

Developing generic and specific climate risk software that can be used by a variety of energy-sector users. They will help local and regional authorities to design energy-related long-term plans.

Anticipating future risks

The E3P project will produce guides of best practices for climate data and model analyses for an efficient use by energy providers, in particular for the adaptation against changes in extreme events.

The value chain for industrial partners concerns the production and transport of energy during or after climate extreme events, and the strategies of adaptation and/or mitigation.

Extreme Events for Energy Providers

