



50 SOLUTIONS
FOR THE CLIMATE

● LOW-CARBON ELECTRICITY
AND RENEWABLE ENERGY

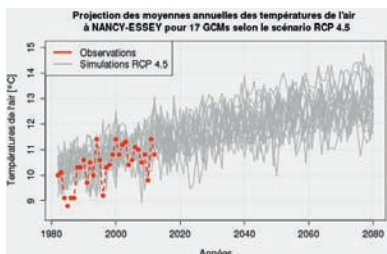
Climate service for EDF's businesses

The consequences of climate change are numerous, complex, shifting, global and local. As they impact directly on future energy consumption and on EDF's power generation facilities, it is important to understand the consequences, foresee developments and adapt. EDF's Climate Service, created in 2014, aims to provide its businesses with useable data. The service consolidates and analyses vast quantities of data collected from over 20 climate models – the same ones used by the IPCC for its work.



The Climate Service has three tasks:

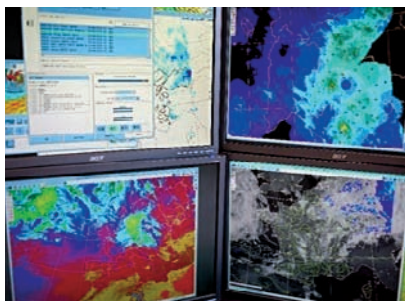
- develop tools and methods to perform climate change impact studies. These refer to changing energy consumption, operation of EDF's generation fleet and calculating its future production needs;
- update changes to climate parameters – precipitation, wind, temperature, etc. – and assess the impact on EDF's businesses;
- build standardised and shared terms of reference for regional climate projections to enable the most precise and detailed analysis at more local levels. With this Climate Service, EDF's businesses are all able to use the same scenarios for their work, and make the best operational and strategic decisions in response to climate change.



KEY FIGURE

15 terabytes of climate data being mined

INTERESTING FACTS



Make data meaningful

The data is sourced from over 20 climate models. These models use different timeframes and spatial scales, and each has its own bias. The work performed by EDF's Climate Service is twofold:

- homogenise, standardise and adjust the raw data;
- downscaling. As the model scales range between 150 and 200 km, the Climate Service uses downscaling methods to provide local climate data projection series that are immediately exploitable by EDF's businesses.

See all our solutions on:
edf.fr/en/cop21

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