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Cyril Baudry serves as chief architect and expert for scientific applications at the Research and Development Division of EDF. Cyril has a degree and a PhD in material science and surface treatment. He was main developer for EDF major open source codes (Code\_Saturne and Neptune\_CFD), particularly on parallelism, coupling and GUI for 10 years. In 2016, he joined R&D IT division for supervising HPC architecture at EDF.

EDF is a world leader in electricity, covering all activities: generation (from nuclear to renewables), networks, sales and trading. With 90% of its electricity carbon free, EDF plays a leading role in the construction of a net zero energy future.

Title : « **HPC at the service of energy efficiency** »

After a short introduction to EDF's activities and the group's commitment to energy transition, we present an inventory of our infrastructures and areas of use for HPC. Then, We address the impacts of energy transition on the infrastructures, the home-made codes and the studies that are carried out. Finally, we present the options to make users aware of the energy sobriety of the simulations and data produced.