



IFP Energies nouvelles (IFPEN) is a French public-sector research and training center in the fields of energy, transport and the environment.

1635 people workforce

- 1190 Researchers
- 135 PhD and Post-docs

230 M€ dedicated to R&I in 2020

- Total budget 277 M€

Cutting-edge technical environment

- High-end testing facilities
- 220 TFOPS supercomputer

Active IP policy

- 10 200 active patents
- Approx. 180 new patents/yr

Building on our consolidated expertise in **wind and ocean energies** and **EMS**, the WPs IFPEN would be interested in are:

2. Reference hybrid plants
3. Technology/algorithms
4. Electrical design, markets, and grid
5. Outreach and collaboration with other ongoing TCPs and industry R&D activities



IEA Wind
TCP Task 50
Hybrid Plants



After a PhD in Control Engineering and a short academic interlude, **Paolino Tona** joined IFPEN in 2000, as a research engineer and then, project manager. In the past, he coordinated and/or collaborated to several energy and transport-related projects, but his current focus is on renewable energies, namely wave energy, and on energy management systems. He has authored more than 40 publications and holds several patents on control-related topics within those fields.