www.energiesdufutur.eu



The Energies du futur Carnot Institute develops advanced research on new technologies in the field of low carbon energy.

Laboratories of the Energies du futur Carnot Institute provide to companies a wide range of skills and experimental facilities on the whole value chain for energy production, energy conversion, uses optimization and all related technologies.



Boost your innovation in the field of new technologies for energy

A well-structured offering of competencies TRANSVERSAL **RENEWABLE ENERGY PRODUCTION** TECHNOLOGIES Solar **Biomass and** Hydraulic Materials and processes bioresources and marine for energy energy SMART ENERGY STORAGE, CONVERSION AND DISTRIBUTION Distribution Materials lifecycle Electricity Hydrogen Heat Energy Network Storage and gas and transport analysis Smart Grid, Smart Home and Smart City **HIGH-EFFICIENCY USES** Low Transport Energy Modelling and environmental and mobility efficiency of supervision impact building industríal processes



Target markets

- Low-carbon energies
- Energy efficiency
- New uses of energy:
 - Networks
 - Transport
 - Building
 - Industry



Major equipment and platforms for energy

- → Production processes of materials
- → Functionalized materials
- → Nano-characterization
- → Hydraulic and marine energy
- → Photovoltaic and solar thermal energy
- ➡ Hydrogen production and storage
- → Fuel cells
- → Batteries
- → Electric mobility
- → Energy management software
- → Smart Grid and distribution



UNIVERSITÉ

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Le réseau des INSTITUTS CARNOT

www.instituts-carnot.eu

Research staff (full-time equivalent): 1377 including PhD students: 435

Partnership incomes with industry: 80 M€ Global budget: 160 M€

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