

The Carnot Institute “Energies du futur” gathers French research laboratories dedicated to low-carbon energy technologies and energy efficiency.

Across the innovation value chain, the laboratories and platforms of “Energies du futur”, provide a wide range of skills and experimental means to companies of all sizes, from energy production and conversion to uses optimisation, smart grids and transversal technologies.

<https://www.energiesdufutur.eu/>

Design the future of energy, from materials to systems, more efficiency, less carbon impact on the planet

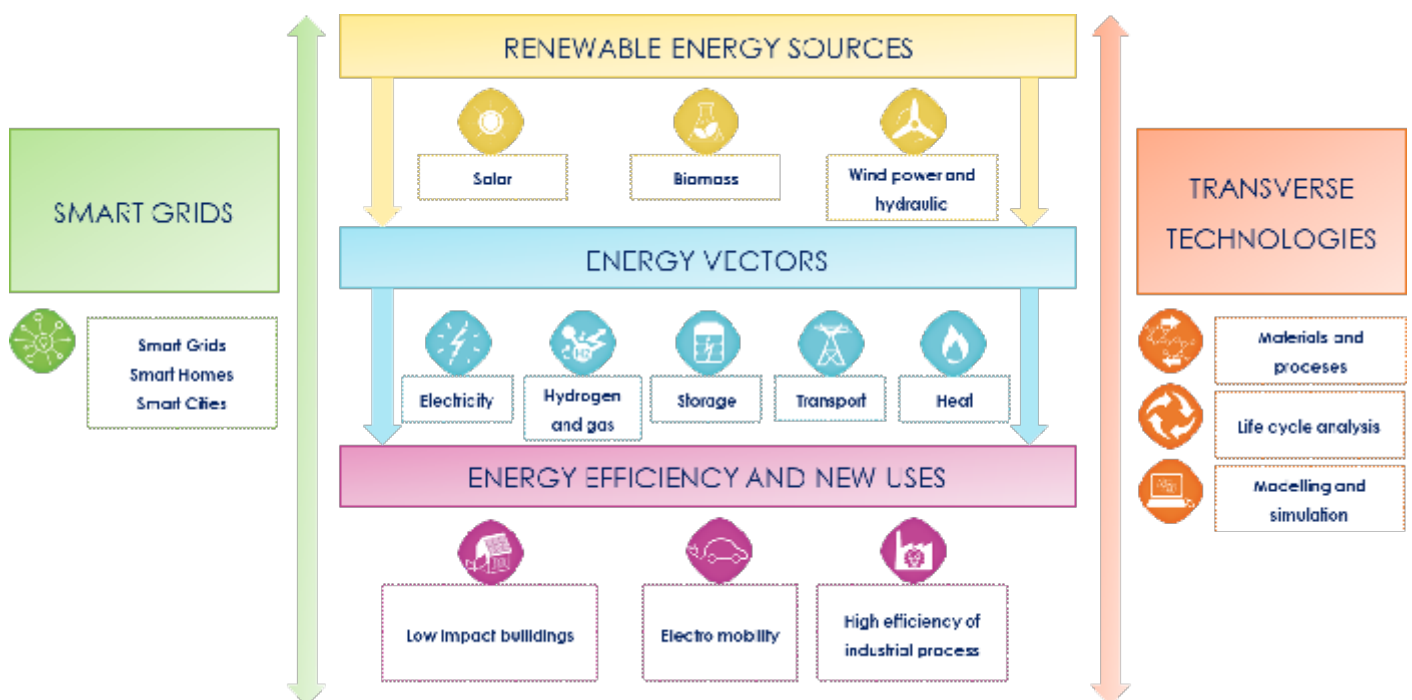
Research for the future of energy:

The Carnot institute “Energies du futur” research activities are distributed over five main topics:

- Low-carbon energy production (solar photovoltaic and thermal systems, bio-resources, hydraulic power...)
- Storage, conversion and energy vectors (various energy vectors)
- Smart grids
- High efficiency new uses (low-impact building, mobility, industry)
- Transversal technologies (modelling and simulation, life cycle analysis, materials and energy management and economy)

Target Makets

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





Main equipment and platforms for energy:

- Materials processes
- Functional materials
- Nano-characterization
- Hydraulic and marine energy
- Bio-resources
- Energy recovery
- Hydrogen production and storage
- « Power to gas »
- Fuel cells
- Batteries
- Electric mobility
- Economy and energy management
- Smart grids and distribution grids

The Carnot institute “Energies du futur” offers a wide range of technological platforms with key benefits:

To develop technologies from proof-of-concept to prototypes in order to push forward innovation and access to the market

To develop, to measure and characterize innovative solutions, thanks to cutting-edge equipment.

To imagine new solutions and test technologies before transferring them into the market.

Key figures

Permanent staff
(full-time equivalent): 1000
PhD Students: 500

Partnership incomes
with industry: €40M
Global budget: €170M

Contacts

Emmanuel DAMERY
+33 (0)4 38 78 30 07
emmanuel.damery@cea.fr

Elisabeth BROCHIER
+33 (0)4 76 82 71 68
elisabeth.brochier@g2elab.grenoble-inp.fr

Institut Carnot Energies du futur
Bâtiment GreEn-ER,
21 avenue des martyrs
CS 90624
38031 GRENOBLE Cedex 1
France
contact@energiesdufutur.fr

