



LABORATOIRE DE THERMIQUE, ENERGETIQUE ET PROCEDES LABORATORY FOR THERMAL SCIENCES, ENERGY AND PROCESSES

APPLICATION SECTORS

- Energy production, storage and conversion
- Industrial cooling and air conditioning
- Motors, cogeneration
- Chemical and oil industries
- Environment
- Biomass, biofuels

PARTNERSHIPS

INDUSTRY

AIR LIQUIDE, ALSTOM, ARAMCO, AREVA, ARKEMA, CIAT, CETIAT, EADS, EDF, EUROPLASMA, FONROCHE GEOTHERMIE, FRANCE TELECOM, GDF SUEZ, GERG, PROSIM, THERMYA, TIGF, TOTAL, VEOLIA...

INSTITUTIONAL

ADEME, BRGM, IRSTEA, IFP...

EUROPEAN AND INTERNATIONAL PROJECTS

- Ecometals (France, Germany, Poland)
- ETS Montréal (Canada)
- CREVER Taragonne (Spain)...

STAFF

- 24 researchers and teacher-researchers
- 19 PhD students and post-PhDs

RESEARCH AREAS

- Functional analysis of energy systems
- Energy conversion and displacement motors
- Energy storage using PCMs
- Underground energy storage and distribution
- Treatment of air and waste gases
- Treatment of residual sludges
- Thermal treatment of waste

SKILLS AND KNOWLEDGE

- Experiments, modelling and simulations in the fields of:
 - Thermodynamics of multi-phase reactive systems and energy systems
 - Thermal and material multi-phase transfers
 - Transport and reactions in porous media
 - Intensification of transfers and combining processes

PRINCIPAL EQUIPMENT

- Special operational units: filter press, tangential filtration, crystallisation units, reactive absorption, reactive distillation...
- Cold storage system with encapsulated phase change materials
- Heat transfer test benches
- Mechanical dehydration tools (electro-dehydration, belt press filter, press filter, filtration-compression cells)
- Pressure equilibrium cells and reactors

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