



NAME : LITEN

INSTITUTION: COMMISSARIAT A L'ENERGIE ATOMIQUE (CEA)

COUNTRY : FRANCE

Profile :

Based mainly in Grenoble and Chambéry (INES), CEA Liten (Laboratory of Innovation for New Energy Technologies and Nanomaterials) is one of the most important and younger European research centres on new technologies of energy.

Liten is a major partner for industry with 350 contracts of partnership research in course this year. The results of their technological research are patents : 96 patents registered by Liten in 2008. With an annual budget of 68,3 M€, Liten employs 600 people specialists in the fields of physics, chemistry and the nanomaterials ones.

Liten activities are focused on three key areas : solar energy, motor vehicle transport -hybrid and electric- (storage, hydrogen and fuel cell) and nanomaterials at the origin of many technological ruptures.

Activities :

Buildings : solar energy (thermal and photovoltaic), electrical and thermal systems, energy storage, energy efficiency, renovation methodology, convergence of habitat- transport requirements.

Transport : advanced batteries, fuel cells, hybridisation, energy recovery, energy efficiency, hydrogen production, depollution, lightening of structures.

Nomadic electronics : energy source miniaturisation, nanomaterial synthesis and manipulation, nanostructured surfaces, organic electronic components, smart surfaces.

Expertise on following materials :

- **polymer nanocomposites**
- **ceramics**
- **alloys**

Actual research domains concerning materials technology / Competences :

- Powders /nanopowder related technologies
- Powder injection molding
- SPS
- Polymer nanocomposites



European Network of Materials Research Centres

Available research infrastructure :

- Powder Injection Molding press (3 in 2010)
- Spark plasma sintering (2010)
- CO2 supercritical debinding
- the CEA LITEN will host in 2010 the French platform on Powder metallurgy

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