

NANOPCM ^[76]

New advanced insulation phase change materials

The NANOPCM project developed, produced and implemented a low cost insulation material able to store heat through the use of Phase Change Material (PCM) embedded in wall panels. Results from testing show reduced room temperature variations due to the PCM. Follow-on work focuses on further increasing the proportion of PCM in the panel whilst reducing the thermal conductivity of the new panels.

Start date ● June 2010
Duration ● 36 months
Status ● Finished

Total budget 3.5 M€

Website

Coordinator ACCIONA, Spain

Partners **Germany:** Active Space Technology.

Italy: DIAD Group.

Poland: Purinova.

Spain: ACCIONA, Tekniker, Universidad de Castilla-La Mancha.

UK: PCM Products.



NAN 
PCM
New AdvAnced insulatiOn Phase
Change Materials

NEED4B ^[77]

New energy efficient demonstration for buildings

NEED4B constructed 4 demo sites in Belgium, Italy, Sweden, and Turkey. Each building integrates a combination of cost-effective solutions and technologies, selected during the design phase by applying BIM, IPD, LCA/LCC and energy simulation tools. Monitoring results after a 1.5 year period reveal an average energy consumption below 50 kWh/m² year (primary energy) in 2 pilots.

● February 2012
● 72 months
● In progress

9.4 M€

www.need4b.eu

CIRCE Foundation, Spain.

Belgium: Format D2, Intesa SanPaolo Eurodesk, M5, Université de Mons, Vue Sur Mons.

Italy: D'Appolonia, Dirco Srl.

Spain: Acciona Infraestructuras, Ingeniería y Control Electrónico, Universidad de Zaragoza.

Sweden: Derome, SP Technical Research Institute of Sweden.

Turkey: BG Mimarlik, Fiba Holding, Özye in University.



NEED4B
New Energy Efficient
Demonstration for Buildings

NewBEE ^[78]

Novel business model generator for energy efficiency in construction and retrofitting

NewBEE has developed an innovative methodology and a web-based ICT platform to support energy efficient retrofitting projects by Small and Medium Enterprises (SMEs):

- Knowledge repository.
- Pre-assessment and financial tools.
- Marketplace tool.
- Energy performance assessment tool.
- Business model assessment tool.

● October 2012
● 36 months
● Finished

4.5 M€

www.newbee.eu

FUNDACIÓN TECNALIA , Spain

Finland: Eriksson, FINNERGIA, KVA, VTT.

Germany: ATB, Conclude, FHG, ifA-Bau Consult, Rahm.

Italy: UniPD.

Malta: AcrossLimits.

Slovenia: SGG, ZRMK.

Spain: Acciona, Eslaban, TEUSA.



NewBEE