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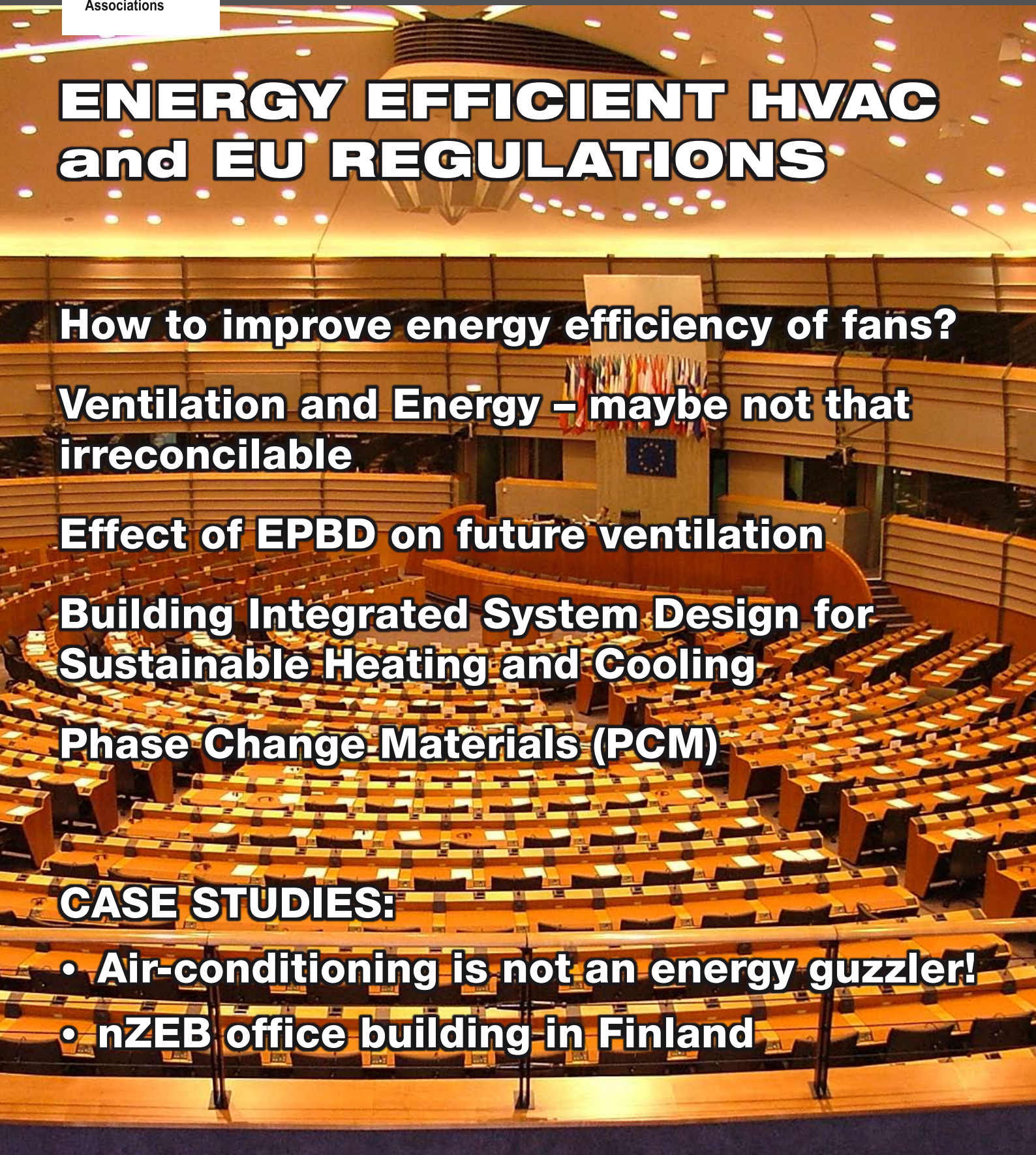

ENERGY EFFICIENT HVAC and EU REGULATIONS

How to improve energy efficiency of fans?

Ventilation and Energy – maybe not that irreconcilable

Effect of EPBD on future ventilation

Building Integrated System Design for Sustainable Heating and Cooling

Phase Change Materials (PCM)

CASE STUDIES:

- Air-conditioning is not an energy guzzler!
- nZEB office building in Finland

INPAL ENERGIE

INPAL ENERGIE is today increasingly dedicated to heating/cooling network projects from biomass and methanation systems and is specialized in network engineering, pre-insulated pipes and accessories' manufacturing for the transportation of high and low temperate fluids.

INPAL has contributed extensively to the project Poligono Industrial – Zona Franca, exploited by the group Dalkia. Indeed the society won an international tender for the construction and exploitation over 30 years of 3 energy and cooling/heating network power plants in the south of Barcelona. Those plants will produce more than 2.9 million of Megawatt of energy, included 56% of renewable ones.

Dalkia will provide the districts of La Marina, the wholesale market of Mercabarna, the international fair of Gran Via de l'Hospitalet and the City Metropolitana. It will be the first heating/cooling network that offers a service of air-conditioning, intended for domestic use.

« Thanks to a better energy efficiency and the integration of solar thermal systems, the project responds to customers' needs and assures a quality service », explains the Veolia Environment subsidiary (34%) and EDF (66%), which is the European leader of energy services for companies and communities

Thanks to the recommended solution, Dalkia will reduce every year the primary fossil energy consumption by 67 000 MWh – equivalent to a 60 000 inhabitant city consumption and the CO_2 emissions of 13 400 tons a year.

Therefore Dalkia has trusted the Spanish subsidiary INPAL ENERGIA which won the tender as a consortium (UTE) with a Catalan construction company. UTE INPAL COPISA is in charge of providing and installing 80% of the delivered pipes (17 km). Among the 20% remaining, after leaving the plant, the consortium also deals with earthwork with trenches that go to a 4 meter deep and a 9 meter width.

Barcelona, through this project and the Cofely network in the northern city, is a pioneer on the cooling/heating network market in the Spanish territory. This market, even though it has not been mature yet, is currently experiencing a whole structuration.

The company benefits from an efficient know-how thanks to a manufacturing process as performing as environmentally friendly. By offering products that optimize overall energy consumption, Inpal contributes to coming generation comfort. With a 30-year old energy expertise and over 10.000 km of installed networks, INPAL ENERGIE today ranks first on the French market and stays a major European actor on pre-insulated piping markets.