



First steps towards nearly zero energy sport buildings

Action plans have been defined for each one of the pilots indicating the energy conservation measures to be implemented within the next 10 years for achieving nZEBs. Various measures have been proposed to improve the energy performance of the buildings. They can be grouped as:

- Building envelope solutions
- Windows and shadow solutions
- Energy generation and thermal storage optimization
- Lighting solutions
- Efficient motors and pumps
- Ventilation solutions
- Building Automation systems
- Renewable energies
- Specific measures for indoor swimming pools: thermal pool covers, heat recovery systems, etc
- Specific measures for ice rinks: refrigeration system solutions, low emissivity ceilings, etc

Some examples of how to reach nZEB

A stratified storage tank system designed by Solvis has been installed in La Bordeta sport complex. This system improves the energy efficiency in the Domestic Hot Water production, space heating and pool heating, increasing considerably the heat storage efficiency. Thanks to this system, Institut Barcelona Esports (IBE), the owner and who financed the implementation of this measure, expects to achieve:

- Over 20% of energy savings
- More than 285.000 kWh/year saved
- More than 60.000 Kg CO2/year saved
- More than 18.800€ /year saved
- Payback period: 3-4 years

How far would you go for Nearly Zero Energy Buildings?

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