

Piraeus Bank



Piraeus Bank is one of the largest private banks in Greece, expected to have 600 branch offices in operation in Greece and the Balkans by end 2007. It is participating in several energy related projects. It has been a Greenlight member since 2002 – and has received numerous National awards.

In 2005, Piraeus Bank joined GreenBuilding as a Partner for the renovation of one of its main office buildings in central Athens. This building with 7 floors above the ground and 5 underground garage floors has a total area of 19.250 m². For the renovation, an energy design study was realised, which included the examination of energy saving potentials for the complete refurbishment of its systems - refrigeration, lighting, shading, control, ventilation and electricity compensation systems. Through the study, the following seven interventions, with the equivalent energy saving, were decided to be realised.

Building data

Heat Recovery

- Heat recovery from conditioned air stream mechanically exhausted from the building

Window shades

- Installation of regulated venetian blinds in the internal space. Control of lighting conditions

Cooling Towers

- Increase cooling tower capacity

Artificial lighting level control

- Utilisation of natural lighting using dimmable ballasts. Sensors used to measure local lighting level

Building Management System

- Installation of BEMS. Monitoring the indoor temperature, humidity etc., and controlling relevant subsystems (heating, cooling, lighting etc.)

Ventilation

- System for measuring the quality of air in the underground parking. It will control fans operation based on the level of pollutant gases (as CO)



Power factor correction

Add capacitor systems at the main electricity supply board

The renovation is expected to be complete by end of 2006 and the total energy savings are expected to exceed 475 MWh / year

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