



New Green Light

Brief efficient lighting project description in TOMO hotel

CASE STUDY



June 2007

Tomo Hotel – brief project description



Hotel TOMO is a three star conference hotel in Riga with 170 luminous and comfortable Baltic style rooms, 6 modern conference rooms, Internet Cafe, Restaurant Firita, fashionable Bar 21 and “Admiral Club 170. The total area of the premises is 6911 m²

In the hallways of the hotel are installed with 4-bulbs 112W luminaries with halogen type bulbs, which are operated 3475 hours per year. These luminaries will be replaced with 156, 26W T5 fluorescent tubes. Then, in the corridors are as well as installed 8 luminaries with four 25W incandescent bulbs each, which will be replaced with 5W CFL.

In the rooms are installed different types of luminaries and bulbs according to room size and type. In total there are 294 luminaries with one 25W incandescent, which will be replaced with 294, 11W CFL.

In the restaurant are installed decorative luminaries with each four 25W incandescent bulbs. These will be replaced with four 7W CFLs.

Lightning in the conference rooms and offices is mainly provided by 294 luminaries with two-60W incandescent bulb each. These bulbs will be replaced with 15W CFL.

Subjected to changes outdoor lightning is represented by 7 350W photo sensor based halogen luminaries. They will be changed to seven 245W bulbs with reflectors and day light sensitivity and/or sensors.

Initial costs are calculated based on equipment price and expenses for labour hours for both before and after costs.

In case if all energy efficiency measures are implemented the following savings can be achieved:

Total annual energy savings: 121500 kWh/year