

Good practices in the Green Office tutoring process

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| Good practice title | Energy audit of the technosystems in the electrical appliances factory building and low voltage products factory building |
| Good practice photo(s) |  <p>ABB electrical appliances factory building</p>  <p>ABB low voltage products factory building</p> |
| Name of Office | AS ABB |
| Type of Office (sector) | Automation and power technologies |
| Website | www.abb.ee |

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| Country | Estonia |
| Tutor name | Evelin-Urbel Piirsalu |
| Environmental aspect/management aspect | Energy |
| Description of good practice (max 250 characters), including the aim of the activity; indicator(s); used measures and tools; results and achievements; communication related activities. | <p>The aim of the good practice was to reduce energy consumption by making technosystems more effective.</p> <p>The indicators are consumption of energy for heating and electricity.</p> <p>To achieve the goal, a number of activities were conducted:</p> <ul style="list-style-type: none"> • Auditing the building systems • Modifying the programs and schedules of the existing building automation system • Automating the heating of the plant • Automating the lighting in dressing rooms, staircases and toilets • Constant monitoring of the systems <p>As a result, the energy consumption for heating has reduced 35% in the electrical appliances factory building and 44% in the low voltage products factory building (2010/2011 vs 2011/2012). Also, the energy consumption for electricity has reduced in the optimized areas (although the techno systems constitute for less than 5% of the total energy consumption).</p> |
| Cost/payback period | The cost for investments was approx. 35 000 EUR for the electrical appliances factory building with a payback time of less than 6 months and approx. 10 000 EUR for the low voltage products factory building with a payback time of less than 6 months. |
| Challenges in implementation | The biggest challenge was the thorough analysis of the systems due to the big size of the factory buildings. |
| Replicability (yes/no) | |