

BALVANYOS GRAND HOTEL ****

At the energy forefront of the
European accommodation industry



Târgu Secuiesc, Covasna

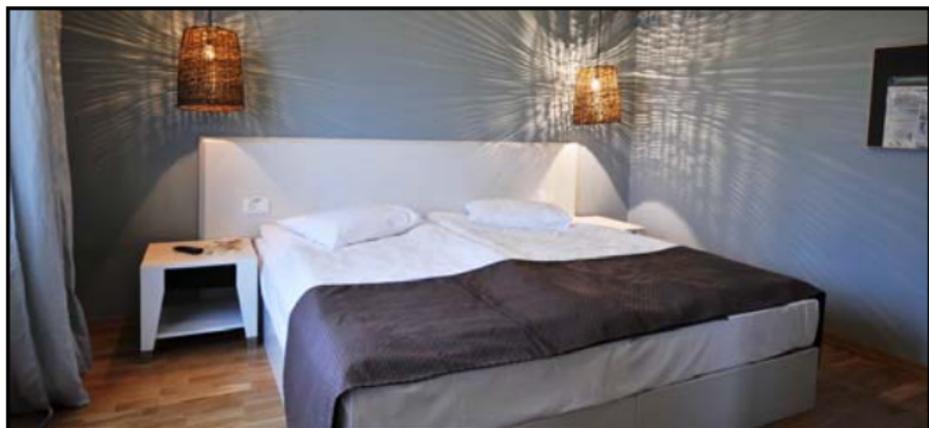


"If we want to maintain a healthy living standard, we must adopt decisive measures to protect the natural environment, to allow it to regenerate in order to furtherly provide us the resources on which we depend."

Olimpia GASZPAR, Operation Manager

BALVANYOS GRAND HOTEL****

Located in the middle of the forests surrounding St. Ana Lake, developed and renovated in a contemporary and innovative style, Balvanyos Resort offers an elegant and friendly setting for events and conferences, as well as for relaxation.



Balvanyos Grand Hotel has 110 rooms with a spectacular view of the mountains and 4 conference rooms. These rooms ensure the ideal context for workshops, business meetings, team buildings, receptions and other private or corporate events, for up to 200 participants.



A nearly Zero-Energy Hotel (neZEH) is a hotel that has a very high energy performance. The nearly zero or very low amount of energy required should be covered to a very significant extent by energy from renewable sources, including energy from renewable sources produced on-site or nearby.



...a hotel engaged to becoming neZEH

The responsibility of a healthy and sustainable environment, under the “nearly Zero Energy” concept, is one of the Balvanyos Grand Hotel management objectives.

Together with our partners -the neZEH team- we identified through the building’s Energy Audit the necessary measures leading us to reach our goal.

HELP US SAVE ENERGY...

We have electricity disconnecting systems, for the rooms’ vacancy period.

We switched from inefficient lighting to LED technology.

At the SPA centre we implemented the building management system - BMS (auto centralized heating, ventilation, air conditioning and lighting, based on energy efficient consumptions and comfort). We plan to extend this measure to the entire hotel.

The high efficiency gas cogeneration system was set up and the hot water pipes were insulated.

We have installed pumps with frequency converters on the entire system.



TOWARDS NEARLY ZERO ENERGY

To become a neZEH, the Balvanyos Grand Hotel is engaged in a long term process, involving several actions:

- **RES Electricity:** Photovoltaic panels (12% savings)
- **RES Heating:** Solar collectors for hot water on the roof (35,1% savings)
- **Efficient lighting:**
 - Change inefficient lighting to LED technology (3,7% savings)
 - Smart sensors on lighting circuits (savings 1,1%)
- **Building insulation** (15,6% savings)
- Insulation of Hot Water Pipes (5,2% savings)
- Implement and actively use **BMS** (17,2% savings)
- **VSD** on water pumps (0,3% savings)



BENEFITS FOR OUR GUESTS

- The guests' rooms meet high standards of indoor environmental quality, thanks to the thermal insulation of the building and air-tightness. The temperature fluctuations are minimized and outdoor pollutants stay out of the building.
- Our improved air-ventilation system ensures that the air in all the spaces of the hotel is fresh and clean.
- Our guests can participate in various activities aimed to improve their way of living. We have an Adventure Park, especially designed for exercising within the nature. We organize short trips for our guest to grasp the spectacular natural rarities surrounding our area, in order to provide experiences full of energy, in a natural and healthy environment.

BENEFITS FOR THE ENVIRONMENT

Our hotel saves energy, natural resources and battles climate change!



1781 MWh of energy saved per year



400 tCO₂ e/year of Greenhouse Gas emissions avoided



680 MWh of energy from renewable sources produced per year



**BALVANYOS
RESORT**

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Through the European Initiative nearly Zero Energy Hotels (neZEH) our hotel gained access to technical expertise and received energy audits recommending technical solutions, feasibility study for decision making, advice on funding, training for staff and marketing tools, towards becoming a neZEH.

www.nezeh.eu



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