

# Solar Thermal Case Study

Hunguest Grandhotel Galya, Galyatető



Location: Galyatető, Hungary

System Type: DHW and Pool Heating



Building Use: Hunguest Grandhotel Galya, Galyatető

Designed & Installed By: Ciklon-Solar Kft.

*System Description:* Constructed in the spring of 2009, this system was designed to produce domestic hot water for the hotel as well as heat their 150m<sup>3</sup> pool with excess heat. Consisting of 30 Apricus AP-20 Evacuated Tube Collectors, the system sits on top of the east wing of the building, stretching across the roof in two rows. The systems pumps, pipes and heat exchangers were carefully designed to have the capability of serving a larger system to accommodate future expansion. For controlling and supervising the system, there is a Sorel TDC4 temperature difference controller in charge.

*Feedback:* In the course of 18 months (June 2009 - December 2010), the system produced 62,400kWh of heat, saved 7,340m<sup>3</sup> of natural gas and prevented 13 tons of carbon dioxide from entering the atmosphere.

