

Solar Thermal Case Study

Hunguest Hotel Pelion, Tapolca



Location: Tapolca, Hungary

System Type: DHW and Pool Heating

Building Use: Hunguest Hotel Pelion, Tapolca

Designed & Installed By: Ciklon-Solar Kft.



System Description: 24 Apricus AP-30 Evacuated Tube Collectors are placed in two rows on top of the roof of the hotel's new conference center. Installed in 2009, this system was designed for the production of domestic hot water. After heating the primary storage tanks, the system stores any unused heat in puffer storages. If needed, these puffer storages can produce DHW, but if this is not necessary, this excess heat can also be used to heat the hotel's two swimming pools. 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 of the system, a Sorel TDC4 and a Sorel STDC temperature difference controller is installed.

Feedback: In 2010, the system produced 60,400kWh of heat, saved 7,100m³ of natural gas and prevented 12.6 tons of carbon dioxide from entering the atmosphere.



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