

The 17.5 MW Velika Ciglana geothermal power plant starts operation in Croatia

Croatia's first geothermal power plant has started operation. The 17.5 MW Velika Ciglana geothermal power plant was supplied by Turboden and is now the largest ORC system in the EU. The plant was developed and is operated by Geoen-MB Holding.

As announced on its website, Turboden has started-up the largest ORC system in Europe of 17.5 MWe in the Velika Ciglana geothermal power plant, Croatia, for Geoen – MB Holding.

The Velika Ciglana project exploits steam and hot water at 170 degrees Celsius to produce electricity to feed the local power grid.

Mr. Paolo Bertuzzi, Turboden CEO, states: "First of all, I want to thank all Turboden employees who took part of this new success and also Geoen – MB Holding team for the close cooperation during the development phases of this project. The strong commitment of Turboden in realizing dependable and efficient geothermal solutions has been confirmed by the implementation of the nominal test in a short time."

The region of Velika Ciglana is situated in Bjelovar subdepression, the north east of Croatia.

The reservoir was discovered in 1990 by INA-Naftaplin, during an underground exploration for oil. The oil was never found, instead, a promising potential for geothermal energy was discovered.

Velika Ciglana project, with the 17.5 MW ORC turbine (5 stage, low rpm, proprietary design), proves the technological reference of Turboden as main producer of large binary ORC plants. The installed capacity is expected to growth due to a further similar projects.

To date, Turboden fleet counts more than 370 ORC plants worldwide with a total capacity of 604 MWe.

Fourteen plants exploit a geothermal source to produce electric power reaching 110 MWe globally. These data confirm Turboden success with field-proven performances and reliability.

Turboden – Geoen/ Velika Ciglana case study (<https://www.turboden.com/case-histories/1455/geoen>).

The project has been a joint venture between Zagreb/ Croatia-based GEOen and Turkish group MB Holding, which also has a geothermal plant in Turkey.

ThinkGeoEnergy congratulates Dragan Jurilj and his team for this accomplishment.

Source: Company release (<https://www.turboden.com/press/press-releases/2280/turboden-completed-the-commissioning-of-the-175-mwe-velika-ciglana-geothermal-plant>)

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