

Impressive performance at Győr^ho, Hungary

By Tapani Porre,
Project Manager,
Wärtsilä Finland Oy



Fast-track solutions are becoming one of the power industry's main drivers. There are many reasons behind this trend, ranging from regional power crises to last-minute business decisions by power or industrial companies.



The Győr^ho combined heat and power (CHP) plant, which supplies power to the city of Győr in Hungary and heat to the city's district heating system, is an example of fast-track supply in two phases. The total plant features three Wärtsilä 18V34SG gas engines, which produce an aggregate output of 17 MW_{th} and 18 MW_e.

The first two engines were supplied to the site in the summer of 2002 and phase one was handed over in November 2002. The third engine for phase two was delivered at the beginning of June 2003. The whole power plant became fully operational in early November 2003.

A 5-year maintenance agreement was included in the contract. The operation supervision from Wärtsilä ensured smooth and trouble-free operation from the very beginning.

Adapts automatically to varying conditions

The CHP plant was engineered, supplied, built and started up in close teamwork involving the Győr^ho district heating company, Wärtsilä and the contractors. Commenting on the Wärtsilä solution, the client specifically singled out the careful design of the complex but flexible heat recovery automation system, which contributed significantly to the plant's rapid commissioning.

The heat recovery system is designed to allow continuous operation and automatic adjustments to varying district heating water and ambient temperature conditions. The carefully designed instrumentation and pro-active logics immediately adapt to prevailing conditions, keeping the

performance of the plant at an optimal level in a wide range of conditions.

Highest availability in Hungary

"The Győr^ho gas power plant is the first in Hungary to be self-financed, i.e. through its own capital and bank loans," states Miklós H. Szováti, Managing Director of Győr^ho Kft.

"The local district heating system has supplied 260 MW of heat for local consumers in Győr since 1969. The new gas power plant, with an output of 18 MW of electricity and around 17 MW of heat power, meets our summertime heating needs. Since coming on stream in November 2002, it has performed to our complete satisfaction with 97.7% availability and 99.3% reliability.

"More than 150 gas-engine power plants have been installed in Hungary since 1989, giving a total power output of around 180-200 MW. The gas power plant in Győr has the highest output and also the best availability," he adds. ■

(Read more about this installation in Energy News Issue 16, May 2003.)