

ENERGY
ENVIRONMENT
ECONOMY

CASE GYŐR-SZOL: A MAINTENANCE AGREEMENT ENSURES PLANT AVAILABILITY



The Hungarian company GYŐR-SZOL Zrt. owns a combined heat and power (CHP) plant, which supplies power to the public grid in Hungary and heat to the district heating system in the city of Győr. The Wärtsilä plant was commissioned in two phases, starting with two engines in 2002 and finishing the year after with one more engine. A 15-year maintenance agreement was included to ensure smooth and trouble-free operation from the very beginning.

– We wanted to have a maintenance agreement for the brand new engines in order to ensure the highest possible technical availability, says István Fejes, Power Plant Manager for Győr-Szol power plant.

In total the Győr-Szol power plant features three Wärtsilä 18V34SG gas engines, which produce a combined output of 17.7 MW of heat and 18 MW of electricity.

The combined production of heat and electricity requires almost 30 per cent less fuel when compared to generating the same amount of heat and electricity separately. The lower fuel consumption also leads to reduced emissions.

AWARD WINNING POWER PLANT

The cogeneration plant simultaneously produces heat and electricity with a higher

efficiency and lower CO₂ emissions than stand-alone generation. The produced heat is supplied directly into the district heating system of the city of Győr. The generated electricity is used by the district heating plant and the rest is fed into the communal electricity grid.

Wärtsilä has been servicing the Győr-Szol power plant under a long-term maintenance agreement since the start in 2002. The CHP plant with Wärtsilä's 34SG gas engines works very well. ■ ■ ■



WÄRTSILÄ

“Our experience is that Wärtsilä’s people are competent, creative and committed to customer support”

– During the plant performance test after the commissioning, all the performance guarantees were realized, and the plant availability has remained at more than 96 per cent, says István Fejes.

The fact that the Győr-Szol power plant is a well-functioning facility has also been noticed by the energy industry. The plant received the “Cogen Plant of the Year” award at the Cogen Hungary (MKET) conferences both in 2010 and 2014. The cooperation of Wärtsilä and Győr-Szol in combination with a long-term maintenance agreement ensures the high availability and reliability, which are significant contributors to success.

GETTING THE STRONGEST TECHNICAL SUPPORT

Wärtsilä covers the maintenance and service of all the equipment in the power plant, except for plant operations which is performed by the plant personnel. Since the Győr-Szol power plant is equipped with Wärtsilä engines it felt only natural to contract Wärtsilä for the maintenance service.

– We wanted to have the strongest possible technical support for the power plant, so Wärtsilä was easily our first choice, says István Fejes who highlights that during the past 12 years of the agreement Wärtsilä’s staff has performed to their satisfaction:

– Our experience is that Wärtsilä’s people are competent, creative and committed to customer support.

István Fejes states that one of the challenges is to keep the downtime, due to engine maintenance, as minimal as possible. This, however, is handled as a joint effort between Wärtsilä and the customer; since the



Challenges	Solution	Benefits
<ul style="list-style-type: none"> – Keeping a high plant availability – Providing the customer with strong technical support 	<ul style="list-style-type: none"> – Signing a long-term maintenance agreement for all equipment in the power plant 	<ul style="list-style-type: none"> – A high plant availability of over 96 per cent – A continuous and reliable operation of the engines

customer’s local support is also needed when optimising the uptime.

WÄRTSILÄ IS WELL PREPARED

Does a long-term maintenance agreement such as this provide the customer with clear benefits? István Fejes says that a clear benefit for them has been the fact that there have not been any situations where it would have been necessary for either party to refer to any part of the agreement during the 12-year agreement period. A mutual open and honest communication has created a partnership that satisfies both sides.

– During the agreement period the contractual essentials have been realized.

This fact means that it is a well-established agreement for both parties.

A Wärtsilä maintenance agreement is designed to support the customer’s business. István Fejes says that Wärtsilä is getting a better and better understanding of their business environment.

– Wärtsilä is able to meet our priorities and our expectations. And because Wärtsilä is certainly well prepared to perform contractual tasks, we can recommend them to other power plant owners who want to ensure high plant availability, concludes István Fejes.