POWER PLANT SOLUTION FOR NLMK URAL IN RUSSIA

In November 2019, the MWM distributor MKS Group of companies, together with the MWM specialists, successfully completed the commissioning of the generating equipment at the power plant for NLMK Ural (NLMK Group), one of Russia's largest enterprises, at its production site in Nizhniye Sergi, Sverdlovsk region.

Design, equipment supply, construction, installation and commissioning of the power plant were completed by the MKS Group of Companies within twelve months from laying the foundation to commissioning.

The power plant functions in cogeneration mode with simultaneous power and heat production. The energy complex houses an MWM TCG 2032B V16 unit and three gas fired hot-water boilers of 7 MW (megawatts) each.

With 4.5 MW general electrical power and 25.5 MW thermal power the power plant became the most powerful gas engine power plant in the Nizhneserginsky district of the Sverdlovsk region.

The total efficiency of the installation amounts to 86.5 percent. The power plant completely covers the demand of the production site's heat consumption as well as 50 percent of the electricity consumption.

The environmentally-friendly power plant will also decrease the greenhouse emissions of the NLMK Ural enterprise by 4,000 tons per year.

Reduced Production Costs and a Short Payback Period

The inauguration of the power plant took place on November 14th, 2019. During the ceremony the power plant was set into operation from the control centre.

"The cheap electrical output and thermal power produced by the MWM TCG 2032B V16 engine allows us to significantly reduce the production costs", says Roman Panteleev, Chief power engineer of NLMK Ural.

"The work was well-organised and co-ordinated, the generating equipment was constructed in a short time". According to calculations, the payback period of the energy centre will be three years."

The MWM gas engines of the TCG 2032 series are perfectly geared to the challenges of a dynamic market environment. The models in the output range of 3,000 – 4,500 kWel meet the high requirements of a broad range of applications and guarantee efficiency, reliability, flexibility and environmental sustainability, together with low lifecycle costs and high profitability.

The TCG 2032B V16 gas engine with a fast ramp-up option allows the operator to switch between normal and fast start.

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> THE CHEAP ELECTRICAL OUTPUT AND THERMAL POWER PRODUCED BY THE MWM TCG 2032B V16 ENGINE ALLOWS US TO SIGNIFICANTLY REDUCE THE PRODUCTION COSTS." - ROMAN PANTELEEV, CHIEF POWER ENGINEER OF NLMK URAL.