Polimex Mostostal S.A. has completed the construction of PGE Gryfino Dolna Odra, the largest gas power plant in Poland.

10/30/2024



On 29 October, a ceremony was held to mark the completion of the construction of the largest gas power plant in Poland and one of the most modern in Europe – PGE Gryfino Dolna Odra.

The new power plant will provide energy security for the region by covering more than five per cent of the country's electricity needs.

The commissioning closes the construction phase of Poland's most modern and largest gas-fired power plant, PGE Gryfino Dolna Odra, with a total capacity of 1366 MW. The new gas-fired units will replace the worn-out and inefficient coal-fired units in the Dolna Odra Power Plant, and are thus part of PGE Group's strategy of decarbonizing its generation assets. At the same time, the new project will strengthen Poland's energy security and ensure stable energy supply for more than 3 million households **– says Dariusz Marzec, President of the Management Board of PGE Polska Grupa Energetyczna.** *– Thanks to its flexibility, i.e. the ability to quickly start up and change the amount of energy produced, the Gryfino project will help meet market demands and help stabilize the electricity grid in Poland and optimize the use of variable energy production from renewable sources* **– adds Dariusz Marzec.**

"We are proud to contribute to the construction of modern Polish power generating industry of the future. Our unique multidisciplinary experience combined with GE Vernova's professional technology support has made the new gas-fired units at the Dolna Odra Power Plant the largest and one of the most modern power engineering projects in the country. This jointly completed project

is our success and another strategic power generating unit in Poland that we have built together for PGE Polska Grupa Energetyczna." **– concludes Jakub Stypuła, President of the Management Board of Polimex Mostostal S.A.**

The power plant consists of two GE Vernova gas-fired units No. 9 and 10, each with a gross capacity of 683 MW. PGE Gryfino Dolna Odra is the largest and most efficient power station of its kind in Poland and one of the most modern in Europe. Its nominal efficiency exceeds 63%, which is more than 70% compared to the old coal-fired units. With the unit's fast start-up and flexible working capabilities, it will support the development of renewable energy sources. The startup time from the cold to the power plant's technical minimum is 4 hours, and 30 minutes from the hot condition to the technical minimum.

The plant has been designed to meet the most stringent emission limits under the BAT conclusions for gas and steam units. The emission of dust and sulphur oxides will be reduced to almost zero, which will significantly contribute to the improvement of air quality in the region. The emission factor of the new power plant is approximately 330 g of CO^2 per kWh of electricity generated, which is almost three times lower than that of the coal-fired units at the Dolna Odra Power Plant.

The capacity of the new power plant has a 17-year contract in the power market auction, which is valid from 2024. The investment, worth more than PLN 3.7 billion net, was made by the PGE Group.

Obrazki galerii:

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Przekazanie do eksploatacji elektrowni
gazowo-parowej o mocy 1366 MW

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250 tys. Nm³
320 kg CO₂/MWh
46 mc
223 MW
0,5 h
4 h
460 MW
63,2 %
95 %
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Przekazanie do eksploatacji elektrowni
gazowo-parowej o mocy 1366 MW
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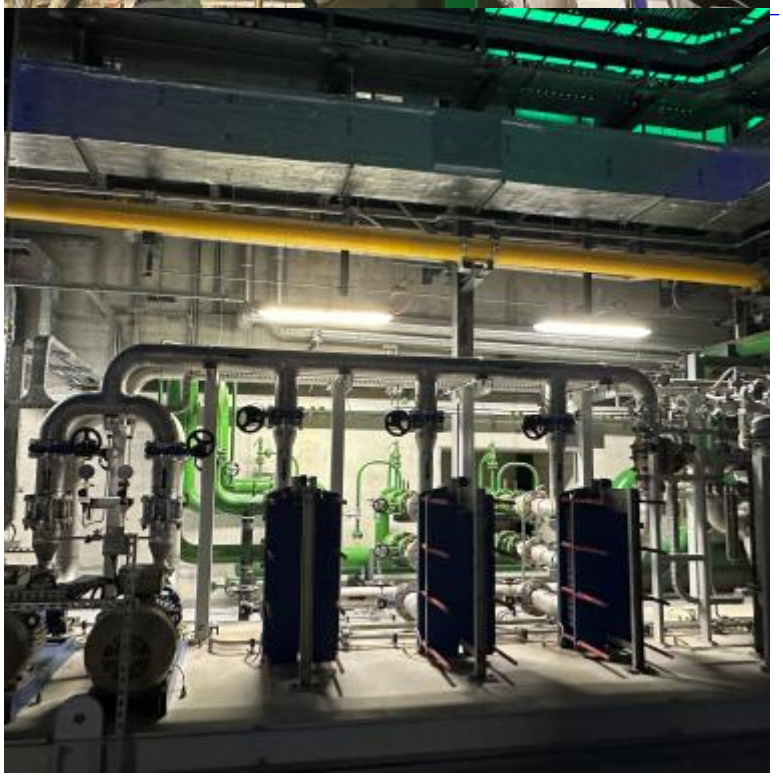
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