First synchronisation of the cogeneration unit at the Bydgoszcz CHP plant

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On 19 February this year, the so-called 'hot commissioning' of a new low-carbon heat source built by the Consortium of Polimex Energetyka and Polimex Mostostal began at the Bydgoszcz II CHP Plant, owned by PGE Energia Ciep?a of the PGE Group, with the first synchronisation of the unit with the power grid. The unit is scheduled for commissioning in the second quarter of 2025.

The synchronisation involved connecting the first of the five gas-fired CHP units to the power grid. This was a key stage in the trials and tests of the new generating unit, during which the proper functioning of the process equipment and systems was checked. Once the synchronisation was correct, a control operation started, during which the rated parameters for electrical capacity (of more than 10.5 MWe) and thermal capacity (of more than 10 MWt) were achieved.

The construction of the new gas-fired unit in Bydgoszcz, carried out by the Consortium of Polimex Energetyka and Polimex Mostostal, is an important investment for the city and its residents. The contract covers the project and turnkey delivery of services and supplies with the intention to install five gas engine-based cogeneration units with a total capacity of 52.6 MWe and 50.8 MWt, as well as a back-up and peak source (gas-fired water boiler, electrode water boiler and gas-fired steam generator) with a total capacity of more than 70 MWt. The new generating unit at the Bydgoszcz II CHP Plant will replace two coal-fired boilers scheduled for decommissioning.

The main contractor for the construction is the Consortium of Polimex Energetyka and Polimex Mostostal. The Jenbacher J920 CHP units were supplied by INNIO Group.

Bydgoszcz

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