The Kozienice Power Plant: base of the turbine set is ready

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It took 21 hours to concrete the top foundation of the turbine set. This is yet another important stage of the construction of the power unit in Kozienice implemented by Polimex-Mostostal.

-– A turbine and a generator will be mounted on the base, i.e. a turbine set, the unit directly producing electricity - Bogusław Piekarski explains, the Vice President of the Management Board of Polimex-Mostostal SA – This is yet another very important step in building the Kozienice block that will enable us to fully continue construction and assembly for a machinery building.

Concreting a base which is 60 meters long, 16 meters wide and 3 meters high lasted, without interruptions, about 21 hours. During that time, using three pumps, 1450 m3 of concrete was built-in. Every 8 minutes a mixer entered the site.

The block in Kozienice will be commissioned in 2017. Its power will be 1075 MW and net efficiency, which will reach 45.59%, will be one of the highest in the world. Polimex-Mostostal, in a consortium with Mitsubishi Hitachi Power Systems Europe (MHPSE), is responsible for the construction, installation and equipment of the new unit. The Employer is a Polish producer of electricity, ENEA Wytwarzanie SA. Laying the foundation stone for the construction of the new block took place on November 21, 2012. Value of the contract is 6.3 PLN million gross.

The Kozienice power unit consists of, among others, a cooling tower with a height of 186 m and a diameter of 148 m. Two basic functions of the object are: cooling water in a closed circuit and discharge of treated flue gas to the atmosphere. The second will be a boiler house, exceeding 100 meters in height, wherein steam required to drive a steam turbine will be produced. Adjacent to the boiler house, there are two communication pylons, already built-in, with a height of 107 m. They will be used by maintenance service. The heart of the power unit is a machinery building, a set of a steam turbine and a generator where electricity is produced, being transmitted to the national grid through a system of transformers via overhead lines.

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