

Agreement No. 73/2014/Wn05/OA-xn-04/D on financial support for the execution of the Project called:
"The Modernisation of the Flue Gas Desulphurisation Plant of
Units No. 5 and 6 in the Belchatów Power Plant"
from the funds of the Norwegian Financial Mechanism 2009 -2014

On 13 March 2014 the Minister of the Environment, represented by the National Fund for Environmental Protection and Water Management, and PGE Górnictwo i Energetyka Konwencjonalna S.A. entered into Agreement No. **73/2014/Wn05/OA-xn-04/D** on financial support in the form of a subsidy for the Project called **"The Modernisation of the Flue Gas Desulphurisation Plant of Units No. 5 and 6 in the Belchatów Power Plant"**. The granted subsidy amounts to **PLN 20 000 000.00**.

The public aid has been acquired from the funds of **the Norwegian Financial Mechanism** and provided within the framework of **Programme PL04** entitled **"Saving Energy and Promoting Renewable Energy Sources"**. The aid has been granted under a decision on the provision of financial support, pursuant to the annex to the Agreement concerning the Programme entitled **"Saving energy and Promoting Renewable Energy Sources"** of 12 July 2013, as amended, as well as the Agreement concerning the Programme entered into between the Financial Mechanisms Committee and the Ministry of Regional Development acting in the capacity of the National Contact Point, as amended, including Enclosure no. 1 to Annex II.

Project's general scope: The modernisation of the flue gas desulphurisation plant of units No. 5 and 6 in the Belchatów Power Plant allows a reduction of SO₂ emissions to the levels required under the IED Directive, i.e. below 200 mg/Nm³, with a simultaneous increase in the sulphur content in the fuel from 0.78% (the average in the years 2009 – 2011) to 1.23% - as of the year 2016. Furthermore, the execution of the Project facilitates a reduction in the emissions of dust, HCl, HF and heavy metals.

Project description: The scope of the Project comprised the modernisation of the flue gas desulphurisation plant of power generation units No. 5 and 6 in the Belchatów Power Plant, in particular the alteration of the absorbers consisting in the installation of an additional sprinkling level in the form of a sieve plate, the replacement of the mist eliminators, the alteration and extension of the oxygenation systems together with the installation of an additional air blower, the modernisation of the sorbent slurry pumps, the release pumps and the other auxiliary pumps with a view to increasing their capacity, the extension of the gypsum dehydration system consisting in the implementation of a new dehydration technology - the replacement of the belt filters with centrifuges, the replacement of the gypsum hydrocyclones system, the extension of the electrical wiring systems, and the replacement of the control and measurement instruments system type RS3 with a system type Delta V for the purpose of its unification with the control and measurement instruments systems used in the other flue gas desulphurisation plants.

Project's total cost: PLN 116 000 000.00
PLN 142 710 750.00 (+VAT)

Amount of financial support from Norwegian Financial Mechanism: The subsidy does not exceed 30% of the total eligible costs of the execution of the Project and is in the amount of **PLN 20 000 000.00**.
The amount of the grant was paid in three tranches.

Project's objectives The main objective of the modernisation of the flue gas desulphurisation plant was air

and benefits: quality improvement by decreasing SO₂ emissions to the level of not more than 200 mg/m³ as required under the IED Directive, which became effective as of 1 January 2016.

Project execution stage: The Project was executed in accordance with the provisions of the Agreement and its annexes and was completed on 29 February 2016.

Website link: www.eeagrants.org



Absorber-level of sieve plate



Air blower



Bottom of absorber



Mist eliminator



Gypsum hydrocyclones



Auxiliary pumps



Sieve plate - sprinkling level