



Luxembourg, 25 October 2024

Environmental and Social Completion Sheet (ESCS)

Overview

Project Name:	MEGATEM HEATING CAPEX PROGRAMME
Project Number:	2018-0379
Country:	Poland
Project Description:	The project concerns the financing of a biomass-fired combined heat and power (CHP) unit in Lublin, Poland. The unit generates heat for the district heating system and electricity for the national grid.

Summary of Environmental and Social Assessment at Completion

EIB notes the following Environmental and Social performance and key outcomes at Project Completion.

The project consisted of a new biomass-fired combined heat and power (CHP) unit comprising a boiler, a steam turbine, and a flue gas condenser to recover the sensible and also latent heat of water. The reported nominal capacity of the plant at project completion is 11.7 MW_e and 39.5 MW_{th}. The competent authority screened out the project from the requirement for a full EIA.

The plant's fuel input capacity is below 50 MW_{th} and as such, the project falls under the Directive (EU) 2015/2193 *on the limitation of emissions of certain pollutants into air from medium combustion plants*. The plants emissions comply with the emission limits in the Directive reflected in the environmental permit issued by the competent authority.

The concentration of SO₂ in flue gases is 0 mg/Nm³, particles around 4 mg/Nm³ (this low value is a result of two stage flue gas cleaning in an electrostatic precipitator and in a flue gas condenser, NO_x 220-260 mg/Nm³. All these values fall below the limits listed by the Directive (EU) 2015/2193.

Flue gas condenser allows for recovery of around 2 500 m³ of water per month which, after purification, satisfies the demand of the CHP unit, the surplus being used in other facilities of the company.

The investment results also in a significant decrease (up to 40%) of solid waste generation in comparison with previously operated coal-fired boilers (decrease by 6 000 t – 7 000 t per year).

No significant environmental or social issues were noted. Promoter has not reported any breaches of contractual undertakings related to biomass sustainability and also concerning certified wood supply chain and the underlying forest management practices.

Summary opinion of Environmental and Social aspects at completion:

EIB is of the opinion based on reports from the promoter and a site visit by the EIB team during construction that the Project has been implemented in line with EIB Environmental and Social Standards, applicable at the time of appraisal.