



Luxembourg, 21 November 2023

Environmental and Social Completion Sheet (ESCS)

Overview

Project Name:	LAHTI BIOMASS CHP PLANT
Project Number:	2015-0636
Country:	Finland
Project Description:	Construction of a new biomass-based CHP plant for Lahti Energia Oy.

Summary of Environmental and Social Assessment at Completion

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

The project included construction of a new biomass-fired boiler and its connection to the existing steam turbine. The resulting Combined Heat and Power facility has capacity of 195 MW_{th} and 50 MW_e. Operating at efficiency exceeding 100%, it generated 670 308 MWh of useful heat and 108 459 MWh of electricity during the first year of operation.

The plant's operation complies with the environmental permit based on the Environmental Impact Assessment of the project. The measures established by the permit to mitigate the investment's impact on the environment include, for example, requirements related to the biomass (e.g., no content of halogenated organic compounds or heavy metals), the requirement to collect wastewater, cooling water and storm water in a controlled manner and treat it and manage to avoid a risk of contamination, flue gas management to comply with the established limits of air emissions, maximum level of noise, and other. No environmental issues were reported by the Promoter during the construction.

The Promoter ensures that the fuel wood is sourced from sustainably managed forests, and also guarantees that (in case the coal or peat is co-combusted with biomass) the cumulative CO₂ emissions over any twelve months period from the plant's operation in a heat-only mode do not exceed 225 g CO₂/kWh_{th}. The Promoter used only biomass during the first years of operation of the unit. The Promoter delivered requested documents to the satisfaction of the Bank, such as the environmental permit, the biomass sustainability policy, and copies of the signed forest biomass sourcing contracts proving the compliance with the undertaking related to biomass contractual agreements.

No significant environmental or social issues were noted.

Summary opinion of Environmental and Social aspects at completion:

EIB is of the opinion based on reports from the promoter during Construction that the Project has been implemented in line/ with EIB Environmental and Social Standards, applicable at the time of appraisal.