

European Investment Bank (EIB)

Luxembourg, 15th December 2017

Environmental and Social Completion Sheet (ESCS)

| Overview | |
|----------------------|---|
| Project Name: | FORTUM CHP PLANT STOCKHOLM |
| Project Number: | 2013-0324 |
| Country: | Sweden |
| Project Description: | The project comprises the design, construction, and operation of a new biomass combined heat and power (CHP) plant including the necessary biomass handling facilities and an upgrading of port facilities. The plant will be located in the city of Stockholm. It delivers heat to the existing district heating system in Stockholm and electricity to the public grid. |

Summary of Environmental and Social Assessment at Completion

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

The CHP plant was implemented in full compliance with the permits of the plant. The project fell under Annex I of the Environmental Impact Assessment (EIA) Directive 2011/92/EU, therefore a full EIA was obligatory in order to get an environmental authorisation for operation.

The plant's permits allow for a fuel mix of biomass, peat and coal, with the last two to be used mainly as a back-up and reserve option. The potential over-use of peat and coal, as well as the sustainability and traceability of the sourced biomass were identified as project risks during appraisal. In order to mitigate these risks and to ensure environmental protection, a comprehensive set of undertakings were deemed necessary. All the undertakings as imposed by the Bank to the Promoter and their status at completion are described below:

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| - During operation: | |
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| Concerning sourcing areas that | at are |
| not yet certified, an independe | |
| external audit report on compli | ance As of today, no audit report has been |
| with the best practices is to be | submitted to the Bank concerning sourcing |
| submitted to the Bank annually | |
| best practices are defined by t | |
| existing most relevant forest | year 96% of the biomass was sourced from |
| management and chain of cus | |
| standards of internationally | from certified forest, no risks embedded in |
| accredited forest management certification schemes. The rep | |
| subject to the satisfaction of th | |
| Bank's Services. | undertaking is deemed necessary. |
| Bank's Gervices. | and taking is deemed needsbary. |
| - Exclusion of natural forest convers | sion |
| and logging of primary moist fores | ts. |
| | |
| | No biomass was sourced from primary moist |
| | forest. |
| Pending Court Case (as described in t | he |
| ESDS): | the The survey of an information of the Deals that the |
| - The promoter undertakes to inform | |
| Bank, immediately after a court de | |
| regarding the pending appeal agai | |
| project's construction permit, abou contents of this decision and poter | |
| consequences to the project. | signature of the Finance Contract. |
| consequences to the project. | |

Moreover, the emissions limit values for the CHP plant in the environmental permit are more stringent than the limit values in the Industrial Emission Directive (IED) 2010/75/EC. Boiler and biomass handling equipment complies with Best Available Technique (BAT) standards. In accordance with the Bank's Carbon Footprint methodology, the operation of the biomass CHP plant results in a net reduction in CO2 equivalent emissions by 406 kt CO2e/yr. At the time of appraisal, the relative emission savings were assumed to be ca.15% greater i) because a higher average plant efficiency during operations was assumed and ii) because the baseline emission was chosen differently, following the Bank's carbon footprint methodology at that point in time.

EIB notes the following key Environmental and Social aspects to be monitored during operations:

In November 2014, a serious workplace accident took place under the responsibility of the subcontractor, performing the assembly of the plant's boiler. Two persons died and one was injured. Works on the site were temporarily stopped and the promoter summoned a crisis group in order to implement corrective measures and to avoid similar incidents in the future.

An investigation of the accident was also initiated right after by the police. However the preliminary investigation by the Swedish public Prosecutor's Office has been on hold for the last two years, awaiting a decision by the Polish prosecutor on whether a prosecution should be initiated in Poland or not. The Swedish public Prosecutor's Office has assisted the Polish investigation with fact finding and securing evidence but a decision to prosecute in Poland may result in a decision to suspend the preliminary investigation in Sweden.



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The Bank has informed the promoter on its intention to keep receiving updates regarding this matter also after project completion.

Summary opinion of Environmental and Social aspects at completion:

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