

Public

Environmental and Social Data Sheet

Overview

Project Name: TAPOJARVI ITALY
 Project Number: 2021-0237
 Country: Italy
 Project Description: The project covers the promoter's investment in an innovative slag processing and valorisation plant as well as its initial testing and ramp-up phases with the aim to transform the slag into valuable by-products and to avoid landfilling. The slag originates from an existing stainless steel manufacturing plant. The project will be carried out in Italy in the period 2019-22.

EIA required: no

Project included in Carbon Footprint Exercise¹: no

(details for projects included are provided in section: "EIB Carbon Footprint Exercise")

Environmental and Social Assessment

Environmental Assessment

The project concerns the implementation of a new innovative slag processing and valorisation plant for the treatment of slags from stainless steel manufacturing including auxiliary machinery and equipment. It covers as well its initial testing and ramp-up phases.

The new plant will be implemented in the existing stainless steel manufacturing site in Terni (Italy) and has two main aims. First, to recovery the metal from the slag for recycling in the stainless steel plant and second, to treat the remaining part of the slag either to prepare for landfilling or transform into valuable products / by-products. All these activities will be executed within the existing stainless steel plant. Today, only the metal is recovered and all the remaining slag is landfilled as non-hazardous waste. Part of the project consists of replacing and modernising the existing slag processing operations, namely the metal recovery and slag preparation before landfilling. The landfilling is not part of the operations. This will be done by investing in new equipment and machinery and by implementing those activities inside industrial buildings, which is not the case today. This will entail significant improvements in terms of dust and noise emissions. These activities do not fall under Annex I or Annex II of the EIA Directive 2014/52/EU amending the Directive 2011/92/EU. The promoter did receive an Autorizzazione Integrata Ambientale (AIA) for the implementation of the metal recovery and slag treatment plant. However, one of the main goals of the project is to implement an innovative slag treatment processes that will enable to transform the slag that is landfilled today into valuable products. In Italy, stainless steel slag is considered to be

¹ Only projects that meet the scope of the Carbon Footprint Exercise, as defined in the EIB Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: 20,000 tonnes CO2e/year absolute (gross) or 20,000 tonnes CO2e/year relative (net) – both increases and savings.

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a non-hazardous waste. In order to receive the authorization to recover or transform this slag or 'waste' for subsequent sale on the market an End-of-Waste (EoW) status needs to be defined and achieved. The achievement of this status is subject to a screening in accordance with the EIA Directive 2014/52/EU amending the Directive 2011/92/EU. The competent authorities decided to screen out the project and hence no full EIA is required. The project will entail an amendment of the existing Autorizzazione Integrata Ambientale (AIA) from the promoter, which will define in detail all End-of-Waste criteria for the plant's operation and products.

As far as applicable, all components of the project will be in line the respective Best Available Techniques (BAT) conclusions. Overall, the project will have the following beneficial environmental impacts:

- Reduce the landfilling of non-hazardous wastes, slags for instance, stemming from the stainless steel manufacturing and hence reduce the amounts of waste produced.
- Transform these slags into valuable products that will replace primary raw materials as for example construction aggregates and hence contribute to circular economy and resource efficiency.
- Reduce dust and noise emissions of the slag treatment and metal recovery operations significantly.
- Reduce water consumption if compared to the traditional slag treatment processes in place today.

Other Environmental and Social Aspects

The promoter has clear corporate governance structures and practices with regard to corporate social responsibility and this is entrenched in the company culture. The promoter is mainly active as an industrial service provider in the mining, ferrous and non-ferrous metals sectors. It always operates at a minimum in compliance with the relevant environmental and operational health and safety certifications and procedures of the corresponding manufacturing site. In this project the specific site is certified OHSAS 18001 regarding operational health and safety matters and in compliance with ISO 14001 environmental management systems. The project will lead to a considerable reduction of noise and dust emissions of a manufacturing site located very close to, or almost inside a city.

Conclusions and Recommendations

The residual environmental impact of the project is expected to be limited, whereas some outcomes will contribute to increased resource efficiency in stainless steel manufacturing and the construction industry, reduce the landfilling of slags/wastes and significantly reduce dust and noise emissions. The project adheres to the conclusions of Best Available Techniques (BAT) as adopted by the European Commission for the iron and steel production. The implementation of the equipment did receive an integrated environmental permit (AIA) in 2019. The transformation of the slag into valuable products was subject to a screening according to the EIA directive and was screened out by the local competent authority. The final approval of the End-of-Waste status requires an amendment of the existing AIA. The financing of the project will hence be subject to a disbursement condition. Therefore, the project is considered acceptable for Bank financing in environmental and social terms.

Disbursement condition:

1. The disbursement of the loan is subject to the reception, to the satisfaction of the bank, of the application for the revision, of the Autorizzazione Integrata Ambientale (AIA) of the promoter's operations at the Terni site in relation to the End-of-Waste status of the processed slag.



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Contractual Undertaking:

1. Send to the bank as soon as available the revised Autorizzazione Integrata Ambientale (AIA) of the promoter's operations at the Terni site in relation to the End-of-Waste status of the processed slag.