

Public

Environmental and Social Data Sheet

Overview

Project Name:	VALORISATION MATIERE & ENERGIE GRAND PARIS
Project Number:	2014-0113
Country:	FRANCE
Project Description:	Design, construction and operation of a large-scale waste-to-energy plant with a nominal capacity of 350000 t/year, co-generating heat and electricity replacing an old incinerator reaching the end of its economic life. The plant will be located at Ivry-Paris XIII Paris, France.
EIA required:	yes
Project included in Carbon Footprint Exercise:	yes

Environmental and Social Assessment

Environmental Assessment

This project concerns the design, construction and operation of a large-scale waste-to-energy plant with a nominal capacity of 350000 t/year, generating 63 GWh/year of electricity and 734 GWh/year of steam which will be injected into the network of the the “*Compagnie Parisienne de Chauffage Urbain*” -CPCU- (Paris public heating company). This waste-to-energy plant will replace the existing incinerator (with double capacity) reaching the end of its economic life. The plant will be located in Paris XIII, adjacent to the old plant which will be demolished as soon as the new one will start operation.

Due to its technical characteristics, the project is subject to a mandatory EIA. The environmental scoping has been undertaken in close collaboration with the public in general and with the city of Ivry-Sur-Seine in particular. In effect, between 2003 and 2006 the first public consultation concerning this project was taken place. Furthermore, in December 2009 the first public debate was carried out under the auspices of the “*Commission Nationale du Débat Public*” –CNDP- (National Commission for Public Debate). In 2016, the CNDP considered the Syctom report on the 3rd post-debate consultation as final. According to the final report, Syctom had to incorporate all recommendations in the final scope of the project to avoid any further public debate on this matter. Those recommendations included respectively –among others- information policy and dialogue with the public.

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The project will be located adjacent to the current incinerator at Ivry Paris XIII. The facility is located partly in the 13th arrondissement of Paris and partly in Ivry-sur-Seine, in the middle of an industrial zone. In effect, the future Ivry-sur-Seine site is part of a rapidly changing urban landscape. Many surrounding projects are currently being implemented, such as the new Masséna district, part of the urban development project "Paris Rive Gauche". The specific aspects of the location have been considered in the final design of the plant.

The project's main expected environmental impacts assessed in the environmental studies submitted to the public Authorities include flue-gas emissions, dust, odour nuisance, noise, wastewater, steam water, increased traffic during construction, visual impact and demolition of the old plant. The assessment concludes credibly that these impacts will be unlikely to cause any significant negative residual effects to the environment. The project will comply with the atmospheric emission limits for air pollutants as defined by the Directive 2010/75/EU on Industrial Emissions.

The plant includes very innovative features. More specifically, the plant is designed to process waste streams with different types of calorific values. Thus, the plant is easily adaptable to process biomass, Refuse Derived Fuel (RDF), Solid Recovery Fuels (SRFs) etc. in the long term, with a view to reducing the tonnages of household waste. In addition, the discharge of treated industrial water will be considerably reduced and the installation of an aero-condenser will replace the current hydro-condenser, avoiding the use of water from the Seine river for process purpose. The design of the Waste-to-Energy plant prevents any risk of odours spreading into the environment. In effect, the odour-causing areas (waste delivery area, bunker, etc.) will be kept in a vacuum in order to confine the nuisance. Finally, Syctom is exploring an innovative process to use CO₂, exhaust gas from incineration process to cultivate microalgae, which will then be transformed into biomaterials (bioplastic, bio-fuel). The EIA has been finalised and approved on 2nd August 2018 by the Public Authorities and the prefect issued the construction permit on 28th September 2018.

EIB Carbon Footprint Exercise

The baseline for calculating the emission for the plant is a basic MBT with a nominal capacity of 350000 ton/year. The emissions factor for WtE have been calculated assuming that 44% of the energy input is of fossil origin. As a result, estimated annual emissions of the incinerator 152.8 kt CO_{2eq}/year. Relative emissions are calculated at -92.6 kt CO_{2eq}/year respectively.

Public Consultation and Stakeholder Engagement

The project was subject to public consultation under the auspice of the "Commission Nationale du Débat Public" –CNDP- (National Commission for Public Debate). As a result, Syctom have agreed to consider key recommendations in the final scope of the initial project submitted. They include:

- a reconfiguration of the treatment of the organic fraction of waste; increased space for bio-waste collected separately by households, replacement of MBT

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by a MRF, abandonment of the bio-methanisation plant at the same site and outsourcing of the bio-methanisation plant;

- a greening of the architectural envelope, with an architectural bias in line with the site's industrial identity.

Conclusions and Recommendations

The Project complies with relevant provisions of the environmental EU Directives, including EIA (2014/52/EU amending 2011/92/EU), Habitats (92/43/EEC) and Birds (2009/147/EC) Directives as transposed into the national law.

On the basis of the above, the Bank will require the following environmental and social undertakings in its finance contract:

Undertakings

- The promoter shall respect the conditions related to construction and demolishing permit.
- To guarantee the environmental sustainability of the project the promoter shall stop the operation of the co-located existing incinerator as soon as the project is operating.

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