



Luxembourg, 30.10.2023

## Environmental and Social Completion Sheet (ESCS)<sup>1</sup>

### Overview

Project Name:	HERA ENVIRONMENTAL&CIRCULAR ECONOMY INITIATIVES
Project Number:	2016-0029
Country:	ITALY
Project Description:	Investments in waste collection, treatment and disposal activities
EIA required:	This is multi-scheme operation. Some of the schemes may require an EIA under Annex I or Annex II ("screened in") of the EIA Directive.

### Summary of Environmental and Social Assessment at Completion

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

The Project was implemented by Hera S.p.A. one of the largest Italian multi utilities and Herambiente S.p.A. - Hera's subsidiary operating in the waste management sector ("the Promoter"). The scope of the investment programme comprised nineteen schemes in the area of waste management including: (i) waste collection, (ii) bio waste treatment, (iii) recycling and recovery (iv) waste incineration, and (v) landfill disposal.

The Project components were developed in line with relevant national and regional waste management strategies with ambitious targets for separate collection and recycling, and respond to new market opportunities for treating commercial and industrial waste. The regional waste management plan in Emilia Romagna, where most of the project components have been implemented, has been subject to a Strategic Environmental Assessment.

The Project components aimed to ensure long term compliance with the environmental standards, increase recovery of both materials and energy from residual waste and reduce emissions and climate change impact. The Project components contribute to compliance with the Waste Framework Directive (2008/98/EC) and the Landfill Directive (1999/31/EC) by ensuring continued diversion of waste from landfills and by increasing materials and energy recovery from waste.

About half of the Project components relate to upgrades and modernisations of existing plants and did not require environmental impact assessments (EIA). However, some new facilities or major upgrades at existing plants fell under Annex II of the EU EIA Directive 2014/52/EU (amending 2011/92/EU) and were screened in by the competent environmental authorities, as summarised in the table below.

The Project had positive environmental impacts by reduction of emissions, recovering renewable energy from waste and production of bio-methane for injection into the gas grid. The Project thus reduced emissions of greenhouse gases and contributed to mitigation of climate

<sup>1</sup> The template is for ILs and FLs



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change. The Project also had significant positive social aspects considering its employment and economic impact.

A detailed summary of the project scope and indication of the schemes requiring EIA screening and Natura 2000 Appropriate Assessments is provided below.

No	Project component	Location	Project scope	EIA status	Natura 2000 status
<b>Waste collection</b>					
1	Pay As You Throw project	Provinces of Bologna, Modena, Ravenna, Ferrara, Forli-Cesena, Rimini	Different equipment to implement the PAYT project	EIA not required	Not applicable
<b>Bio-waste treatment</b>					
2	Anaerobic digestion and biomethane upgrade plant	Sant'Agata Bolognese (Bologna)	4 semi-dry digestors of 25 kt/yr 1 water pressure biomethane scrubber	EIA required and permit granted	Appropriate Assessment identified no significant impact
3	Adjustment of Tremonti mechanical biological treatment plant; Biological Treatment - stabilization/composting	Imola (Bologna)	Construction of composting tunnels as replacement for the current bed composting	EIA required and permit granted	Appropriate pre-Assessment identified no significant impact
4	Adjustment of composting plant	Ozzano Emilia (Bologna)	Reduction of uncontrolled odour emissions	EIA not required	Not applicable
5	Biomethane Italia project	Spilamberto	New anaerobic digester, biogas up-grading and composting plant	EIA not required	Not applicable
<b>Recycling and recovery</b>					
6	Allimpet - new PET line	Borgolavezzaro (Novara)	New PET bottle washing line with reduction in energy recovery and waste generation	EIA required and permit granted	Not applicable
7	3 new glass recycling lines	Coriano (Rimini), Modena and Bologna	Glass recycling lines	EIA required and permit granted for Rimini and Modena EIA not required for Bologna	Not applicable
8	Waste recycling, improvement of biological purifier	Castelfranco di Sotto, S.Croce sull'Arno (Pisa)	Waste recycling, improvement of biological purifier	EIA not required	Not applicable
9	Upgrade of SRF production facility to improve SRF quality	Castiglione (Mantova)	Upgrading of existing SRF production plant to improve the quality of SRF	EIA not required	Not applicable
<b>Incineration</b>					
10	Extraordinary Maintenance of waste to energy plant in Bologna	Granarolo dell'Emilia (Bologna)	Installation of heat exchanger to improve the deNOx performance, replacement of superheaters, inconel cladding and lining of boilers.	EIA not required	Not applicable
11	Bologna waste to energy plant iron recovery unit	Granarolo dell'Emilia (Bologna)	New iron recovery facility	EIA not required	Not applicable
12	Replacement of boilers at the waste to energy plant	Pozzilli (Isernia)	New boiler and superheaters to reduce corrosion and fouling	EIA not required	Not applicable
13	The upgrade of hazardous waste incinerator F3 plant with adaptation to best available techniques (BAT)	Ravenna	Upgrade of 20 years old hazardous waste incinerator to BAT. New SCR deNoX, modification of feeder and combustion chamber, upgrade of slag extraction and iron recovery, coating of oiler with inconel.	EIA required and permit granted	Appropriate Assessment identified no significant impact
14	Extraordinary maintenance on five waste to energy plants	Ferrara, Forli, Ravenna, Rimini, Isernia	Replacement of superheater/economizer, flue gas treatment equipment, refractory lining and cladding and furnace grate	EIA not required	Not applicable
15	Upgrade line 2 waste to energy plants	Trieste	Installation of new furnace and boiler in line 2 with expansion of capacity and upgrade of flue gas treatment system	EIA required and permit granted	Appropriate Assessment identified no significant impact
<b>Landfill disposal</b>					
16	Landfill mining and expansion	Finale Emilia (Modena)	70% municipal solid waste and 30% other wastes. All municipal solid waste will be managed during the installation	EIA required and permit granted	Appropriate Assessment identified no significant impact
17	New biogas engines at Tremonti Landfill	Imola (Bologna)	3 new biogas engines complementing the existing 2 biogas engines on Tremonti landfill	EIA required and permit granted	Appropriate pre-Assessment identified no significant impact
18	Dismantling of tanks and removal of inert materials at Tremonti Landfill	Imola (Bologna)	Replacement of leaking leachate storage tanks	EIA required and permit granted	Appropriate pre-Assessment identified no significant impact
19	Rainwater storage system	Ravenna	Storage and pretreatment of rainwater falling on covered landfill to reduce solid and sediments in liquid emissions	EIA not required	Not applicable

### 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. EIA reports have been submitted for projects for which this is relevant, as requested.