## THE COMPARTO AMBIENTALE RAVENNA DATA SHEET

The **Comparto Ambientale Ravenna** (Ravenna Environmental Hub) has been established through the environmental recovery and productive redevelopment of the Ca' Ponticelle former industrial area, which extends across a total area of 26 hectares. The site brings together Eni Rewind's soil bioremediation plant, dedicated to treating soil from environmental remediation activities; an industrial waste treatment and storage platform, constructed and operated by HEA, a joint venture between Eni Rewind, which owns the area, and Herambiente, a Hera Group company specialising in industrial waste management and remediation; and a 6 MWp photovoltaic plant operated by Plenitude.
The project began in 2019, when Eni Rewind launched the environmental remediation works.
In 2021, the Permanent Safety Measures (MISP) for the area were completed. In 2023, following the update of the Municipality's Urban Planning Implementation Plan, construction of the plants began and completed in 2026.
In 2024, the photovoltaic plant operated by Plenitude, Eni's company active in renewable power generation, came onstream.

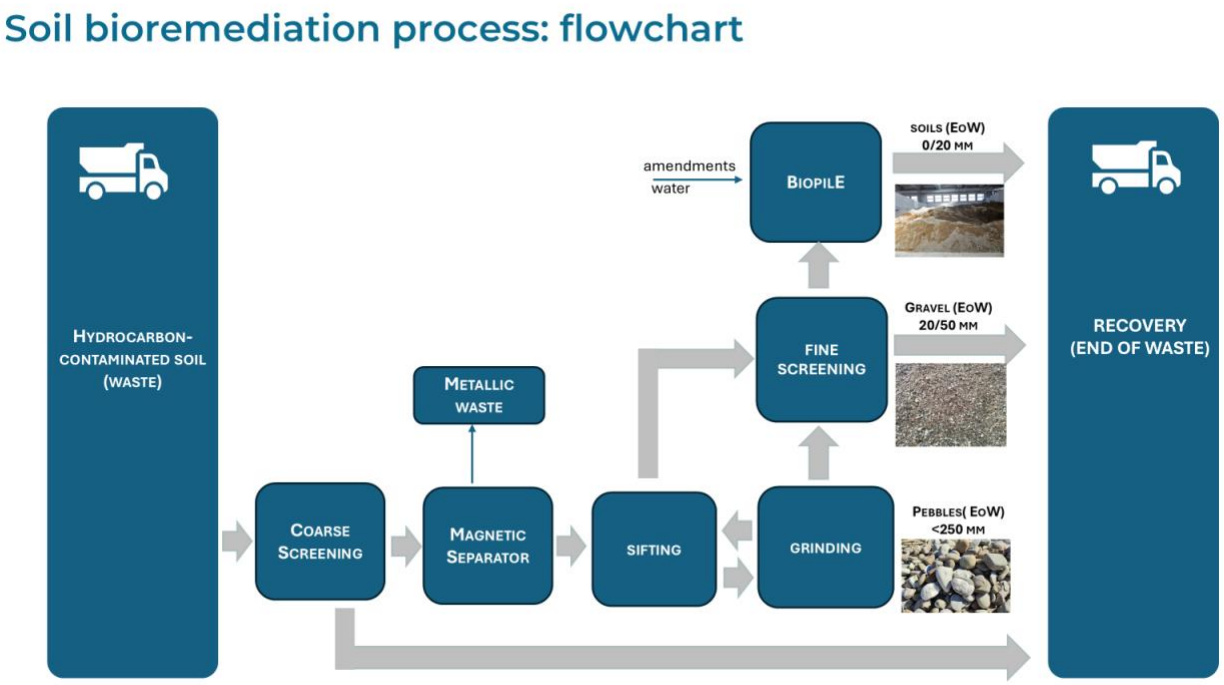

## THE SOIL BIOREMEDIATION PLANT

Built and operated by **Eni Rewind**, Eni's environmental company specialising in remediation and in the treatment and recovery of water and waste, the plant can process up to 80,000 tonnes of soil per year from environmental remediation activities, enabling its reuse in line with a circular economy model.
The bioremediation plant mainly treats hydrocarbon-contaminated soil from environmental remediation activities. It relies on a biological biodegradation process that makes use of, and enhances, the natural degradative capacity of indigenous microorganisms already in the soil, which use the pollutants as a source of nutrients. Once treated, the soil can be reused as backfill at remediation sites, reducing the need to extract virgin materials from quarries.
The process progressively reduces contaminant concentrations, helping to restore the conditions required for the balanced regrowth of the microorganism population to levels comparable with those before contamination. To ensure process compliance and monitor material flows, a dedicated on-site chemical laboratory will be operated by LabAnalysis Environmental Services, a company in which Eni Rewind holds an equity stake.

1) **Soil bioremediation (biopile) treatment**

Hydrocarbon-contaminated soil classified as waste can be treated and recovered by harnessing the natural ability of microorganisms, such as bacteria and fungi naturally present in the subsoil, to break

down organic matter through biological degradation processes. The soil is arranged in uniform piles, known as biopiles, fitted with internal air-injection pipes that allow air from the external environment to circulate through the material, supplying oxygen to the bacteria and stimulating microbial activity. Bioremediation treatment enables treated and decontaminated soil to be reused, reducing landfill disposal and limiting the consumption of virgin resources.

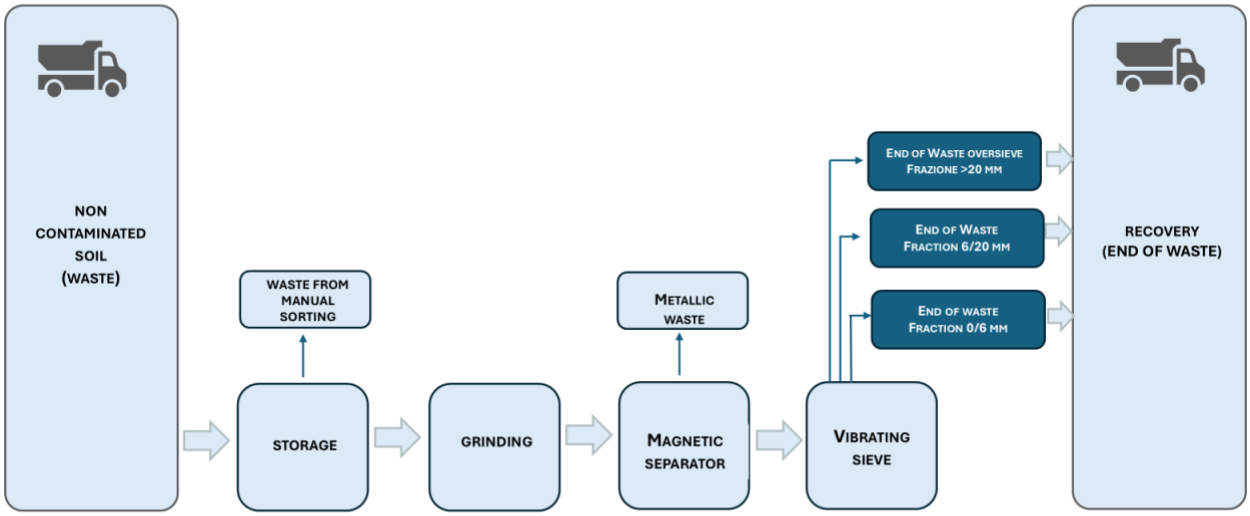



**2) Soil mechanical treatment**

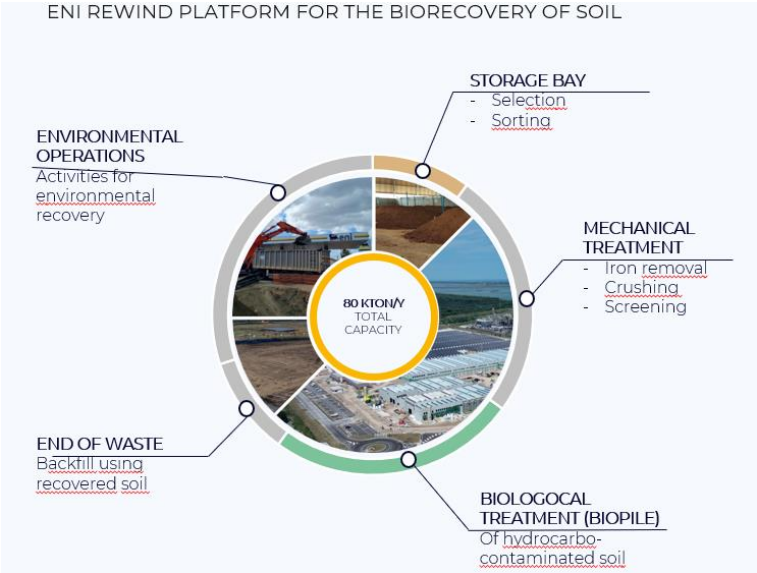
Soil that is not contaminated with hydrocarbons, but is classified as waste, undergoes a mechanical treatment process involving crushing, screening and homogenisation. This process produces two distinct end-of-waste materials: pebbles and gravel.

**Mechanical Treatment Process: Flow chart**

## Mechanical soil treatment process: flowchart




**LabAnalysis Laboratory**
The platform also includes a laboratory that carries out analytical checks to verify the compliance of waste entering the plant, as well as periodic monitoring of the bioremediation processes and of the treated output material before it is reused.




**HEA: INDUSTRIAL WASTE PRETREATMENT AND STORAGE PLATFORM**
HEA, a joint venture between **Eni Rewind** and **Herambiente Servizi Industriali**, has launched an innovative multifunctional platform for the pre-treatment of industrial waste prior to its recovery or disposal, in line with the European directives set out in the Circular Economy Package.
The plant, managed by HEA with operational support from Herambiente Servizi Industriali, is authorised to treat 60,000 tonnes of solid and liquid industrial waste, including 45,000 tonnes of hazardous waste, such as liquid waste, sludge and slurry, solids, and soil and sand.

The platform is designed to maximise the recovery of materials and energy while rationalising disposal through logistical and operational synergies with nearby Herambiente plant hubs.
The plant is served by a modern container farm for hazardous waste. The storage and processing areas are kept under continuous extraction, with the air conveyed to multi-stage pollutant abatement systems designed in accordance with best available techniques (BAT), ensuring compliance with the most stringent limits on gaseous emissions released into the environment.