

SER

SUSTAINABILITY REPORT

ENI REWIND 2019



ENI REWIND'S MISSION

We are Eni's environmental company.

We work according to the principles of the circular economy to give new life to industrial land and waste through efficient, sustainable remediation and revaluation projects.

We base our work on passion, skills and technological research to regenerate soils, water and recoverable resources.

We believe in dialogue and integration with the communities that host us.

ENI'S MISSION

We are an energy company.

We concretely support a just energy transition,

with the objective of preserving our planet

and promoting an efficient
and sustainable access to energy for all.

Our work is based on passion and innovation,

on our unique strengths and skills,
on the equal dignity of each person,
recognizing diversity as a key value for human development,

on the responsibility, integrity and transparency of our actions.

We believe in the value of long-term partnerships
with the Countries and communities where we operate,
bringing long-lasting prosperity for all.



THE SUSTAINABLE DEVELOPMENT GOALS

Global goals for a sustainable development

The 2030 Agenda for Sustainable Development, presented in September 2015, identifies the 17 Sustainable Development Goals (SDGs) which represent the common targets of sustainable development on the current complex social problems. These goals are an important reference for the international community and Eni Rewind in managing activities in those Countries in which it operates.



Index

WHY READ ENI REWIND'S 2019 SUSTAINABILITY REPORT?

In its Sustainability Report, Eni Rewind wants to share the objectives by which it proactively contributes to the energy transition and a fairer economy in line with Eni's strategy. In pursuing its mission, the Company is constantly committed to the valorisation of land, water and waste through sustainable remediation activities and the development of projects for the recovery of resources, according to the principles of circular economy.

The Company tackles the challenges of today bringing passion and expertise to research, technological innovation, digitalisation, the promotion of human rights and the building of alliances for the growth of local communities. The report describes the model of excellence with which Eni Rewind operates in order to create long-term value in the territories where it is present, building new development opportunities through constant relations with stakeholders.

Message to our stakeholders	3
Eni Rewind - an overview	4
Eni Rewind in the world	6
The Eni business model	8
Eni Rewind's activities in the Eni value chain	9
The Eni Rewind integrated model	10
Eni Rewind and the Sustainable Development Goals	11
Eni Rewind's governance	12
Integrated Risk Management Model	13
Stakeholder engagement activities	14
Innovation	18
Digitisation	22

1. CARBON NEUTRALITY IN THE LONG TERM 24



Energy Transition and Circular Economy	25
Remediation	30
Water Management	36
Waste Management	38

2. OPERATIONAL EXCELLENCE MODEL 42



Each of us	43
Safety	48
Environment	52
Human Rights	56
Transparency and anti-corruption	58

3. ALLIANCES FOR THE PROMOTION OF SUSTAINABLE DEVELOPMENT 60



Eni Rewind: a stakeholder in local development	61
Partnerships for sustainable development	67
Initiatives with and for the territory	68
Tools and methodologies for sustainability	71

Methodological note	72
Glossary	74



INTERVIEWS

CASE STUDIES

LINKS AND INSIGHTS

WE OFTEN TALK ABOUT LONG-TERM VISION,
CIRCULAR ECONOMY, ABOUT THE NEED TO FIND
A NEW DEVELOPMENT MODEL FIT FOR HUMAN BEINGS.
NEVER BEFORE HAS IT BEEN POSSIBLE TO EXPERIENCE
HOW SOLIDARITY AMONG PEOPLE AND COMMUNITIES
– AND NOT MERE PROFIT – IS THE KEY TO GUARANTEE
A FUTURE FOR THE NEXT GENERATIONS.

CLAUDIO DESCALZI,
CHIEF EXECUTIVE OFFICER ENI
ENI FOR 2019



Message to our stakeholders

The progressive spread of the Coronavirus in recent months has led to an emergency, as serious as it was extraordinary and unexpected, involving first the health sphere and then the social and economic spheres of the globalised world. Social distancing measures, aimed at slowing down infection, have affected all sectors of activity and imposed radical changes in our living and working habits. Even in the most acute phase of the epidemic, Eni Rewind managed to combine the health and safety of its own workers and contractors with the operational continuity of all non-interruptible remediation activities and the disposal of industrial waste resulting from the production processes of Eni plants, from upstream to refineries and petrochemical sites.

This crisis has produced many changes, some even structural, but it has not changed our strategic objectives, nor our development path, with the progressive consolidation that also marked 2019. In September we reorganised our activities with two operational departments. Design and engineering responsibilities have been integrated with those of the construction and management of remediation interventions, while waste & water management has been grouped under a specific department that includes projects for the treatment of the organic fraction of municipal waste through the proprietary Eni Waste to Fuel technology. In November we changed the company name to Eni Rewind, an acronym for Remediation & Waste Into Development, which effectively describes the perimeter of our professions and the ambition to plan environmental interventions with a view to economic and social development.

Environmental activities are running at full capacity. More than 90% of the contaminated land owned by Eni Rewind and all relative ground-water are undergoing remediation authorised by the competent authorities, mostly over the last five years. Although the work will still take many years to achieve complete environmental recovery and redevelop the sites, significant, concrete developments were made in 2019. These include the agreement with the Municipality of Venice for the valorisation of the reclaimed areas in Porto Marghera; the start of permanent containment in the Ponticelle area of Ravenna, aimed at the installation of a photovoltaic system by Eni New Energy, an environmental platform and a technological remediation centre; the opening of the sites of the Nuraghe Project in Porto Torres and of the "offshore works" in Crotone, ahead of the removal of the former Pertusola and Fosfotec landfills.

We also continue to work on behalf of Eni, from upstream to petrochemical sites, refineries and depots and service stations, promoting cutting-edge projects both for the application of innovative remediation technologies, such as the e-hyrec® device for the selective recovery of groundwater supernatants, and for environmental sustainability, in terms of maximising resource recovery and on-site treatments.

Our waste management priorities are to optimise the procurement of disposal services and insource certain strategic treatments, such as that relating to production water from upstream mining activities, in order to reduce dependence on a market with increasing costs and risks of service discontinuity.

With a view to a progressive transformation of Eni Rewind from an Eni service company to a market operator for the provision of environmental services to third parties, we have focused development projects on the transformation of municipal organic waste into bio oil and water and, abroad, on water treatment and reuse projects, supporting and in conjunction with associates in countries where Eni is present. In this perspective, in March 2020 an agreement was signed with CDP Equity for the establishment of a company, CircularIT, which will promote the construction of plants with proprietary Eni Waste to Fuel technology, starting from the first industrial-scale project to be carried out in Porto Marghera on a reclaimed area. Expansion beyond the national borders saw the company engaged in the design and specialist assistance for two water purification plants for the communities of Basra and Zubair in Iraq, as well as in supporting other foreign associates in the regeneration of water resources and in soil management.

2019 was therefore an intense and fruitful year that allows us to confirm and relaunch our business plan. The crisis caused by COVID-19 has reinforced the need to continue along the path of progressive energy transition, pursuing environmental objectives as opportunities for economic and social development. We are therefore convinced that we can make an active contribution to the economic recovery of the country, based on the innovative technologies, skills and passion of our people, as indicated in the road map drawn up by the 2030 Agenda of the United Nations and set out in the 17 Sustainable Development Goals (SDGs). With this vision, we underline our continuing commitment to environmental redevelopment and the management and enhancement of natural resources and waste in a circular perspective, open to constructive discussion with all stakeholders and in the communities where we operate. The common ambition is to contribute to developing a more environmentally, socially and economically sustainable world.



Paolo Grossi

Chief Executive Officer Eni Rewind

Eni Rewind – an overview

Eni Rewind is Eni's environmental company that operates in line with the principles of the circular economy to give new life to land, water and waste resources through efficient, sustainable reclamation and revaluation projects, both in Italy and abroad. Eni Rewind has also started projects to treat organic waste through the construction and management of industrial plants that apply the proprietary Eni Waste to Fuel technology to transform organic waste into bio oil and water.

Today Eni Rewind owns about 3,800 hectares of areas in Italy, about 65% of which fall within Sites of National Interest. Since 2003, the Company has spent more than €3 billion on environmental interventions, 85% of which has been directed at sites conferred by law and acquired with forced mergers as part of the historic industrial recovery operations that Eni had to take over when it was a State entity in the 1980s and 1990s.

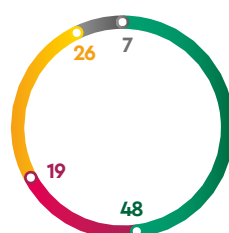
With the know-how acquired over the years, Eni Rewind is environmental global contractor for all Eni business lines, from upstream to refining and chemistry and commercial activities.

ENI REWIND SITES BY HISTORICAL ORIGIN



OWNERSHIP: BREAKDOWN BY ORIGIN (hectares)

TOTAL: ~3,800



EX MONTEDISON SIR-RUMIANCA GROUP, BY LAW OTHER COMPANIES, BY LAW ENI

COSTS INCURRED BY SITE ORIGIN (€ million)

TOTAL: 2,963



ESTIMATED COSTS TO BE INCURRED (€ million)

TOTAL: 2,390



ENI REWIND IN 2019

+1,000

Employees

~€3 Bln

Remediation expenses since 2003

~3,800 hectares

Owned

~400,000 hours/year

Environmental engineering

+80

Industrial sites with environmental activities managed by Eni Rewind

€800 Mln

Expenditure in 2019 for remediation and waste management

~850

Active Eni Rewind Work Sites, of which about 600 service stations under remediation

59%

Recovered vs. recoverable waste

42

Water treatment plants

31 Mln m³

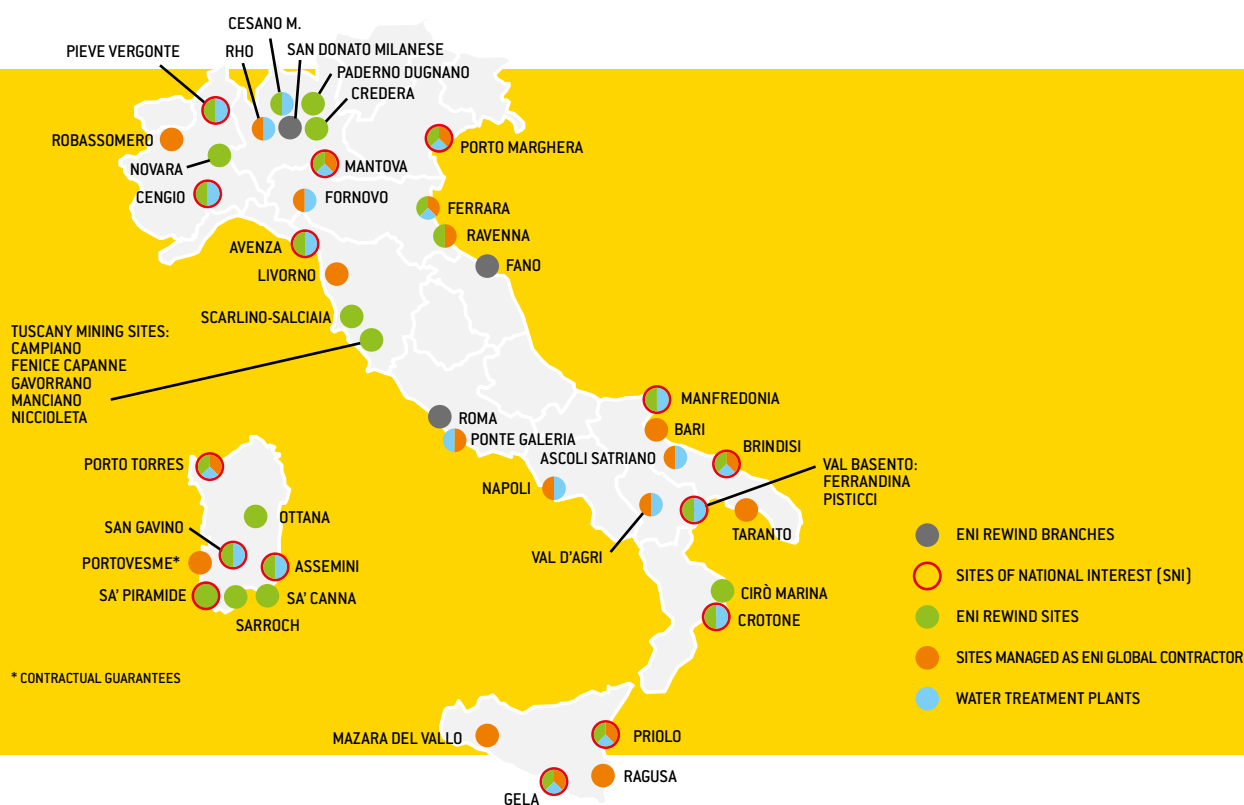
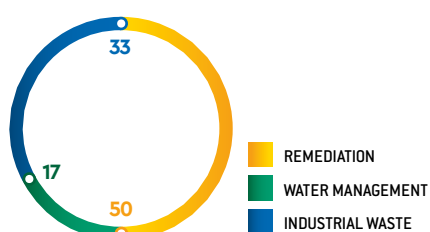
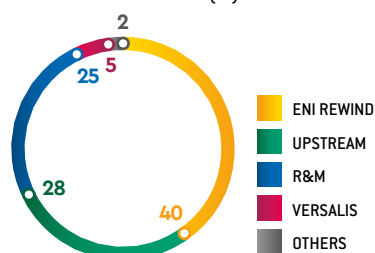
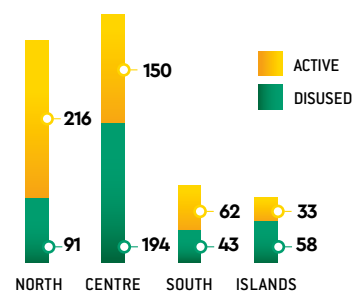
Treated water

2 Mln Ton

Waste managed

5.1 Mln m³

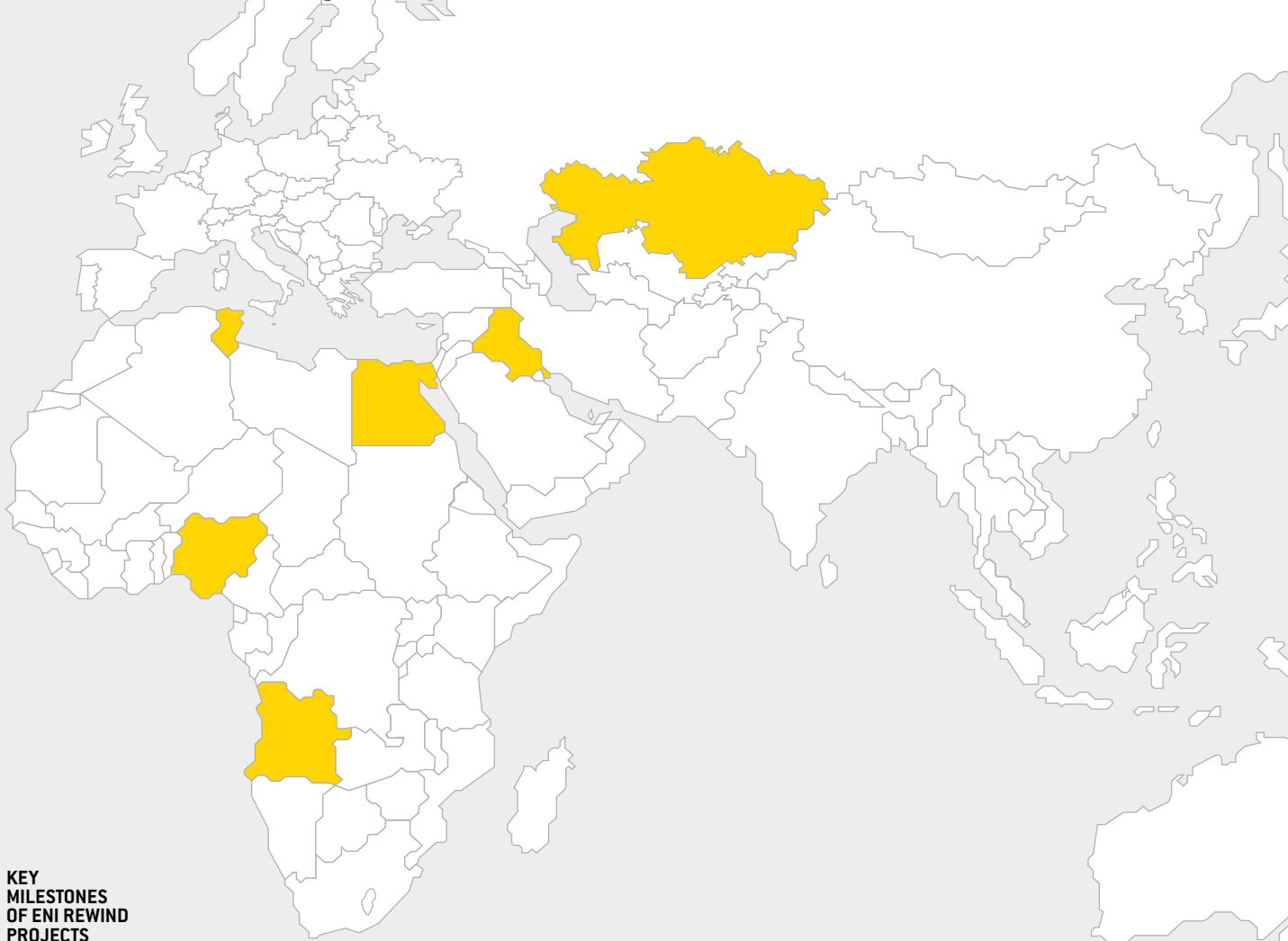
Water recovered

ENVIRONMENTAL ACTIVITY
MANAGED BY TYPE (%)ENVIRONMENTAL ACTIVITY
MANAGED BY CLIENT (%)MANAGEMENT OF ENVIRONMENTAL
ACTIVITIES ON ENI SERVICE STATIONS

Eni Rewind in the world

Since 2018, Eni Rewind has expanded its activities abroad, making its environmental know-how available to Eni Companies around the world, also with a view to supporting development and cooperation. After an initial analysis of the potential needs of the upstream activities of Eni and its associates, in particular in environmental engineering, soil remediation and water treatment, the Company has proposed projects in numerous sites, from Africa to the Middle East and Asia.

The goal is to offer the skills consolidated in Italy beyond national borders, also through the numerous training and knowledge sharing activities, while extending its experience in the management of complex projects. To date, projects have been launched in Iraq, Nigeria, Egypt, Tunisia, Kazakhstan and Angola.



KEY
MILESTONES
OF ENI REWIND
PROJECTS
ABROAD

2019

FEBRUARY

Egypt – water assessment of Zohr and El-Gamil sites
Iraq – technical specification for tenders for Al-Bardjazia and Al-Buradeya plants

JUNE

Nigeria – Brass site characterisation plan and support to NAOC in meetings with local stakeholders
Tunisia – technical specification for tender for production water treatment plant, soil risk analysis and support to the associate in meetings with local stakeholders
On the Job Training

JULY

Nigeria – Brass site water treatment and management project

TUNISIA

Eni Rewind is giving support to Eni Tunisia through an innovative and sustainable engineering approach aimed at the recovery and regeneration of water resources. Jointly with EniProgetti, it developed the project for a new production water treatment plant and subsequent reinjection.

ANGOLA

In synergy with EniProgetti, Eni Rewind launched the project for the development of a new plant for the treatment and recovery of production water for subsequent reuse, as part of the Northern Gas Complex.

NIGERIA

Eni Rewind supports Nigerian Agip Oil Company (NAOC) in the design of solutions for the management and treatment of production water and rainwater at the Brass terminal, located south of Port Harcourt, where crude oil is stored for subsequent shipment by sea.

IRAQ

Since May 2018 Eni Iraq has been cooperating with Eni Rewind for the development of environmental initiatives in the territory of Basra, where Eni is engaged in the development of the large oil field of Zubair. In particular, several remediation proposals with important social repercussions were presented to local stakeholders. Of these, the first two concern the construction of the Al-Buradeja and Al-Bardjazia water purification plants in the Basra area, through the revamping and installation of new units. The interventions will improve the quality of water resources for about 150,000 people. Another important circular project entrusted to Eni's environmental company relates to the treatment and re-injection of urban waste water from the Hamdan plant into the Zubair field.

KAZAKHSTAN

Eni Rewind supports the North Caspian Operating Company NCOC consortium (Eni stake 16.81%), which manages the Kashagan offshore field, with projects aimed at the treatment and enhancement of water resources.

EGYPT

Eni Rewind supported the subsidiary International Egyptian Oil Company (IEOC) in the identification of circular economy projects and the regeneration of water resources at the Zohr site (the largest gas field in the Mediterranean discovered in 2015) and at El Gamil.

TRAINING WORKSHOP

Indonesia

Renewable Energy & Circular Economy Workshop (jointly with Eni, Energy Solutions, R&D and R&M and Versalis) targeting key local stakeholders. Environmental remediation Technologies workshop at Pertamina University

Kazakhstan

Environmental Circular Economy Projects workshop

On the Job Training

9-month environmental training programme involving 8 colleagues from foreign associates in classroom, field and laboratory activities

SEPTEMBER

Iraq – award of EPC contract by Eni Iraq for the construction of the Al-Bardjazia purification plant

OCTOBER

Egypt – Zohr site water management feasibility study update

NOVEMBER

Iraq – award of EPC contract for the construction of the Al-Baradeja water purification plant and opening of the Al-Bardjazia construction site
Kazakhstan – feasibility study for the regeneration of Kashagan site waters

DECEMBER

Angola – launch of water treatment plant design based on the feasibility study presented in October

The Eni Business Model

Eni's Business Model aims to create value for stakeholders and shareholders, with a strong presence throughout the value chain. As an integrated energy company, Eni aims to contribute, directly or indirectly, to the achievement of the United Nations 2030 Agenda of Sustainable Development Goals (SDGs), supporting socially equitable energy transition, which responds with concrete, rapid and economically sustainable solutions to the challenges of combating climate change and providing access to energy resources to all in an efficient and sustainable manner. Eni integrates its industrial plan organically and effectively with the principles of environmental and social sustainability, extending its field of action along three directives: 1. operational excellence, 2. carbon neutrality in the long term, 3. alliance for development. Eni's business model develops along these three lines, relying on internal skills, the application of innovative technologies and the digitisation process.



VALUE CREATION FOR STAKEHOLDERS AND SHAREHOLDERS

Through the integrated presence throughout the energy value chain



OPERATIONAL EXCELLENCE

HSE, Human Rights & Integrity

Efficiency

Resilience

Capital discipline

FLEXIBLE PORTFOLIO
EVOLUTION
AND ORGANIC GROWTH



CARBON NEUTRALITY IN THE LONG TERM

Life cycle GHG
emissions approach

Set of concrete levers
for portfolio decarbonisation

NET CARBON EMISSIONS
AND NET CARBON INTENSITY
REDUCTION



ALLIANCES FOR DEVELOPMENT

"Dual Flag" approach

Public-private partnership

Job creation
and transfer of know-how

LOCAL DEVELOPMENT
PROGRAMME IN LINE
WITH THE UN 2030 AGENDA

COMPETENCE, TECHNOLOGIES AND DIGITALISATION

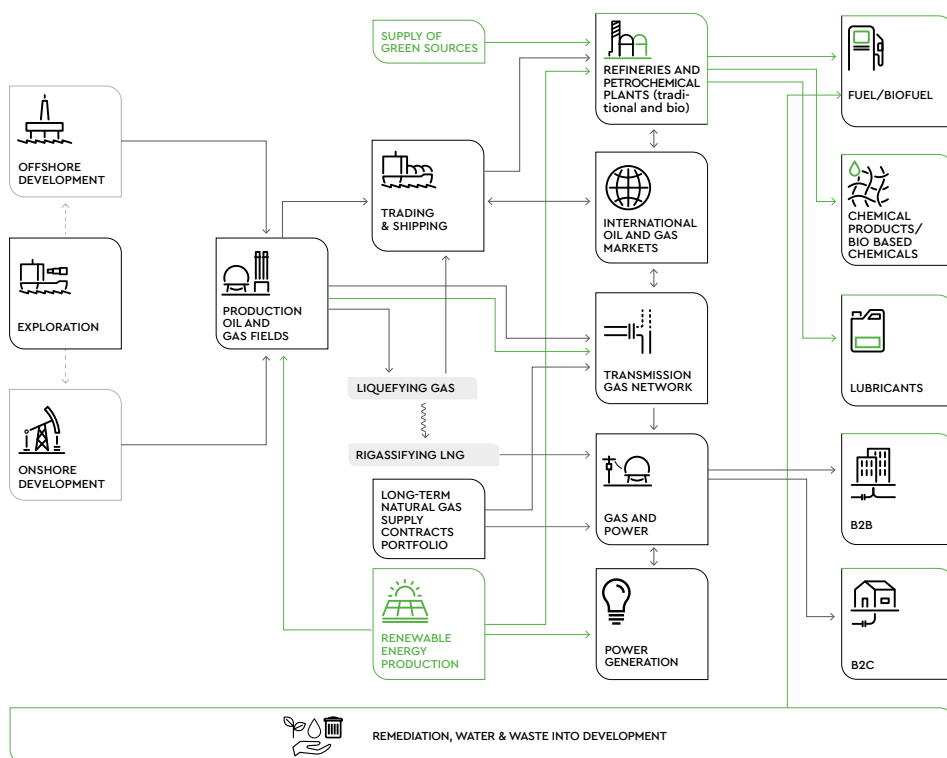


TO FIND OUT MORE:

see [Eni For 2019 - A just transition](#) (page 8)

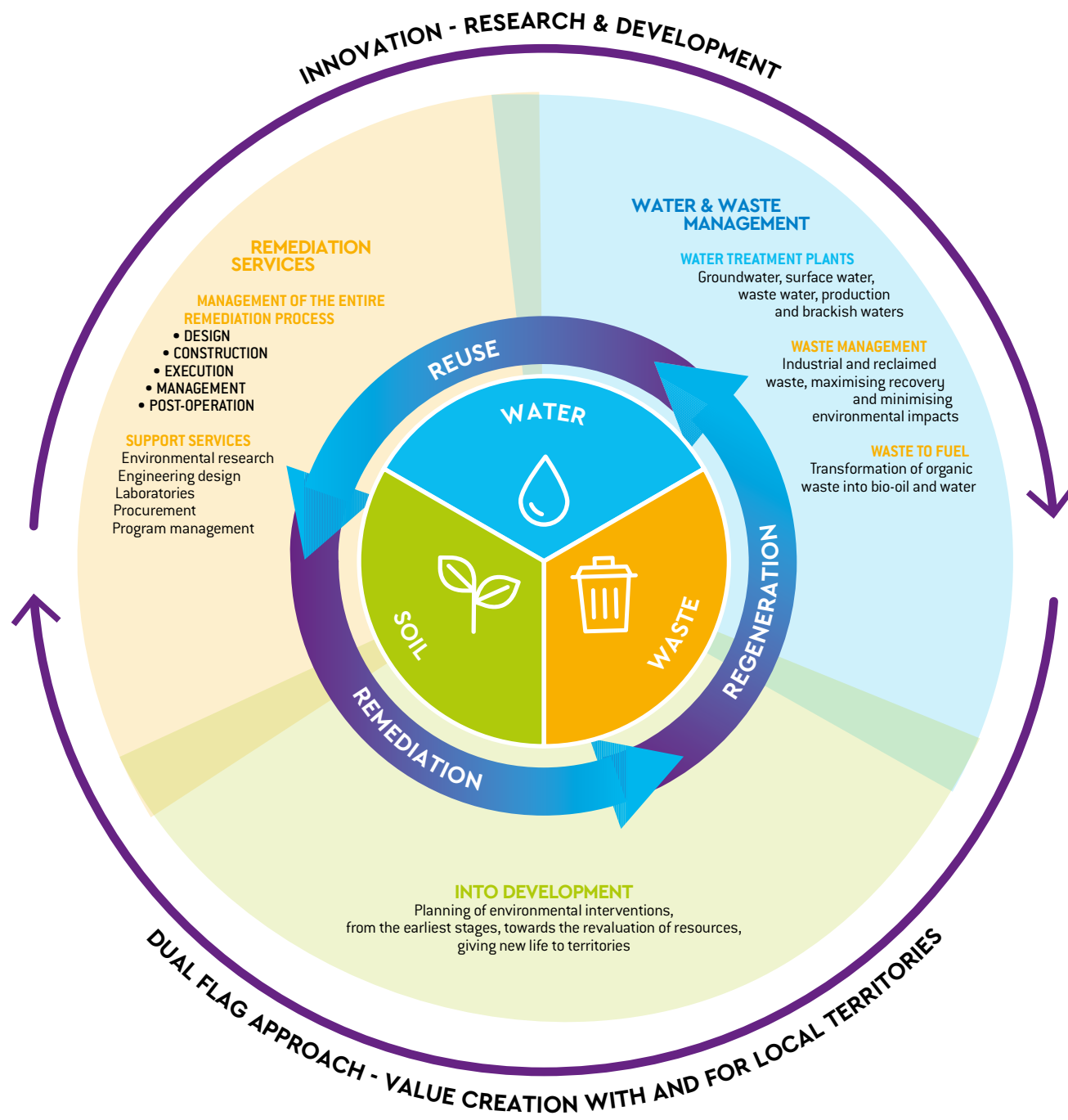
Eni Rewind's activities in the Eni value chain

As part of its long-term strategy, Eni promotes a change of the energy paradigm and the transformation of the current economic model. In the more industrialised countries, the linear economy model is giving way to a more sustainable, responsible and inclusive economy whose production processes include the recovery, regeneration and reuse of natural resources and goods produced. In this scenario, Eni Rewind has identified strategic objectives and initiatives to contribute to the transition to the new circular economy, combining environmental activities with the regeneration of soil, water and waste through their efficient management and innovative recovery projects, in synergy with local territories. A commitment that the Company pursues by contributing tangibly and transversally to the entire Eni value cycle.



	→ Eni Rewind will produce a bio-oil using Waste-to-Fuel technology, which can be used as a bunker oil for ships or as a biofuel for motor vehicles → reclamation of abandoned and operational Eni service stations	
	→ promotion of projects to build renewable energy plants on remediated land	
	→ chemical/physical/biological treatment of production water for reuse for industry or irrigation	
	→ waste cycle management (from production to final disposal) → management of decommissioning and remediation	
	→ reclamation of areas affected by ruptures of oil pipelines (oil spill)	

The Eni Rewind integrated model



Through its integrated end-to-end model, Eni Rewind monitors each phase of the remediation process, and, right from the earliest stages plans projects for the regeneration and reuse of resources (soils, water, waste), making them available for new sustainable development opportunities.

In carrying out its activities, Eni Rewind integrates the principles of environmental sustainability and applies the best available technologies on the market, with the aim of maximising the effectiveness and efficiency of its interventions. To this end, the company collaborates with Eni research centres and with top national and international universities and institutes, inspired by the values of innovation and technological excellence.

Furthermore, Eni Rewind promotes dialogue with all stakeholders, to ensure that its projects translate into concrete opportunities for the territories in which it operates.

Eni Rewind and the Sustainable Development Goals

On 25 September 2015, the United Nations adopted the 2030 Agenda for Sustainable Development, an “action programme for people, the planet and prosperity” articulated in 17 Sustainable Development Goals (SDGs), which in turn are based on 169 targets. A historic agreement with which the more than 190 governments of the member countries of the United Nations expressed a “clear judgement on the unsustainability of the current development model”, promoting an integrated vision of the different economic, social and environmental dimensions of development. Member countries are committed to achieving the SDGs by 2030. The implementation of the 2030 Agenda requires the involvement of all components of civil society: institutions, universities and research centres, the media and businesses. For this reason, in agreement with Eni, Eni Rewind promotes an integrated and organic vision of all 17 Sustainable Development Goals and incorporates the related goals into its operating model. Eni Rewind’s efforts contribute to Eni’s sustainable business strategy, whose long-term goals include decarbonisation, the development of renewables and the protection of the environment, technological innovation, research and development, digitisation, human rights, the definition and construction of alliances, the sharing of know-how and local development projects. The integration of Sustainability Objectives with operational and economic-financial objectives helps to achieve shared and integrated success among Eni’s various business areas.

- Promotion and implementation of sustainable remediation interventions
- Initiatives and projects for the redevelopment of brownfield/remediated land
- Increased share of treated and reused water
- Optimisation of (energy/reagent) consumption in water management
- Reduction of weighted average Km/ton travelled for waste management
- Increased share of waste destined for recovery
- Construction of Waste to Fuel plants on an industrial scale
- €160 million in decarbonisation and circular economy projects



- Training: continue the design and development of professional paths
- Promotion of Diversity & Inclusion initiatives
- Projects dedicated to health promotion and care
- Strengthening of work-life balance initiatives



- HSEQ Integrated Management System transition to ISO 45001:2018 requirements
- Process Safety & Asset integrity: completion of gap analysis for TAF plants, census and audit of Eni Rewind assets
- Transition and integration of site mapping on Eni’s MyGIS-3Ter application
- Relaunch of training and awareness initiatives on HSEQ aspects - “Pact for the Environment” and “Pact for Safety”



- Application of Eni human rights guidelines
- Dissemination of the Supplier Code of Conduct



- Continuous improvement of the Anti-Corruption Compliance Programme
- Application of methodology to segment the population for anti-corruption training purposes
- Contribute to the promotion of legality agreements in more complex remediation sites



- Promotion and development of projects for the dissemination of environmental know-how
- Valorisation of technical, natural and cultural heritage through projects, investments and events/sponsorships as part of territorial inclusion and integration actions
- Signing of agreements and partnerships for sustainable and circular development



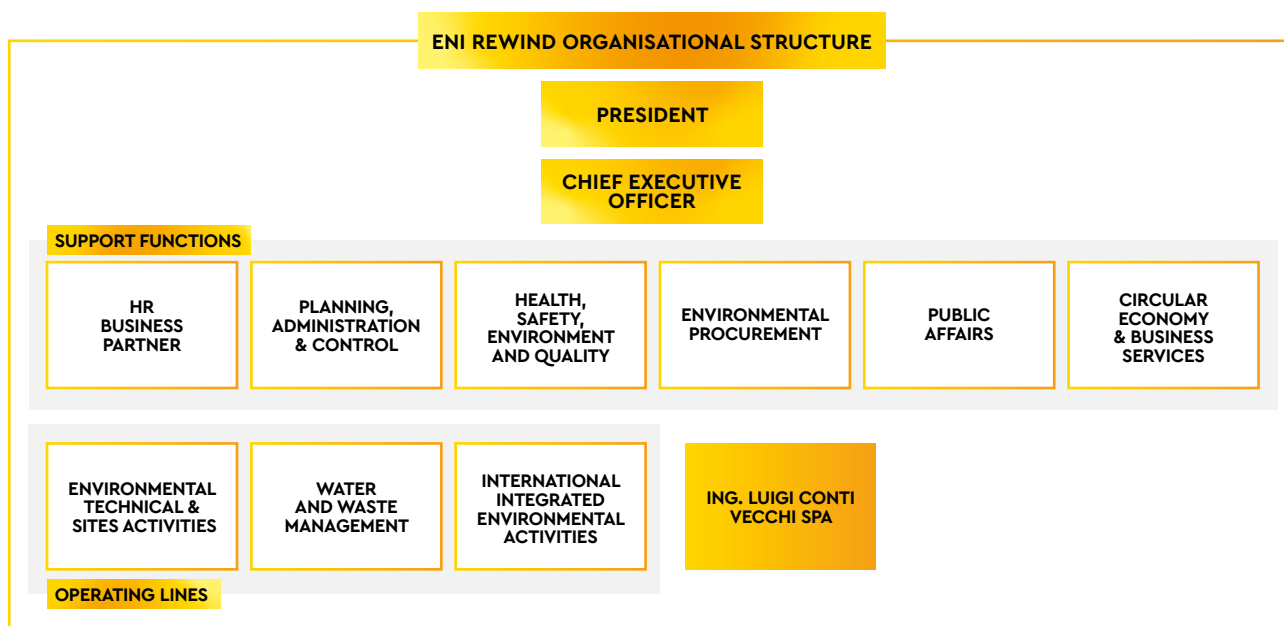
- Expected R&D investments in the period 2020-2023: €17 million, to promote sustainable soil and water remediation as well as initiatives in line with the principles of the circular economy
- Partnerships/agreements with the academic world for the development of innovative remediation and resource valorisation solutions



Eni Rewind's governance

Eni Rewind is subject to Eni's management and coordination activities and has a Corporate Governance system designed to effectively comply with the principles of integrity and transparency. Following the Eni guidelines, the system attributes the responsibility for management to the Board of Directors – without prejudice to the tasks of the Shareholders' Meeting –, the supervisory functions to the Board of Statutory Auditors and the financial auditing to the Independent Auditors.

Currently, Eni Rewind's macro-structure includes six business support functions and three operational lines under the Chief Executive Officer (in addition to the subsidiary Ing. Luigi Conti Vecchi SpA), as represented below.



This organisational structure was defined in 2019 to increase the efficiency of the company's operations in relation to its strategic objectives. With this in mind, Eni Rewind is structured into the following units:

- “Remediation”: involves the integration of engineering, technological innovation and operational management of environmental recovery projects with a view to promoting the development and application of increasingly effective and cost-efficient remediation technologies, the subsequent revaluation of the areas and the identification of new development opportunities;
- “Water and Waste Management”: defines the strategies with which to treat the increasing volumes of solid and liquid waste and manage their treatment/disposal through the governance of the supply chain or plant operations, also with a view to their recovery and revaluation;
- “International Integrated Environmental Activities”: dedicated to the development of activities abroad.



Integrated Risk Management Model

Eni Rewind has adopted the Integrated Risk Management Model developed by Eni and aimed at ensuring that management makes informed decisions, taking into adequate consideration current and future medium- and long-term risks within the framework of an organic and dynamic vision.

The integrated risk management model:

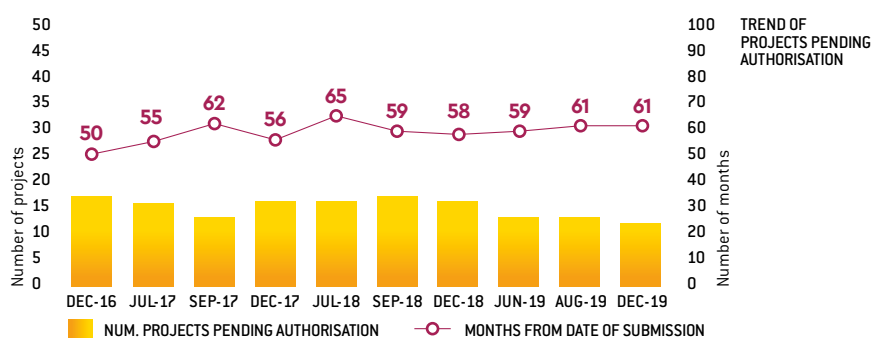
- Assigns a central role to the Board of Directors, which defines the nature and level of risk compatible with the strategic objectives, assessing all the risks that may be relevant to the sustainability of the business in the medium to long term;
- Plans a corporate risk analysis through periodic risk assessment & treatment and monitoring cycles, the results of which are presented to the Board of Directors and Control bodies;
- Is based on assessments that consider potential impacts that are both quantitative (economic-financial or operational) and qualitative (environment, health and safety, social, reputational).

As part of the annual risk assessment RMI 2019, 14 risks were identified at company level, of which 1 new one related to the "Permitting of circular economy projects".

#	RISK EVENTS
R 1	Failure/delay in obtaining authorisations - Public Authority
R 2	Relations with stakeholders
R 3	Delay in carrying out remediation
R 4	Critical nature of waste management
R 5	Evolution and complexity of HSE legislation
R 6	Unexpected discovery of contaminants
R 7	Development of the Business Model
R 8	Accidents involving Employees and/or contractors
R 9	Permitting circular economy projects
R 10	Risk of fraudulent behaviour by Eni people
R 11	Suppliers not meeting Eni requirements
R 12	Unavailability of production assets
R 13	Process safety incidents and asset integrity
R 14	Credit Risk - Commercial counterparts

The rating given to the "Development of the business model" risk was reduced since the new organisational model is now fully operational, while an increase in the rating given to the "Critical nature of waste management" risk has increased, as an improper classification of waste can generate a breach of environmental legislation, with criminal consequences for the Company and related negative impacts on its image and reputation. The risk related to the criticalities and the delay in obtaining preliminary authorisations for remediation activities, as confirmed by the RMI 2019 risk assessment, is still Eni Rewind's top risk, even though the overall risk trend is decreasing. The main authorisations have now been obtained and most of the remediation projects are ongoing.

The number of projects pending authorisation from competent Authorities has decreased compared to the previous year, confirming the downward trend of recent years. At the end of 2019, operational remediation projects were decreed on almost all Sites of National Interest (SNI).



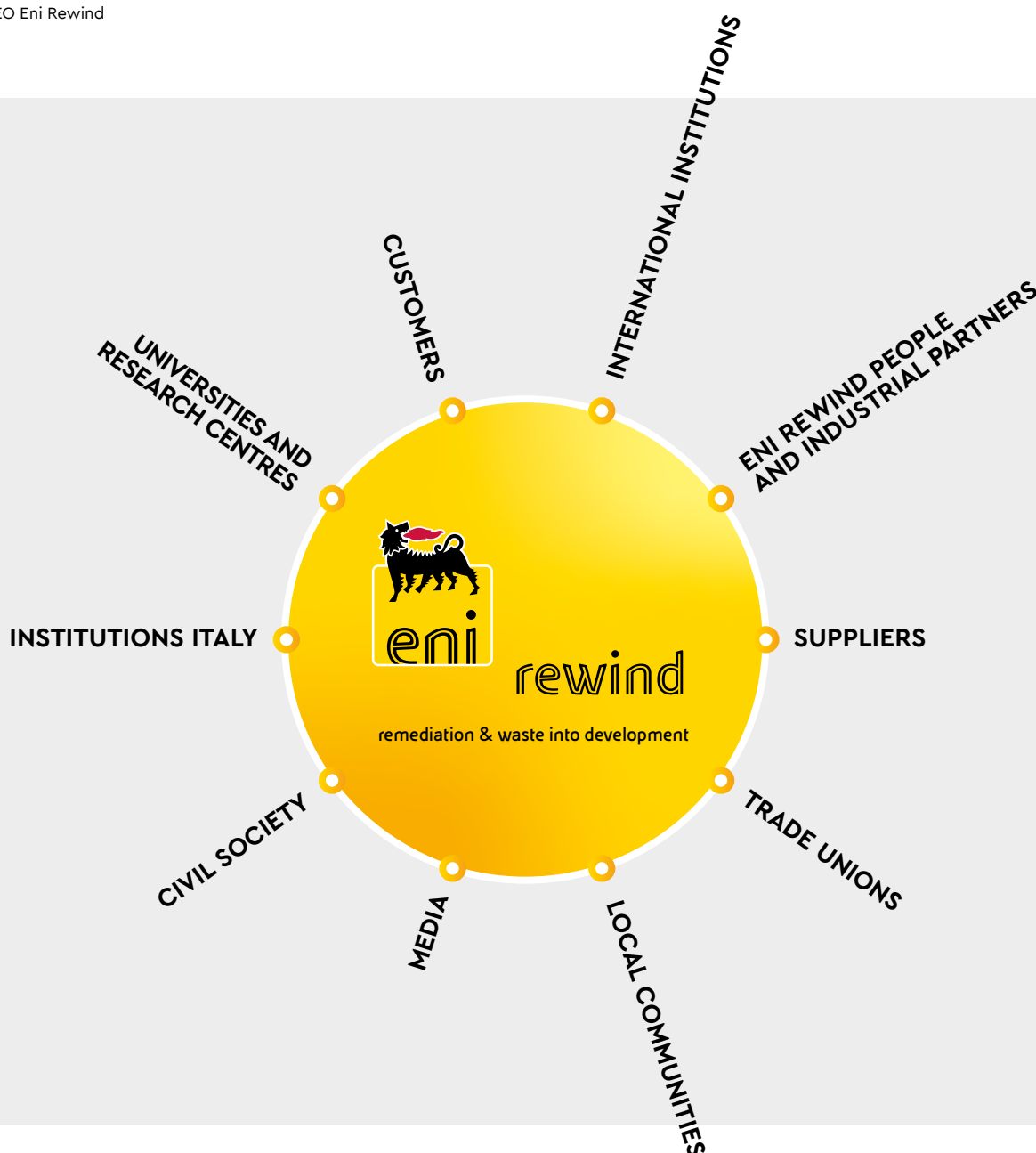
Stakeholder engagement activities

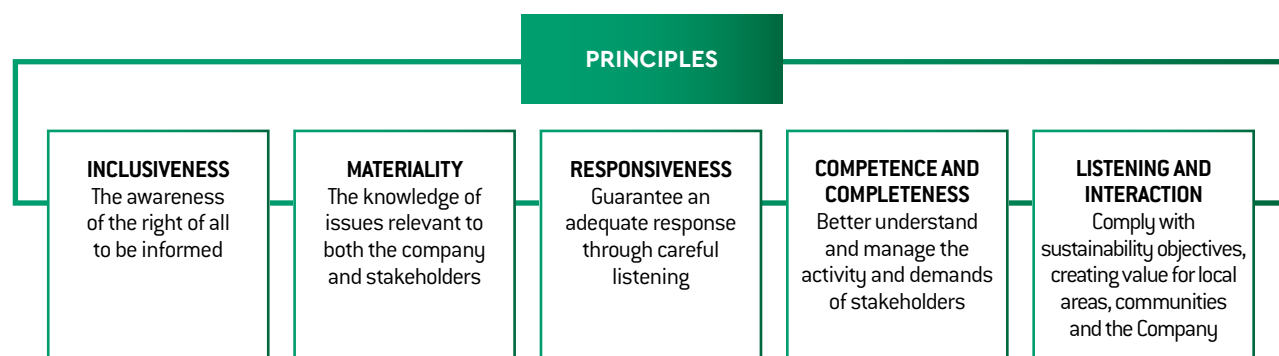
"Our continuing commitment to environmental remediation and the management and enhancement of natural resources and waste in a circular perspective remains unchanged and open to constructive discussion with all stakeholders and in the communities where we operate"

CEO Eni Rewind

Eni Rewind believes in dialogue and proactive engagement with its many stakeholders. The transparent and constant relations over time, increasing the trust of stakeholders, help to gain consensus and improve decision-making processes in pursuit of redevelopment and resource revaluation objectives in the more than 80 sites where we operate.

We trust in the effectiveness of a participatory approach that involves stakeholders from the early stages of a project and the pooling of technologies and skills. Reclaiming and redeveloping disused areas and/or recovering resources is both an environmental and an industrial opportunity for communities. It is therefore important to work within a system and responsibly convey the right message to the stakeholders involved. Our ability to create value over time derives from this synergic and constructive attitude.





INTERNATIONAL INSTITUTIONS

ITALIAN-SWISS COMMISSION IN PIEVE VERGONTE

The site of Pieve Vergonte was visited by the Italian-Swiss Water Commission (CIPALS) and the Ministry of the Environment, together with the Piedmont Region, the Province of Verbano Cusio Ossola, ARPA and the Municipality. Eni Rewind illustrated the state of the activities involving the restoration of the natural riverbed of the Marmazza river.

LOCAL COMMUNITIES

- Sponsorship of the Restart Music Festival, Municipality of Cengio
- FAI Autumn days: 600 people visited the Cengio site
- Inauguration of a nature trail with the Camimino Minerario Santa Barbara Foundation (Sa Canna)
- Energie Aperte
- Sponsorship of the 43rd Maremma Rally Trophy in the Colline Metallifere area of Tuscany
- Public Meeting in Pieve Vergonte for the presentation of the Geoarte Project

TRADE UNIONS

Continuous dialogue and discussion to support the development of the organisational structure and the achievement of business objectives

CIVIL SOCIETY

- Theatre event in Crotona to promote a culture of safety
- "6 in ond@" project for the schools of Crotona and Porto Torres
- Opening of our sites in Porto Torres and Gela to schools, "Water Hack" in Naples for the Maker Faire
- Dialogue with associations and advocacy groups

UNIVERSITIES AND RESEARCH CENTRES

Signature of an addendum to the agreement with the Ca' Foscari Foundation for research in the field of sustainable remediation

INDUSTRIAL PARTNERS

- Memorandum of Understanding with Veritas for the study on the Waste to Fuel project
- "Pacts for Safety": new and updated pacts in 9 sites

ENI REWIND PEOPLE

- "Safety & Environment Day": organisation of 11 appointments with the involvement of all contractors and trade union representatives
- Careful management of the needs of Eni Rewind people through training, internal communication, onboarding and welfare

INSTITUTIONS ITALY

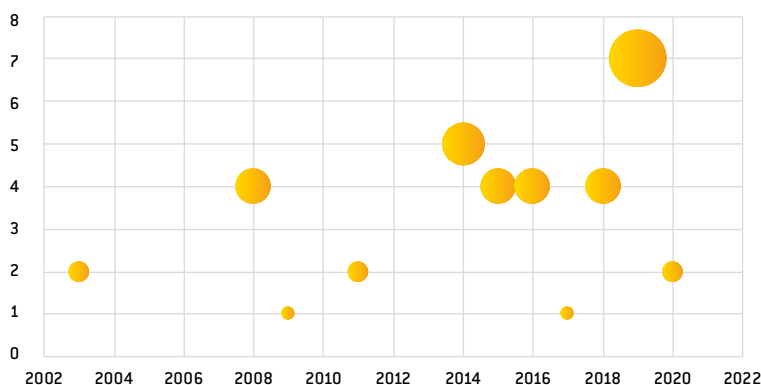
- Regular meetings and discussion tables with the authorities (MATM, MISE, MIBACT, ISPRA, ISS, INAIL, ARPA, ASL, Regions, Provinces, Municipalities, Port authorities, superintendencies) for technical reviews and examination of the projects submitted
- Visits by ministerial and parliamentary delegations to our sites
- Addendum to the Crotona Legality Understanding
- Pieve Vergonte Agreement for the management of the project relating to the movement of the Marmazza riverbed approved by the Ministry of Environment
- Agreement with the Municipalities of Cengio, Millesimo, Roccavignale and Cira for the treatment and purification of urban waste water
- Inspections with Regions, Municipalities, local authorities for the revaluation of areas

MEDIA

- In 2019, more than 400 articles were published by major national and local newspapers with references to Eni Rewind; approximately 75% with positive/neutral tones
- As part of the media relations activities aimed at illustrating its ongoing projects, Eni Rewind held the following meetings:
 - presentation of the Waste to Fuel pilot plant in Gela
 - launch in Crotona of the work site for the implementation of preparatory works for the removal of the sea-front landfills
 - company renaming
- Corporate website implemented, Eni Rewind LinkedIn page opened

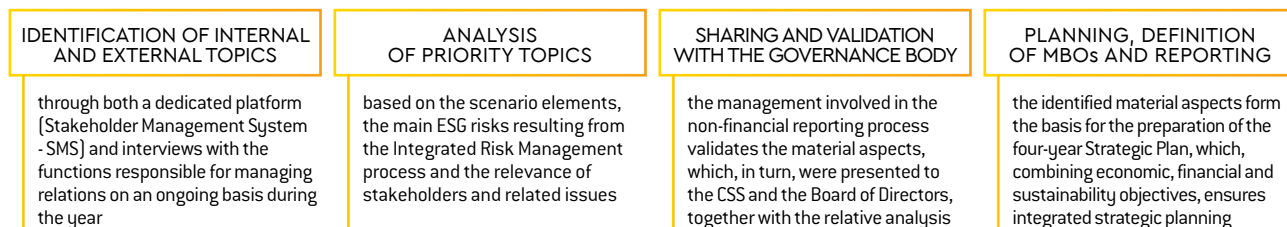
Eni Rewind's constant dialogue with stakeholders in all project stages allows to identify potential critical issues and, through dialogue, promote convergence, also taking into account the different needs of the parties. This allows for the anticipation and resolution of potential conflict situations that could affect the implementation of projects and company image and reputation. This commitment has led to the consolidation of a virtuous practice of technical dialogue, through dedicated tables, ensuring in-depth knowledge of environmental and redevelopment interventions prior to Service Conferences. A method that has helped increase the number of approved projects and obtain the relevant local authorisations, without which activities and operations cannot start. In 2019, Eni Rewind obtained ministerial decrees for seven Operational Reclamation Projects (ORP) in Sites of National Interest (SNI), contributing to the reduction of the so-called "permitting risk" (see page 13 of the Integrated Risk Management Model chapter).

ISSUE OF ENI REWIND "SNI" DECREES

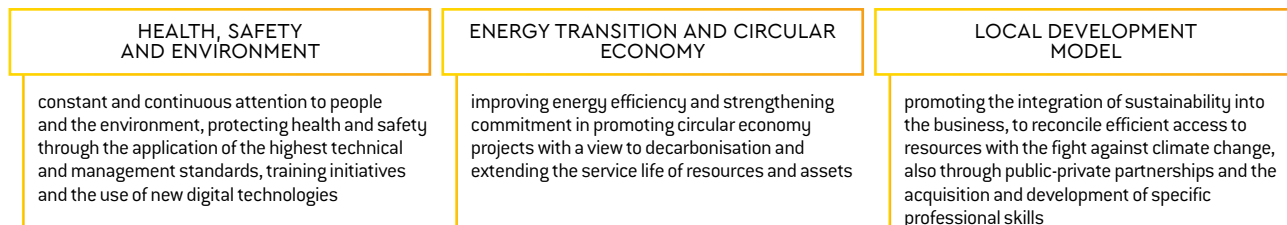


Materiality: relevant sustainability issues

Eni has identified and defined its material sustainability issues through a process of analysis that takes into account:



FOR ENI REWIND, THE RELEVANT SUSTAINABILITY ISSUES INCLUDED IN THE STRATEGIC PLAN ARE:



STAKEHOLDER MANAGEMENT SYSTEM

Eni Rewind has adopted Eni's "Stakeholder Management System - SMS" platform to map and monitor its network of local and national relations. With a view to constant and transparent management, the SMS records the relations with each stakeholder category, highlighting any critical issues and areas for improvement, the main topics of interest, the claims and grievances, the potential impacts on key issues, such as territory and environment. The system was launched on 10 pilot sites and then extended to all Sites of National Interest. The platform is currently being deployed to all Eni Rewind sites and facilities in Italy.

INTERVIEW WITH ALESSANDRO BRATTI

In recent years, the governance model of public institutions has evolved to respond to new environmental challenges. What further optimisations can promote the greater uniformity of principles and processes?

To respond to the growing demand for uniformity and consistent behaviour at national level, Law 132 in 2016 established a single National System for Environmental Protection, aiming to define uniform levels essential for environmental protection throughout the national territory. Today, four years after the entry into force of this law, we can certainly make an initial assessment that, as imagined, presents positive aspects and areas for improvement to work on.

A matrix system, where there is no structured hierarchical governance between the State and the Regions, but which in fact places coordinators and the coordinated on the same decision-making level physiologically requires some attention. Trying to reconcile 21 different Regional Environmental Protection Agencies – including those of the autonomous provinces – is certainly not easy, especially without a hierarchy that can guarantee decision-making moments. This is definitely an area for improvement within the system.

Another point to consider is the cost of the system, which has an overall economic deficit of around €200 million between the cost incurred today and what would be necessary to maintain the minimum essential levels of environmental protection.

Furthermore, there are a number of constraints within the Public Administration that do not help generational turnover. Today the system employs about nine thousand people and their average age is very high. There is a need to guarantee generational turnover to meet the technological challenges of modern times.

Furthermore, the strengths of this system are the Technical Guidelines that have been issued and are being produced. Their application by all Regional Agencies is important both for the business system and for other state bodies, as they provide an element of certainty for both the business system and citizens.

In terms of regulations and environmental investments, how does the Italian situation compare with that of other countries?

I believe that Italy's management of environmental issues is in no way inferior to those considered as European excellences. We are still firmly anchored in an "outdated" vision in our processes, especially in the field of authorisation: much work continues to be done during the granting of authorisations, while ex-post control is very "light". This procedure would probably have to be reversed with very streamlined and fast authorisations and a more structured ex-post control system. However, on the European scene, on some major issues such as the fight against climate change and the transition to a circular economy, I do not believe that we have much to envy in other countries. I must say that at European level we are certainly among the medium-high level countries with regard to the issues of environmental challenges as a basis for sustainable development and for the revival of the future economy.

What new challenges must institutions, authorities and businesses be able to interpret?

The relationship between the public and private systems must certainly be improved. Progress has been made in recent years, but much remains to be done. Mutual trust is needed to avoid viewing each other as opposing parties, instead seeing each other as actors on the same path to achieving the same goal. I believe that we need to make progress in terms of simplification, promoting as much as possible actions to combat climate change and protect biodiversity. Therefore, the development of renewables, energy efficiency and the recovery of contaminated sites must absolutely receive preferential attention. On the issue of 'environmental monitoring', I believe that this should not be the exclusive prerogative of the public, but also a primary and precise interest of the private system, to bring more certainty to the pathways to be established. Here too, privileged paths need to be identified, especially in order to foster technological innovation that supports the fight against climate change and the transition from fossil fuels to renewable energy sources. In my opinion, this path must be accelerated with a public system that helps the private one, trying to strengthen some aspects, such as verification and control, avoiding greenwashing situations, and at the same time guaranteeing streamlined pathways.



Alessandro Bratti

Director General of ISPRA
(Italian Higher Institute
for Environmental Research
and Development)

Innovation



At Eni Rewind, innovation is a lever for creating value and developing new environmental solutions with the aim of reducing risks and increasing the efficiency, quality and sustainability of projects, consolidating its technological leadership and ensuring the application of the best technologies available on the market (BATNEEC - Best Available Technology Not Entailing Excessive Costs). Research and development activities are carried out in cooperation with Eni research facilities and through a network of prestigious university bodies.

With the new "Environmental Technical & Site Activities" department, set up in September 2019, Eni Rewind's research and technological innovation activities have been integrated with those of engineering and the implementation of remediation projects, in view of promoting effectiveness and efficiency in execution, innovative and less invasive technology choices, as well as, reclaimed areas redevelopment.

E-HYREC® technology

The automatic e-hyrec® device is positioned inside the pits for groundwater remediation, and ensures the selective removal of the LNAPL - Light Non-Aqueous Phase Liquid or supernatant. Unlike traditional systems that also extract a predominant part of the water resource (approximately 70-80%), e-hyrec® has a hydrophobic filter – patented by Eni – used to separate the aqueous from the oily phase, recovering only the latter, resulting in a drastic reduction in the quantities of water and waste sent for disposal.

In 2019, Eni Rewind launched the field application of e-hyrec® devices with the installation of 26 units in the Gela and Porto Torres sites and in remediation sites in some service stations, recovering over 130,000 litres of supernatant in a fifth of the time compared to traditional technologies. By 2020, the company will produce the hydrophobic filter, the core component of the device, in-house. Further experiments are underway to selectively recover the dense oily phase or DNAPL present in the lower layers of the groundwater and increase the agglomeration flow through new types of e-hyrec®.



E-hyrec® surface section in Gela



BIOMARKERS - "E-LIMINA" METHOD

Eni "e-limina" (eni-linking-isotopic and microbial-investigations aid-natural-attenuation) is an Eni brand method integrating microbiological fingerprinting and isotopic fingerprinting. These techniques are applied in sites characterised by the presence of different types of contaminants. Through the application of Eni "e-limina", the aim is to identify the best possible bioremediation solutions and monitor their validity. The methodology therefore maximises the use of non-invasive technologies, choosing the best of them in terms of effectiveness and sustainability. In 2019, through field tests, activities continued to evaluate the results obtained in the laboratory. In particular:

- at the Sarroch site, where the groundwater is characterised by hydrocarbon contamination, the opportunity was identified to apply Enhanced Bioremediation technology aimed at stimulating microbial aerobic degradation processes in situ by injecting oxygen-releasing products into the groundwater;
- at the sites of Ferrara and Assemini, where chlorinated solvents were detected, Enhanced Natural Attenuation technology was used following the application of the "e-limina" method, aiming to immobilise contaminants or stimulate their transformation.

As regards the soil matrix, laboratory tests are being carried out to detect the biodegradation effect of hydrocarbons using formulations based on biosurfactants and enzymes.



e-limina

eni linking isotopic and microbial investigations to aid natural attenuation

Passive sampling

The monitoring methodology based on the use of passive samplers, developed in cooperation with Eni research and national and international universities – including the Massachusetts Institute of Technology – makes it possible to assess the actual leaching of contaminants from soil to groundwater and their volatilisation from soil to surface.

Passive samplers therefore provide a precise analysis of contaminants in the different environmental matrices (soils and water), allowing more sustainable reclamation interventions to be defined and targeting the actual need for remediation.

In 2019, the development phase was completed and the validation method phase was initiated through field experimentation and cooperation with Unichim. A specific agreement is in the process of being established.



Phytoremediation

Phytoremediation is a remediation technology that exploits the ability of microbial organisms in soils to biodegrade certain contaminants, accompanied by the planting of tree species capable of absorbing and accumulating degraded substances.

For the remediation of surface soils contaminated by hydrocarbons and metals, the technology was applied at the Eni site in Robassomero (Turin). The project involved the use of approximately 6,500 indigenous black poplar plants (*Populus Nigra*), planted in 2017-2018 on an area of approximately 44,000 m². At the time of planting, a mixture containing fungal species was inoculated on the area to increase the degradation process and the accumulation capacity of the plants.

In 2019, based on the monitoring of two vegetative cycles, the first evidence of the effectiveness of the phytoremediation intervention was confirmed, and has already led some areas to achieve the remediation objectives.



Phytoremediation project
in Robassomero

Environmental laboratories

Eni Rewind environmental laboratories are national points of reference for the sampling and analysis of environmental components and provide services to Eni's companies in the fields of environment and industrial hygiene.

Their expertise is the result of long-standing professional experience in national and international science circles, thanks also to numerous partnerships with universities and research and standardisation bodies. Located at the operating facilities in Ferrara, Priolo Gargallo (SR) and Assemini (CA), they employ a workforce of about fifty, using constantly updated, modern scientific equipment with a high technological content. The laboratories have obtained ACCREDIA multi-site accreditation in compliance with the requirements of UNI EN ISO IEC 17025 for the main analytes relating to soil, groundwater, sewage and gaseous emissions matrices.

To ensure maximum support to the business and customers, Eni Rewind has developed a Data Quality Management control model that allows the continuous Quality Assurance/Quality Control of the analytical and field activities related to technical performance, also for third party environmental laboratories working for Eni. The aim is the continuous improvement of analytical protocols to confirm the role of excellence and scientific interface between Eni companies and control bodies.

In 2019, the process and activities of the laboratories were analysed and a management and organisational programme was defined that, in 2020, will lead to the improved management of all phases with greater added value.



The Eni Rewind laboratory



TO FIND OUT MORE:
visit enirewind.com

Partnerships with universities

In 2019, cooperation between Eni Rewind and the Ca' Foscari University Foundation of Venice continued for the implementation and updating of the tools required for the sustainability assessment of remediation techniques and interventions. The cooperation also includes the drafting of a guideline for ecological risk analysis (ERA) applicable to water, sediment and soil matrices potentially affected by contamination, developing a first reference in Italy for the standardisation of ERA. In 2020, these methodologies will be applied to concrete Eni Rewind cases.

In parallel, cooperation and joint projects continue with:

- La Sapienza University of Rome, on innovative topics related to groundwater treatment, such as recirculation wells (for which a first trial is planned at the Manfredonia site) and reactive permeable barriers (Priolo and service stations);
- Polytechnic University of Milan for the study (in cooperation with Eni research laboratories) and experimentation of the applicability of thermal desorption technologies, by means of a rotary oven and in accumulation (In Pile Thermal Desorption – IPTD);
- Turin Polytechnic for research into innovative groundwater and water treatment solutions related to mining activities with the aim of reducing environmental footprint compared to traditional technologies.

INTERVIEW WITH MARCO PIETRANGELI PAPINI

The cooperation between Eni Rewind and La Sapienza University is a virtuous example of an alliance between industry and the academic world in the field of environmental recovery activities with a high sustainability ratio. What are the opportunities arising from this synergy?

Unlike any other industrial process, the remediation of polluted sites is characterised by the need to flexibly adapt to the multiple contamination situations that may be encountered. The combination of an academic approach to process development with the capabilities and operational experience of a large industrial group can significantly contribute to the identification of truly “sustainable” remediation paths.

The cooperation includes the study of innovative technologies for groundwater treatment that can guarantee greater treatment efficiency and shorter remediation times: from this joint path, what opportunities for development can arise for the territory also with a view to the circular economy?

The remediation of contaminated aquifers is probably one of the contexts in which cooperation between academia and industry can make significant progress, also with a view to a true circular economy. Compared to traditional Pump & Treat systems, with a huge depletion of water resources, the solutions currently being proposed aim to shift the focus to the real removal of groundwater contamination sources, with a significant reduction in remediation times and consequently a rapid redevelopment and recovery of polluted areas.

The current regulatory situation does not always allow a certain and sustainable brownfield remediation process: what can industry and academia do to facilitate the transition to a real circular economy?

At least partially, Italian legislation constitutes an obstacle to the completion of remediation routes, in particular for so-called brownfields. From a technical point of view, what is perhaps lacking is the necessary degree of flexibility to adapt to the inherent variability of the contamination situations to be addressed (“each site is a separate case”). The possibility of demonstrating, through experimentation on a pilot scale, how innovative strategies and processes can facilitate the recovery and redevelopment of polluted sites, with a view to a real circular economy, is certainly one of the peculiar potentials of synergy between universities and industry.



Marco Pietrangeli Papini

Professor, La Sapienza University of Rome

Digitisation

Digital transformation is an opportunity for all and allows us to face new design challenges. The process launched by Eni Rewind, in close coordination with Eni, will strengthen the skills of the company throughout the activity chain: from research to engineering, from procurement to field operations. Through interaction with technology it is possible to operate more safely, act more quickly, efficiently and flexibly, strengthening the competitive position of the company within the reference market.



Water management

The implementation of the automation and digitisation of groundwater treatment plants (GTP) continues for the optimal management of groundwater remediation systems. To date, 19 out of 42 plants are remotely controlled and managed by the central control room in San Donato Milanese.

The digitisation process involved the implementation of a portal (E-Portal TAF) through which it is possible to monitor the quantities of water treated and reused by the plants and the driving factors of all operational assets. The control room, operating 24 hours a day, achieves the following objectives: analysis of system reliability and performance, increased safety levels, control standardisation, savings on utilities and reagent consumption. Furthermore, thanks to greater operational and organisational flexibility, it is possible to dynamically identify the optimal control strategy (APC) of the water treatment system.

Waste Management

Eni Rewind's waste management model adopts the best available technological solutions on the market and optimises the distance between the source site and the delivery facilities, minimising environmental impacts. Currently, Eni Rewind is automating some document control activities, enhancing data traceability and increasing the efficiency of operational activities. The project started in 2019 involves the development of three components: Planning, Operational Management, Monitoring & Reporting.



Management of remediation and environmental monitoring

In 2019, Eni Rewind consolidated the path of computerization and digitisation of remediation projects to improve the control of environmental procedures and optimise interventions and monitoring activities at sites. In particular, ELVIS (ELaboration and Display of Syndial Environmental Investigations) was launched, the site management and analysis tool offering the following display information layers:

- technical: overlaps the current orthographical map (current state of the area) with the site plan with the historical layout of the Plants (even if they are now decommissioned);
- environmental: overlaps the site map with the sampling points, the area affected by ongoing, concluded or potential environmental procedures, and the related remediation systems;
- asset-related: overlaps the site map with the indication of the land and buildings with the urban destination and the current Eni Rewind surface rights (property, loan, lease, etc.);
- public: overlaps the site map with the maps made available by public bodies (ANCI - National Association of Italian Municipalities, Provinces, Municipalities) with an indication of the Municipal General Regulatory Plans - PRGC, borders, protected areas, etc.

Environmental procurement

The solutions offered by technological innovation are also implemented in various areas of environmental procurement, with the aim of facilitating operations and increasing data security.

Several applications were successfully tested by Eni Rewind in 2019, including the work order dematerialisation project leading to the complete elimination of paper documents from sales processes. Two tools have improved the effectiveness of the management of the post-award phases of contracts:

- the “Third Party Safety Management” - GST project, which, in addition to the HSE functionality it was designed for, is also used by Eni Rewind as a unique platform for post-award documentary checks on suppliers; in 2019 it involved more than 500 contracts and more than 600 suppliers;
- the Subcontracting project, which has led to the standardised management of 1,000 subcontractors, in five areas (ethical-reputational reliability, technical-professional reliability and regularity of HSE aspects, the regularity of the subcontractor in terms of salary and national insurance payments, anti-mafia code requirements (Legislative Decree 159/2011), regulatory and contractual obligations).

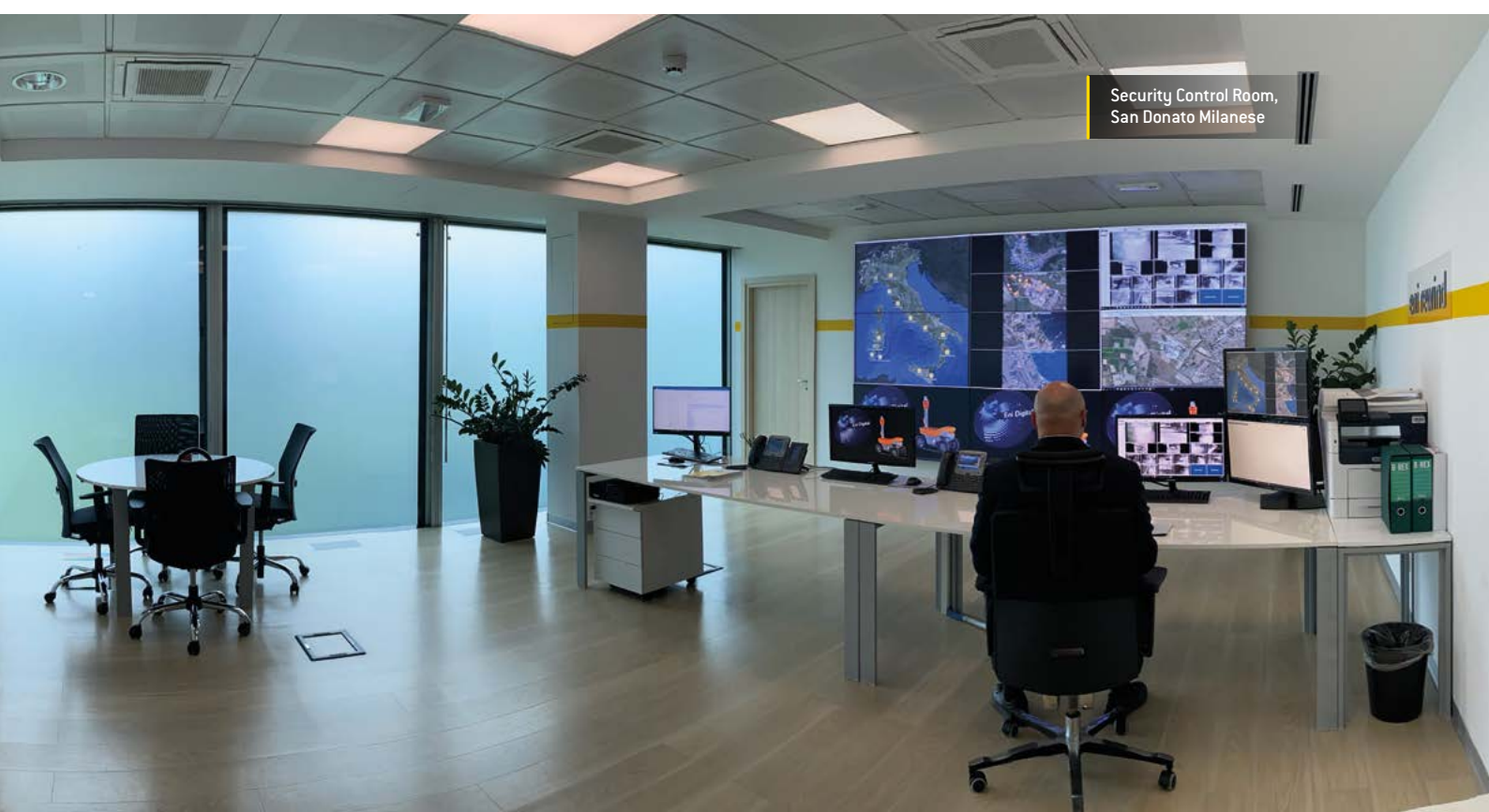
Security

For the five-year period 2019-2023, Eni Rewind plans to implement the “Digital Security Project Italy” to increase the prevention and protection of 17 corporate sites from risks such as intrusions, sabotage, vandalism and arson. The project involves the installation of advanced high-definition/thermal video surveillance sensors as well as the use of robotic intrusion prevention (Security) and fire detection (Safety) technologies. All sensors transmit the videos and alarm signals acquired in real time to a Security Control Room, manned 24 hours a day by qualified security personnel. This centralised security control ensures timely, simultaneous and geo-referenced management of alarm signals and optimisation of local armed surveillance services. To date, these solutions have been applied in 3 sites and are being implemented in two other sites.

Furthermore, Eni Rewind has developed a specific Security Dashboard for the analysis and digital monitoring of the security risks of abandoned sites managed on behalf of Eni R&M (approximately 400 points of sale and industrial sites).



Anti-intrusion
robotic
technologies

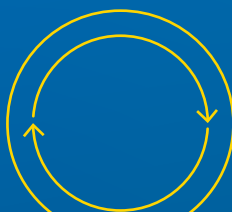


Security Control Room,
San Donato Milanese



Carbon neutrality in the long term

Eni has embarked on a decarbonisation mission, to tackle the crucial challenge of the energy sector: the transition to a low carbon future and access to energy for a growing world population. The strategy adopted in this direction includes not only the reduction of direct GHG emissions but also the development of renewables and new businesses based on circularity and the revaluation of resources, soil and waste water, as well as the commitment to the research and development of innovative solutions supporting all activities.



Energy Transition and the Circular Economy

Remediation



Water Management

Waste Management



Energy Transition and Circular Economy



WHY IS IT IMPORTANT TO ENI REWIND?

The leverage of the circular economy is a key factor in Eni's decarbonisation strategy for sustainable growth towards a low-carbon future. At Eni Rewind, this perspective is assured through research into continuous development and the ability to regenerate disused industrial sites, as well as to regenerate water and waste resources, laying the foundations for developing new projects. Environmental sustainability in all our interventions is an indispensable element for the growth of lasting value over time.

Policies and other regulatory instruments

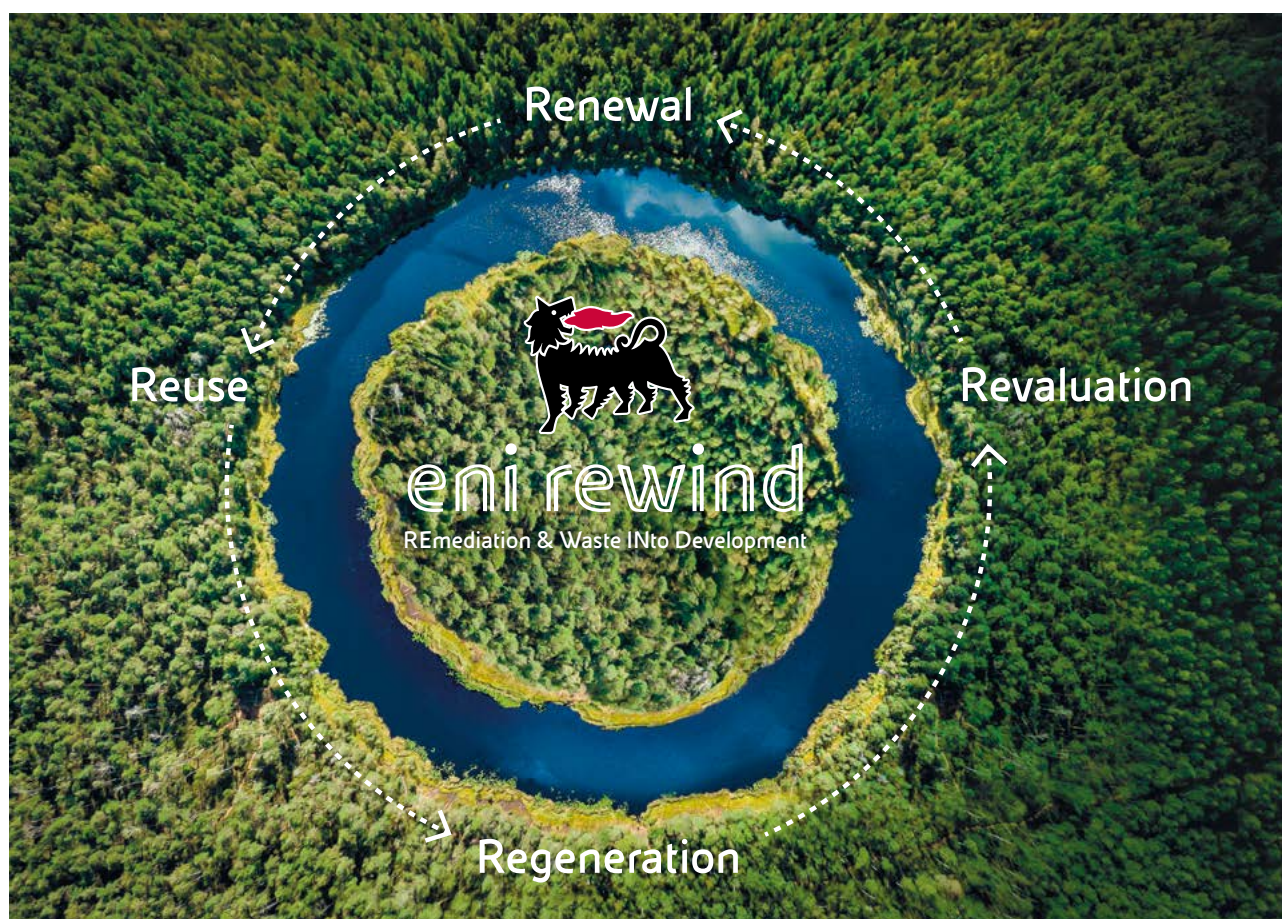
HSE management process integrated into a Management System Guideline; Eni Rewind Health, Safety, Environment, Public Safety and Quality Policy. Eni Rewind's Integrated HSEQ Policy enhances the Company's circularity aspects and processes

Progress in 2019 vs. 2018

- Land made available (hectares intended for reuse)
- Optimisation of consumption (utilities, reagents) in plant management
- Increased volumes of reused water
- Reduction of weighted average Km/ton travelled for waste management
- Increase in waste sent for recovery vs. recoverable waste

Eni Rewind's objectives

- Increase land regenerated and made available to the community
- Optimise/Increase the efficiency of water treatment
- Increase volumes of treated water destined for reuse
- Maximise the recovered/recoverable waste ratio
- Development of Waste to Fuel plants on an industrial scale



In the current global scenario, the energy transition process goes hand in hand with the shift from a linear to a circular economy. We are in the midst of a revolution in which the new development model shifts attention to the scarcity of resources in nature and the consequent need to recover, renew and reuse materials and products beyond the end of their first life cycle. This change involves everyone, from companies to communities to institutions, and involves changing production processes, the distribution system and consumption habits to preserve the environment, through a fairer and more efficient use of natural resources. In this perspective, waste will be close to zero, because it will return to being a resource, as a secondary raw material or energy.

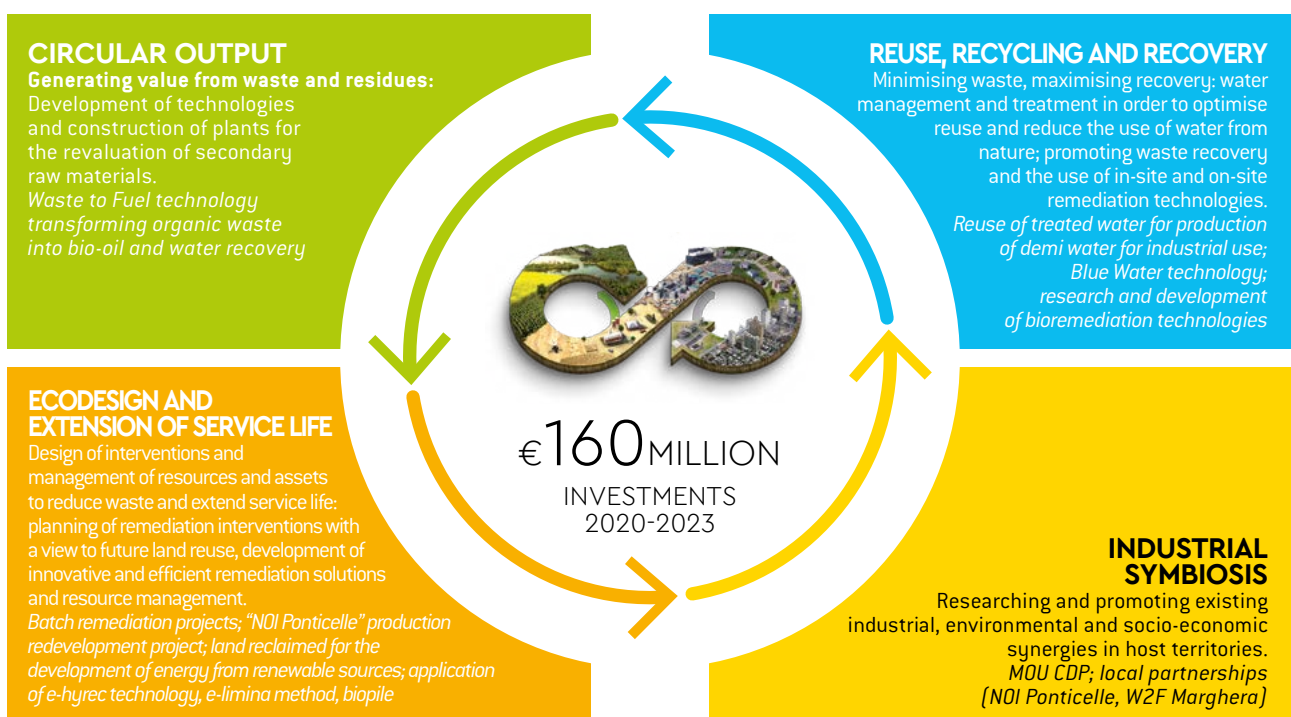
The Western world consumes limited resources and at a faster pace than it can regenerate, which risks exhausting their availability in nature. Today, compliance with the objective limits of our planet through a more efficient use of resources is the categorical imperative to limit environmental impacts and lay concrete foundations for achieving the sustainable development goals set out in the UN 2030 Agenda.

In line with Eni's mission, Eni Rewind works to contribute to the transition towards a more responsible economy, having integrated the values and principles of sustainability into its business strategy. Every day this commitment is put into practice, in synergy with the territories, through the redevelopment and revaluation of natural soil and water resources, as well as industrial, remediated and organic waste. Some sites where Eni Rewind operates are already a virtuous example of applied circularity, bearing witness to the company's desire to promote and implement a new economic model. Today the former industrial areas in Porto Torres and Assemini house plants for the production of energy from renewable sources. In Ravenna the NOI Ponticelle "New Opportunities for Innovation" project will transform a brownfield into a green energy island, while Gela has been chosen to field test the Waste to Fuel technology that transforms urban organic waste into bio oil and water.

To continue successfully on this path, it is essential to be able to rely on an adequate regulatory environment, so that strategic choices of companies become reality in a certain time frame and are consistent drivers for the efficient management of resources. Long-term public-private partnerships play a key role in this transformation process, with a view to building shared and lasting value.

The cooperation agreements signed by Eni for the promotion of the circular economy and the redevelopment of industrial production sites and assets move in this direction. An important milestone is the cooperation agreement between Eni and Cassa Depositi e Prestiti, signed in March 2019, for the development of Waste to Fuel plants on an industrial scale.

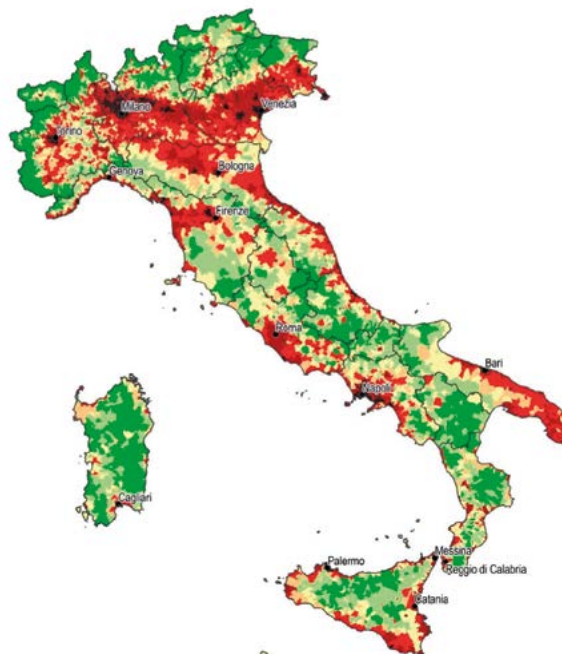
THE PILLARS AND LEVERS OF ENI REWIND'S CIRCULAR STRATEGY ARE:



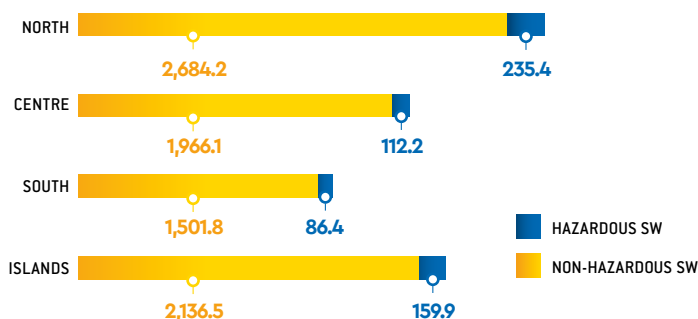
REFERENCE CONTEXT

LAND CONSUMED AT MUNICIPAL LEVEL
(% 2018)

Land consumption continues to grow in Italy and, in the last year of surveys, new artificial coverings have claimed another 51 square kilometres of green field, or an average of about 14 hectares per day. This is what emerges from the ISPRA Report "Land consumption, territorial dynamics and ecosystem services" – 2019 edition. "A transformation speed of just under 2 square metres of land that in recent times have been irreversibly lost every second".



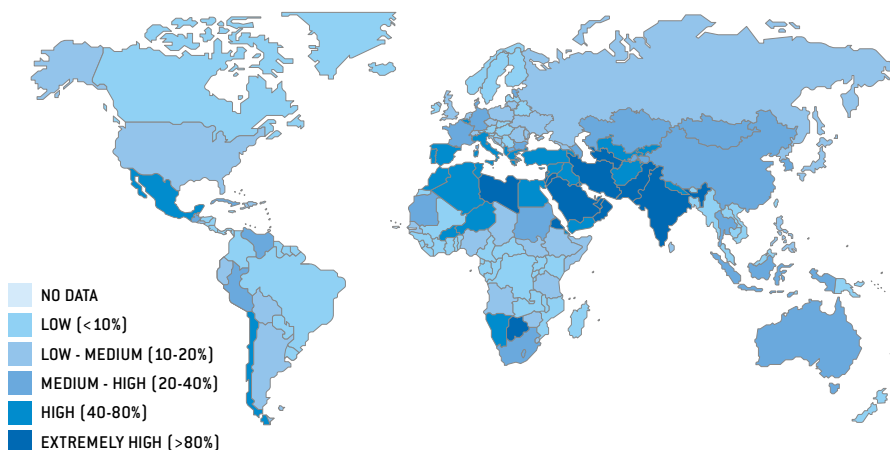
Source: ISPRA analysis of SNPA maps.

PER CAPITA PRODUCTION OF SPECIAL WASTE IN ITALY
(kg/ inhab*year)

National production of special waste, in 2017 was 138.9 million tons. Of these 101.1 million tons of special waste [hazardous and non-hazardous] were subjected to material and energy recovery operations. Compared to 2016, there was an increase of 4.1% in the total amount managed; in particular, the quantities sent for recovery increased by 7.7%, while those sent for disposal decreased by 8.4%. This is what is reported in the ISPRA Special Waste Report - 2019 edition.

BASELINE WATER STRESS TOOL 2019

According to the Aqueduct Water Risk Atlas prepared by the World Resource Institute (WRI), global water withdrawals have more than doubled since the 1960s and show no signs of slowing down. Almost a third of the world's population lives in a country with high water stress, such as Italy, where more than 40% of the available water is consumed each year. The WRI report indicates that in several regions of the world there are still untapped or dispersed resources, such as unused waste water, which through regeneration could provide a new source of clean water.





Claudio Spinaci

Chairman of
Unione Petrolifera



INTERVIEW WITH CLAUDIO SPINACI

Energy transition: where are we? What has changed after COVID-19 and oil at \$20?

The energy transition, or rather evolution, will be a long process, requiring commitment, research and investment. Admittedly, the health emergency associated with the collapse in oil prices has generated a profound economic and financial crisis in our sector, but this must not be an excuse for postponing environmental objectives. On the contrary, more attention needs to be paid to the economic and social impact of the instruments used to achieve them. To date, there is no single solution that can, at the same time, satisfy the growing energy demand expected in the coming years and achieve full decarbonisation of its production and usage processes. The industry's commitment must be to find solutions that will enable us to answer this specific question as effectively as possible. Our sector is certainly at a crossroads today, but it has all the skills and resources to be a leading player in responding to the challenge.

Are Italian consumers properly informed and aware of the energy transition?

I believe there is widespread awareness of the need to do something about climate change, among both consumers and businesses. Where I see less clarity is on the instruments to be adopted, which must combine environmental sustainability with economic and, above all, social sustainability, and that is why we need a 'technological neutrality' approach. From this point of view, public debate is often marred by ideological positions and prejudices towards certain industrial sectors. For example, the proposed European regulation on so-called 'sustainable finance' (taxonomy), as currently drafted, discriminates against the oil industry, which is instead developing solutions that can make an effective and important contribution to the decarbonisation process. I am thinking of biofuels or liquid fuels with low or no carbon emissions (e-fuels), which will play an essential role for many transport sectors (aviation, naval, road) and in other sectors (petrochemicals), but also CCS (Carbon Capture and Storage), CCU (Carbon Capture and Utilisation), renewable hydrogen.

What will be the shape of integrated oil companies in 10 or 20 years' time?

The models will change profoundly with the technological evolution accompanying this transition. Refining will have to be transformed in line with the decarbonisation process, focusing on new synthetic raw materials that are renewable or from the circular economy, depots to accommodate new products, the network of points of sale to meet the new demand for mobility. The European oil industry has already embarked on this path with the Vision 2050 project, which aims to cut GHG emissions in the transport sector by 85-90% by focusing on biofuels and e-fuel. Products that offer significant reductions in CO₂ compared to fossil equivalents. In short, carbon neutrality is also within our industry's reach. To this end, in early 2020 we amended our Articles of Association to include these activities in our corporate remit.

Are the laws on remediation, also based on those relating to service stations, functional to the expected change? What needs to be changed to foster a fair, effective and efficient transition?

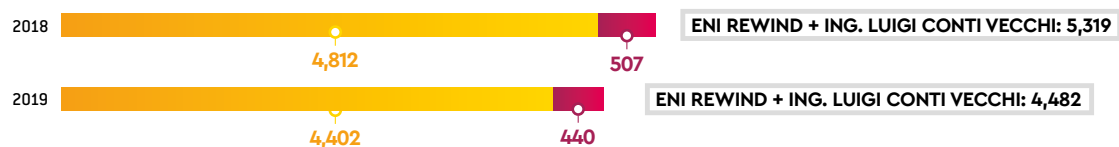
The evolution of the legal rules on remediation has tried to respond to different needs and on all aspects of compatibility with production activities, always ensuring the full safety of industrial plants. What operators need is a system of clear rules and certain time frames, because we are talking about interventions that require significant investments and planning. The sustainability of remediation interventions, exploiting in situ technologies for excavation and disposal, should be enhanced in the presentation of a project, and the overall positive impact should be assessed. With a view to developing the circular economy, remediation should be seen as part of a broader environmental recovery process, where the re-use of industrialised areas would replace the exploitation of virgin land (reduction of land consumption).

Decarbonisation: Eni Rewind's performance

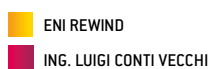
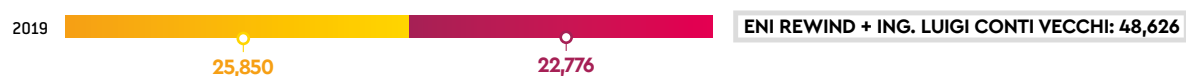
In 2019, Eni Rewind recorded a 16% decrease in tons of CO₂ equivalent compared to the previous year, contributing positively to the reduction of emissions of the Eni group.

2019 ENERGY CONSUMPTION (ENI REWIND, ING. LUIGI CONTI VECCHI) (tonCO₂eq)

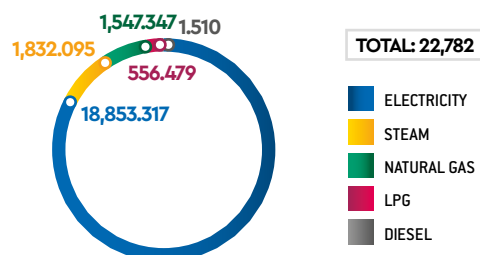
GHG SCOPE 1 EMISSIONS



GHG SCOPE 2 EMISSIONS



CONSUMPTION IN TONNES OF OIL EQUIVALENT (Tep)



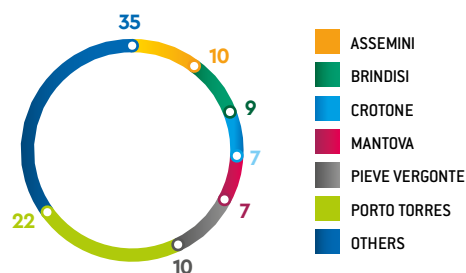
Niccioleta:
mining safety

Remediation

Environmental reclamation activities can generate opportunities for the territories in environmental, economic and social terms. Right from the early stages of the remediation process, in agreement with local institutions and stakeholders, Eni Rewind plans the projects for the areas to be remediated in order to make them available for new value-added projects, in line with the principles of the circular economy. Eni Rewind, present in more than 80 sites, of which 17 in 13 Sites of National Interest, is able to supervise each phase of the remediation process. From characterisation to final restoration certification, the aim is to maximise the effectiveness and efficiency of sustainable interventions. In recent years, the company has consolidated its role as a global contractor for all Eni companies. Since 2016, it carries out on behalf of Eni Refining & Marketing environmental recovery activities in disused and operating service stations in Italy, and in 2018 added soil and groundwater remediation activities following oil pipeline break-ins.

The growth and sharing of experience and skills gained in the design and execution of interventions allow the company to experiment increasingly innovative and sustainable techniques in tackling new design challenges. In compliance with current environmental legislation, close attention is paid to the application of in situ technologies that Eni Rewind prefers as they allow the remediation of soils and groundwater in their natural environment, without resorting to excavation and disposal operations, thus minimising the carbon footprint of remediation interventions.

MAIN PROJECTS ON OWNED SITES (%)

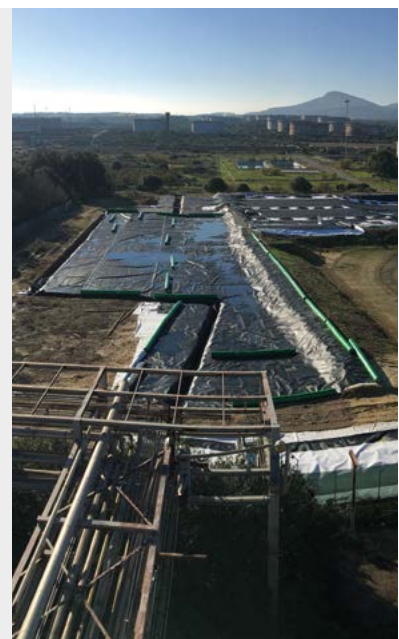
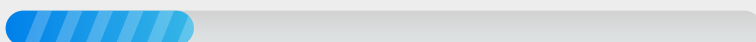


PORTO TORRES - NURAGHE PROJECT

The Nuraghe Project, divided into two phases at the request of the authorities, concerns the Minciareda, Peci DMT and Palte Fosfatiche areas, and is characterised by high sustainability standards. A multi-purpose platform for the on-site treatment of excavated land is currently being set up. The platform, which uses the most advanced technologies (thermal desorption, soil washing, biopiling, inertisation), will allow the in situ reuse of treated land, complying with the remediation objectives for filling the excavations from which they derive, avoiding transportation away from the site. The project also uses multi-phase extraction technology to remove volatile contaminants that have migrated into the soil from the underlying groundwater.

Phase 2, relating to the remediation of the Palte Fosfatiche area (TENORM – natural radionuclides – according to Legislative Decree 230/95 art. 165 bis) is awaiting authorisation.

STATE OF PROGRESS PHASE 1



BRINDISI - REMEDIATION OF THE MICOROSA AREA OUTSIDE THE PLANT

Eni Rewind owns a 36-hectare portion of the Micorosa area, while the remaining 48 hectares are owned by the Municipality of Brindisi. In March 2014, Eni Rewind, the Municipality of Brindisi and the Puglia Region signed a programme agreement for the Permanent Safety Containment – MISP for the Micorosa area and other areas outside the plant.

The remediation project approved in 2018 also provides for the repositioning of the Pandi Canal bed. Physical containment works are being carried out in Eni Rewind areas through the construction of an underground waterproof plastic diaphragm, with on-site recovery of the excavated land, the reforestation of 30 hectares with native species as well as groundwater management works.

STATE OF PROGRESS



PIEVE VERGONTE - REMEDIATION PROJECT

The site is divided into an external area and an area inside the perimeter of the plant. For the internal area, following the agreement with the authorities, the project was approved by Decree in 2014, contemplating, among other interventions, the restoration of the original natural riverbed of the Marmazza river, tributary of the Toce river, which was diverted in 1918 within the industrial site. For this reason, the project also includes the construction of drainage works at the point of diversion and the reinforcement of the left bank of the Toce river. In close coordination with the local institutions, talks are ongoing with Eni Rewind for the acquisition of the areas affected by the diversion of the river. Barrier wells for the treatment of groundwater are being upgraded downstream of the site and the GTP system is being expanded with two additional lines, for a maximum flow rate of 1,250 m³/h; in situ air sparging and soil vapour extraction are also under way. Soil remediation will be carried out using on site soil washing technology with subsequent relocation to the natural site through confinement of treated soils.

STATE OF PROGRESS



OPERATIONS ON SERVICE STATIONS AND THE PIPELINE NETWORK

The activities carried out during the year on approximately 850 Eni service stations (both operating and disused) involved soil and groundwater remediation, decommissioning and asbestos removal activities, as well as environmental Due Diligence preparatory to the regeneration of the existing assets. With a view to increasing the sustainability of the interventions, Eni Rewind reduced the number of Pump & Stock systems installed for the treatment and external disposal of groundwater by about 30%, replacing them with on-site treatment systems (Pump & Treat). Furthermore, it brought to around 40% the recovery of contaminated soils.

In 2019, Eni Rewind managed about 70 contaminated soils and groundwater remediation interventions following deliberate break-ins on Eni's oil pipelines located in Northwest and Central Italy.

In this context, the company identified a contaminated area in which it carried out a pilot test aimed at testing sustainable remediation technologies, such as phytoremediation or innovative biological processes for contaminant biodegradation.





Sean Wheeler

Mayor of Porto Torres



INTERVIEW WITH SEAN WHEELER

Mayor Wheeler, how do you assess the progress made by Eni Rewind, Eni's environmental company, in its environmental recovery activities at the petrochemical site in Porto Torres?

Before answering this question, we must take a step backwards: when we talk about Porto Torres in Italy, we immediately think of the petrochemical industry that, for better or worse, has marked the last sixty years of our city's history and a vast portion of its territory. For better, because it has guaranteed economic well-being for a given period of time, for worse because, as we well know, it has left unemployment and pollution. This is a fact that cannot be ignored, and I sincerely believe that it should always be taken into account.

It allows us to assess the commitment not only of the company, but also of institutions and public opinion. People, citizens and their representatives in the various administrations have shown that they deeply care for their land. Concern and respect for the environment is in our interests and those of future generations, and must be balanced against profit. Returning to remediation, there are still many bureaucratic and technical complexities. We should remember that the times of nature are not those of us humans, and complete recovery can take place in the long term, but having begun remediation, together with an understanding of the needs of the territory, are an excellent starting point.

For the Porto Torres site, Eni Rewind has spent approximately €370 million to date and will have to spend as much again for interventions and management in the coming years according to the decrees which have been issued with your own direct participation. How do you assess your experience as mayor also with a view to the return for the territory?

It was very important for our administration to have participated in the services conferences for the remediation works. We have worked hard to ensure the best possible future for the lands and therefore for our citizens, giving our full contribution at each meeting. I also believe that this is essential because the process has moved on two tracks, one environmental and other employment-related. It has to be said that expectations were high. However, it is extremely difficult for people to understand the extent of the remediation interventions. It is objectively difficult to understand something that is not seen and is hostile both technically and from a communication point of view. And then there is the issue of employment. There is a gap in professional terms, this is one of Sardinia's sore points: we were not ready to provide the skills needed, and so much of the manpower was hired from elsewhere.

In any case, no one has forgotten the "Memorandum of Understanding on Green Chemistry" which in addition to the remediation works was meant to bring the new bioplastics industry centre to Porto Torres. The industrial commitment has partially been met, while for the environmental recovery process I am proud to have taken part in the complex decision-making process that led to the approval of the Nuraghe Project and the so-called "Water Decree".

Eni Rewind has made available to ENE – Eni New Energy – its own anthropised lands not available for other uses for the development of renewable energy power plants. What do you think of this initiative?

As many people know, I am quite an ecologist, and committed to the environment. Generally, therefore, I am in favour of the development of industrial areas through the installation of electricity generating plants from renewable sources: what is old must be dismantled, the area remediated and, if renewable sources are placed where the industrial fabric has died, so much the better. But beware: this principle must be combined with the protection of the landscape and, of course, greater environmental protection. I do not agree with the consumption of land, especially virgin land. When it comes to green energy, businesses are also willing to sacrifice portions of intact, vegetation-rich land: I have always opposed this and, when possible, I have formally expressed negative opinions as mayor. Why install wind towers or solar panels in the Mediterranean scrub? On this logical thread comes the "Energy Income" project. This experiment started out in our city and allows the population to have a solar plant. It is installed on the roofs, bills decrease and our citizens obtain energy autonomy. The second phase, financed by ENE compensatory measures, will start soon. A starting point, I hope, for public-private cooperation.

Eni Rewind's contribution to renewables

Areas owned by Eni Rewind, which cannot be used for other uses, are enhanced as part of Eni's initiatives for the development of renewable energy solutions. The consolidated synergy with Eni New Energy, a group company dedicated to the development of projects for the generation of energy from renewable sources, is a concrete example of circular economy. After the environmental intervention by Eni Rewind, disused and no longer productive soils are used to house renewable electricity production plants that contribute to Eni's energy transition process. The energy produced is used for the energy needs of Eni's industrial assets and the remaining part is fed into the network.

In this path towards a low-carbon future, between 2018 and 2019, the construction of photovoltaic plants in Assemini, Gela and Porto Torres on Eni Rewind areas, for a total of 100 hectares, is significant. In addition to these, by 2023, another 300 hectares will allow Eni New Energy to reach a total installed capacity of 250MW.

Assemini was chosen to house the first photovoltaic plant built by Eni in a Site of National Interest with a current capacity of 23 MW. The energy generated feeds the salt processing cycle of the company Ing. Luigi Conti Vecchi, covering part of the total energy needs of the asset.

At the Porto Torres site Eni Rewind provided some of its areas to house the largest photovoltaic park built by Eni so far, with an installed capacity of 31 MW. The annual production of the plant, inaugurated in early 2020, is intended in part for companies present at the industrial site, with savings of around 26 thousand tons of carbon dioxide per year.

Again in Porto Torres, a 34 MW wind farm is being designed and will be built and managed by Eni New Energy on an Eni Rewind area.

400 hectares

Industrial land intended for reuse for renewable energy projects

12

Regions in Italy



TO FIND OUT MORE: see enirewind.com

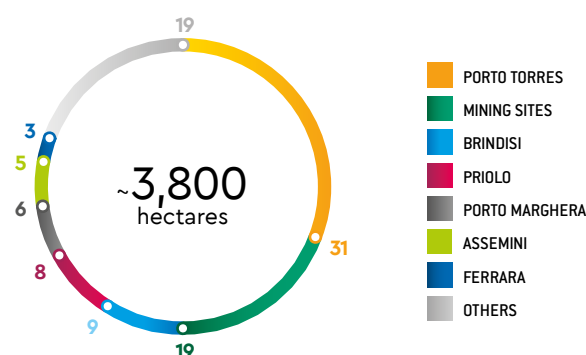
31 MW photovoltaic plant with the reuse of 570,000 square metres of areas owned by Eni Rewind within the Site of National Interest of Porto Torres



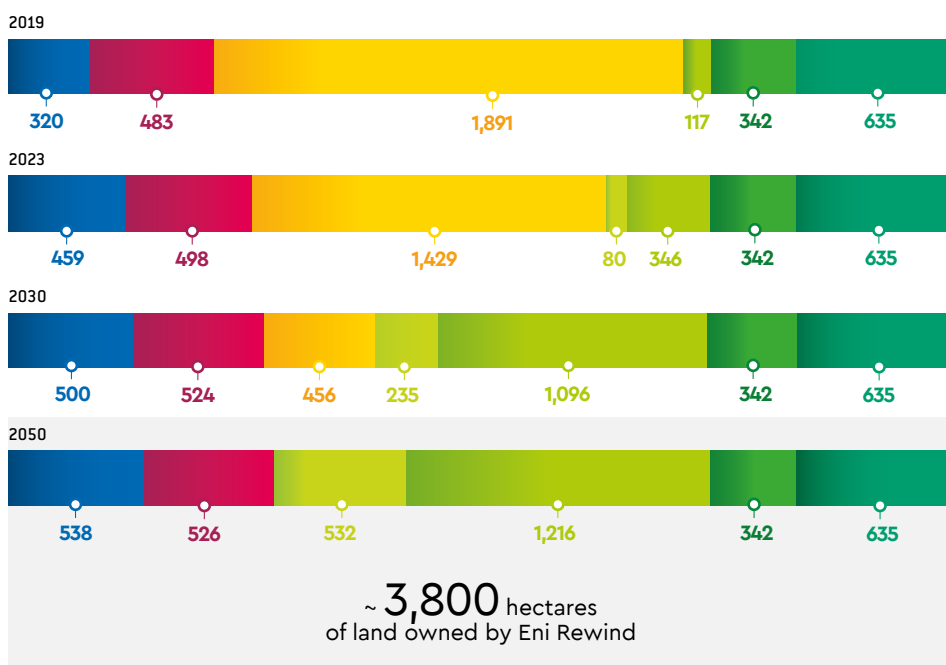
Remediation and redevelopment of industrial areas

Land is a limited resource because it is not reproducible. Abandoned and unusable industrial areas are a critical environmental problem, as well as a source of economic and social damage if not regenerated. Eni Rewind's challenge is to breathe new life into the local regions also through the revaluation of areas owned by the Company. The reuse of abandoned areas through reclamation projects planned in view of their redevelopment can offer many benefits, as these areas are located in man-made industrial areas that can be used for new production activities, in line with the prospects of environmental development and a circular economy.

TOTAL ENI REWIND AREAS (%)



STATE OF ENI REWIND OWNED LAND (hectares)





BEFORE



AFTER (RENDERING)

RAVENNA PONTICELLE

The NOI Project (New Opportunities for Innovation) sees both the integration between the different Eni companies and the constant and constructive interaction with the territory. The project, which combines inclusiveness and sustainability according to the principles of the circular economy, is a concrete example of how remediation is an added value for the territory, with the future development of the area planned right from the design stage of the environmental interventions.

The NOI Ponticelle Project provides for a Permanent Safety Containment intervention (capping of 18 hectares) and the implementation of a productive redevelopment plan for the entire area (26 hectares). From conception to implementation, Eni's various businesses are involved, operating in symbiosis with local realities, to make the area available to host:

- A Remediation Technology Centre (CTB) with a biopile plant, a technology that uses indigenous micro-organisms (bacteria) to biodegrade hydrocarbon contaminants in aerobic conditions, thus making the land reusable
- A multi-purpose platform designed for processing the materials from the Ravenna site and Eni's other activities in nearby areas, with the aim of maximising recovery
- A photovoltaic plant, including an Energy Storage system, which will provide 90% of the total energy produced to the new plants envisaged by the NOI Ponticelle Project.



The current project on Ravenna Ponticelle is a virtuous example of environmental recovery and productive redevelopment in a circular and low-carbon perspective



TO FIND OUT MORE:
see enirewind.com

Water Management

42

Water treatment plants

31

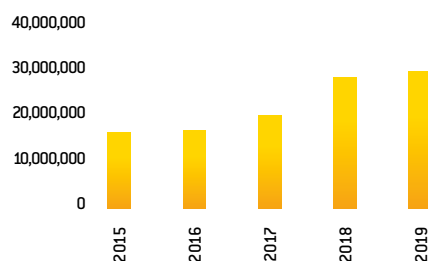
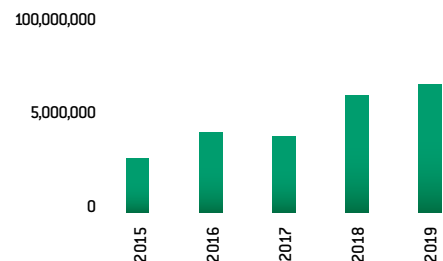
Bln m³ treated water

5.1

Bln m³ recovered water

Eni Rewind is engaged in the implementation of major groundwater remediation interventions throughout the national territory. The activities are implemented via an integrated aquifer interception system – consisting of 1,000 pumping wells and 2,000 monitoring wells – and the conveyance of water to treatment plants (GTPs) for purification. All assets are aligned with the best technologies available (Best Available Technology - BAT and Best Available Technology Not Entailing Excessive Cost - BATNEEC). The Company also manages urban and industrial biological treatment systems at the Gela, Cengio and Manfredonia sites. Water treatment processes include strict monitoring plans that ensure full compliance with water discharge quality and atmospheric emissions.

To promote the recovery and regeneration of water resources, in a circular economy perspective, the Company promotes and supports research into sustainable and efficient management solutions, with the aim of maximising reuse and reducing the withdrawal of water from the environment. This objective has led to the installation and activation of special demineralised water production sections at GTP plants in Priolo, Porto Torres, Assemini and Brindisi, for subsequent reuse within the industrial site. In other cases, such as in Manfredonia, the treated water is partially re-injected into the groundwater to restore the natural conditions of the aquifers. In 2019, Eni Rewind treated about 31 million cubic metres of water, recovering about 5 million mainly for industrial use.

WATER TREATED (M³)WATER RECOVERED (M³)

INNOVATIVE SOLUTIONS FOR OPTIMISING WATER MANAGEMENT

Eni Rewind promotes the optimisation of water treatment processes to minimise water consumption by researching new technical solutions and in the continuous renewal of its plants. In this way, greater production efficiency corresponds to greater respect for the surrounding environment and for the health and safety of its workers.

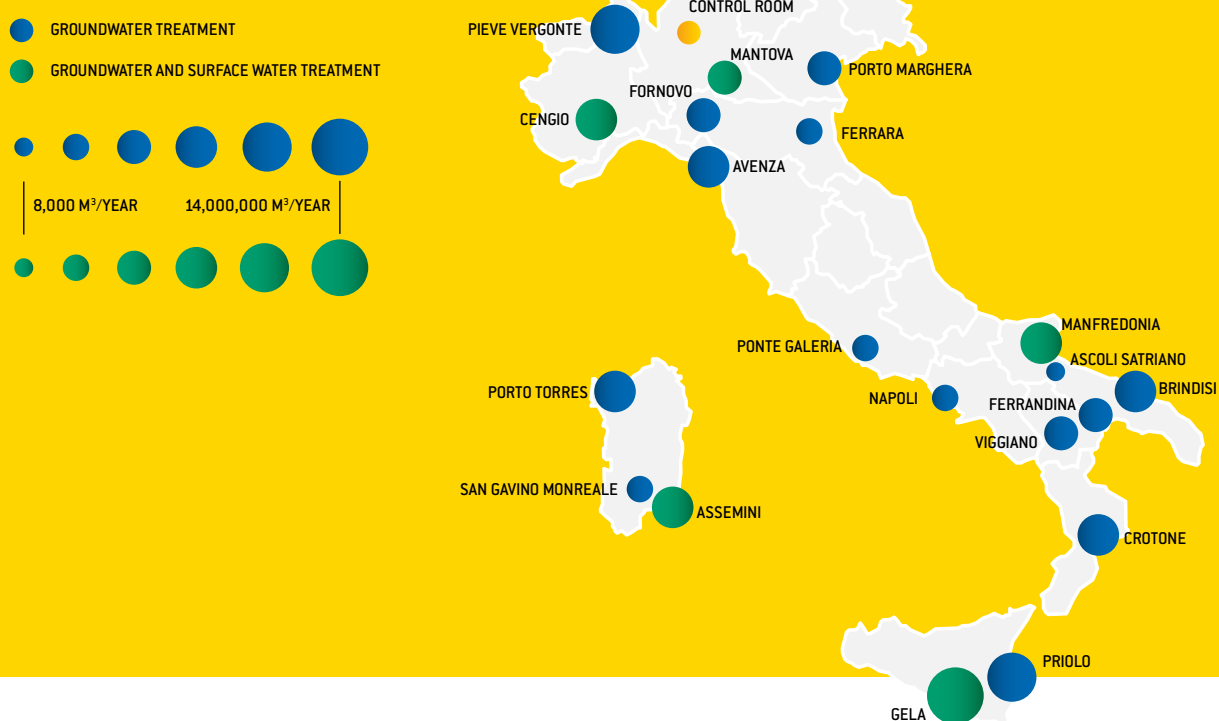
- In Crotone, the project of automation and digitisation of the hydraulic barrier management was completed through the application of an instrument able to control the flow rate of the wells. Based on the data recovered from the piezometric monitoring network, only the amount of water required to ensure remediation operations is pumped from the groundwater. To date, a reduction in the amount of water pumped is estimated to be about 5-10%, which corresponds to an equivalent energy optimisation.

- In Priolo in 2019, the pilot project for the application of the new Dynamic Control System was completed, based on refining experience and ensuring the management and optimisation of process variables (such as pressure, flow rate and pH) simultaneously and in real time. Its adoption on the Priolo GTP has led to a reduction in both energy (-10%) and reagent consumption (-15%), as well as an increase in the production of osmotized water. This system will be progressively extended to other plants. Furthermore, in Priolo, in 2019, the project for the construction of a reactive permeable barrier of about 250 metres in length was approved. This remediation system intercepts the groundwater through the construction of a trench (barrier) containing specific reactive materials that, crossed by the groundwater flow, draw out the contaminant. These barriers are a more sustainable alternative to Pump & Stock¹ systems. In Priolo, the intervention will considerably increase remediation efficiency, removing about 90% of the mass of contaminant already in the first stage of the barrier.

1) Combined system of groundwater extraction and subsequent disposal thereof.



WATER TREATMENT SYSTEMS (VOLUMES 2019)



BLUE WATER TECHNOLOGY

For the sustainable management of water resources associated with mining activities, Eni Rewind has developed its Blue Water technology for the treatment and recovery of production water.

Through the use of this technology – patent pending – it is possible to regenerate the water extracted with the production of crude oil. Specifically, as is the case in traditional urban and industrial waste water purification plants, the system treats water to return it to the surface water body or, after further treatment, to send it for industrial use. At the same time, the Blue Water plant reduces the disposal of outgoing waste (salt solutions and sludge) and minimises the use of water from natural sources.

The Val d'Agri Oil Centre in Viggiano is currently designing the first industrial-scale plant that will treat part of the water currently sent for disposal, recovering up to 97% to meet the site's industrial water requirements. The project is currently at an advanced engineering stage and the permit applications are being processed by the local authorities.

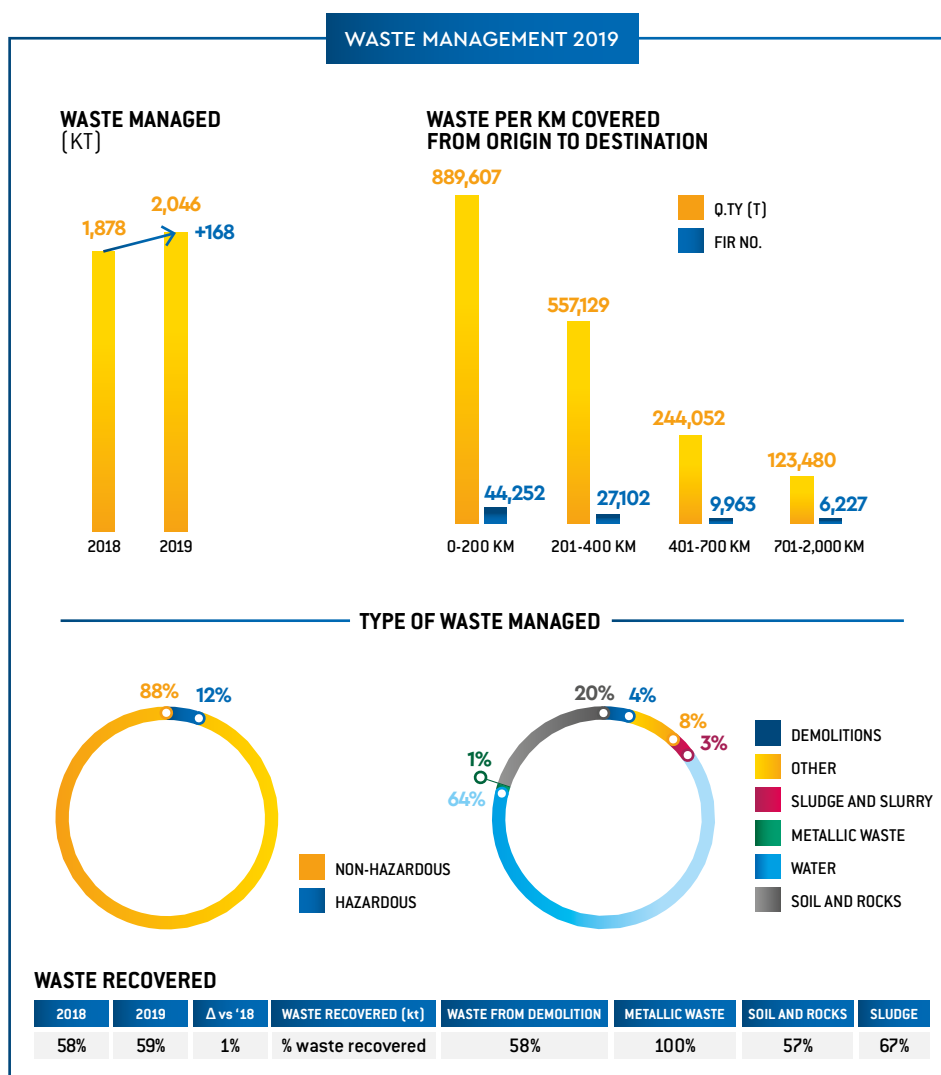
Groundwater treatment plant
in Porto Torres



Waste Management

The recovery of industrial waste and water is a target of the circular economy that Eni Rewind pursues in its Waste Management activities. The Company manages the cycle of waste produced by Eni's industrial activities or from its remediation and decommissioning activities, ensuring the constant control of the entire supply chain on a daily basis. In 2019, around 2 million tonnes of waste were managed, of which about 90% on behalf of Eni. In line with the sector's best practices, Eni's environmental company has launched a plan of interventions to increase the share of waste sent for recovery as an alternative to being sent to landfills. Using consolidated technologies such as biopiles and soil washing, in 2019 about 169 thousand tonnes of waste (59%) were recovered compared to 285 thousand potentially recoverable tonnes. In particular, the soil remediation project at the Tempa Rossa area (Taranto refinery) continued with the excavation and recovery, through soil washing, of about 48 thousand tons of soil and rocks.

Furthermore, to reduce the environmental impact due to the transport of waste by road, Eni Rewind adopted optimised transport solutions that, in 2019, led to a 10% decrease in the weighted average of kilometres travelled per tonne of waste treated. In fact, 49% of the total volume treated in 2019 was managed within a 200-kilometre range.



LABORAE PROJECT - SOCIAL CIRCULAR ECONOMY

LaboRAEE is the first example of social circularity that combines the principle of waste recovery with that of inclusion, through cooperation between public and private entities, promoted by the Lombardy Region and the Municipality of Milan with the companies A2A, AMSA and Eni Rewind.

In 2019, the platform inside the Bollate prison, staffed by inmates, recovered about 85 tonnes of WEEE (mainly PCs, peripherals, servers, disused control desks) from Eni sites in northern and central Italy.



Waste to Fuel
pilot plant in Gela



WASTE TO FUEL

Eni has developed its proprietary Waste to Fuel (W2F) technology for the transformation of OFMSW (Organic Fraction of Municipal Solid Waste) into bio-oil (up to 16% of the incoming load) with recovery of the water contained in the wet waste (between 60 and 80%). Given its low sulphur content, bio oil can be used for maritime transport, or can contribute to the production of advanced biofuels, while the recovered water can be used for industrial purposes. Eni Rewind is active in the development of plants, starting from the pilot plant operating in an area of the Gela Refinery, which provides the necessary evidence for the application of the technology on an industrial scale. As provided for in the Memorandum of Understanding (MOU) signed by Eni and Cassa Depositi e Prestiti (CDP) on 12 March 2019, the development of industrial plants in Italy will take place through the Joint Venture CircularIT, owned 49% by Eni Rewind and 51% by CDP Equity. The first project, in cooperation with Veritas, the multiutility of Venice, is planned in Porto Marghera and is to be built in an area remediated by Eni Rewind. The plant will have a treatment capacity of up to 150 thousand tons per year, equivalent to the OFMSW produced by approximately 1.5 million inhabitants.

The Waste to Fuel technology meets the requirements of the circular economy while reducing raw material use for energy production, the amount of unrecovered waste and greenhouse gas emissions



TO FIND OUT MORE:
see [enirewind.com](https://www.enirewind.com)



Luigi Brugnaro

Mayor of Venice



INTERVIEW WITH LUIGI BRUGNARO

Eni is a historic presence in Porto Marghera and today an important player for the sustainable future development of the territory. How do you think Eni Rewind's environmental interventions can be a lever for the medium/long-term development of the industrial fabric of Porto Marghera?

In its millennial history as the "Most Serene Republic", State of the Sea and State of the Land, Venice has always been the symbol of resilience, knowing how to transform the difficulties it faced into opportunities for development. One of the challenges facing us today is undoubtedly the protection of the environment and, to this end, that of the circular economy.

Eni's presence in Porto Marghera goes back almost to the origins of our industrial centre. A company that, during its presence in Venetian territory, has been able to demonstrate a desire to invest and grow that today combines with close attention to protecting the environment. A strategy that Eni puts into practice through its environmental company dedicated to the redevelopment of those areas, such as Porto Marghera, that have hosted the great industrial developments of the past and that today can return to host new and more sustainable production activities. The common direction must therefore be to revive a vital and historically important centre, in order to build a future perspective of revitalisation based on innovation and sustainability, together. These commitments have led us to sign, in 2019 alone, two agreements that, on one hand, promote the redevelopment of the areas and on the other hand aim to build precisely that plant capable of transforming the organic fraction of municipal solid waste into next-generation fuels in the logic of "Waste to Fuel".

How did you feel about Eni Rewind's proposal to build the first Waste to Fuel industrial plant in Porto Marghera, also in terms of future prospects?

The city has made the circular economy and innovation one of its strengths and, in recent years, the Municipal Administration has invested a lot of energy and resources to support this virtuous path capable of transforming a cost and a problem into an advantage. When Eni Rewind, Eni's environmental company, explained the "Waste to Fuel" technology for the transformation of the Organic Fraction of Municipal Solid Waste into bio oil and water to me, I realised that it was the right project to restore Porto Marghera's vocation as a place of innovation and progress that has characterised its history since its foundation. A virtuous project to "combine" the construction of the first Waste to Fuel industrial plant in Italy with the conversion and productive redevelopment of a Petrochemical area of Porto Marghera in which up to 150 thousand tons of OFMSW waste will be treated per year. Being pioneers of this "new era" can only make us proud because it confirms Venice's vocation as a leader of environmental sustainability, giving new life and energy to waste that would otherwise be dispersed. Together with Veritas, we have created a real district of the circular economy within the UNESCO World Heritage Site of "Venice and its Lagoon".

How do you think the Waste to Fuel plant can contribute to the efficient management of your municipality's bio-waste, and how much will it change the ecological awareness of your citizens?

Venice and its citizens already have a considerable ecological awareness: it is no coincidence that for the third consecutive year we were recognised as the first Italian metropolitan area for good practice in separate waste collection. It is also because of this important evidence that I consider my city an ideal candidate for the adoption of the most innovative and sustainable waste management practices that can then spread throughout the rest of the country. My hope is that the W2F project in Porto Marghera will become a national reference point for the construction of plants in other cities, to the benefit of a fairer and more responsible economy for the whole country. In this way, Venice shows that it is looking to the future, and on this journey it is proud to have Eni at its side, a company that represents in all respects an Italian excellence in the world".

INTERVIEW WITH LUCA D'AGNESE

**Luca D'Agnesse**Cassa Depositi e Prestiti –
Director of Energy and Digital**What is the mission of your department in Cassa Depositi e Prestiti, or more generally in the “industrial” branch of CDP?**

The mission of the Cassa Depositi e Prestiti Energy and Digital Department is to develop, together with partners from different industrial sectors, initiatives in which CDP invests through its equity instrument. The goal is to create opportunities for the development of energy infrastructures, in order to improve the sustainability profile of the country, and digital infrastructures that tap into innovation; more specifically in digital transformation it sees new opportunities to enhance and increase the efficiency of public services. CDP's traditional mission of financing infrastructures and service providers is complemented by that of supporting them through the creation of new initiatives aimed at making them incubators of innovative projects through our industrial partners, of which Eni is the main candidate in the energy field.

In this strategy, in which main areas do you hope for cooperation between CDP and Eni, what are Eni's main strengths?

Our cooperation with Eni is all-round, and in addition to the initiatives launched with Eni Rewind, also concerns for example the renewable energies sector.

The common denominator of the ongoing projects with Eni's environmental company is to develop and implement innovative technologies for the regeneration of waste with a view to the circular economy, with particular attention to the reuse of waste in energy supply chains. This is the goal of Eni Waste to Fuel technology that transforms the organic fraction of municipal solid waste (OFMSW) into a bio oil that can be used in different chains, from maritime transport to use in the production of next-generation fuels, also allowing the recovery of the water contained in the waste.

This cooperation with Eni Rewind will lead to the CircularIT joint venture, which aims to promote the development of large Waste to Fuel plants based on the technology that Eni has developed in its research centres and is using on a pilot scale in its Gela refinery.

This innovative technology offers two main benefits: on one hand, in the treatment process, which offers a number of advantages to municipal companies, in particular that of transforming OFMSW into biofuel with a high efficiency in terms of both costs and usage of space; on the other hand, economic efficiency, as it is an environmental solution that is self-supporting, without the need for incentives. These elements represent an added value of great interest to us.

Along which lines of action do you expect the new JV CircularIT to develop? What are the benefits for the country and for energy transition?

Cassa Depositi e Prestiti's contribution aims to introduce and experiment with an innovative method for the waste sector, that of cooperating with municipal companies, and in general with local authorities, which manage separate waste collection. This method is implemented by public-private partnership, which provides for long-term forms of contractual procurement, at a predetermined price, guaranteeing disposal for the municipal company. The benefit is particularly significant because Italy is facing the problem of the growing share of waste sent for separated disposal, with repercussions in economic and environmental sustainability terms. Faced with this need, with a system of plants that are difficult to expand, the municipalities are fronting rising prices. The advantage of being able to plan the long-term disposal of municipal solid waste at a predetermined price, through a partnership agreement, is an innovative element that CDP will be able to guarantee thanks to a major industrial investment ensuring competitively priced waste treatment using one of the most sustainable technologies on the market today.

2



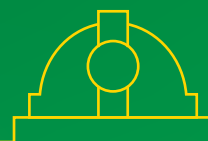
Operational excellence model

In line with Eni, our model for operational excellence focuses on our commitment to enhance people's value and protect the environment in which we operate. For us, operational excellence means conducting every activity with the utmost attention to sustainability, promoting the health and safety of workers, and more generally human rights, operating with integrity and transparency. These founding values allow Eni Rewind to welcome the opportunities related to new environmental challenges and the circular economy in a forward-looking manner, through technological innovation and the skills and experience gained in the field over the years.



Each of us

Safety



Environment

Human rights



Transparency and anti-corruption

Each of us



WHY IS IT IMPORTANT TO ENI REWIND?

Eni Rewind's most important resources are people, their skills and their energy. The women and men who work there are unique assets and a strategic factor in maintaining the level of excellence and taking on new challenges. The people share the company's values, like team spirit, respect for the environment and the local community. The Company promotes the creation of a work environment that offers opportunities on the basis of shared merit criteria and non-discrimination.

Policies and other regulatory instruments

"Our People", "Integrity in our Operations", "Operational Excellence" Policies

Management tools

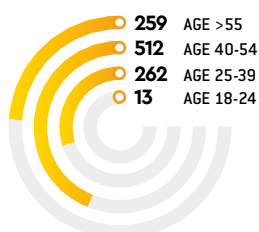
Integrated health, safety and environment and quality management system: compliant with ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:07 standards for health and safety management

THE TEAM

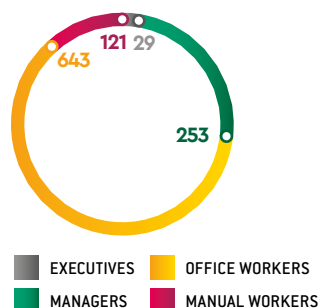
EMPLOYEES (NUMBER)



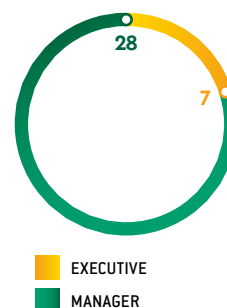
EMPLOYEES BY AGE GROUP IN 2019



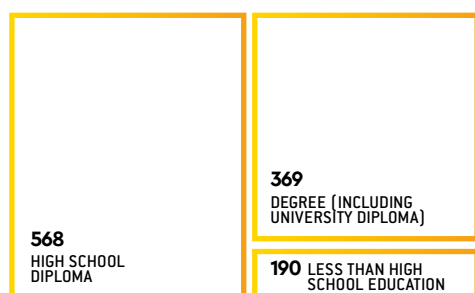
EMPLOYEES BY PROFESSIONAL CATEGORY



WOMEN IN POSITIONS OF RESPONSIBILITY



EMPLOYEES BY EDUCATION



In 2019, total headcount was 1,046 employees, a net increase of 57 people compared to 2018.

Diversity & Inclusion

Each person with their own individuality contributes to creating value in support of Eni Rewind's goals and major transformations. In 2019, together with Eni, a series of initiatives were promoted to raise awareness on inclusion, such as internal notice formats entitled "D&I matters" with a specific focus on Unconscious Bias and open access courses on Eni's training platform providing perspectives and tools in order to recognise the value of all types of diversity.

The main "D&I Matters" actions carried out in 2019 are:

- cooperation with the academic world to promote "professional technical" career paths with a focus on **attracting female talent** (such as Think About Tomorrow - paths for young women, Elis – the School-Business system, InspirinGirls, WomENCourage) and workshops at universities, also with the involvement of corporate role models;
- initiatives promoted by Italian and international associations, such as Valore D and ERT (European Round Table) to share best practices, identify common actions to **enhance women's leadership**; the commitment to support the Women's Employment Manifesto signed in 2017 (Italy) continues;
- the **MAAM – Maternity as a Master programme**, to transform the parenting experience for mothers and fathers into an opportunity to discover and train soft skills also essential on the job;
- initiatives to promote intergenerational turnover, such as the Mentoring project, in which experienced managers support the career path of younger resources, and the Eni Faculty, with more than 800 active trainers enhancing the internal knowledge capital and developing the ability to transmit it.

Welfare

As part of the initiatives aimed at reconciling life and work schedules, as of 2018, Eni Rewind introduced the organisational and illness-related Smart Working tool, in addition to that for new parents (with children from 0 to 3 years), activated in 2017.

In 2019, participation in the organisational Smart Working involved 245 resources with positions deemed compatible with the project, while 13 more workers joined the neoparental and 6 the illness-related Smart Working programmes.

WORK-LIFE BALANCE

Smart working for all workers in non-operational Italian locations and for all employees who are new parents or have disabilities or disabled family members.

PARENTHOOD

Allowance of 10 working days' leave at full pay for both parents in all countries of presence.

HEALTH AND WELL-BEING

Corporate catering services based on a quality system to guarantee food safety and the promotion of a healthy diet.

FAMILY

Eni nursery school for children up to the age of 6, with the opening of the nursery in Rome and increased access to the San Donato Milanese facility.

Educational/vocational guidance service to support children in their post-diploma choices and in preparing for admission tests. Fragility: service for caregivers to provide support in the management of dependent family members. Services for specific learning disorders are also available.

PREVENTION CAMPAIGNS

Initiatives aimed at promoting a culture of prevention with check-ups in top facilities as well as targeted specialist visits (early diagnosis plan).

Training and development of professional paths

Eni Rewind enhances human capital with initiatives that promote the development and strengthening of the skills necessary in the Company. It also supports and encourages professional development, offering job opportunities in Italy and abroad.

In continuity with the work carried out in the last three years, also in 2019 some initiatives were promoted to enhance human capital, or encourage the contributions that everyone can give, fostering the development of knowledge and skills. Particular emphasis was placed on the issue of integration and knowledge of processes and roles, as well as on the design of activities able to support resources in managing the current company changes, with the consolidation of Eni Rewind's role as an Environmental Services Company and the expansion of the scope of activities abroad.

Some of the most important initiatives include:

- Training course on contract management: developed in cooperation with Eni Corporate University, the training course covers post-award contract management. Two different types of courses were delivered, the first dedicated to contract managers for a duration of 3 days with the participation of about 90 resources and the second dedicated to users for a duration of 1 day with the participation of over 100 resources.
- The HSEQ integrated management system: the training course – consisting of 6 short multimedia pills developed in cooperation with ECU – dedicated to the entire population of the company was completed, aiming to raise awareness among all Eni Rewind people about the management systems present in Eni and why they are important.
- Specialist course on water treatment: a specialist training course was delivered by lecturers from Turin Polytechnic on membrane separation processes and water and waste water treatment technologies. The course, divided into 4 modules with a total duration of 32 hours involved about 60 of our people.

43,107

Total hours of training

49%

HSEQ contents

PERFORMANCE APPRAISAL

A performance appraisal is one of the essential tools for managing resources and a guide for the continuous improvement of management and professional skills. Performance appraisals are done for all executives and middle managers included in organisational documents as well as young university graduates, with a progressive expansion of the employees subject to performance appraisals. Goals are derived from the Eni annual performance plan and the planning and budgeting process, and also include sustainability objectives.



TO FIND OUT MORE: see *Eni For 2019 - A just transition* (pages 28-30)

Personal health

In 2019 the programme implementing an integrated health management system (HSEQ and HR) continued, with the aim of promoting and maintaining the health and well-being of people and ensuring adequate risk management in the workplace.

OCCUPATIONAL MEDICINE - CHECKS-UPS CARRIED OUT IN 2019

periodical check-ups	701
preventive pre-recruitment medicals	118
medicals for resuming work after 60 days' absence for health reasons	14
medicals on termination of employment	24
job change check-ups	37
medicals at the request of the worker	14
extraordinary medicals (postponement of pregnancy leave)	3

As regards the activities abroad, a health surveillance programme for such cases continued, this year involving 29 employees. In conjunction with Eni, company physicians provided Traveller's Medical services to employees who travel to countries outside the EU, which include counselling and training before departure and allow verification of the employee's vaccinations.

In terms of healthcare, 204 medicals were carried out for employees and 47 for contractors at the medical facilities. The main reasons for using medical facilities are:

- Check-ups of pre-existing conditions (arterial hypertension) or administration of therapies prescribed by GPs or specialists;
- symptoms affecting the osteo-muscular system, mostly for previously diagnosed cases;
- symptoms affecting the respiratory system, mostly as a result of cold-related illnesses.

Finally, health promotion initiatives continued, both at local level and through participation in Eni projects; campaigns for cancer prevention and prevention of cardiovascular diseases were proposed.

All Eni Rewind employees were sent a notice by e-mail on the launch of the project dedicated to former employees exposed to carcinogens; 118 employees took part. Dedicated screening programmes have already been launched on some sites.

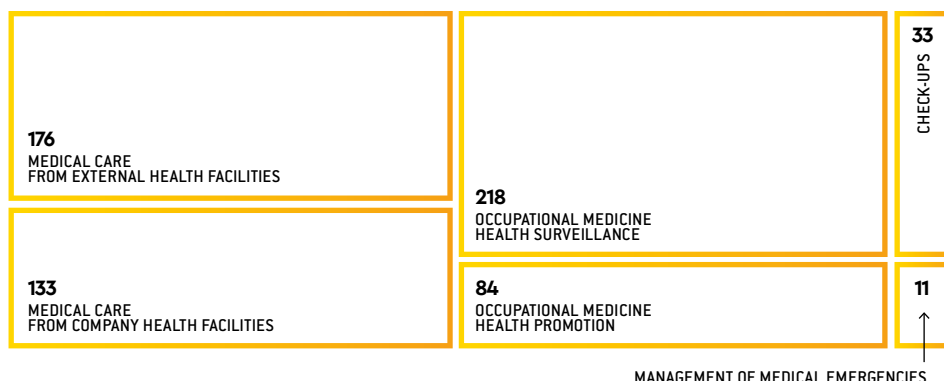
EXPENSES INCURRED IN 2019 IN HEALTH (K€)

95

Flu vaccinations given to employees participating in the promoted campaign

€ 657,000

Total expenses in Health



As regards occupational diseases, there is a further decrease in the number of reports, from 91 in 2017 to 52 in 2018 to 45 in 2019. Requests for recognition of illnesses suspected of being work-related were all made by former employees. 9 were submitted by heirs.

Eni Rewind and the COVID-19 emergency

In the context of the coronavirus health emergency that hit Italy and the rest of the world in early 2020, in line with Eni's guidelines and the Protocol of 14 March 2020 between government and social players, Eni Rewind implemented a series of interventions to ensure the maximum protection of the health and safety of its people and suppliers and at the same time ensure the continuity of activities that could not be suspended to protect environmental matrices (soils and water), as well as the management of waste generated by Eni's production activities.

In particular, the provisions adopted to ensure safe operations during the crisis period are:

- adoption of extraordinary smart working, also on a part-time basis, for approximately 800 employees, leaving the remaining 250 people operational in the field to follow non-interruptible activities including water treatment plants, salt and chloralkali production activities and other remediation/safety measures;
- the suspension of those activities that could be interrupted without impacts on the environment or public safety (approx. 200 out of 800 ongoing activities, i.e. excluding remediation activities related to service stations, 66 out of 213);
- the preparation of a contingency plan to identify substitute figures in the event of an entire team of a single plant being infected or in quarantine, as well as a plan to increase stocks of chemicals and consumables necessary to ensure continuity of operations;
- the delivery of Personal Protective Equipment for the COVID-19 risk and body temperature measurement at the entrance to work areas;
- the integration and updating of Medical Emergency Response Plans (MERPs), Emergency Plans and Risk Assessment Documents (DVRs), informing workers;
- assurance of the activity verification process (remote audits).

Furthermore, a constant information campaign was delivered to all staff and contractors on the new provisions and good hygiene and sanitary standards to be followed.

CONTRIBUTIONS TO THE ITALIAN RED CROSS

Through an initiative launched by Eni during the health emergency, Eni Rewind people donated the value of one or more hours of their work to the Italian Red Cross, engaged in actions to combat COVID-19 and support the most fragile and needy people. The solidarity initiative, launched by employees and promoted between March and April through internal communication channels, led to the total collection of over €600,000.



ENI REWIND AND THE COOPERATION WITH THE SICILY REGION FOR LEACHATE DISPOSAL IN GELA

In the context of the local emergency actions taken by the Presidents of the Region to deal with the COVID-19 emergency, the Sicily Region, considering the difficulties of transport outside the Region, asked Eni Rewind to be able to use the water treatment plants of the Gela Site (STP²) and the Industrial Organic facility to dispose of leachate from "OFMSW" recovery plants and landfills that guarantee non-interruptible services for the island. Eni Rewind confirmed its willingness and, in response to the six-month order, will dispose of leachate from plants identified as priorities by the Region at the two assets.

2) Surface water treatment plant.

Safety



WHY IS IT IMPORTANT TO ENI REWIND?

Aware of the central role of its employees in achieving its mission, Eni Rewind is constantly committed to ensuring the protection and safeguarding of their health and safety, putting in place measures to minimise the sources of risk associated with the different operating contexts. These tools include: organisational models for risk management and asset integrity, training and skills development, process security and the application of new digital technologies to support security.

Eni Rewind pursues the objective of reducing the occurrence of accidents by improving the conduct to be adopted in the workplace at all levels of the Company, and promoting the culture of best practices in the field of health and safety. To this end, it launches annual awareness-raising campaigns on Eni Safety Golden Rules, targeting employees and contractors, which take the form of specific initiatives.

Policies and other regulatory instruments

Eni Policy. HSE management process integrated into a Management System Guideline. Eni Rewind Health, Safety, Environment, Public Safety and Quality Policy

Management tools

Integrated health, safety and environment and quality management system: compliant with the OHSAS 18001:07 standard for health and safety management. Regulatory updating process with a focus on Health and Safety

Progress in 2019 vs. 2018

- **Accidental events:** investigation of corrective/preventive actions identified for accidents and incidents
- **Event reporting:** near-misses and unsafe conditions increased by about 10% compared to 2018
- **HSEQ training:** approximately 3,700 hours of mandatory and non-mandatory training delivered in-house
- **Process Safety:** 3 PSAs (process safety audit) conducted: Assemini, Porto Torres, Pieve Vergonte
- **E-Wp (electronic work permits):** start-up of electronic work permits in the subsidiary Ingegner Luigi Conti Vecchi in November 2019
- **Smart Safety:** commenced evaluation of a pilot at the Brindisi site (GTP barrier and Micorosa site) of the Eni Smart Safety Operator Project

Eni Rewind's objectives

- **HSEQ integrated management system:** transition to ISO 45001:2018 requirements
- **Process safety management system:** to prevent significant accident risks with the application of high management and technical standards
- **Awareness raising:** initiatives to raise awareness of employees and contractors on HSE aspects and the importance of near-misses and unsafe conditions
- **Process Safety:** completion of the gap analysis for groundwater treatment plants with respect to process safety standards
- **E-Wp:** integration at 15 sites in the two-year period 2020-21
- **Asset Management:** census performed and criticality of Eni Rewind assets audited
- **MyGIS-3Ter:** transition and integration of site mapping on Eni's MyGIS application



TO FIND OUT MORE:
Website [enirewind.com](https://www.enirewind.com)

Accident rates and intervention actions

As part of the prevention and mitigation of risks to the health and safety of its own workers and service providers, Eni Rewind pursues the objective of minimising the occurrence of accidents. In 2019, five accidents at work (compared to two in 2018) were recorded for contractors.

The 2019 Severity Index Rate (SIR) parameter of the workforce (employees + contractors) is, at 19.75, higher than in 2018, due in particular to the incidence of two events with a prognosis of more than 10 days. For each accident that occurred, as well as for accidents and near misses, in-depth investigations are carried out in order to identify the causes of the events and develop Lessons Learned to be shared with all the staff of the various Eni Rewind operational units. The identification and analysis of the causes that generated the accidents in 2019 and the monitoring of intervention actions help to prevent the recurrence of such events.

Furthermore, the parameters of the Severity Index Rate and the Safety Culture Programme (preventive safety management indicator) are used in the short-term incentive system for the CEO and managers with strategic responsibilities, in order to focus the company's commitment on reducing the most severe accidents.

The Severity Index Rate – an Eni parameter where accidents have an associated weight that increases as the severity increases.

SAFETY EXPENSES AND INVESTMENTS - NO ILCV (K €)

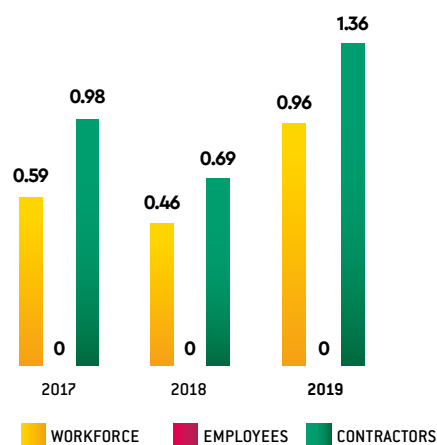
737 TOTAL CURRENT SAFETY EXPENSES

1,517 TOTAL SAFETY INVESTMENTS

168,840 TOTAL CURRENT HSE EXPENSES

33,293 TOTAL HSE INVESTMENTS

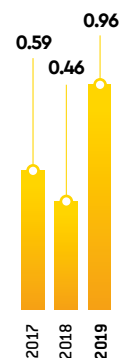
FREQUENCY RATE FR 2017-2019



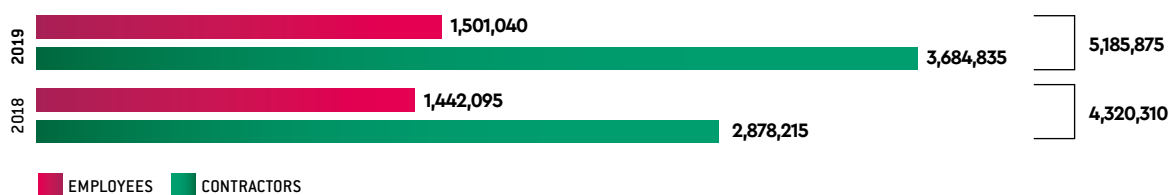
SEVERITY INDEX SI 2017-2019



TOTAL RECORDABLE INCIDENT RATE (TRIR) DATA BY WORK FORCE



HOURS WORKED



The Safety Culture

Ensuring safety in all work environments is fundamental for Eni Rewind. For this reason, the Company is committed to disseminating and promoting its culture, motivating people to become leaders of safety in the performance of their activities. This strong focus is reflected in the various initiatives, carried out with the involvement of both management and operational lines, aimed at raising awareness, developing skills and adopting responsible and proactive behaviour, in full compliance with HSEQ principles.

Key initiatives to strengthen the safety culture among employees and contractors in 2019



HSE DAY

Awareness-raising programme targeting employees and contractors in order to share corporate HSEQ principles, objectives and results, as well as Lessons Learned to be acquired for the future. In 2019, 11 HSE DAYS were held.

SAFETY SELFIE In parallel to the HSE DAY, the people involved develop their own personal safety motto that they “capture” with a selfie. The photos represent a memory of the event and a symbol of their commitment in terms of safeguarding safety.

HSE TAKE AWAY

An Eni Rewind initiative to raise staff awareness on safety and environmental aspects, where HSE issues are shared informally in regular meetings, in a climate of debate and exchange of experiences. In 2019, 100 meetings were held.

HSEQ SGI TRAINING PILLS

Training course, in cooperation with Eni Corporate University, targeting the entire population, on the HSEQ Integrated Management System and the requirements of the health and safety, quality and environmental standards. In 2019, 7 training sessions were delivered in e-learning mode, with a case study and related final test.

SAFETY GOLDEN RULES

Distribution, at Eni Rewind's operational sites, of a “Notepad” prepared by Eni HSEQ, which portrays dangerous conditions, dangerous actions, near misses, accidents, bearing witness to the efforts made to disseminate the safety culture.

SAFETY PACT

Undersigning by Eni Rewind and its contractors of a commitment that binds the parties to adopt and use a series of common tools, identified with the aim of carrying out works under contract without significant accidents or accidents, detecting the near misses sub-standard conditions for preventive purposes and permanently improving the safety culture of companies and workers. In 2019, 5 new Safety Pacts and 4 renewals were signed.

IO VIVO SICURO (I LIVE SAFELY) A Safety Pact initiative relating to the implementation of an “awareness raising campaign” for its employees on the issues of road safe, home safety and “leisure”. In 2019, 3 I LIVE SAFELY initiatives were held.

SAFETY TOUR

Safety awareness raising initiative including site visits with employers and HSE contractors. In 2019, 12 initiatives were held.

New internal Eni HSE website

Eni Rewind is involved in the project for the construction of the HSE website, initiated by Eni, as a new internal communication tool for all colleagues of the company. The project aims to improve communication, dissemination of the HSEQ culture, accessibility to online documentation and ensure professional support in the HSEQ technical area.

Asset integrity

The asset integrity system, of fundamental importance for Eni Rewind, ensures that assets are managed effectively and efficiently for the protection of people, the environment and business continuity. In 2019, the company censused its assets on the sites, grouping them by HSE risk level, in order to continue implementing the actions necessary to ensure the highest safety standards.



Process safety

Process Safety is a management system to prevent and control accident risks, in order to safeguard the safety of people, the environment and assets during their life cycle.

In 2019, due diligence continued on groundwater treatment plants (GTPs) in line with Eni standards and main best practices, and, with a view to continuous improvement, operational and organisational changes were made.

As part of this process, training was also initiated for all personnel dedicated to the management of GTP plants on the fundamental aspects of Process Safety and some resources were specifically trained for the role of Auditor in Process Safety.



Emergency preparedness and response

Emergency response procedures are constantly tested through drills used to test response capacity in terms of plans, resources, means and materials and to identify appropriate corrective actions.

In 2019, in view of the transposition of Eni standards for the management of seismic sea wave emergencies, a risk assessment form was developed for each sensitive site (Manfredonia, Brindisi, Crotone, Cirò Marina, Priolo, Gela, Assemini, Porto Torres). In 2020, the relevant emergency plans will be updated and specific drills will be carried out.

129

Emergency drills

8

Seismic sea wave emergency sheets

Environment



WHY IS IT IMPORTANT TO ENI REWIND?

For Eni Rewind, respect for the environment is central to its vision of sustainable development, as a lever of an operating model that stands out for the efficient use and revaluation of soil, water and waste resources. For this reason, the Company is committed to ensuring that all activities are always carried out in accordance with international agreements and standards, in compliance with national laws, regulations and policies. This ongoing commitment is evident in the provision of effective information, a comprehensive training plan and the dissemination of good environmental practices, both technically and operationally.

Policies and other regulatory instruments

Eni Policy. HSEQ management process integrated into a Management System Guideline. Eni Rewind Integrated Health, Safety, Environment, Public Safety and Quality Policy

Management tools

Integrated health, safety and environment and quality management system: adopted by the organisation and certified to the ISO 14001:2015 standard for environmental management. Regulatory updating process with a focus on Environment

Progress in 2019 vs. 2018

- **Water:** increase in volume of treated and reused groundwater vs. 2018
- **Waste:** increase in recovered waste from total recoverable vs. 2018
- **Energy Efficiency:** energy diagnoses performed at the sites in Priolo and Cengio, as well as at the subsidiary Ing. Luigi Conti Vecchi

Eni Rewind's objectives

- **Awareness-raising and training:** environmental culture awareness initiatives (Environmental culture dissemination project and relay 2.0 project for waste management)
- **Water:** water recovery through treatment in GTP plants and their reuse in production cycles or by re-injection into the groundwater, to reduce the use of water from nature
- **Sustainability:** recovery of already reclaimed areas to make them available to Eni as part of the circular and sustainable strategies



TO FIND OUT MORE:
Website enirewind.com

Key initiatives to strengthen the environmental culture in 2019

Due to the nature of its mission, Eni Rewind is committed to promoting and strengthening an environmental awareness among all its people and in the companies with which it works, organising training opportunities and the exchange of experiences. Several initiatives were carried out in 2019 involving operational sites.

RELAY PROJECT

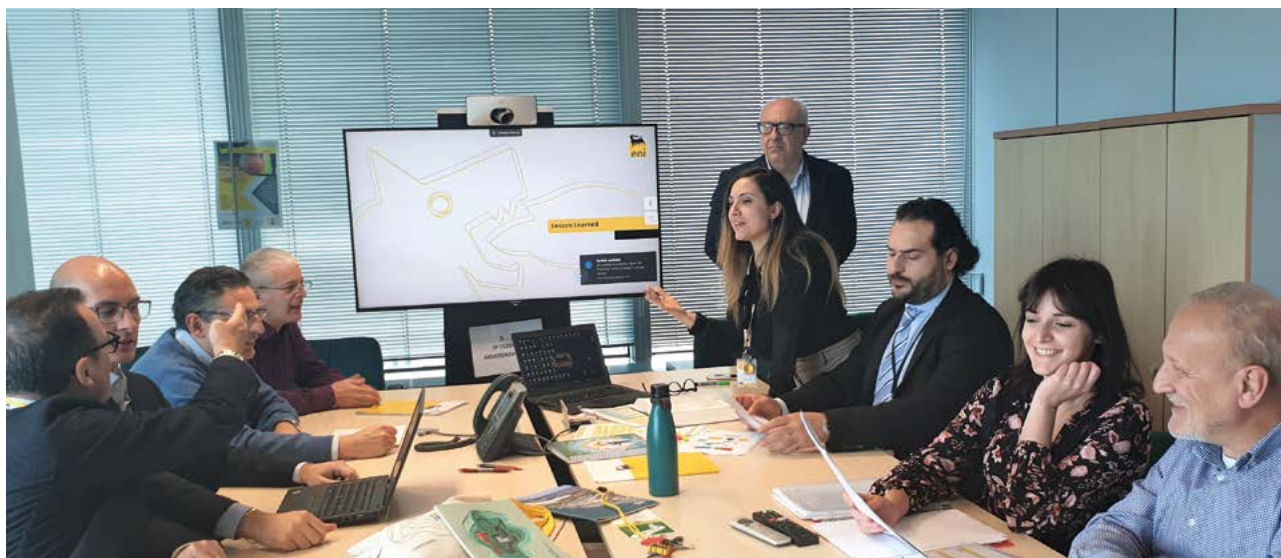
On-the-job training initiative that sees Eni Rewind staff experienced in waste management transmit their knowledge to operational colleagues on sites.

The Relay Project started in Gela and from there the trained staff started to transfer the acquired know-how to colleagues from another location, passing the “baton of knowledge” from site to site.



ENVIRONMENT PACT

In 2019, the development of a project began, in cooperation with Eni, for the extension of the “Safety Pact” model to environmental aspects. The initiative involves the signing, between Eni Rewind and the companies with which it collaborates, of a binding commitment to carry out the works in full respect of the natural capital.



ENVIRONMENTAL COURSES

Training courses promoted by Eni in which Eni Rewind contributed to the training modules on environmental issues, with a particular focus on waste management and on European and Italian legislation concerning water quality and the regulation of discharges, with testimonials from day-to-day field activities.

TEAM UP FOR HSE

Eni's environmental company took part in the “Team up for HSE – Bring Your Inspiration” event, which brings together Eni's HSE managers to share ideas and specific work experiences, strengthening the environmental culture. In particular, Eni Rewind participated with an episode dedicated to illustrating the commitment to water resources regeneration, even through new technologies and improved efficiency, and demonstrating best practices developed in operational sites.



SAFETY AND ENVIRONMENT DAY 2019 – PROMOTING CULTURE

The Eni “Safety & Environment Day” is organised to enhance the continuous attention of all Eni people to occupational safety and environmental protection. During the 2019 edition, Eni Rewind was awarded the prize for “Innovative projects and initiatives based on the principles of the circular economy” for the WEEE Project (see page 39), while Ing. Luigi Conti Vecchi (100% Eni Rewind) was awarded the HSEQ “Performance” award for distinguishing itself among all Eni companies for its results in the field of safety and the environment.

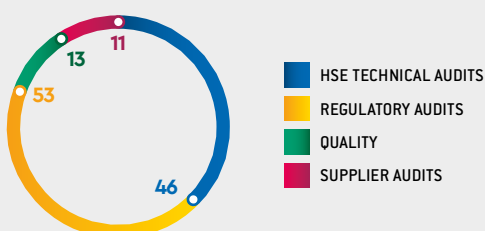


TO FIND OUT MORE: see [Safety & Environment Day](#)

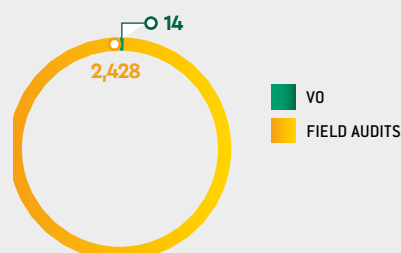
SUPPLIER AND BUSINESS PARTNER MANAGEMENT

Eni Rewind has a HSEQ risk control system for all its services and processes in place to ensure that the activities are carried out in full safety, respecting the environment and human rights and in compliance with the Eni Code of Ethics. This control system is based on the regular monitoring of some indicators, operational field checks and audits scheduled throughout the value chain, in order to ensure the correct application of the integrated HSEQ management system.

HSEQ SYSTEM INTERNAL AUDITS (TOTAL 123 REPORTS)



HSEQ FIELD AUDITS (TOTAL 123 REPORTS)



Biodiversity

In view of protecting ecosystems, Eni Rewind pursues the objective of conserving the natural environment and biodiversity, through the promotion of good management practices. A virtuous example is represented by the attention that the Company pays to the Conti Vecchi salt pans (run by the Eni Rewind subsidiary Ing. Luigi Conti Vecchi ILCV), a unique and special place where the work of man and nature has blended harmoniously since 1931.

Situated in one of the most important wetlands in Europe, on the south-western coast of Sardinia, the Conti Vecchi salt pans play a significant role in stabilising greenhouse gas emissions and mitigating the impacts of climate change. Protected by the Ramsar Convention, which includes some 2,200 wetlands of strategic international importance for maintaining global biodiversity, they are the second largest functioning salt pans in Europe. They cover 2,700 hectares in the area of Macchiareddu-Assemini, near Cagliari, where ILCV also produces soda, hydrochloric acid and hypochlorite, products derived from salt. In this natural oasis, industry coexists alongside several protected species of Mediterranean birds, 35,000 specimens of waterbirds belonging to fifty different breeds, including the pink flamingo, heron, hawk, duck and water hen. Here the flamingos have found the ideal habitat, and the settlement counts more than ten thousand specimens. The lagoon is also a Site of Community Importance (SCI) and is also part of the Natura 2000 ecological network.

To give renewed value to the cultural and landscape heritage, Eni Rewind has signed a partnership with FAI (the Italian Environmental Fund) to recover the historical and naturalistic value of the site, where industrial archaeology coexists with current production activities in full respect of the ecosystem. Opened to the public in 2017, today the salt pans are visited by about 20,000 people and have a production capacity of 400,000 tons of salt, intended for industrial use, de-icing and food.



ILCV salt pans in Assemini
(Cagliari)

Human Rights



WHY IS IT IMPORTANT TO ENI REWIND?

Respect for human rights is a founding value of Eni's corporate culture and focuses on the dignity of every human being and the responsibility of businesses to contribute to the well-being of the communities and territories in which they operate. A prerequisite for a fairer and more sustainable economy, this approach is integrated into Eni Rewind's business model, and is disseminated in relations with workers, communities, institutions, suppliers and business partners, as well as in security activities. This commitment is confirmed, in line with Eni's new mission, by the adhesion to the 17 Sustainable Development Goals set out in the UN 2030 Agenda.

Policies and other regulatory instruments

Policies: "Sustainability"; "Our People"; "Our Partners of the Value Chain"; "Integrity in our Operations", "Global Compliance"; Code of Ethics; Model 231

Human Rights Governance

The commitment to the respect and promotion of human rights is expressed in the Eni Declaration for the respect of human rights approved in December 2018 by Eni's Board of Directors. The document highlights the priority areas where this commitment is focused, and on which Eni exercises full due diligence, following an approach developed in line with the United Nations Guiding Principles on Business and Human Rights and with a view to continuous improvement.

Human Rights training activities

The human rights training plan continued this year with the involvement of over 200 people who took part (depending on the target) in the awareness-raising courses and campaigns organised by Eni to promote a shared culture on the subject, improve understanding of possible impacts of the business on human rights and disseminate the Company's commitment towards respect of human rights.

The promotion of e-learning courses on sustainability and human rights fostered by Eni, made available to the entire company population, was also ensured. In particular, in 2019, the accessible modules were "Sustainability in Stakeholders, Reporting and Human Rights" and "Sustainable Development Goals", entirely dedicated to "SDGs".

Human rights in the workplace: industrial relations

Respecting the rights of people working at Eni and its subsidiaries – including Eni Rewind – is fundamental for building mutually satisfactory and lasting relationships. The Industrial Relations model is based on agreements that define how information is shared with workers' representative organisations. These agreements are defined at national and international level and include the Global Framework Agreement (renewed in June 2019 in Athens) which confirms the joint commitment to promoting sustainable development and raising awareness among employees and contractors on the respect for human and labour rights.

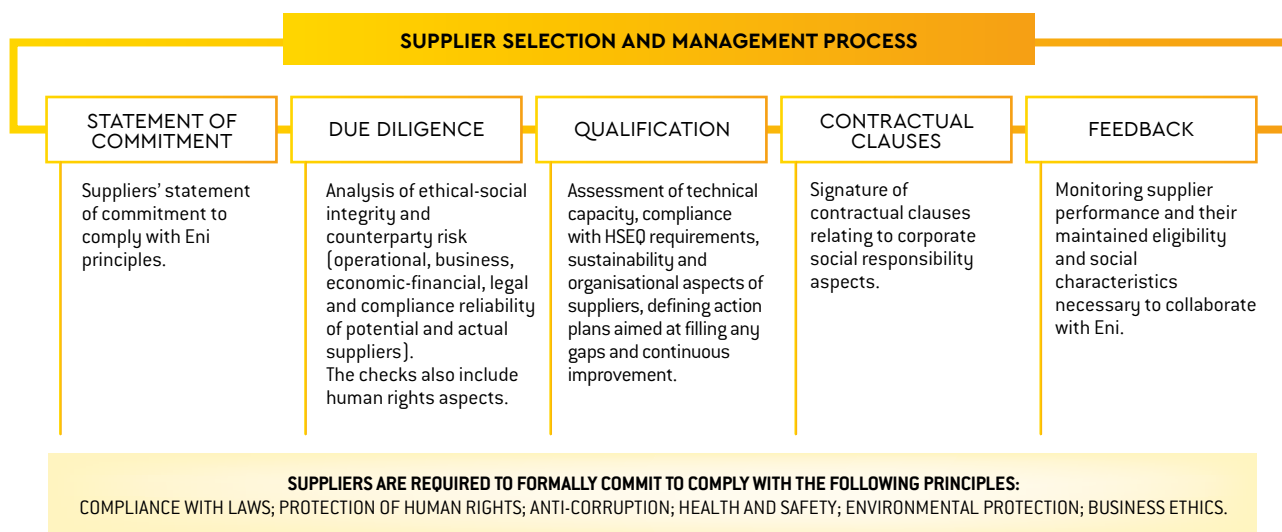
Human rights and security

Eni Rewind manages its Security operations in compliance with international human rights principles and the “Voluntary Principles on Security & Human Rights”, in line with the rules and tools designed by Eni to ensure that:

- contractual terms include provisions on respect for human rights;
- security services providers are selected, inter alia, on the basis of human rights criteria;
- security operators and supervisors receive adequate training on the respect for human rights;
- events considered most at risk are managed in accordance with international standards.

Human rights in the supply chain

The supply chain plays a key role in fulfilling corporate social responsibility and human rights commitments. For this reason, Eni has implemented a management model aimed at raising awareness and promoting its own values with suppliers, involving them in the risk prevention process. The adoption of this model also ensures that the Eni Rewind Environmental Procurement function monitors its suppliers constantly, and contracts may be suspended if suppliers do not meet the minimum acceptability standards set and agreed upon.



Eni is engaged in the finalisation and subsequent dissemination of a code of conduct for suppliers, underlining the importance of compliance with the cardinal principles of sustainability. In line with this objective, Eni Rewind endeavours to apply and divulge this code in its supply chain. For their part, suppliers will have to sign and accept the code during the self-candidature/qualification phase, taking responsibility for respecting the principles of the protection of human rights, the promotion of health and safety, environmental protection and integrity.



TO FIND OUT MORE: see *Eni For Human Rights*

Transparency and anti-corruption



WHY IS IT IMPORTANT TO ENI REWIND?

Improving governance and transparency of the sector in which Eni Rewind operates is essential for promoting the good use of resources and preventing corruption phenomena. The repudiation of corruption has been one of the fundamental ethical principles of Eni's Code of Ethics since 1998, and for this reason Eni Rewind has adhered to Eni's complex system of rules and controls for the prevention of corruption offences (the Anti-Corruption Compliance Programme).

Policies and other regulatory instruments

Policies: "Our Partners of the Value Chain", "Our Institutional Partners", "Corporate Governance", "Global Compliance"; Code of Ethics, Model 231, MSG Anti-Corruption

Management systems

"Anti-corruption" Management System; Model 231; Anti-Corruption Compliance Programme, certified to the ISO 37001:2016 standard

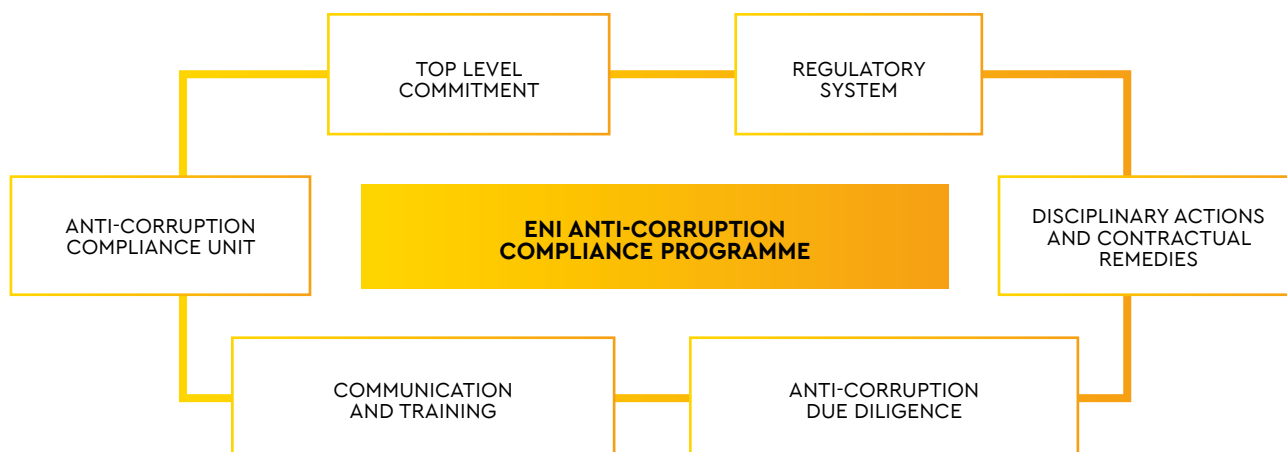


TO FIND OUT MORE:

See *Eni For 2019 - A just transition* (pages 48-49)

The Eni Anti-Corruption Compliance Programme

In line with the principle of "zero tolerance" expressed in the Code of Ethics, Eni has adopted a comprehensive system of rules and controls for the prevention of corruption offences: the Anti-Corruption Compliance Programme.



The core of this programme resides in the commitment of Eni's top management and in the set of internal anti-corruption regulations that apply to Eni and all its subsidiaries, including Eni Rewind. Since 2010, the programme has been implemented by a dedicated organisational department (Anti-Corruption Unit) which is responsible for providing specialist anti-corruption assistance to Eni and its subsidiaries. In order to prevent possible criticalities, the Compliance Programme provides for the execution of an anti-corruption due diligence on counterparties at risk, to assess the integrity, professional reliability and reputation of potential counterparties. Another pillar of the programme is represented by the anti-corruption training activities.

Training activities

Anti-corruption training includes:

- e-learning courses: online courses for the entire company population;
- general workshops: interactive training sessions for resources in medium/high corruption risk context;
- job-specific training: training sessions generally administered together with the general workshops and intended for professional areas under specific risk of corruption.

To optimise the identification of the recipients of the training initiatives, a methodology was defined in 2018, applied in 2019, segmenting employees based on the risk of corruption according to risk drivers such as: Country, qualification, professional family and number of employees of the site. Moreover, online and classroom training activities continued in 2019 for some categories of Eni Business Associates to raise awareness on the issue of corruption (in particular how to recognise corrupt and corruptive behaviour and how to prevent the violation of anti-corruption laws in the context of their professional activity).

494

Participants in the Code of Ethics, 231 & Anti-corruption training

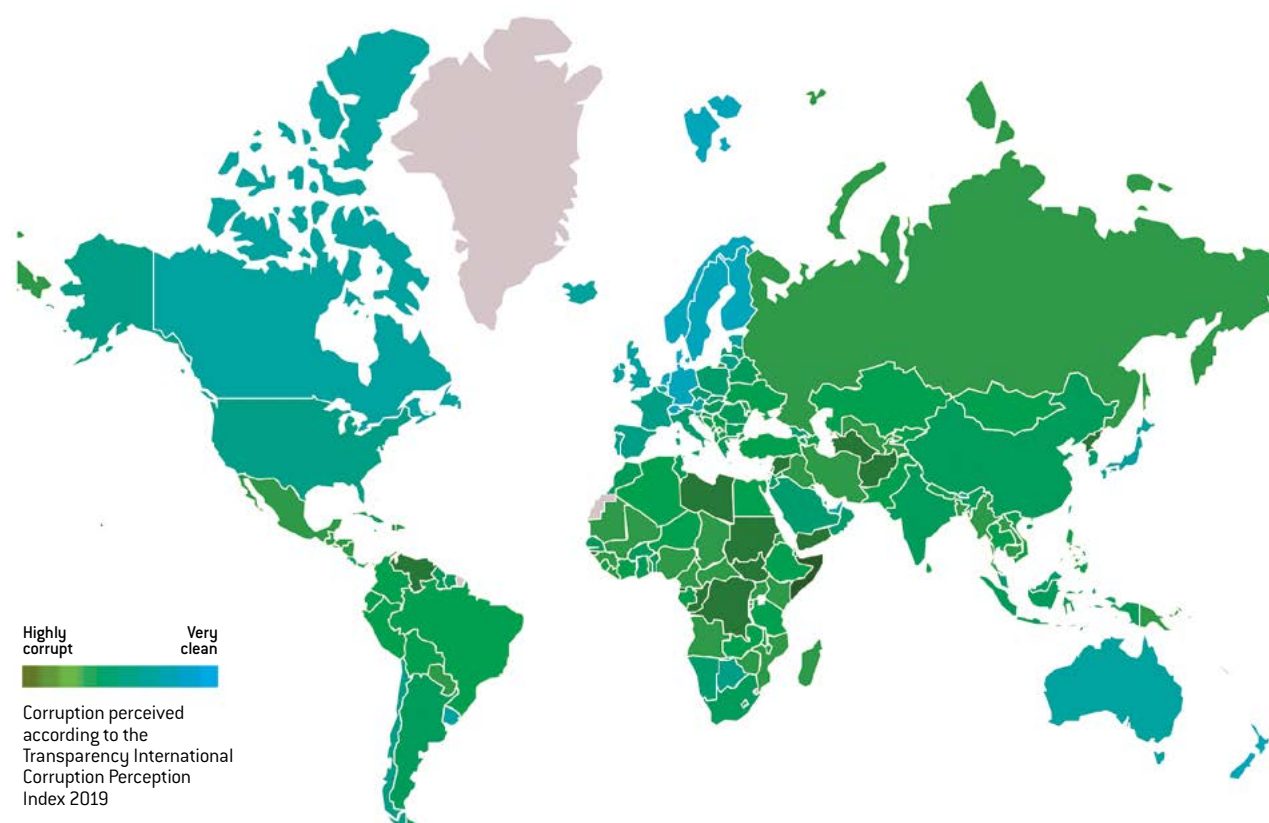
426

Participants in the Eni Anti-Corruption Compliance Programme

430

Participants in the 231 update training

CORRUPTION PERCEPTION INDEX 2019



MEMORANDA OF LEGALITY

In order to counter attempts of organised crime infiltration in remediation sites contracts and subcontracts, Eni Rewind and the Prefectures promote the adoption of Memoranda of Legality, subject to approval by the Ministry of Internal Affairs. In particular, the legal instrument is applied in the more complex sites, including Pieve Vergonte, Brindisi, Crotona, Gela. All institutional stakeholders participate in the Memoranda of Legality, aiming to guarantee legality and transparency in environmental recovery activities, as well as continuous monitoring of sites by law enforcement agencies.

Among the commitments envisaged, occupational safety is of particular importance, and Eni Rewind ensures that the conditions of employment of workers, their health and the protection of the environment are effectively safeguarded.



3



Alliances for the promotion of sustainable development

The planet is in the midst of a profound transformation that requires a fairer and more responsible development model. In this scenario, as Eni's environmental company, we have identified strategic initiatives and alliances to provide an important contribution to the decisive challenges of our time, from energy transition to environmental protection and the regeneration of the limited resources in nature. The aim is to foster the growth of long-term, sustainable value for all, reducing the economic and social differences of a constantly growing population. To do this, we promote a continued and transparent dialogue with the territories, to strengthen our credibility, consolidate relations with stakeholders and facilitate truly inclusive and widespread development.



Eni Rewind: a stakeholder in local development

Partnership for sustainable development: the value of working together



Initiatives with and for the territory

Sustainability tools and methodologies



Eni Rewind: a stakeholder in local development



WHY IS IT IMPORTANT TO ENI REWIND?

Everyday, with our work we seek to restore energy and value to host territories, because we are convinced that a fair and sustainable system requires that we not consume more resources than we can return to the environment and communities. For this reason, it is essential to establish alliances and cooperation with the various stakeholders from public, private and civil society sectors. The combination of skills and innovation with a focus on listening and inclusion allows Eni Rewind to promote a sustainable future for all, contributing to the circular economy and the energy transition.

Policies and other regulatory instruments

"Sustainability" Policy and Eni Declaration on respect for human rights

Management tools

Stakeholder Management System platform for managing and monitoring stakeholder relations; System for detecting, mitigating and monitoring risks tied to relations with local stakeholders; Sustainability management process in the business cycle, local content, signed partnerships

Launch of Phase 1 of the remediation project in Crotone



Sustainability integrated into the business



"First Oil" at the **Waste to Fuel** pilot plant in Gela.

In Robassomero the first **phytoremediation** results: 6,500 poplars had been planted to remove hydrocarbons in a 4.4 hectare area.



Porto Marghera – agreements for **reconversion**:

- Eni Rewind, Municipality of Venice and Development Agency launch a table for the revaluation of areas;
- Eni Rewind and Veritas together to study the development of the first Waste to Fuel industrial plant, an initiative laid down in the MoU between CDP and Eni.



Eni Rewind opens its sites to the community with "Energie Aperte" and to parliamentary commissions (the International Commission for the Protection of Italian-Swiss Waters – CIPAI – visits Pieve Vergonte).

2019

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE

Eni Rewind for spreading a **culture of safety**: 900 students at the Apollo Theatre in Crotone.



Manfredonia: activities continue in the Site of National Interest, another 5 remediation projects are authorised.

Gela, Porto Torres and Priolo: 26 e-hyrec devices installed in the water table for the field application of Eni proprietary remediation technology.



Ravenna: the regional authorisation procedure for the productive redevelopment of the Ponticelle area is initiated.

Eni Rewind and the environmental training of Eni Foreign Business Unit resources: conclusion of the 9-month on-the-job training.

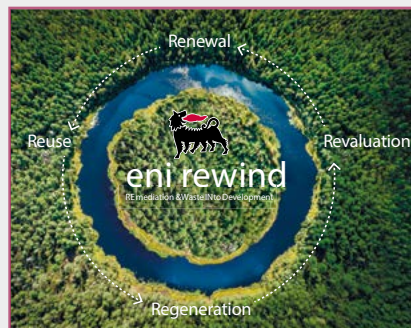




The Minister of the Environment Costa visits the Eni Rewind site in Porto Torres. The regional authorisation procedure for the Mini Blue Water plant in Viggiano gets the green light.



Eni Rewind reorganises its activities in line with its growth as an environmental competence centre. Crotona: the POB site phase 1 "eligible offshore works" for the construction of breakwater barriers to protect the coastline in front of the two former Pertusola and Phosfotec landfills is inaugurated with stakeholders.



1 November 2019: change of the company name to Eni Rewind, an acronym for "Remediation & Waste Into Development". The Minister of the Environment Costa visits the Priolo /Rada d'Augusta SNI.

JULY

AUGUST

SEPTEMBER

OCTOBER

NOVEMBER

DECEMBER

Eni Rewind – CDP Equity Joint Venture for CircularIT, a company dedicated to the development of industrial Waste to Fuel plants in Italy.

cdp CDP Equity

51%

CircularIT

eni
rewind
remediation & waste into development

49%

Cengio opens to the community for the Italian Environment Fund Autumn Days.



ISO 26000: Eni Rewind confirms its corporate sustainability performance with RINA's gap analysis. The Gela Protocol between Eni and the Ministry of the Environment underlines Eni Rewind's commitment to the environmental recovery of the site.



Corporate social responsibility

Social Responsibility is of fundamental importance in the definition of business development strategies and assumes increasing importance in the global economy and for sustainable development.

In 2019, with Eni and the support of RINA, the analysis of the level of application by Eni Rewind of the international standard ISO 26000 "Guidance on social responsibility" was carried out. The analysis, including visits to operational sites and interviews with external stakeholders, established the company's excellent performance in this area, suggesting some actions for 2020 with a view to continuous improvement.



INTERVIEW WITH PAOLO MORETTI



Paolo Moretti

CEO RINA Service

The ISO 26000 standard is a tool supporting organisations, what is the value of adopting the guidelines for Eni Rewind and its stakeholders?

Today there is a widespread social expectation of organisations that are called upon to make an active contribution to sustainable development with a view to meeting the needs of the present but, in doing so, without compromising the future of the new generations. ISO 26000 provides guidance on how organisations can operate in an ethical and transparent manner, contributing to sustainable development, taking into account stakeholder expectations and in compliance with applicable laws.

Eni Rewind's decision to integrate Social Responsibility into its organisation translates into multiple benefits. Firstly, it enhances the reputational value of the adopting organisation, and this is also associated with a clear competitive advantage. Furthermore, a reality that focuses on such a path is immediately more attractive to the labour market, appealing to high-profile resources. Another positive effect of those who integrate Social Responsibility into their organisation is the degree of motivation of their employees, associated with a potential improvement in relations with investors, owners, donors and the financial community as well as, of course, with users and customers, all major clusters that contribute to the growth of the organisation.

Eni Rewind's commitment was analysed by RINA in 2019. What evidence emerged from your analysis?

The analysis that we carried out as RINA in 2019 showed that Eni Rewind is implementing and integrating the fundamental issues and related specific aspects of ISO 26000 within its organisational structure. With regard to the "environmental issue" and that of "working relationships and conditions", for example, it was highlighted that the organisation not only has a solid and structured HSE (Health, Environment and Safety) system, but is also actively engaged in ensuring these issues in its supply chain, in order to pursue continuous improvement and promote a culture based on all-round safety and prevention.

Again with a view to constant improvement, Eni Rewind has also chosen to implement various actions to make its top management increasingly structured and aware, fully integrating the process of disseminating corporate social responsibility within the organisation into business practices. This has thus made it possible to coherently and comprehensively respond to the issue of sustainable development, change and the achievement of the Sustainable Development Goals (SDGs) proposed by the UN 2030 Agenda, which require the mobilisation of all members of society: businesses, institutions, the third sector and civil society.

THE PRINCIPLES OF THE STRATEGIC PLAN 2020-2023

CONSOLIDATION
OF TRADITIONAL
REMEDIATION AND WATER
MANAGEMENT ACTIVITIES:
BUILDING A SECOND
CHANCE

REGENERATION OF
WATER AND WASTE
AS RESOURCES

DEVELOPING A
SUSTAINABLE BUSINESS
ON THE GLOBAL MARKET

OUR PEOPLE:
COMPETENCE, HSEQ
CULTURE AND
COMMITMENT

SUSTAINABILITY OBJECTIVES IN THE STRATEGIC PLAN

HEALTH, SAFETY
AND ENVIRONMENT

ENERGY TRANSITION
AND CIRCULAR ECONOMY

LOCAL DEVELOPMENT
MODEL

Local Content in Eni Rewind

Eni Rewind pays close attention to the involvement of businesses in the territories where it operates, with a view to the promotion and sustainable growth of the local entrepreneurial fabric and culture.

For this reason, Eni Rewind implements procurement strategies that maximise the involvement of local companies, provided they meet the necessary requirements.

This approach brings many benefits, from the smaller environmental footprint determined by on-site supplies, therefore at “zero km”, to the development of new market opportunities with local companies. The Memoranda of Understanding for Employment signed by Eni with the Basilicata Region (Val d'Agri Oil Centre) and for the industrial area of Gela move in this direction of attention to workers and local communities. These agreements are managed through constant relations with the Prefectures and other competent entities.

INTERVIEW WITH NATALE MAZZUCA

Chairman Mazzuca, from your privileged standpoint, how do you think environmental recovery can provide growth opportunities for businesses?

Environmental sustainability, both in the production processes of companies and of the behaviour of each individual in any part of the world, is the great challenge of today. Our country, Europe and all the more developed and advanced economies will have to invest more and more in this, focusing clearly on the near future of the planet. The chain of companies operating in the field of environmental recovery plays a particularly significant role, with a content of research and technological innovation that involves and engages large international players. Growth opportunities for small and medium-sized enterprises will also be increasing and challenging in this area.

Can you describe from your point of view the path taken with Eni Rewind in the Crotone area?

Unindustria Calabria and Eni Rewind have experimented a working method that we could define as extremely respectful of each others' fields of competence, collaborative and marked by a frank and constructive dialogue with local institutions and with the business world as a whole.

In this regard, I would like to highlight the joint effort to accommodate the requests of companies in the regional territory and to ensure the success of remediation interventions. We have held a series of training and information meetings to illustrate the timing of the remediation projects that Eni's environmental company will carry out in Crotone, as well as the methods of participation in the tenders. In particular, the schedule relating to the planning of the works was clarified, as well as the procurement strategy based on the division of the entire scope of works into several lots identified on the basis of the type of activity to be carried out and the sub-area subject to intervention.

This procurement strategy was welcomed at local level, as it does not preclude even our small and medium-sized companies from participating directly in tenders, if they meet the necessary requirements. A key point of this path was the illustration to companies of the “accreditation” procedures of suppliers in the Eni system, an indispensable prerequisite that will also allow our companies that qualify to be involved in other tenders launched by Eni.

The aim in the coming years will be to strengthen this relationship between Unindustria Calabria, Eni Rewind and local companies to offer new opportunities for business growth, thanks to the stimulus and guidance of a large Italian company.



Natale Mazzuca

Chairman of Unindustria Calabria



INTERVIEWS WITH THE 8 PARTICIPANTS IN THE ENI REWIND ENVIRONMENTAL TRAINING PROGRAMME



Participants in the Eni Rewind Environmental Training Programme

In 2019 you participated in a training programme organised by Eni Rewind. What were the most interesting aspects of this experience?

First of all, on behalf of the entire team, I would like to thank Eni Rewind for this opportunity and for the professionalism with which the programme was delivered and coordinated. We all consider ourselves very fortunate to have participated in the nine-month vocational training course, which proved to be a unique opportunity to share professional experiences and acquire a wide range of environmental knowledge, as well as a better understanding of Eni Rewind's sustainable approach to environmental remediation and resource management.

The most interesting part of the programme was the opportunity to learn about advanced and innovative remediation technologies, as well as efficient water and waste management methodologies, also through practical illustrations, allowing us to see the actual implementation effectiveness for ourselves. Furthermore, thanks to the visits to the various Eni Rewind remediation sites, we were able to understand the complexity of environmental interventions that go far beyond the mere technical dimension. As we learned, the success of the projects also depends on an in-depth knowledge of the various regulatory aspects governing institutional authorisations, as well as on the strong involvement of stakeholders and the identification of environmentally, socially and economically sustainable solutions.

What concrete knowledge and skills have you already had the opportunity to put to good use in your current work projects?

The complete programme allowed us to acquire so-called soft and hard skills, ranging from the development of creative and analytical thinking to the identification of interpersonal and communicative skills necessary to work in a multicultural environment, to the acquisition of methodological and research skills for solving complex environmental issues. To give a concrete example, during the field training, we also learned how to develop and apply a conceptual model (CM) in a remediation site.

In this regard, it was of great interest to all of us to learn about the software "Sustainability Assessment Framework" for the evaluation of the different remediation alternatives available, taking into account environmental, social and economic variables. The tool could be very useful and beneficial in improving our day-to-day work for the management of environmental issues and in promoting locally the reuse and valorisation of resources (soil, water and waste).

Now that we have returned to our countries and to our respective offices, consistent with our roles and duties, within our Business Units we are promoting the theoretical and practical environmental knowledge acquired during the course, encouraging the definition of environmental projects to support the areas in which we operate. We firmly believe that the path of continuous improvement undertaken will not stop, on the contrary we are committed and will become ambassadors to ensure it continues, thanking again for the great support received.

Water management in Iraq

In May 2018 Eni Iraq BV and Eni Rewind presented to local stakeholders in Basra important projects for their territory, born from close cooperation with Eni Iraq, involving the development of environmental initiatives in the Basra area. One project consists in the complete renovation of a line of the Al-Buradeya water purification plant in Basra and the second in the construction of a new plant for the production of drinking water for the territory of Zubair, in the town of Al-Bardjazia. The two new plants will provide drinking water for about 150,000 people.

In 2019, the Eni Rewind team working in Iraq designed the two plants and provided Eni Iraq and the integrated project team with technical and engineering support for the management of the tender for their construction and the first post-award phase, which led to the opening of the construction site for the Al-Bardjazia plant in November 2019.

In Iraq, Eni's environmental company is also studying a circular economy project for the treatment and re-injection of urban waste water from the Hamdan plant into the Zubair field. The cooperation between Eni Iraq and the local Eni Rewind team also involved other circular initiatives in the environmental management of the Zubair site.

Furthermore, Eni Rewind has made its know-how available to Basra Oil Company (BOC) technicians through a specific knowledge sharing programme on environmental issues.



Water treatment plant site in Iraq

Partnerships for sustainable development: the value of working together

In order to leverage its assets and resources as the driving force of the circular economy, Eni Rewind considers it important to promote synergies, throughout the value chain, through public-private partnerships. In 2019, Eni's environmental company signed five agreements on environmental sustainability and the circular economy, in particular for:

- transformation of organic waste;
- promoting the dissemination and sharing of know-how;
- regeneration of soil and water resources.

One example is the Memorandum of Understanding between Eni Rewind, the Municipality of Venice and the Development Agency (March 2019) to promote and support industrial conversion and the enhancement of the economic potential of Porto Marghera, in order to maintain its production vocation. The agreement relates to Eni Rewind's availability to grant its properties – a total of 64 hectares – and provides for the establishment of a coordination table to accelerate environmental recovery with sustainable projects. Another protocol to which Eni Rewind has adhered is the one signed by Eni with the Lombardy Region for Sustainable Development. The instrument commits 50 signatories to jointly define a programme of measures and initiatives on issues ranging from the conservation of biodiversity and ecosystem services to the circular economy and energy transition.

Site of National Interest
of Porto Marghera



Initiatives with and for the territory

MINISTER OF THE ENVIRONMENT IN PORTO TORRES AND PRIOLO

In 2019, the Minister of the Environment Sergio Costa visited the Sites of National Interest of Porto Torres and Priolo. The visits provided an opportunity for Eni Rewind to illustrate the state of its environmental activities, completed and ongoing, on the two sites. In Porto Torres, an industrial area established in 1962 by the company SIR (subsequently transferred by law to Eni), particular attention was paid to the site of the Nuraghe Project, involving the application of the most innovative sustainable remediation technologies for soils and groundwater, in addition to the reuse of the areas for a subsequent production requalification also with the Eni New Energy photovoltaic system.

The inspection of the Priolo site represented a significant moment for the territory, during which the Minister reconfirmed his willingness to launch a technical table with all the companies that, since the 1950s, have operated and operate in the areas overlooking the Port of Augusta with the aim of identifying a common path for environmental recovery. Eni/Eni Rewind, operating on the site since 1989, have confirmed their willingness to dialogue with the authorities and other companies.

GEOARTE PROJECT

As part of the remediation activities on the site of Pieve Vergonte, on 27 March Eni Rewind and the Municipality promoted the public event in which the initiative in support of the preservation and valorisation of the archaeological heritage, in cooperation with local institutions and Ca' Foscari University, was presented.



SALINE RESERVE IN PRIOLO MANAGED BY LIPU

Eni Rewind and Versalis will promote, for and with the territory, an initiative supporting the nature reserve "Riserva NordOrientale Saline di Priolo", managed by LIPU (the Italian League for the Protection of Birds). The project includes targeted interventions for reopening the oasis to the public following the devastating fire of 10 July 2019.



HACK NIGHT AT MAKER FAIRE ROME

Eni and Eni Rewind promoted a "water challenge", as part of the hackathon organised by Maker Faire Rome. The Hack Night, entitled "Water Hack", was held at the Federico II University in Naples. Participants competed to find and develop innovative and digital solutions to maximise the options for efficient reuse of water treated by Eni Rewind, favouring virtuous behaviour also with a view to gamification.



SAFETY THEATRE EVENT IN CROTONE

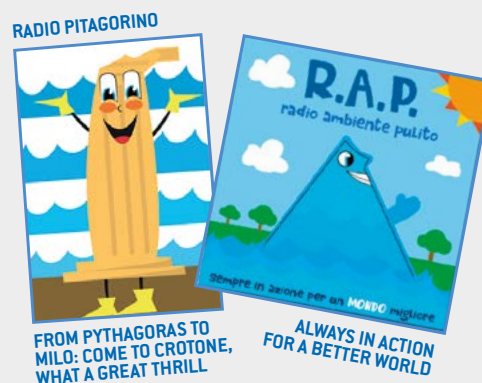
At the Apollo Theatre, about 900 students attended the show "The Pact that saves your life" together with representatives of institutions, trade unions, businesses and the press. Through this theatre performance, Eni and Eni Rewind are committed to disseminating the safety culture throughout Italy, as a fundamental value in work and life.



6 IN OND@ PROJECT

6 in ond@ is Eni's digital teaching project designed for primary school children. The initiative involves the creation of a web radio, as a communication and media education laboratory, to foster dialogue with younger generations. The industrial, environmental and cultural history of the territories will be told through the narrative and fresh eye of the students involved, who will use the radio created by them on a dedicated web platform.

In 2019, with Eni Scuola, Eni Rewind presented the project to the schools of Crotona and Porto Torres. Classroom training was launched in October with the involvement of over 20 classes. Students enthusiastically created the names and logos/mascots of the web radios that will host their podcasts.



TO FIND OUT MORE: see seiinonda.eniscuola.net

RESTART MUSIC FESTIVAL IN CENGIO

In June 2019 Cengio hosted the first edition of the Restart Music Festival. An opportunity for the Municipality together with its citizens, and Eni Rewind to meet, bringing new energy and attractive strength to the towns of upper Val Bormida. Every year, Eni Rewind supports an initiative dedicated to the community, talking about the remediation activities it carries out in the Site of National Interest of Cengio and Saliceto, with a view to transparency and dialogue. The Company was the main partner of the free event, open to all. The programme included the presence on stage in Piazza Martiri Partigiani of comedian Paolo Cevoli and singer Briga, as well as some emerging young artists.



ENI REWIND SUPPORTS THE MAREMMA TROPHY RALLY IN THE COLLINE METALLIFERE

For the fourth consecutive year, Eni Rewind sponsored the Maremma Trophy rally competition, a sporting initiative that is highly popular among the local communities of the Grosseto province. The rally route, which in total includes 9 special events covering a competitive distance of 83,460 km, winds through the Colline Metallifere in Tuscany. The rally also stands out for the inclusion of a special "Gavorrano" event entitled to Eni Rewind, with a dedicated prize. In Tuscany Eni Rewind, which holds concessions in some former mining and steel municipalities and owns the corresponding areas that were transferred by law to Eni, is engaged in soil and groundwater safety measures and remediation activities.



ENERGIE APERTE

From April to July Eni and its companies, including Eni Rewind, ran the Energie Aperte initiative, offering interested stakeholders, such as citizens, schools, media and institutions, the opportunity to visit production sites and research laboratories. Eni Rewind contributed to the planned events in some of the sites in which it operates: Ravenna, Mantova, Brindisi and Gela.



ACQUA SA CANNA ON THE MINERAL TRAIL

In 2018, Eni Rewind signed an agreement with the “Cammino Minerario” Foundation of Santa Barbara, aimed at enhancing the site of the former landfill in the territory of the Sulcis Iglesiente Guspinese. With the agreement, the Company undertook to ensure a free, 30-year easement to allow the safe transit of pilgrims and hikers crossing the panoramic viewpoint built on the top of the former landfill. The new section of this historical, religious and cultural itinerary, which runs for about 400 km between the ancient mining trails and the places of worship dedicated to the saint of miners, was inaugurated in July 2019.



INTERVIEW WITH GIAMPIERO PINNA



Giampiero Pinna

Chairman of the Cammino
Santa Barbara Foundation

The thirty-year agreement between Eni Rewind and the Cammino Minerario Foundation of Santa Barbara has led to the inclusion of Acqua Sa Canna (South Sardinia) in this evocative religious tourist itinerary. What are the opportunities and prospects for the development of the territory?

Eni Rewind's willingness to allow and facilitate the passage of pilgrims/hikers along the stretch of the Santa Barbara Mineral Trail that runs along its site of Acqua Sa Canna, has made it possible to improve the conditions along the trail, enriching the itinerary with a convenient passage from which you can easily reach the nearby Nuragic village of Seruci and observe the extraordinary landscape of the south-western coast of Sardinia.

For this reason I can only express deep gratitude for the sensitivity and contribution made by Eni Rewind on this occasion. Our cooperation not only adds to the joy and amazement of the many Italian and foreign pilgrims/hikers travelling along this stretch of the Santa Barbara Mineral Trail, but is a concrete example of how the needs of industrial and post-industrial activities can coexist with those aimed at enhancing the historical, cultural, environmental and religious heritage of the territory.

What other initiatives do you think are possible with a view to the convergence of industrial history and environmental heritage?

I believe that this fruitful cooperation can generate new opportunities to promote the sustainable development of the territory, if the potential offered by the site of Acqua Sa Canna and the neighbouring site of the abandoned coal mine of Seruci, both crossed by the route of the Santa Barbara Mineral Trail, can be seized.

I am referring in particular to the regeneration and reuse of the buildings on the two sites, which represent fundamental assets for developing and supporting the potential offered by the implementation and development of the different ways in which slow and sustainable tourism can be practised.

The cycle path and horse track along the trail, opening soon, will require adequate facilities in which to easily accommodate and assist not only humans but also horses and bicycles. This exciting challenge for the sustainable development of the territory can be met if we are able to activate the synergy of the different social, economic and institutional actors present in this extraordinary corner of Sardinia, with the hope that Eni Rewind's valuable contribution will continue also in this sense.



Tools and methodologies for sustainability

AGREEMENT WITH CA' FOSCARI FOR SAF TOOL VALIDATION

In 2019, the Ca' Foscari University Foundation completed the validation of the Eni Rewind "Sustainable Assessment Framework" (SAF) tool for assessing the sustainability of alternative remediation techniques. The validation was carried out in compliance with the literature of the sector and in particular the ISO 18504:2017 standard. The next objective is to define a standard ranking of remediation technologies based on their overall sustainability.

"TECHNOLOGY LABORATORY" R&D PROJECT

In conjunction with Eni, Eni Rewind is conducting a research project for the selection of the most efficient environmental remediation technologies with the lowest environmental impact, in accordance with the guidelines of the public authorities.

The technological laboratory aims to bridge the gap in analysis between the laboratory and field phases, ensuring a test execution dimension that can better target subsequent applications on a pilot scale.

CIRCULARITY ANALYSIS

Eni has commissioned the third-party certification body Certiquality, with the cooperation of the Sant'Anna School of Pisa, for the development and validation of a qualitative and quantitative assessment model for operational site circularity. In 2019, Eni Rewind took part in a site-specific Circularity Analysis for the Petrochemical plant in Brindisi with the aim of mapping elements of circularity already present in the multi-company site and identifying possible improvements. In 2020, a Circularity analysis will be carried out at the company Ing. Luigi Conti Vecchi with the application of a new qualitative and quantitative assessment model inspired by national and international guidelines.



TO FIND OUT MORE:
See enirewind.com

Methodological Note

The Eni Rewind 2019 Sustainability Report is part of Eni sustainability reporting, which includes the Consolidated Non-Financial Declaration (NFD 2019) and the Eni Sustainability Report for 2019, prepared in accordance with the "Sustainability Reporting Standards" of the Global Reporting Initiative (GRI Standards). Moreover, this reporting system is completed by the information provided on the Eni website, to which reference should be made for further information on the issues dealt with in this report.

The Eni Rewind Report has been prepared to provide stakeholders with clear and detailed information on sustainability issues related to the activities of Eni's environmental company, as well as to provide an overview of the investments that Eni Rewind is making. The external significance of the topics derives from the context in which Eni operates and from the direct and indirect requests received by Eni from various stakeholders in the year of reference, assessed based on frequency and relevance. The most significant issues form the basis of this document, which provides qualitative and quantitative information on Eni Rewind's sustainability performance. The internal significance of the issues to be addressed was determined in accordance with Eni's principles and values, strategies and business objectives. In particular, this document documents both Eni Rewind's successes and the areas for improvement and the relative actions taken.

The data reported were collected with the aim of representing a balanced and clear picture of the Company's actions and characteristics. The process of collecting information and quantitative data has been structured so as to ensure the comparability of data over several years, in order to allow a correct reading of the information and a complete view for all stakeholders interested in the evolution of Eni Rewind's performance. The figures in this document represent the KPIs reported at a Group level in the DNF and Eni sustainability report, subject to limited auditing by the appointed independent company.

Reporting scope

The information included in this document relate to Eni Rewind's activities. Unless otherwise stated, the data and performance indicators refer to the year ended 31 December 2019. Furthermore, some data from the previous two years are included for comparative purposes. Where relevant, the activities and projects described in the document are updated to the first half of the year of publication of the document in order to provide the reader with the most up-to-date information possible. The performance indicators, selected on the basis of the topics identified as most significant, were collected on an annual basis. The reporting is done on an annual basis.



TO FIND OUT MORE:
see [Eni For 2019](#)



Glossary

BIOPILE

An ex situ treatment for the biological remediation of contaminated soil, based on the capacity of indigenous micro-organisms to aerobically biodegrade hydrocarbon compounds, using them as a source of carbon and energy. The matrix to be remediated by biopile is excavated, homogenised and stacked in piles to be decontaminated. Aerobic biological activity is stimulated by aeration of the soil and the addition of nutrients, minerals and water. Once the remediation concentrations have been reached, the soil is reused in situ to fill the excavations from which it derives.

CAPPING

Waterproof covering of landfills and/or polluted areas.

CHARACTERISATION

Detailed chemical/physical analysis of potentially polluted areas.

DECOMMISSIONING

Disposal, demolition and remediation of industrial plants.

EX SITU/ON SITE TECHNOLOGY

A method of remediation that involves the removal/extraction of the environmental component and its treatment in plants outside and/or inside the site.

GTP

Groundwater treatment plant.

HYDROPHOBIA

The physical property of chemical species to be repelled by water. The term is also used broadly to indicate the property of materials to not absorb or retain water inside or on their surface.

IN SITU TECHNOLOGY

Remediation systems consisting of on-site equipment that treats soil or water without removing them from their natural location.

INERTISATION

The objective of this process is to reduce the mobility of contaminants by preventing or minimising their transfer to the environment.

ISOTOPIC FINGERPRINTING

The technique used is the analysis of the isotopic ratio between rare and abundant stable isotopes of a specific chemical element through the GC-IRMS (Gas Chromatography Isotope Ratio Mass Spectrometry) analysis tool. Stable isotopes do not decay, but their ratio is subject to change during the biodegradation process by micro-organisms. The technique therefore uses a quantitative approach to assess the pollution plume reduction processes.

LESSONS LEARNED

Lessons learned are recommendations for future behaviour based on past experience (positive and/or negative).

LNAPL

Light Non-Aqueous Phase Liquid.

MISE BARRIER

Hydraulic barrier (system of wells to supply groundwater) or physical barrier (sheet piling, waterproof septum, etc.) installed for the containment (MISE) of the site or area subject to pollution.

MISP PERMANENT CONTAINMENT

Containment works in a site carried out as a final remediation intervention.

MOLECULAR FINGERPRINTING

The technique used is qPCR, quantitative PCR or gene amplification based on quantitative Polymerase Chain Reaction. It consists of research into gene markers associated with in situ biodegradation of major contaminants. In particular, aerobic/anaerobic degradation markers are sought in bacterial DNA extracted from groundwater. The presence in groundwater samples of gene markers associated with specific bacterial biodegradation reactions is an indication of the potential applicability of bioremediation.

ORP

Operational Remediation Project.

PHOTOVOLTAIC

Plant for the production of electricity from sunlight.

PHYTOREMEDIATION

Remediation technology that uses plants for the treatment of contaminated environments.

PIEZOMETER

An instrument that is introduced vertically into the ground to measure the water level and pressure of an underground water table.

PUMP & STOCK

Combined system of groundwater extraction and subsequent disposal thereof.

PUMP & TREAT

Combined system of groundwater extraction and subsequent treatment thereof.

PUMPING

Suction and extraction of groundwater.

RISK ANALYSIS

The health risk analysis makes it possible to quantitatively assess the risks to human health associated with the presence of pollutants in the environment and to define remediation objectives.

SNI

Site of National Interest. Sites of National Interest represent very large contaminated areas classified as dangerous by the Italian State and which require soil, subsoil and / or surface and underground water remediation interventions to avoid environmental and health damage.

The sites identified by the Ministry of the environment and land protection are currently 41, distributed throughout Italy.

SOIL WASHING

Technique for the remediation of contaminated soil by means of a washing process that extracts the contaminants adsorbed in the soil and recovers the valuable part of the same soil. The technique can be applied both on site and off site.

THERMAL DESORPTION

Remediation technology that, through controlled heating at temperatures of about 450 °C, eliminates the contaminants present in the soil restoring the characteristics of the soil itself, allowing its recovery as a resource.



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