

Alliances for development

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The planet is in the midst of a profound transformation that requires a fairer and more inclusive development model. We are experiencing historic times, which after more than a year of a health emergency, require everyone's contribution towards restarting and resilient and sustainable growth. In this context, it is possible to show how much the synergy and sharing of skills is key to ensuring sustainable development for future generations. 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 objective is to promote long-term growth, which is sustainable for everyone, promoting constant and transparent dialogue and discussion with host territories and stakeholders.

Eni Rewind a stakeholder in local development



Why is it important to Eni Rewind?

With its "Dual Flag" approach, Eni Rewind promotes dialogue with all stakeholders, to ensure that environmental remediation is truly a driver for development and that it generates tangible opportunities with and for the territories where it operates. 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 know-how, skills and innovation with a focus on listening and inclusion allows Eni Rewind to promote a sustainable future for everyone, 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 AND ORGANISATION MODELS

Stakeholder Management System platform for the management and monitoring of relationships with stakeholders; System for the detection, mitigation and monitoring of risks related to relations with local stakeholders; Sustainability management process in the business cycle, local content, signed partnerships



Sustainability integrated into the business

At the Crotona site, Eni Rewind and Unindustria Calabria promoted a meeting to outline the progress in the works of the Operational Remediation Project (POB) Phase 1 "Eligible works at sea" to companies in the territory and share the methods for participating in the tenders for phase 2 of the reclamation project related to the areas within the industrial site and the former landfills facing the sea.



For the development of the Eni Waste to Fuel project, Eni Rewind and CDP Equity signed an agreement to establish the company CircularIT. A Memorandum of Understanding was signed with A2A Ambiente aimed at initiating a collaboration for the management of special industrial waste, the optimisation of processes and the identification of innovative end-to-end plant solutions, adopting and applying best circular economy practices.



Reopening of the Conti Vecchi salt pans in Assemini (CA) to the public, providing continuity to the partnership with FAI - Fondo Ambiente Italiano. A place where the work of nature and man blend in full harmony is now accessible with the introduction of a few extra measures to ensure a safe experience in line with the anti-COVID provisions.



2020

JANUARY

FEBRUARY

MARCH

APRIL

MAY

JUNE



In Gela, Eni Rewind participated in the first stage of the Circular Tour 2020, an initiative promoted by Eni and Coldiretti, during which it presented its activities and 'circular' initiatives. Specifically, the proprietary Eni Waste to Fuel technology was illustrated.

In Porto Torres, the 31 MW photovoltaic plant developed by Eni New Energy was inaugurated, reusing the Eni Rewind areas with a view to soil regeneration and productive redevelopment of the site.



The relationship with Ca' Foscari was consolidated thanks to the entry of Eni Rewind among the institutional partners of the Foundation. Testimony to the Company's commitment to the world of scientific research on the sustainability and circularity of reclamation techniques and interventions.

An environmental assessment of the soil and groundwater of the former Ilva steel plant in Taranto was carried out on behalf of ArceclorMittal Italia (now Acciaierie d'Italia).



For the Mantua site, the Ministry for the Ecological Transition confirmed Edison's takeover in the SIN decrees and environmental proceedings, previously registered to Eni companies.

In Manfredonia, the innovative groundwater circulation wells technology for the on-site reclamation of groundwater is operational. This is the first implementation at an Eni site, providing timely intervention on the source of contamination, reducing remediation times and making them more effective.

In Priolo, as part of the initiatives for the territory, Eni Rewind and Versalis signed an agreement with Lipu (Italian League for the Protection of Birds) to reopen the "Riserva Nord Orientale Saline di Priolo", closed following the fire of 10 July 2019. The intervention involved the securing of the footpaths in the protected area, a naturalistic and tourist reference point.



JULY

AUGUST

As part of the discussion process with the Entities relating to the environmental situation of the Augusta roadstead, Eni Rewind participated in the preliminary services conference convened by MITE, providing important studies and counter-deductions on the historical origin of the contamination and on the area's environmental status.

Eni research has assigned Eni Rewind the marketing license for the proprietary groundwater remediation technology, e-hyrec.

Acciaierie d'Italia conferred a second assignment on Eni Rewind for the design of environmental interventions aimed at ensuring the operational safety of the former ILVA steel plant in Taranto.



SEPTEMBER

OCTOBER

In Ravenna for the Ponticelle Project, Eni Rewind and Herambiente signed the agreement to establish a joint venture, HEA, which will create the environmental platform. Eni Rewind will manage the entire environmental supply chain for its implementation.

A year of Eni Rewind was celebrated with a live streaming event that involved all of the company's employees.

The handbook of the main remediation technologies was published on Eni Rewind's website.

In synergy with PMEC (Project Management Engineering Construction), the design of a production water and rainwater treatment plant for the Brass site in Nigeria was developed.



NOVEMBER

DECEMBER



In synergy with EniProgetti UK and PMEC (Project Management Engineering Construction), the design and related technical specifications for a tender for the construction of a water treatment plant for the North Gas Complex project in Angola were developed.



In the Colline Metallifere area of Grosseto, for the fifth consecutive year, Eni Rewind sponsored the Maremma Trophy rally competition, a sporting initiative that is extremely popular with the local communities.



The environmental services contract for the Collina area was signed with Edison at the Mantua SIN, which provides for Eni Rewind to execute the remediation activities, maintaining the HSEQ and sustainability standards adopted in the implementation of the interventions, as non-responsible owners, until 2020.

In Porto Torres, the first soil remediation module began in situ with thermal desorption technology (Canadian technology), which remediates the subsoil contaminated with chlorinated compounds without generating soil movement.

Partnerships for sustainable development

Based on the New Circular Economy Action Plan, a fundamental pillar of the European Green Deal, the evolutionary path towards a circular economy must be carried out with a view to "co-creation", with the cooperation between different parties: public institutions, economic stakeholders, citizens and civil organisations. The involvement of everyone is a key element to accelerating the transition to the new "circular" model.

In this transformation process, Eni Rewind considers it important to promote synergies, along the entire chain, through public-private partnerships, with the aim of building shared and lasting value. An example is the partnership in Energy & Strategy, a research group comprising lecturers and researchers from the Faculty of Management Engineering at the Milan Polytechnic, founded in 2007 with the aim of carrying out Research, Advisory and Training activities in the field of Energy, Sustainability and Innovation, as well as participating in observatories/tables related to the Circular Economy.



Agreement for the development of circular economic projects in Bahrain

Thanks to its consolidated experience in remediation and waste management as the global contractor of Eni, Eni Rewind is gradually developing environmental projects and services for customers outside the Group, both in Italy and abroad, in the countries where Eni operates.

Based on a logic of knowledge sharing and collaboration, a Memorandum of Understanding was signed in January 2021, with the National Oil and Gas Authority of the Kingdom of Bahrain aimed at producing joint initiatives for the efficient recovery and valorisation of water, soil and waste in the country, in line with the goals of the 2030 Agenda approved by the United Nations. A step that testifies to the willingness to consolidate alliances for sustainable development, in order to share the challenge of the energy transition, for the protection of the environment and the regeneration of natural resources.

The signing of the agreement, which marks a step forward in the collaboration already initiated between NOGA and Eni in the energy sector, will help identify further areas of collaboration for the development of innovative circular economy solutions, in line with the three principles of reducing, reusing and recycling. Eni Rewind will contribute to the partnership, making available its environmental know-how, the experience it has gained and the best technologies to manage and regenerate water, soil and industrial waste. The initiatives covered by the agreement, promoted by the Water Resources Management Unit of NOGA, are also part of the other project proposals for environmental sustainability and the integrated management of water resources envisaged by the Bahrain government.





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, where this is possible in relation to the subject of the contract, 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 attention to workers and local communities, 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. These agreements are managed through constant relations with the Prefectures and the competent bodies.

Furthermore, through the territorial and sector associations, Eni promotes meetings and information sharing with local companies, aimed at "preparing" the territory in view of upcoming tenders.

During these meetings, the activities envisaged by the project and the estimated time frames are outlined with the drivers of the related procurement strategies, in addition to the minimum requirements necessary to access tenders and qualifications, and the related accreditation methods, while fully respecting free competition and the market. At the beginning of 2020, these presentations were implemented with reference to the Phase 1 and Phase 2 operational remediation projects of the Crotona site, approved by the Ministry for the Ecological Transition, in 2019 and 2020 respectively.

More recently, in 2021, meetings were held with Confindustria Verbania for the works to move the Torrente Marmazza as part of the reclamation of the Pieve Vergonte site, and Confindustria Sardinia for the subsequent activities planned as part of the important remediation interventions at the Porto Torres (Nuraghe Integrated Project) and Assemini plants.



JUST! Join Us in a Sustainable Transition - involvement of suppliers in the energy and ecological transition process

The Eni Rewind Environmental Procurement function, in addition to playing an active role in observing the market, also acts as a vehicle for best practices and driver to improve suppliers' performance on sustainability. This is the scope of the JUST initiative (Join Us in a Sustainable Transition), promoted in collaboration with Eni and aimed at involving suppliers in Eni's fair and sustainable energy transition path, enhancing the aspects of environmental protection, economic development and social growth during each phase of the procurement process. More specifically, rewarding mechanisms were adopted in the tender to promote suppliers' best practices, and workshops were organised to discuss the spaces for adopting circular economy models and/or sustainability initiatives and lay the foundations for a common sustainable development path.

The Open-es digital platform was also launched in the spirit of Community, as an open space accessible to all suppliers interested in undertaking the transition path. The platform is part of the JUST programme, with the aim of sharing and enhancing information, best practices and sustainability models along the chain. This platform is based on an ESG data model defined according to the core metrics of the WEF "Measuring Stakeholder Capitalism" initiative, with a simple, flexible approach suitable for all enterprises, from SMEs to big players.

Initiatives with and for the territory

Parliamentary delegation at Porto Torres



In 2020, a Parliamentary delegation visited the Site of National Priority of Porto Torres. The visit provided an opportunity for Eni Rewind to illustrate the status of its completed and ongoing environmental activities. In Porto Torres, an industrial hub 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 - including the Eni-patented e-hyrec device - in addition to the valorisation of the areas for subsequent productive redevelopment with the Eni New Energy photovoltaic system.

Eni Rewind supports the Maremma Trophy rally in the Colline Metallifere



For the fifth consecutive year, Eni Rewind sponsored the Maremma Trophy rally competition, a sporting initiative that is highly popular in the local communities. In 2020, the race, which includes 3 special events covering a distance of 63 km, was completely reformulated so it could be adapted to the protocol issued by the Federation in line with anti-COVID-19 measures. The rally winds its way through the Colline Metallifere in Tuscany, and also stands out for the inclusion of a special "Gavorrano" event named for 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 and remediation activities.

Geoarte Project



As part of the remediation activities at the Pieve Vergonte site, Eni Rewind and the Ca' Foscari University completed the activities of the Geoarte project, an initiative in support of the preservation and valorisation of the area's archaeological heritage, in conjunction with local institutions.

Salt works Reserve in Priolo managed by LIPU

Eni Rewind and Versalis have promoted an initiative supporting the nature reserve "Riserva Nord Orientale Saline di Priolo", managed by LIPU (the Italian League for the Protection of Birds), which had closed following a fire on 10 July 2019. The project involved the securing of the footpaths in the protected area, by clearing and disposing of the burned trees, in order to contribute to the reopening of the oasis to the public, which provides a natural and tourist reference point for the Priolese community.



Tools and methodologies for sustainability

On an ongoing basis, Eni Rewind makes available its environmental know-how, the experience it has gained in the field and the best technologies to manage and regenerate water, soil and industrial waste to all its stakeholders.

In this regard, the Company has created and published a Handbook on Remediation Technologies, a compendium of reclamation technologies gained from its consolidated experience in multiple and complex remediation projects and enriched, over twenty years, thanks to the ongoing interaction with stakeholders.

With the Remediation Technologies Handbook, which can be downloaded from the website www.enirewind.com, the Company intends disseminating and making available its skills, providing a multidisciplinary and integrated guide, which with drawings, diagrams, infographics and photographs, illustrates the complex world of environmental remediation.

Eni Rewind also contributes to the dissemination of environmental know-how by participating in the main events and trade fairs referring to the field of remediation, technological and industrial innovation applied to the circular economy and the energy transition.

Similarly to previous years, in 2020, Eni Rewind took part in Ecomondo and RemTech, participating in online conferences with presentations on topics such as the recovery and reuse of water and waste, sustainable remediation and the redevelopment of industrial sites. Furthermore, it organised workshops and webinars on the most innovative and environmentally friendly remediation techniques, with solutions that in many cases, had been tested using proprietary research.



Impact assessment tools and methodologies

Eni Rewind strongly believes in the application of the sustainability principles as an effective tool for approaching remediation.

For this reason, it has confirmed its collaboration with the Ca' Foscari University in Venice to develop the topics referring to Ecological Risk Assessment, based on an organic and scientific approach, with the following objectives:

- Application of the ERA guidelines developed in the 2018 Convention in the case studies relating to Rada di Augusta and Vallivo di Mantova.
- Practical implementation of the ERA indicators in the sustainability index measurement tool integrated with the LCA assessment.
- Adaptation of the ERA guidelines to assess activities on the aquifer for the impact of the Gela GTP discharge at sea.

The Sustainability and Life Cycle Analysis (LCA) Research Line also falls within the scope of the Convention, and includes the following activities:

- STAR-LCA (Simplified Tool to Assess the Remediation by LCA) prototype applied to 2 case studies
 - Case study #1: Groundwater circulation wells vs Hydraulic barrier - Ferrandina (MT) site
 - Case study #2: Colloidal Coal Injection vs Pump and Stock (fuel service stations)
- Application of the sustainability index measurement tool to 2 case studies
 - Case study #1: San Cusumano (SR) site
 - Case study #2: Crotone site
- LCA study of the various remediation technologies and preparation of an LCA impact score matrix that can rapidly assess the best "full-life" technology

These tools will provide Eni Rewind with additional objective tools for measuring the sustainability of remediation interventions.

Furthermore, to demonstrate the importance of circularity in its activities, Eni Rewind has drawn up guidelines for the integration of the Principles of Circular Economy in the Remediation Process, as a tool for analysing and measuring the circularity of an operative site. These guidelines are currently being applied at some pilot sites where Eni Rewind operates.



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remediation & waste into development