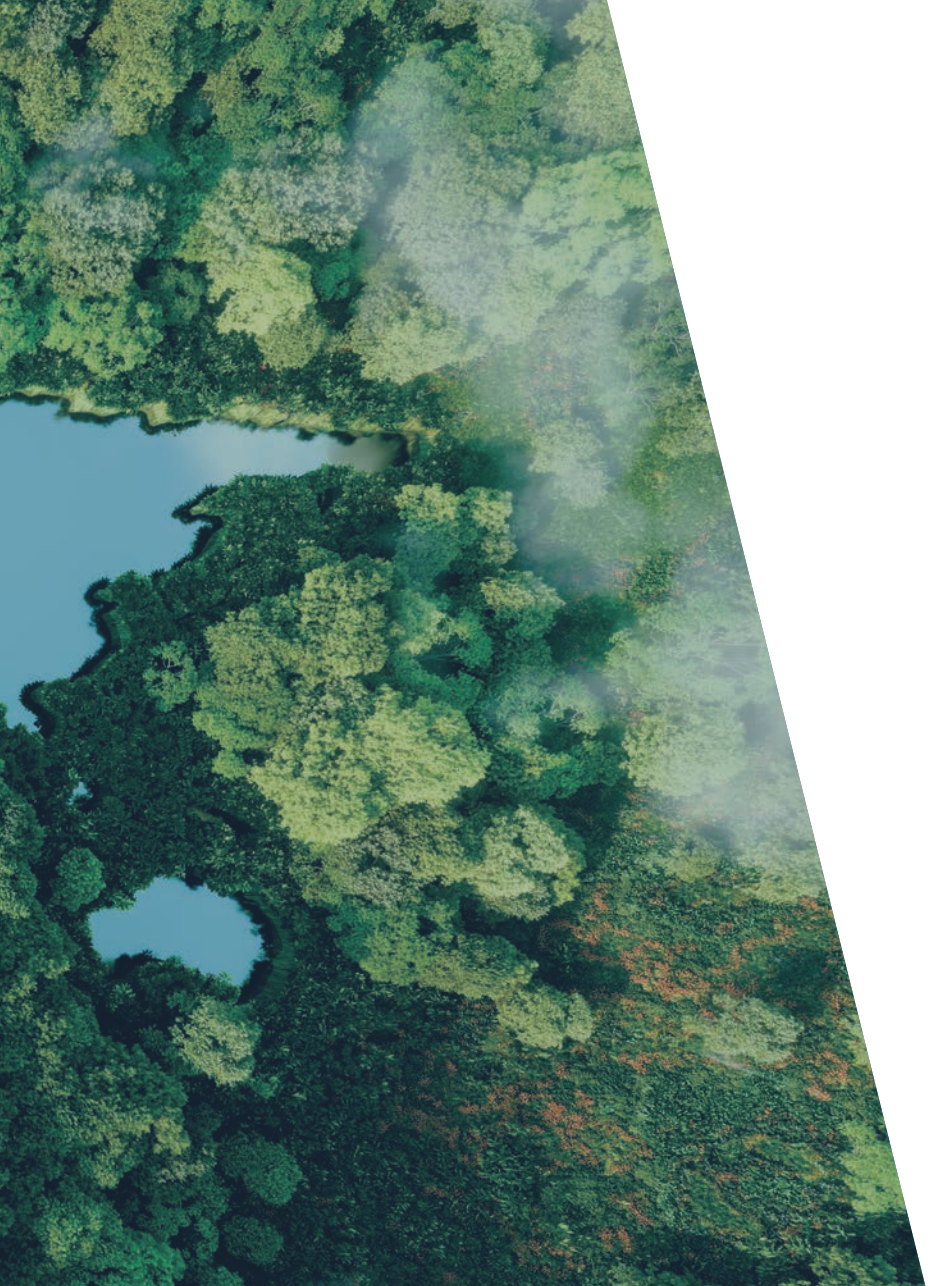

products,
services,
solutions
FOR SUSTAINABILITY



products, services, solutions

FOR SUSTAINABILITY

WHAT WE OFFER?

PRODUCTS

- SAF
- HVO
- BIOMETHANE
- HYDROGEN
- INVIX
- SUNPOWER
- VERSALIS REVIVE
- XL EXTRALIGHT

SERVICES

- ENJOY
- E-MOBILITY
- ENERGY EFFICIENCY
- WHITE CERTIFICATES
- ENI PARKING
- ENI CAFE'
- EMPORIUM

SOLUTIONS

- AGRI-FEEDSTOCK
- POWER
- CARBON CAPTURE, UTILIZATION AND STORAGE
- REMEDIATION, WATER E WASTE MANAGEMENT
- CARBON OFFSET
- CIRCULAR ECONOMY

OUR TARGET MARKET?

- Heavy industries (metallurgical, iron and steel, manufacturing, steel works, cement plants)
- Airports, airport companies
- Port and interport companies
- Air transport
- Textile industry
- Building industry
- Distributors of oil products
- Shipping companies
- Logistics (land and sea)
- Retail (catering and mass retailing)
- Construction companies (OEM'S)
- National civil bodies
- Public and regional authorities
- Municipally owned companies
- Telecommunications, software and data centre companies
- Agricultural companies and farmers
- Pharmaceutical companies
- Banking and financial institutions
- Luxury and cosmetics
- Food & beverage

A holistic approach to decarbonisation

The major challenge of the global energy market is to ensure universal access to energy and to tackle climate change by accelerating the transition process.

ENI AIMS AT ENERGY TRANSITION LEADERSHIP

Eni has set up **Sustainable B2B** to contribute to the decarbonisation of all sectors through a holistic and transversal approach of technologies, experience, research and development and a network of collaborations that feed a virtuous ecosystem, **starting from the partners' needs and building ad hoc solutions.** Eni's portfolio includes, among others, new fuels and products of **biogenic origin**, obtained from waste and refuse or

from vegetable raw materials not in competition with the food chain, the supply of electricity produced from **renewable sources**, as well as solutions for sustainable remediation and for water management and territorial regeneration from a circular economy viewpoint.

Eni is developing **breakthrough technologies** such as CO_2 capture (CCUS) and magnetic confinement nuclear fusion, as well as new alternative energy carriers such as hydrogen. Sustainability is at the heart of Eni's objectives, with products and services focused on people and vehicles aimed at making an increasingly solid contribution to decarbonisation.

The development of a **vertical integration** model along the value chain, which - as in the case of agri-feedstock production in Africa - allows long-term partnerships to be built with local communities, ensuring the protection of biodiversity. Together with the communities and its partners, Eni is accelerating decarbonisation processes by aiming to enhance local vocations and social and economic wellbeing, with a view to **Just Transition**.

TOGETHER FOR A TRANSITION TO BUILD A MORE SUSTAINABLE FUTURE.

SAF

SAF Sustainable Aviation Fuel

This is a fuel from renewable raw materials - mainly Waste&Residue - that can be blended with conventional Jet A1.

It is a drop-in product and it meets the specification of 'conventional' Jet A1.

It therefore does not require any technical modifications to the aircraft, infrastructure and vehicles used for refuelling.

The **SAF (Sustainable Aviation Fuels)** produced by Eni come exclusively from waste and residues, in line with the regulation on the restriction of palm oil use as from 2023. The feedstocks used by Eni are waste animal fats and used vegetable oils.

The bio component contained in the finished blended fuel allows a reduction in greenhouse gas emissions, over the entire life cycle, of up to 90% compared to the fossil equivalent, according to the Renewable Energy Directive II. With the SAF it produces itself, Eni contributes significantly to the decarbonisation of aviation.

Regulatory framework

Use of **SAF (Sustainable Aviation Fuels)** is already mandatory - at 1% - in countries such as France and Scandinavia. The proposed European regulation foresees a 2% constraint until 2025 (fit for 55), but the market is already pushing airlines towards voluntary use.

Benefits for companies

SAF (Sustainable Aviation Fuels) allows GHG emissions to be reduced in proportion to the share of component used without any technical modifications to aircraft. Its use enables airlines to meet their ETS (emissions trading scheme) targets and voluntary adoption enables airlines to meet their decarbonisation goals.

Eni strategy

Eni is already marketing the JET A1+Eni SAF (i.e. the fuel containing a bio component made through co-processing technology) produced at the Taranto refinery.

SAF is obtained through the co-feeding process, co-feeding conventional plants with UCO quotas.

In 2022, production at the Livorno refinery will become fully operational by distilling the bio-components produced in the Gela biorefinery thanks to the proprietary Ecofining™ technology.

This product, known as **Eni Biojet**, will contain 100% biogenic component and can be used in blends with conventional jet up to 50%.

Growth will continue from 2024 with launch of the production of **Eni Biojet** at Gela, where a project is already underway that will allow an additional 150,000 tonnes/year from renewable raw materials to be placed on the market, capable of satisfying the potential obligation of the Italian market for 2025.

Projects abroad

At the same time, as part of a number of Eni projects launched in Africa (Kenya), a **Waste&Residue** collection chain is being developed, mainly involving UCO (used cooking oil) and animal fats. The business model envisages direct collection and the use of local operators active in collection from Ho.Re.Ca. (Hospitality, Restaurant, Catering) and large companies. Initiatives are being evaluated to involve public administrations and school systems in order to define collection points for use of household waste.

HVO

HVO Hydrotreated Vegetable Oil

Beyond diesel, towards carbon neutrality.

A new generation of fuels

Eni's HVO hydrotreated biofuels are mainly produced from raw materials that do not compete directly with food and fodder crops, such as agricultural residues and waste.

They are high-quality biofuels, which reduce greenhouse gas emissions from transport by 60 to 90% according to the Well to Wheel methodology, i.e. throughout the product's life cycle, compared to the reference fossil mix as per the RED II Directive.

Biorefineries, Eni's contribution to the circular economy

With the development of proprietary technologies Eni has reconverted two traditional refineries - Venice and Gela - to the processing of raw materials of biological origin - vegetable oils, but also animal fats and used cooking oils or extracts from algae - with an increasing use of waste and residue feedstocks.

Eni's biorefineries from 2023, in compliance with regulatory obligations, will no longer process palm oil, but instead mainly seeds from crops that are not in competition with the food chain and waste raw materials, diverting them from disposal, as an example of circular economy, even at 0 km.

Product pluses

- It has a calorific value similar to fossil diesel and higher than traditional **biodiesel**.
- It has a **high cetane number** (min. 75), which allows excellent combustion, especially in cold starts, and reduces engine noise.
- It is **free of aromatics and polyaromatics**, the compounds with the greatest impact on the environment.
- It **can be used in purity on all type-approved conventional diesel** engines without fleet adaptation costs.
- It consists of a **stable paraffin** blend that is non-hygroscopic and therefore not subject to bacterial contamination.
- It is **already available** and requires no investment along the supply chain in that it is dispensed in the same way as conventional fuels.

Ecofining™, the technological heart

Ecofining™ technology, patented by Eni in collaboration with Honeywell-UOP, enables HVO to be obtained through a process of hydrodeoxygenation and isomerisation. This process generates high-quality biofuels compared to conventional ones in terms of energy content, impurities and cold properties.

Projects abroad

Eni is engaged in projects to promote feedstock production from agriculture for biorefining (so-called agrifuel) that will feed the production chain and secure feedstock supply, while reducing cost volatility.

agri-feedstock

In **July 2022**, **Eni** completed construction of the oilseed harvesting and pressing plant (agri-hub) at Makueni, Kenya, and started production of the **first vegetable oil for biorefineries.** This is to be followed by the construction of a second plant to reach a total capacity of 30,000 tonnes of vegetable oil per year in 2023 and the development of associated agricultural supply chains.

This is the first integrated project to include Africa in the vertical biorefining supply chain that embodies all the keystones of **Eni's** approach towards **greater sustainability**, in which Eni has distinguished itself for its speed and operational excellence (one year from the agreement with the Kenyan government and six months from the start of construction) and for its **commitment to social development** (25,000 farmers and up to 200 people per day in the construction of the centre).

The agri-hubs will initially process castor, croton and cotton seeds to extract vegetable oil: more sustainable raw materials, **agri-feedstocks** that are not in competition with the food chain because they come from crops that are resistant to dry conditions and suitable for growing on degraded land or obtained through the recovery of waste and refuse from agro-industrial chains, with a view to a circular economy.

The project aims at facilitating market access for farmers, through the construction of oilseed processing factories, guaranteeing them access to land, through initiatives that do not negatively impact food production but instead foster socio-economic development, also through the production of feedstuffs and bio-fertilisers in favour of food safety.

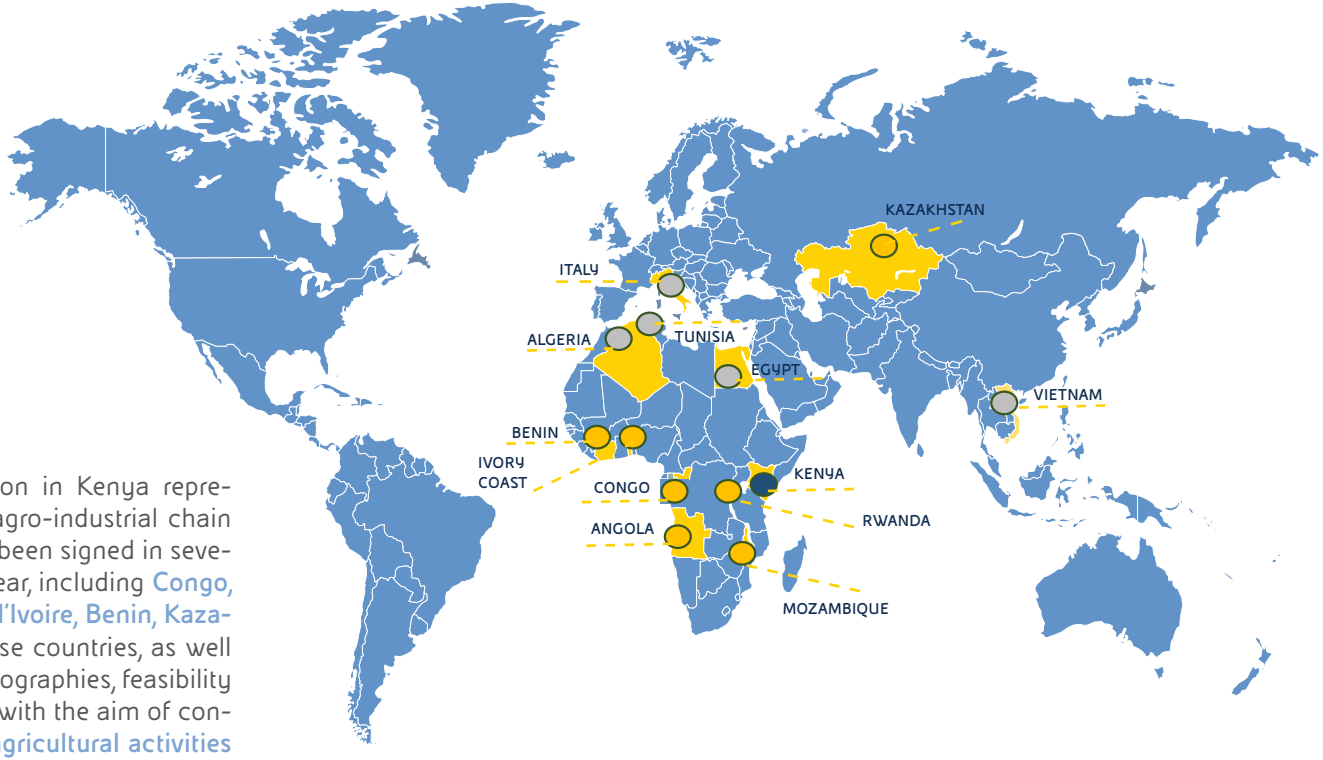
The supply chain and all the agri-feedstocks developed in the **Eni Kenya project have been certified according to the ISCC-EU** (International Sustainability and Carbon Certification) sustainability scheme and, within the Horizon 2020 project, in partnership with ISCC, actions have been initiated to obtain Low ILUC certification (low risk of direct and indirect soil change, negative impact on food production and forests).

UNDERGOING EVALUATION

PRE-FEASIBILITY/FEASIBILITY

FIRST PRODUCTION

PORTFOLIO OF INITIATIVES



Start-up of bio-oil production in Kenya represents the first step in Eni's agro-industrial chain initiatives. Agreements have been signed in several countries over the past year, including Congo, Mozambique, Angola, Côte d'Ivoire, Benin, Kazakhstan and Rwanda. For these countries, as well as for Italy and other new geographies, feasibility studies have been launched with the aim of conducting an initial phase of agricultural activities in the more mature countries starting in 2022 and then proceeding with the construction of seed-pressing plants for biorefining.

biomethane

Among alternative fuels with a low environmental impact, methane is the most technologically mature and consolidated on the market, boasting a distribution network of around 1,500 points of sale in Italy. Biomethane, which can be obtained from the organic fraction of urban waste or from agricultural and agro-food waste, is able to further reduce CO_2 emissions compared to fossil methane, taking into account the entire life cycle of the product.

Eni, as of the second half of 2021, is already only distributing biomethane on its own network - **around 110 own sales outlets**.

Today, **Eni** acquires biomethane from the GSE or through bilateral agreements with producers. Soon, however, it will be self-produced in **21 new proprietary plants**.

Eni also already owns a network of **15 sales outlets** that supply liquid methane (LNG).

Over the next four years, a further **25 new liquid methane** sales points are planned to cover the main roads most travelled by heavy transport vehicles. The gradual replacement of fossil **LNG with bio LNG** also started in the first half of 2022.

idrogeno

Eni is the largest producer and user of hydrogen in Italy and sees this carrier as a fundamental lever for the decarbonisation process.

Hydrogen is to play a pivotal role in the decarbonisation of industrial sectors that already use it in their own processes, such as chemicals and refining, and in those that are difficult to electrify, so-called hard-to-abate (e.g. steel mills, paper mills, ceramics, paper and glass production).

We are engaged in the development and implementation of hydrogen production processes:

- from steam reforming of natural gas in combination with CO_2 emissions capture **– 'blue' hydrogen**;
- from electrolysis powered by renewable energy **– 'green' hydrogen**;
- from **gasification** of non-recyclable waste according to a circular economy approach.

We are involved in the research and development of new hydrogen technologies (such as methane pyrolysis) and we promote the creation of a hydrogen ecosystem through international partnerships and membership of the **European Clean Hydrogen Alliance and Hydrogen Europe.**

The goal is to become a leader in the supply chain of **low-carbon hydrogen** and that from renewable sources by investing in projects:

- with **international partners**;
- for **self-consumption and industrial uses**;
- for **transport and mobility**: Eni is working on the construction of a network of hydrogen fuelling stations. The first station was opened in Mestre (Venice) in 2022; the second is planned for San Donato (Milan) in 2023;
- in **synergy** with the **CCUS - Carbon Capture, Utilization and Storage** - and RES - renewable energy sources and magnetic fusion activities.

Carbon Capture, Utilization and Storage

Carbon Capture and Storage (CCS) of carbon dioxide **is a process recognised as safe and technically mature because it is based on known and commercially available capture technologies** and because it exploits the **experience gained in natural gas storage for over a century**. Since the 1960s, Italy has been using depleted gas fields to store **strategic gas reserves** with a total of **14 active sites** and an operating capacity of over **14 billion m³**, without any major accidents ever occurring (source: Mise). There are **currently 27 active CCS projects worldwide**, some for decades such as Snohvit (2008) and Sleipner (1996) in Norway, and no CO_2 leaks have ever occurred. **More than 100 new projects are under development.**

In the energy transition, CCS - Carbon Capture and Storage is crucial for reducing process emissions from the most energy-hungry, so-called hard-to-abate industrial sectors, for which energy efficiency and renewable sources are not sufficient and for which, to date and in the medium term, there are no alternative solutions to CCUS that are as technically and economically effective.

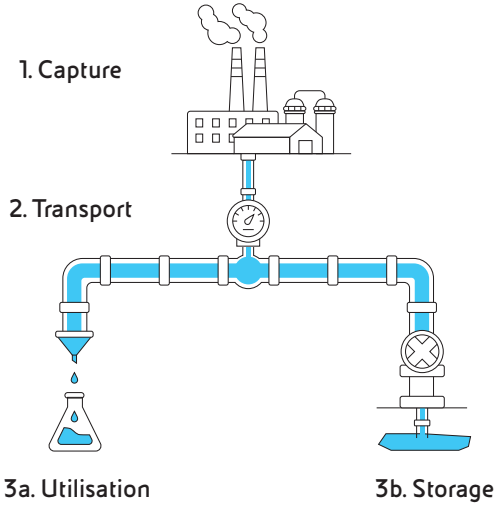
Eni's CCS - Carbon Capture and Storage projects are developed for the purely environmental purpose of contributing to decarbonisation through the permanent storage of CO_2 and the production of Blue Hydrogen.

How CCUS works (Carbon Capture, Utilization and Storage)

This is a process that enables the reduction of carbon dioxide emissions into the atmosphere through the capture of CO_2 and subsequent:

- reuse of the CO_2 in commercial products (CCU - Carbon Capture and Utilization);

- storage of CO_2 (CCS - Carbon Capture and Storage).



CCS: a mature and flourishing sector

The first CCS plants have been in operation since the 1970s and new projects are planned around the world in the coming years.

1971 Terrell, Texas
world's first CCS plant

1996 Sleipner, Norway
first CCS plant for emission reduction only

20 Mton
CO_2 stored by Sleipner project from 1996 to present

27 plants
industrial-scale CCS projects operational today

40 Mton
global CO_2 emissions avoided annually by CCS

>100 initiatives
new capture and/or storage projects in development

eni parking

Eni Parking will make 60 parking spaces available in the active **Live Stations** and in the redeveloped and upgraded Eni sites, for over 1000 car parking spaces equipped with smart parking services.

To date, 30 parking spaces have already been created, 17 gated and 13 single stall.

New openings are planned from north to south in 2022: **Milan, Savona, Poggibonsi, Pisa, Formia, Isernia, Castellaneta and Caltanissetta.**

In fully digital mode, by paying only by credit and debit card, access is gained to the parking terminals or directly with the **Eni Live app** which allows selection, unlocking and payment directly on your smartphone.

For **Enjoy** customers, when using car sharing, there is an integrated rate offering a **50% discount** on parking when combined with a daily rental with communication on the **Eni Live app and on the site.**

eni café

Eni Café is the food-format inside Eni Stations

It is the leading café chain in the country with over **600 locations** and **40 million cups** per year. The 5th food player in Italy with **100% Italian-made** products. Quality, taste and Italian style are the principles on which its range is based.

It will soon be key player in an opening plan also outside Eni service stations, with a new **look & feel** that will mark the brand's evolution from bar to food destination.

emporium

A proximity shop inside the **Eni Café**, created to fulfil consumers' fresh requirements.

It provides its customers with a convenient, fast and safe shopping experience.

It offers quality products selected from the most important names in the food sector which complement the cafeteria and restaurant offering of **Eni Café.**

Enjoy is Italian leader in car sharing, offering the possibility of renting cars and cargo vehicles even for very short periods.

Enjoy is present in five cities and has been operating in the mobility sector for over 8 years with offers for individuals and companies. The service has reached 1.4 million customers and 28 million rentals for 7 million kilometres travelled.

Solutions for companies

- More '**sustainable**' offer.
- Discounted corporate **rates on business activities** and for personal use by employees and associates.
- **Enjoy vouchers** with promotions and benefits.
- **Activation of Enjoy bubbles**, dedicated coverage areas.
- **Access to the Companies Portal**, the platform enabling management of all agreements and vouchers.

Enjoy Parking

ROME	
TERMINI STATION	
CIAMPINO AIRPORT	
FIUMICINO AIRPORT	
MILAN	
MILANO LINATE AIRPORT	
PORTA GARIBALDI STATION	
MILANO MALPENSA AIRPORT	
TURIN	
CASELLE TORINO AIRPORT	

Electric car sharing with battery swapping - XEV YOYO

Among the novelties, the **Enjoy** range is enriched by the inclusion in the Enjoy fleet of the **XEV YOYO**, 100% electric city cars. Thanks to "battery swapping" technology, replacing the batteries at Eni service stations, the **XEV YOYO** can be 100% recharged in just a few minutes, compared to the time it takes to refuel.

The development of this new offer represents a revolution in urban mobility: a car that is only used for the time and the route needed, with zero CO_2 emissions on the road, extremely easy to handle and enriching the range of more sustainable products and services.


battery
swapping
BATTERY XCHANGE
Don't Stop,
Swap.
Battery Xchange
XEV
YOYO
X
YOYO
enjoy

e-mobility

Electric mobility

Plenitude supports companies in the electrification of mobility, with solutions for the electric charging of company, customer and employee car fleets.

Services

Plenitude offers an integrated portfolio of services aiming at:

- **the sale** and installation of charging stations;
- **network connection** and infrastructure management;
- **charging station maintenance** and remote assistance;
- **supply of electricity** also from renewable sources;
- **interoperability/roaming** between Managed Service Providers to guarantee each user access and recharging from the company's charging stations and any other public network in Italy and the rest of Europe;
- **all-round administrative management** and support at all stages of the process, including payments and invoicing for the service provided.

Benefits

- **Access** to a network of 9,000 Plenitude + Be Charge charging points in Italy and Europe, to be extended to approximately 30,000 charging points by 2025 and 35,000 by 2030;
- **interoperability/roamin**g access and recharging at over one hundred thousand charging points in Italy and the rest of Europe;
- **availability of a platform** for managing the company fleet and its employees' cars;
- **marketing and cross-selling actions** (digital coupons, etc.).

energy efficiency

Plenitude supports companies with the objective of reducing energy consumption and emissions into the atmosphere through energy efficiency solutions and for the self-production of energy from renewable sources.

Services

Plenitude offers an integrated mix of efficiency creation services:

- energy diagnoses of production plants in compliance with Legislative Decree No. 73 of 14 July 2020 (amendment of Legislative Decree 102/14);
- feasibility studies to identify energy saving solutions;
- carbon footprint management and ISO 50001 certification;
- installation of photovoltaic plants for self-production;
- relamping with high-efficiency LEDs;
- optimisation of plants via BEMS (Building Energy Management Systems) for remote monitoring and management of plant performances also with the aid of artificial intelligence;
- building of thermal systems for heating or cooling with the aid of heat pumps and/or hybrid systems.

Benefits

Customers have the opportunity to take advantage of the Energy Perfomance Contract (EPC) formula that provides:

- savings on energy expenditure;
- state-of-the-art installations;
- zero running costs;
- no initial investment costs for realisation of the interventions;
- guaranteed performance;
- no routine and non-routine maintenance costs for the entire duration of the contract;
- on expiry the company takes ownership of the plant and obtains 100% of the savings.

white certificates

Plenitude's energy efficiency services allow companies to obtain certification of energy savings achieved with specific interventions.

Services

Plenitude provides all-round support for companies along the entire certification chain, guaranteeing:

- **the project** for obtaining the credits;
- **preparation** of the process for certification;
- **reporting of savings and application** for the issue of certificates to the competent authorities;
- **valorisation** of the certificates through a platform and sale on the market.

Benefits

Plenitude client companies receive a turn-key service that ensures them an economic contribution from the sale of Energy Efficiency Certificates.

plenitude

power

A flexible and reliable power offer

Power Generation & Marketing offers electricity and services to complement the development of renewables in the transition of the electricity system towards decarbonisation.

Solid industrial experience

Power Generation & Marketing, through its operating company EniPower, ensures the combined generation of electricity and heat in Italy through six thermoelectric power plants with a total installed capacity of about 5 GW.

The combined **cycle cogeneration plants guarantee continuity**, reliability and efficiency for the electricity system, at times of reduced availability of renewable sources, while reducing emissions through the use of natural gas.

The objective is to create long-term value for all stakeholders through a systemic approach that aims to maximise the efficiency, resilience and growth of the entire industrial chain. **Power Generation & Marketing** protects the health and safety of workers and prevents damage in plants and aims at greater focus on the environment and maximising of energy savings in power plant management.

ENIPOWER POWER STATIONS AND PLANTS IN ITALY

Towards a zero emission future

The strategic objective of **Power Generation & Marketing**, one of the leading names on the Dispatching Services Market, is to provide flexibility services to foster the development of renewable energy sources. For this reason, it is committed to the implementation of plants and new **technological solutions** capable of providing, in the medium term, flexibility and stability for the national grid, particularly with **low-carbon energy** production (Blue Power with CCUS - Carbon Capture Utilization and Storage), but also **through long-term energy storage**.

An ideal partner

Eni has **developed a certified and flexible sustainable business** offering that enables large customers to counter the strong volatility of markets, neutralising, even gradually, the price risk.

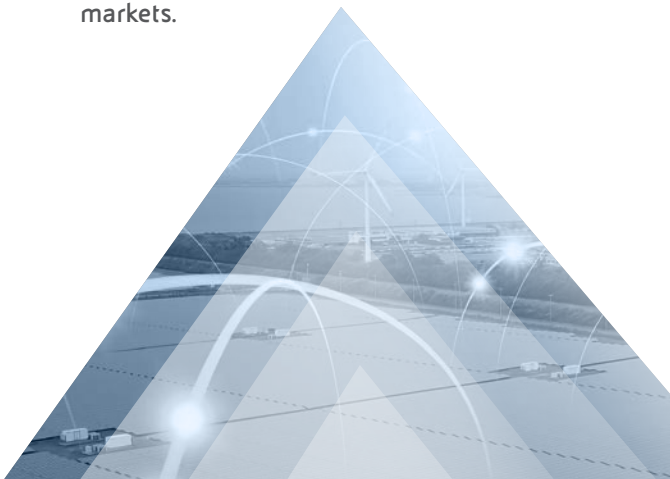
Activities

Asset Management

- **Combined electricity and steam production,** meeting objectives in HSE, process safety and efficient use of energy;
- **maximisation of plant technical performance** efficiency and reliability;
- **production and sale** of industrial water;
- **management of Internal User Networks (IUNs)** at operated sites;
- **management of asset integrity, maintenance and investment** processes in application of industry best practices and continuous improvement;
- **management of relations** with public and private stakeholders in the areas covered.

Market

- **Rationalisation** of the portfolio and management of associated risk;
- **management** of production plants on the dispatching services market;
- **electricity trading** on the stock exchange and B2B markets;
- **sale of electricity,** steam and process water for the energy needs of co-located customers;
- **purchase** of electricity produced by third parties;
- **trading** on the environmental certificates markets;
- **trading on international power and CO_2 markets.**



remediation, water e waste management

Eni Rewind is Eni's environmental company that operates in line with the principles of the circular economy to enhance the value of land, water and waste, industrial or from remediation, through more sustainable remediation and recovery projects in Italy and other countries.

Rewind stands for Remediation and Waste Into Development, a summary of the company's mission.

≈100
Sites under remediation

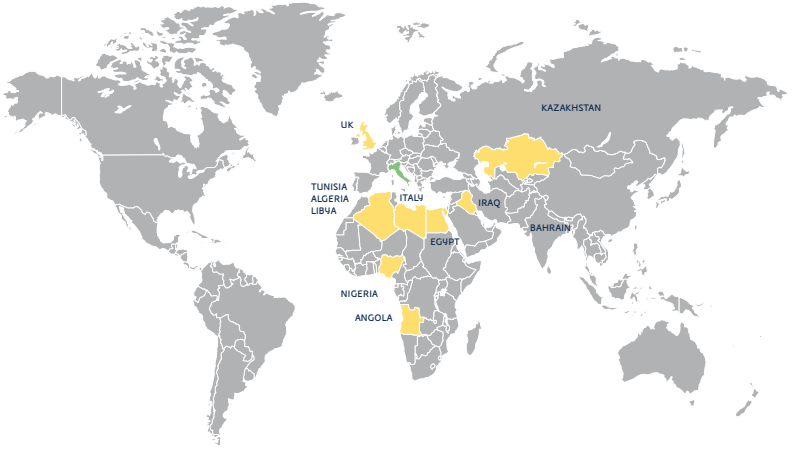
≈3,800 of properties in Italy
40% undergoing remediation
60% available for new development initiatives

≈€ 800 mln
Annual environmental costs

Annual costs for activities

SITES MANAGED BY ENI AS A GLOBAL CONTRACTOR

SITES ENI REWIND

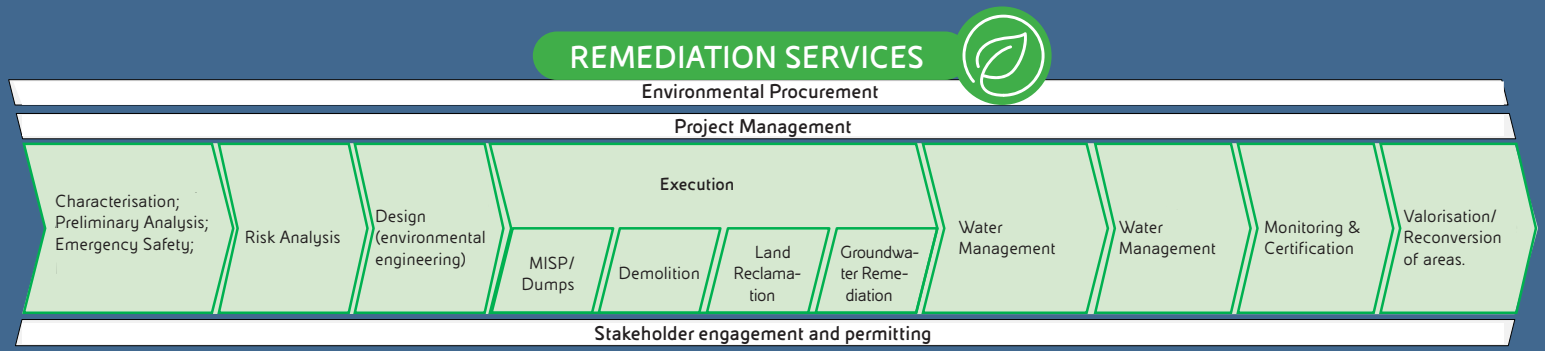


ONGOING PROJECTS

Since 2018 Eni Rewind has been supporting Eni in the development of environmental projects and services also in other countries.

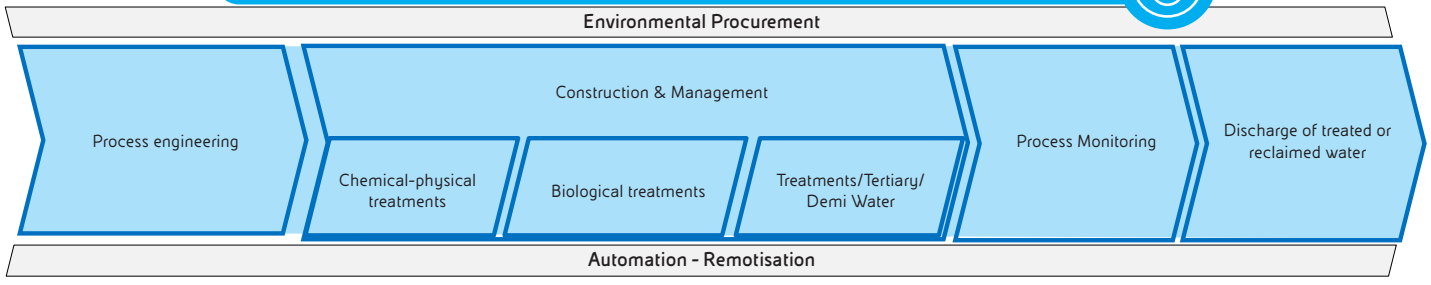
Eni Rewind solutions

Thanks to the solid experience gained in the remediation of sites with complex and diverse industrial histories, Eni Rewind can offer tailor-made environmental solutions for every client, both public and private, having obtained SOA certification for categories OG 12 remediation, OS 14 waste disposal and recovery, and OS 22 water purification and treatment.



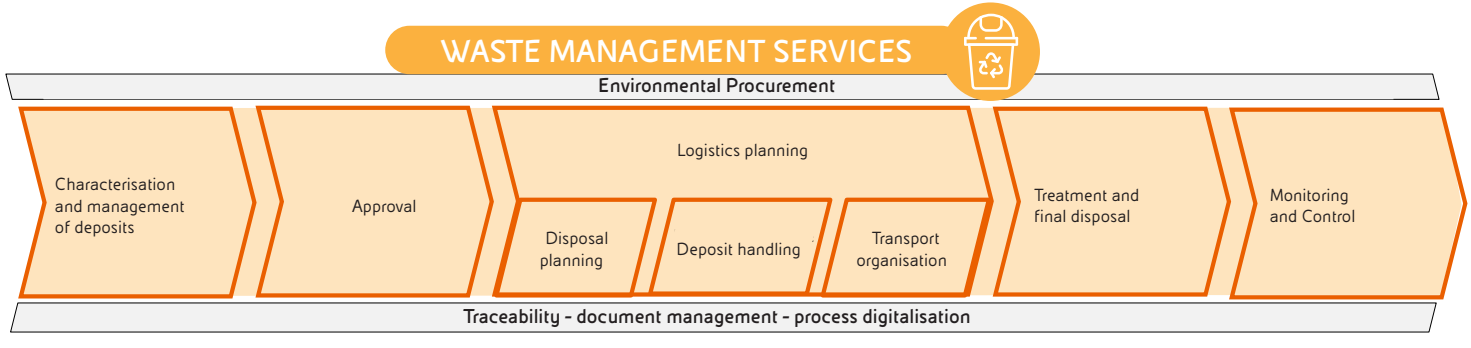
Eni Rewind oversees the entire environmental remediation process with consolidated expertise, from characterisation to certification and final monitoring, with the objective of regenerating brownfield and former industrial areas. To do this it uses integrated and specialist teams, as well as its own laboratories and dedicated permitting and procurement personnel. The operating model is based on a participatory approach that involves stakeholders right from the preliminary stages of the work to ensure definite opportunities for redevelopment and added value of the areas in which we operate.

WATER MANAGEMENT AND TREATMENT SERVICES



Eni Rewind implements and manages groundwater reclamation schemes through solutions, including innovative ones, which guarantee the efficacy and efficiency of processes for the treatment of water resources, in line with the best available technologies. The use of the most advanced methods of automation, remotisation and dynamic control of plants and water barriers and the use of specialised in-house teams allow us to offer water management services to different industrial sectors and solutions for maximising the regeneration and reuse of treated water.

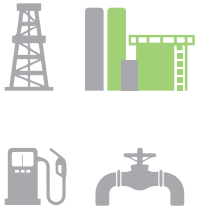
WASTE MANAGEMENT SERVICES



Eni Rewind manages the cycle of waste from remediation and industrial activities with efficient and more sustainable recovery and disposal solutions, in line with current regulations and industry best practices. Waste transport, disposal and recovery are guaranteed by qualified suppliers through the definition of specific national contracts. The management model adopts advanced IT systems to reduce the distance between the site of origin and the dumping plants, thus minimising environmental impact and enhancing traceability.

REMEDIATION

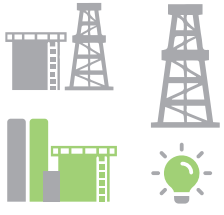
Remediation of contaminated areas to enable new opportunities for sustainable development



- Development and application of more sustainable remediation technologies
- Management of decommissioning and soil and groundwater remediation activities
  - at decommissioned and operational industrial sites
  - of retail outlets (service stations)
  - of contaminated areas (e.g. for pipeline break-ins)
- Remediation planning with a view to the valorisation and future reuse of areas

WATER AND WASTE

Water and waste treatment to maximise recovery and reuse



- Chemical/physical/biological treatment of ground, surface and production water for reuse for industrial or irrigation purposes, contributing to the reduction in water withdrawal in nature
- Management of the industrial and remediation waste cycle, from production to final disposal, maximising recovery and minimising waste
- Development of technologies and skills in a partnership with the main players

DEVELOPMENT

Development of new business to support energy transition

- Construction of new waste treatment and recovery plants in synergy with the industrial re-conversion of Eni sites
- Use of reclaimed areas for the development, by Eni New Energy, of plants for the production of energy from renewable sources
- Development of activities for third parties, leveraging the expertise gained in the areas of remediation and waste management

invix®

Invix®, the hand and surface disinfectant made using plant-derived ethanol as the active ingredient, comes from the fermentation of biomass sugars.

The product is a medical product authorised by Italy's Ministry of Health, developed from the formula of the World Health Organisation.

The disinfectant power with antimicrobial action is guaranteed by the presence of alcohol, ethanol and hydrogen peroxide, acting on bacteria, yeasts and viruses, according to UNI EN14476, EN13727 and EN13624 standards.

The gelling agent used is cellulose-based, thus avoiding the presence of substances that can generate microplastics.

It is produced at the Versalis plant in Crescentino, Vercelli.

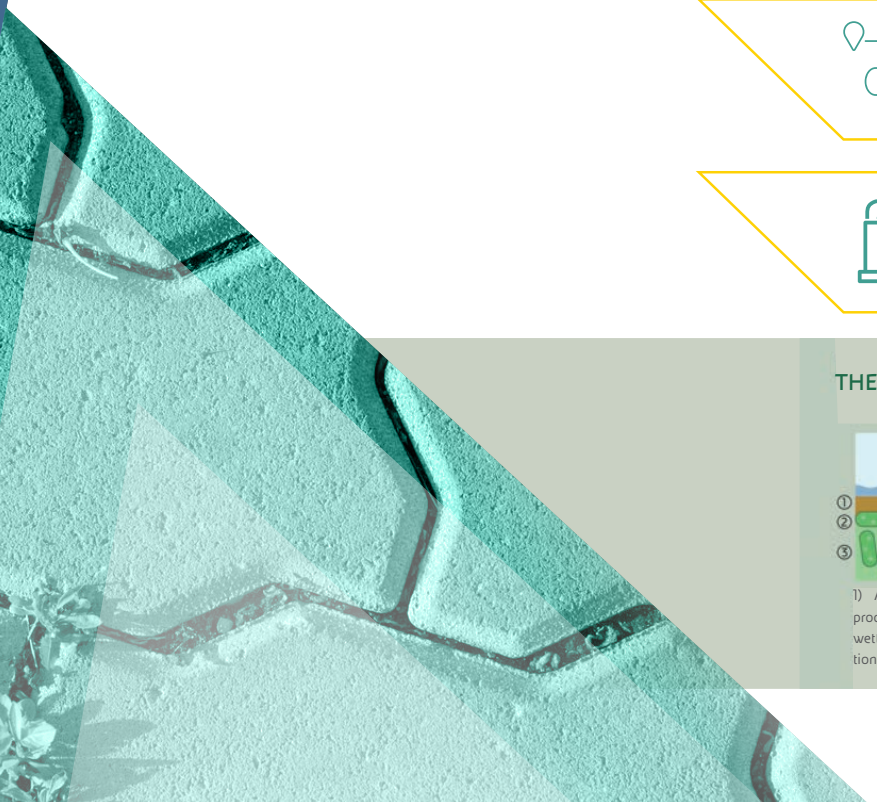
The range includes gels and liquids in different formats for disinfecting hands and all washable surfaces.


DISINFETTANTE
invix
invix

sunpower®

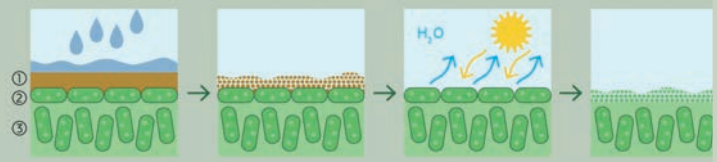
Sunpower® is a herbicide for professional use, with a desiccating and desuckering action, based on pelargonic acid, produced and marketed in partnership with AlphaBio Control.

It is a non-systemic plant protection product of natural origin, whose active ingredient is derived from renewable and biodegradable plant raw materials, used to weed annual and perennial weeds in urban and industrial settings. It does not cause resistance and acts on weeds resistant to other herbicides.



- urban areas - public parks and gardens, tree-lined avenues, flower beds, dog areas, sports fields, cycle paths and areas, tram sleepers;
- tourist areas - campsites, camper van sites, service areas, archaeological and monument areas;
- road areas - hard shoulders, traffic islands and roundabouts, motorways, railways;
- rural and industrial areas, cemetery areas.

THE ACTION OF SUNPOWER®



1) Application of the product with complete wetting of the vegetation to be treated.

2) Degradation of the cuticle with consequent permeability.

3) Loss of water from the cells.

4) Desiccation of leaf tissue.

versalis revive®

Versalis Revive® is the line of products with different polymer bases (styrene and polyethylene) containing post-consumer urban recycled plastic, developed in Versalis research laboratories.

The technological challenge is to give new life to plastic waste through recycling, in order to obtain new products to be used in multiple quality applications.

This new line expands the portfolio of high-quality, innovative and more sustainable products that the company offers to an increasingly demanding market.

The Versalis Revive® portfolio is broad and diversified depending on the polymer base.

Versalis Revive® PE - polyethylene products are low- and high-density polyethylene-based compounds containing, depending on the grade, up to 75% plastic derived mainly from the recycling of packaging from post-consumer household and urban waste collection and recycling, and/or from commercial and industrial supply chains. These products can be used in various sectors such as industrial packaging and agriculture as mulching and drip irrigation films.

Versalis Revive® EPS - Expandable Sintered Polystyrene is the new range of expandable polystyrene containing secondary raw material supplied by the CoRePla circuit of Italian domestic waste collection and recycling (e.g. polystyrene plates, cups, trays and yoghurt pots).
The recycled material is incorporated into the finished product through the continuous mass production technology of the Versalis plant in Mantua to ensure the same performance as the virgin product.
The minimum recyclate content varies from 10% to 35% depending on the grade. The finished product is destined to be processed for the production of insulating panels for energy saving in buildings (thermal insulation) meeting the 'Minimum Environmental Criteria' (MEC) or for the protective packaging of household appliances and furniture. These products have received Second Life Plastic and Recyclass certification.

Versalis Revive® PS - polystyrol - Series Forever is the range of compact polystyrene containing secondary raw material from the CoRePla circuit of Italian domestic waste collection and recycling.
The high level of purity of the recycled polystyrol and the use of specific Versalis virgin styrene polymers give rise to compounds containing 75% recycled polystyrene, guaranteeing performances capable of satisfying different needs, such as thermal insulation, packaging and household items.

XL EXTRALIGHT®

XL EXTRALIGHT® produced by Finproject (Eni) is an ultra-light, closed-cell, expanded and cross-linked material, the result of an exclusive production process patented in Italy and worldwide that starts from the formulation of the material up to the moulding phase using injection technology.

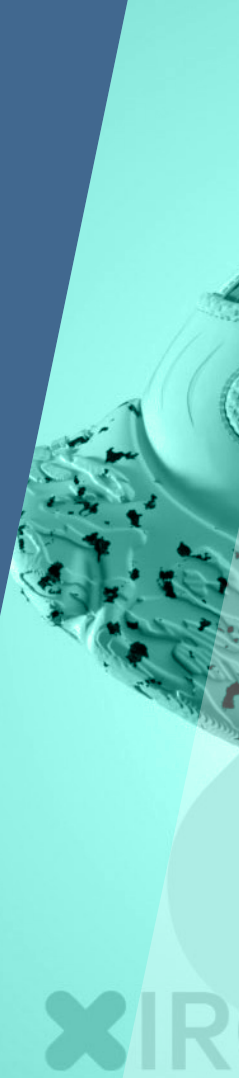
Obtained from a polyolefin-based granule, it weighs about three times less than others with the same mechanical properties. Its key feature is to combine low density and excellent physical-mechanical properties with a special 'soft touch' tactility.

Many products can be made from XL EXTRALIGHT®, from footwear to bags, watches to seating, cushions for whirlpools to protective shells.

Shoe soles made in XL EXTRALIGHT® are more comfortable, lightweight, resistant and high-performance than others with the same mechanical properties.

The latest ones are called **XL EXTRALIGHT® Organix 3.0**. Lightweight, comfortable and innovative, they are composed of 30% organic and circular raw materials: organic waste/by-products (vegetable waste fats).

Another innovative product is **XL EXTRALIGHT® Sustainable +** made with 51% waste and by-products from the production cycle that instead of being dumped in landfills are recovered, resulting in a product made with more than 50% pre-consumer recycled materials.



FINPROJECT

The industrial group Finproject, today a company of Versalis (Eni), based and headquartered for almost sixty years in Morrovalle, in the Marche region, is an international leader in the production of compact and expanded PVC compounds and in the production, marketing, moulding of shoe soles and manufactured products in ultra-light materials under the XL EXTRALIGHT® brand for the most important brands in the footwear market and other industrial sectors such as automotive, interior design and safety.

The company driver is to combine materials and production processes with sustainability.

Particular attention is given to the origin of raw materials, also using products of renewable origin and waste from highly engineered production processes.

carbon offset

Eni's first operations in the area of Carbon Offset, and in particular NCS, were initiated in the area of forest protection, according to the so-called REDD+ (Reducing Emissions from Deforestation and Forest Degradation) scheme, working alongside governments, local communities and dedicated UN Agencies, in coherence with NDCs (Nationally Determined Contributions), National Development Plans and the UN Sustainable Development Goals (SDGs).

Thanks to a solid network of agreements with international developers, Eni monitors the development and implementation of projects, verifying their adherence to the principles of the REDD+ scheme, in order to obtain certification of the reduction of carbon emissions (Verified Carbon Standard - VCS) and social and environmental impacts (e.g. Climate Community & Biodiversity Standards - CCB) according to the highest, internationally recognised standards.

In the medium and long term, Carbon Offset initiatives based on both nature and ecosystems as well as technologies with the aim of maximising the Carbon Dioxide Removal component will be added.

Keystones of the Redd+ project in Zambia

• Addresses the causes of deforestation, forest degradation and obstacles to the conservation and enhancement of forest carbon stocks.
• Promotes biodiversity conservation and habitat management.
• Promotes energy efficiency in the timber sector.
• Supports the promotion and expansion of alternative and more sustainable livelihoods.

The Luangwa (Zambia) project is overseen by international partners who will monitor its development, such as BioCarbon Partners and Peace Parks Foundation. Eni has signed a 20-year Verified Carbon Unit Purchase Agreement to cover the Zambia project.

944,000 total hectares

More than ten species on the IUCN Red List monitored

58 Social projects (2016 - 2020)

approx. 200,000 people from local communities involved

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