

Committed to environmental protection

From a company of responsibility, NGE is now a company of commitment.

THE ENVIRONMENT..

ANYTHING BUT OPTIONAL

NGE has a genuine commitment to environmental issues, and is working hard to improve local acceptance of its projects, at the same time as reducing the impact its worksites have on the surrounding environment to ensure the long-term sustainability of resources and ecosystems. Promoting and implementing a proactive and sincere environmental policy also helps to boost its employer appeal in the jobs market, and further increase the pride its employees already have in working for the Group.

100%
of managers have completed climate wall chart training

1
energy conservation expert for each Group entity

LEVERAGING TOMORROW'S GROWTH

This universally high level of eco-awareness provides NGE with the opportunity to progress its operating methods, and move into new sectors such as landscaping, decontamination and deconstruction. Aware that the wholehearted involvement and expertise of its people is essential if this environmental commitment is to be fully implemented, NGE is ensuring that 100% of its managers are made fully aware of the issues involved through the use of the climate wall chart, and has appointed one energy efficiency expert for each Group entity. The NGE New Generations endowment fund supports non-profit organisations committed to education and environmental issues, including Milvi and Wings of the Ocean. NGE has now formalised its Environment Plan to facilitate its worldwide adaptation and implementation. Based directly on UN Sustainable Development Goals, it is structured around the four key issues of climate, biodiversity and water, the circular economy and people.

4 COMMITMENTS → Quantified targets



Combating global warming

-4%
lower greenhouse gas emissions year on year

-10%
lower energy consumption in 2023



Protecting and conserving biodiversity and water

-10%
lower consumption of drinking water in 2023



Developing the circular economy

80%
of worksite waste and excess materials recovered every year



Onboarding our teams

100%
of managers in France and worldwide will have attended a climate wall chart workshop by the end of 2023

Targeting special structures

Large-scale renewable hydrogen

The French government's belief in low-carbon hydrogen as an energy of the future is backed by €7 billion of state funding for the period to 2030. NGE has already begun construction work on Air Liquide's Normand'Hy facility, which will be the country's first large-scale carbon-free hydrogen production plant. Located on former marshland in Port-Saint-Jérôme, the project requires the implementation of special precautions to protect and conserve native plant species and amphibians.



Work on the Nachtigal dam in Cameroon was 80% complete by the end of 2022

The Nachtigal dam: key to the economy of Cameroon

NGE is engaged in building a hydropower dam on the Sanaga River in Cameroon. Once in service, the hydropower plant's seven 60 MW turbines will meet 30% of the country's power demand with this form of renewable energy.

80%
complete by the end of 2022

Capturing heat from the ground

NGE has delivered the geothermal power plant for the future Paris 2024® Olympic Village. On completion, it will provide decarbonised, local and renewable energy to heat and cool the athletes accommodation throughout the 2024 Olympics. It will also supply the future community in and around the Olympic Village, which will provide homes for 6,000 people and workspace for further 6,000.



Wildlife corridor over the Taillan-Medoc bypass

Shipyard wastewater treatment

In the Grand Port Maritime de Marseille, NGE is upgrading the systems used to treat effluents from ship maintenance and repair work with no interruption to work in the repair yard. The new system separates contaminated water from clean water, isolates the effluent content and treats it to a standard compatible with discharge into the natural marine environment.

Leading by example

Recovering worksite waste materials and promoting the circular economy

Its national network of Revama® branded worksite waste materials recovery centres allows NGE to recycle worksite inert waste and surplus materials, including concrete, ballast, asphalt, excavated earth and spoil. These centres are also open to other construction industry users.

6

Revama® centres

22

Group-owned worksite waste recovery centres



▼ Concrete crushing at the Martignas-sur-Jalle worksite waste recovery centre

Materials recycling for the Tangier MED port project

For its Tangier MED port project in Morocco, NGE has used more than 2 million cubic metres of spoil recycled by the teams from previous project worksites. The fact that the materials recovery centres are only 4 km from the Tangier MED worksite minimised transport mileage and avoided the need to bring in materials from quarries more than 20 km distant.

More than **2** million m³ of spoil recovered and reused

Measuring actual CO₂ emissions from production plant and machinery

NGE has adopted a system for measuring CO₂ emissions generated by the fuel consumed by its production plant and machinery fleet, gathering the data and uploading it in real time. The Group can then access that data by plant and machinery type, location or worksite. This highly detailed level of immediately available measurement data optimises fleet management and enables prompt action to be taken on issues such as eco-driving, engine idling rates and worksite organisation. All new plant and machinery acquired by the Group uses only biodegradable oil and grease. 20% of all cars, vans and utility vehicles ordered in 2022 have emissions levels below 60 g/km; twice the 10% demanded by the French Mobility Orientation Law (LOM) for that year.

2,600

items of plant and machinery fitted with telemetry monitoring

700

of which are production plant and machinery

Recycled concrete taxiways

Three of the taxiways at Paris-Charles de Gaulle airport have been resurfaced: two with recycled concrete and the third with asphalt/concrete composite. 16,000 tonnes of materials were recycled using an on-site crusher plant.

Laying low-carbon rails

The Société du Grand Paris encourages the use of recycled steel for rail manufacture. NGE is laying 4,000 of these rails on the shared section of Lines 16 and 17. Produced in more energy-efficient electric arc furnaces, the emissions generated by each rail are 600 TeqCO₂ lower than with conventional methods.

Innovating for the environment

NGE receives the FNTP Biodiversity Trophy

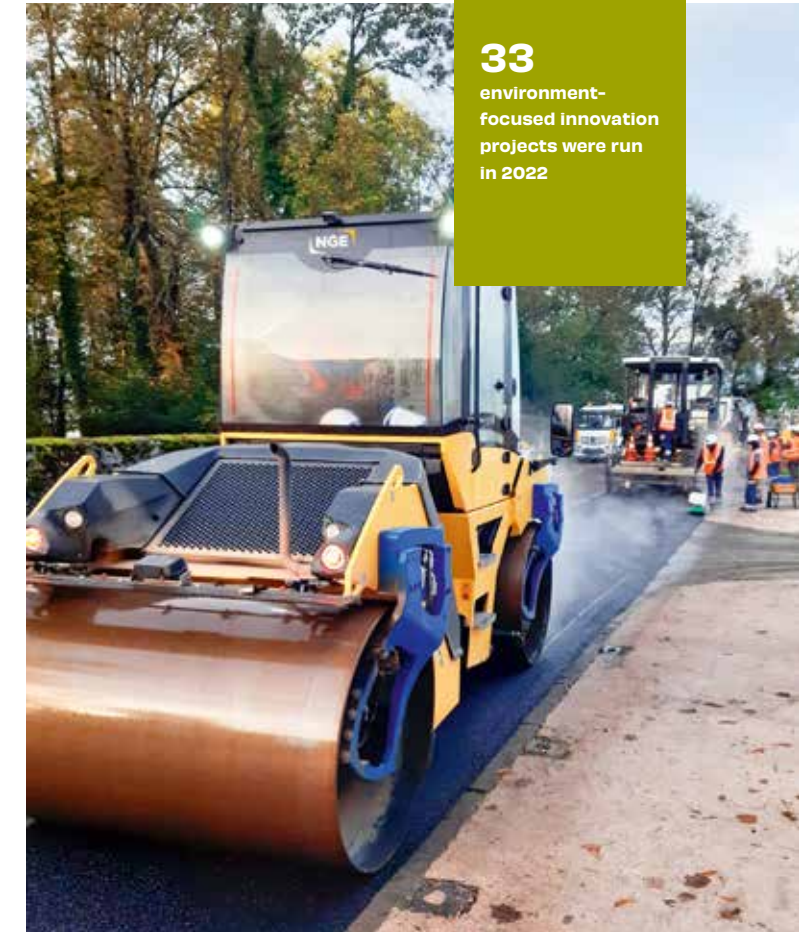
Invasive non-native plants pose a real threat to biodiversity. Working in close collaboration with a number of scientific bodies, NGE has developed a digital app that calculates an appropriate mix of seeds for a given site to control those invasive plants targeted. Using no chemical plant protection products, this completely natural and eco-friendly solution has been presented with a 2022 Biodiversity Award by the French National Federation of Public Works Contractors (FNTP).

Heat-reducing paint

NGE has developed, and is currently testing, a paint with the ability to lower road surface temperatures by at least 10°C during heatwaves. Climat'Road is a water-based paint containing partially hollow ceramic beads. Trialled in Lyon in 2021 and in Panazol during 2022 to surface-treat the courtyard of a community centre, this solution has been developed as a response to the problem of urban heat islands. NGE will be offering it more widely to local authorities in 2023.



▲ NGE has developed a paint to reduce the effect of urban heat islands



▲ NGE has developed its own surfacing asphalt binder based on biosourced ingredients: 25% of the raw materials used come from renewable wood-derived sources

The first biosourced surfacing asphalts enter production

NGE has developed, and is now marketing, its own surfacing asphalt binder based on biosourced ingredients: 25% of the raw materials used in BIOSTAR B25 come from renewable wood-derived sources. The Group developed this innovative new product in its own laboratory, and now produces it at Brive-la-Gaillarde. The plant-based composition of BIOSTAR B25 reduces the environmental impact of road surfacing projects by providing a viable alternative to 100% oil-derived bitumen. The use of forestry by-products also gives this binder its own carbon storage credentials. This bio-based binder also saves energy and reduces fume emissions by lowering the manufacturing temperature by more than 20°C.

57%

of the NGE R&D budget is devoted to environmental research projects

33

environment-focused innovation projects were run in 2022