Our commitment to sustainability in logistics
Sustainability has many facets. For us, at Kuehne+Nagel, sustainability means creating a corporate culture of sustainable behaviour in the first place. However, the concept of sustainability is also reflected in our services. We already offer several sustainable solutions today and will continue to expand them in the years to come. We understand that at the same time, it is becoming more and more important for our customers to achieve sustainable efficiency with the least possible environmental impact. With „Net Zero Carbon“ we address CO2 reduction in transport and logistics services worldwide. Taking on the role as an industry leader and pioneer in sustainable logistics, we are pushing decarbonisation in our company, for our customers and finally in favour of our global environment.

We have set ourselves two important goals: Firstly, we will compensate direct CO2 emissions that cannot be avoided as of 2020. Secondly, we have decided to proactively address the CO2 footprint of the transportation services performed by our suppliers – airlines, shipping lines and haulage companies – by 2030."

Consumers drive the change, and companies make it happen. Thus, at Kuehne+Nagel, sustainability development is at the heart of our commitment.

Dr. Detlef Trefzger
Chief Executive Officer
Kuehne+Nagel International AG

“Sustainability has many facets. For us, at Kuehne+Nagel, sustainability means creating a corporate culture of sustainable behaviour in the first place. However, the concept of sustainability is also reflected in our services. We already offer several sustainable solutions today and will continue to expand them in the years to come. We understand that at the same time, it is becoming more and more important for our customers to achieve sustainable efficiency with the least possible environmental impact. With „Net Zero Carbon“ we address CO2 reduction in transport and logistics services worldwide. Taking on the role as an industry leader and pioneer in sustainable logistics, we are pushing decarbonisation in our company, for our customers and finally in favour of our global environment.

We have set ourselves two important goals: Firstly, we will compensate direct CO2 emissions that cannot be avoided as of 2020. Secondly, we have decided to proactively address the CO2 footprint of the transportation services performed by our suppliers – airlines, shipping lines and haulage companies – by 2030."

Our path to CO2 neutrality – visibility, reduction, offsetting

Our 2030 target of neutralising our carbon emissions and our customers’ transport CO2 footprint is ambitious. It demands that we commit to implementing green initiatives into our everyday activities around the world, and to assisting our customers in achieving their own bold environmental targets.

Advanced CO2 visibility through big data and predictive analysis enables us to see and reduce our CO2 emissions, and accurately offset those emissions. Our customers get full visibility of their shipping-related emissions in our seaexplorer and CO2 calculator platforms so they can choose the most environmentally conscious services.

Through our “Net Zero Carbon Footprint” initiatives we offer environmentally friendly, sustainable and innovative supply chain solutions that reduce CO2 emissions. For example, we offer individual Biofuel solutions in cooperation with carriers. We can lessen the remaining footprint by investing in certified nature-based projects that work towards the Sustainable Development Goals (SDGs).
Caring about the future of our planet is a crucial topic that we need to address today, in order to ensure a liveable future for tomorrow.

Ocean acidification and global warming are dramatically impacting our natural ecosystems and threatening life on our planet; we need and want to change that reality. We know that the logistics industry contributes to roughly 8% of the emission of CO2 worldwide.

As industry leaders, we are committed to reduce our contribution to that percentage through our Net Zero Carbon programme. We are working with several international organisations, such as the UN Global Compact, the Arctic Pledge, Getting to Zero Coalition, Sustainable Air Freight Alliance, Clean Cargo and the Science-Based Targets Initiative to base our programme on measurable targets according to the Sustainable Development Goals (SDGs), as well as promote and support industry-wide activities and methodologies.
However, in spite of all our efforts at reduction, CO2 emissions cannot yet be 100% avoided. Technological progress is helping to reduce emissions, but as GDP growth causes an up to two-fold increase of global transports, emission reduction activities are outpaced by economic growth.

**The time to act is now.**

Our strong carbon offsetting programme allows like-missioned customers to fully offset their CO2 emissions. Carbon offsetting is a recognised mechanism that allows companies and individuals to counterbalance CO2 emissions of a shipment that cannot be avoided through savings.

This will be achieved by committing to a reduction in our collective carbon emissions through projects that protect and renew our planet by taking CO2 out of the atmosphere.

Kuehne+Nagel partners with nature based redevelopment and protection projects around the world that help reduce greenhouse gas emissions while improving the livelihoods of local communities and preserving biodiversity and wildlife.

These projects are verified by independent organisations with the internationally recognised Verified Carbon Standard (VCS) or Gold Standard (GS), and use the UN Sustainable Development Goals (SDGs) as guides toward impact.
What can I do? What can my company do?

1. Be aware
   Measure the footprint of your supply chain with our carbon calculator platforms

2. Decarbonise the transport
   Optimise transport routes and modes from a CO2 perspective

3. Eliminate the remaining CO2
   Lessen your footprint by offsetting the remaining impact
This is how CO2 offsetting works

Unavoidable CO2 emissions? We can help.

CO2 emissions of shipments cannot be 100% avoided. Until they can be technologically reduced to zero they can be offset via Kuehne+Nagel...

CO2 credits are generated to prove that a certain amount of CO2 emissions has been offset and that the shipment has been CO2 neutralised. One CO2 credit neutralised 1 tonne of CO2.

Offsetting with us is simple.

1. CO2 emissions are calculated as per transparent CO2 emission calculations
2. Investments in nature based projects around the world are made to help reduce greenhouse gas emissions by taking CO2 out of the atmosphere. Kuehne+Nagel provides audited CO2 emission calculations as basis.
3. These independently verified projects offset CO2 emissions of transports. The project portfolio is expected to grow over time, increasing your benefits.
4. As a leading global logistics provider we acknowledge the responsibility we have to the environment, to our ecosystems and to humanity.

Join us in being responsible stewards of our planet and its people.

For further information visit our website https://home.kuehne-nagel.com/-/company/corporate-social-responsibility/carbon-offset

Or contact your local Kuehne+Nagel representative to learn more about offsetting the environmental impact of your supply chain.

Your benefits

- One clear message. 100 % CO2 neutral supply chain
- Worry-free. Auditing by an independent party
- Simple. You order – we arrange everything on your behalf
- The right thing to do. Projects have a positive impact on climate and on society
- Transparent. Monthly invoices are bundled with the shipments
- Show the impact. At the end of each year you can receive a certificate and report of impact
- Share the story. Tell your customers that your supply chain is CO2 neutral
Our projects counterbalance emissions

Our offsetting projects are located all over the world:

- Peru
- India
- Indonesia
- Guatemala
- China
- Thailand
Cordillera Azul National Park REDD+ Project, Peru

2.5 million tonnes of CO2 credits generated annually on average

Protecting unique biodiversity and restoring degraded land

The Cordillera Azul project supports a rich ecosystem of indigenous biodiversity, high carbon stock forests and a multicultural population of more than 250,000 people organised in 400 communities living in the buffer zone around the Park boundaries. The project protects this unique biodiversity and restores degraded lands with agroforestry systems (cocoa and coffee) in the buffer zone, which are relied upon by small farmers and local communities for their livelihoods.

Project Highlights

- 1.6 million hectares of endangered forest preserved
- 28 High Conservation Value Species protected
- Manufacturing sustainable products including Fair Trade and organic cocoa and coffee
- Improved schools for 6 communities
- 24 sustainable companies created or supported
- 700+ jobs supported, 30% held by women

The project helps to achieve these UN Sustainability Development Goals
Katingan Mentaya Project, Indonesia

Preventing forest clearance

The Katingan Mentaya Project protects peatland territories in Central Kalimantan, Indonesia. It stops forest clearance which would have led to the draining of the underlying peat. The protected land is home to numerous critically-endangered species, including up to 10% of the surviving Bornean orangutans, southern Bornean gibbons and proboscis monkeys.

Project Highlights

- 149,800 hectares intact peat swamp forest preserved
- Security of necessary habitats for 5 critically endangered species, 8 endangered species and 31 vulnerable species
- Collaboration with 34 communities in the project region
- Over 500 people are directly employed by the project

The project helps to achieve these UN Sustainability Development Goals

75 million tonnes of CO2 credits generated annually
The Guatemalan Conservation Coast, Guatemala

Protecting endangered forests

The project supports establishing new nature reserves and supports existing natural forest under threat from deforestation and unsustainable land-use activities. The project area is vital for biodiversity conservation because it serves as a wintering and stopover site for 120 migratory birds species. It promotes agroforestry ecosystems and increases eco-tourism, and supports community development programmes, such as health and education for women.

Project Highlights

- 59,941 hectares of threatened forest protected, 2,311 hectares reforested
- 30 high conservation value species protected
- 7 sustainable companies founded or assisted
- Over 1,300 people have benefited from health services, especially reproductive healthcare
- 700+ jobs supported, women hold 20%

The project helps to achieve these UN Sustainability Development Goals
The Improved Cooking Stoves Programme, India

Replacing conventional cooking methods

The project aims to provide energy-efficient improved cooking stoves in domestic households. Conventional cooking methods are harmful to people’s health causing indoor air pollution, killing over a million people each year in India. They require a lot of firewood, which depletes forests and emits greenhouse gases. The improved cook stoves decrease the smoke produced by burning the fuel, providing a safer and healthier home and significantly reducing firewood consumption.

110,000 tonnes of CO2 credits generated on average each year

Project Highlights

- Over 800,000 clean cook stoves have been sold in India
- Envirofit stoves decrease fuel use by up to 60%. This saves families 2 months of time collecting fuel and increases their yearly earnings by up to 15%
- Envirofit’s chimney stoves have shown to decrease household air pollution 46% below the limits recommended by the WHO
- Envirofit stoves reduce smoke and toxic emissions by up to 80%

The project helps to achieve these UN Sustainability Development Goals
Everbright Landfill Gas, China

Greening the East Electricity Grid with renewable resources

Over 80% of China’s power supply originates from coal-based energy plants. China’s expanding cities and economies make the supply of energy and goods a logistical challenge – along with its disposal and the implications of increasing garbage streams. This project captures methane emissions from a landfill site and uses them to create power, contributing to China’s sustainable development.

Project Highlights

- 24,992 MWh of sustainable power exported to the grid on average yearly
- Waste control supported by this project, showcasing shift in sustainable industries
- 24 jobs generated for continual positions for project operation, supporting local economies

The project helps to achieve these UN Sustainability Development Goals
Siam Cement Group Biomass to Energy, Thailand

Making the Thai cement sector more sustainable

By shifting to renewable biomass instead of fossil fuels, five Thai cement manufacturing plants can substantially reduce their carbon emissions – leading to environmental and socio-economic benefits for surrounding communities.

Project Highlights

- 68,445 check dams built to improve water sources sustainably
- 9,000 hectares of eucalyptus forest planted, improving soil quality and biodiversity in surrounding woodlands
- 100 people per day are treated in mobile health clinics, providing valuable access to healthcare for communities

The project helps to achieve these UN Sustainability Development Goals
Renewable hydropower for the island of Sumatra

Located in rural Sumatra, this run-of-river hydroelectricity project provides the Musi River's flow to generate clean energy for the grid. The project encourages regional jobs and new income streams and has funded infrastructure improvements and a reforestation programme.

Project Highlights

- 765,677 MWh generated on average annually by the hydro plant
- 50 jobs created in power plant operations
- ±20 hectares of land reforested in the project area as part of a dedicated programme to promote a healthy, natural ecosystem
- Training for locals on composting and making organic fertiliser from invasive aquatic plants
- 2 drawbridges repaired and new roads, trash basins and economic support for public works

The project helps to achieve these UN Sustainability Development Goals

568,898 tCO2e mitigated on average yearly
Replacing fossil fuel power plants

The project is a newly built grid-connected photovoltaic power plant with installed capacity of 100MW, decreasing greenhouse gas emission and the adverse impacts on human health and the local environment by replacing fossil fuel power plants. The project is capable of providing long-term and short-term job opportunities. Further advantages to the local community comprise improved road conditions, working environment and local public facilities.

- 100 MW of installed capacity
- 150,082 MW of estimated electricity generation per year
- Average annual salary for staff is 35% higher than the average salary of local, urban residents

Clean power

The project involves installing a 108MW wind power project to generate clean electricity using wind energy. The Wing Turbine Generators are installed in and around the village of Fatanpur. The project will displace an equivalent amount of electricity that would have otherwise been generated by fossil fuels. Therefore, wind power will limit the anthropogenic gas emissions caused by fossil fuel-based thermal power stations comprising coal, diesel, furnace oil and gas.

- The wind farm has 54 Gamesa G97 Wind Turbine Generators
- Each wind turbine has 2 MW capacity
- The total installed capacity of the project is 108 MW of renewable energy

Jingyuan Solar Power Project, China and Fatanpur Wind Power Project, India

128,000 tonnes of CO2 credits generated on average each year

210,000 carbon credits generated annually on average
Biodiversity and ecosystem

Biodiversity at Kuehne+Nagel

Enhancing and preserving biodiversity are important values in Kuehne+Nagel's effort to protect its physical environment. We have been working to preserve biodiversity both on our property and through our support and cooperation with local communities.

Importance of forests as storage for CO2

One hectare of forest filters up to 50 tonnes of soot and dust from the air, generates around 100,000 cubic metres of new groundwater, releases 15-30 tonnes of oxygen per year, and binds 10.6 tonnes of CO2.

It is not enough to stop this reservoir from being plundered in order to limit the rise in our atmosphere's temperature. This living CO2 reservoir must be protected and afforested as nature has the potential to provide more than one third of the climate solution by 2030.

Nature based solutions comprise all activities related to the protection, or redevelopment, of natural ecosystems such as forests, grasslands, and wetland systems to lower concentration of CO2 in the atmosphere.

Each of these activities results in the biological capture and storage of CO2 - typically through the process of photosynthesis.

We commit to supporting this effort through our offsetting programmes.

Source: The Nature Conservancy, American Association for the Advancement of Science
Support of the SDGs

Our projects work towards the UN Sustainable Development Goals (SDGs)

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.

At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership.

They recognise that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth – all while tackling climate change and working to preserve our oceans and forests.

In order to make the 2030 Agenda a reality, broad ownership of the SDGs must translate into a strong commitment by all stakeholders to implement the global goals.

Source: United Nations Department of Public Information

Sustainability Strategy

Kuehne+Nagel’s sustainability strategy is based on the Group’s social and environmental responsibility. We are committed to implementing global standards and to keeping a high level of legal and ethical practices, giving back to local communities, ensuring the safety and health of our employees, and reducing the impact of our services on the environment. To stay sustainable, our business directly or indirectly influences all 17 SDGs. Our focus is on ten SDGs. With our initiative Net Zero Carbon our strongest commitment is to SDG 13.
About us

Thanks to our over 78,000 employees in more than 1,400 offices, in over 100 countries, Kuehne+Nagel is one of the world’s leading logistics companies. Its strong market position lies in sea logistics, air logistics, road logistics and contract logistics, with a clear focus on integrated logistics solutions. We are committed to providing customers of all sizes, in all locations, the transport services and logistics solutions that provide peace of mind through trusting partnerships built by our people.

Interested in learning more about our world-changing work?