

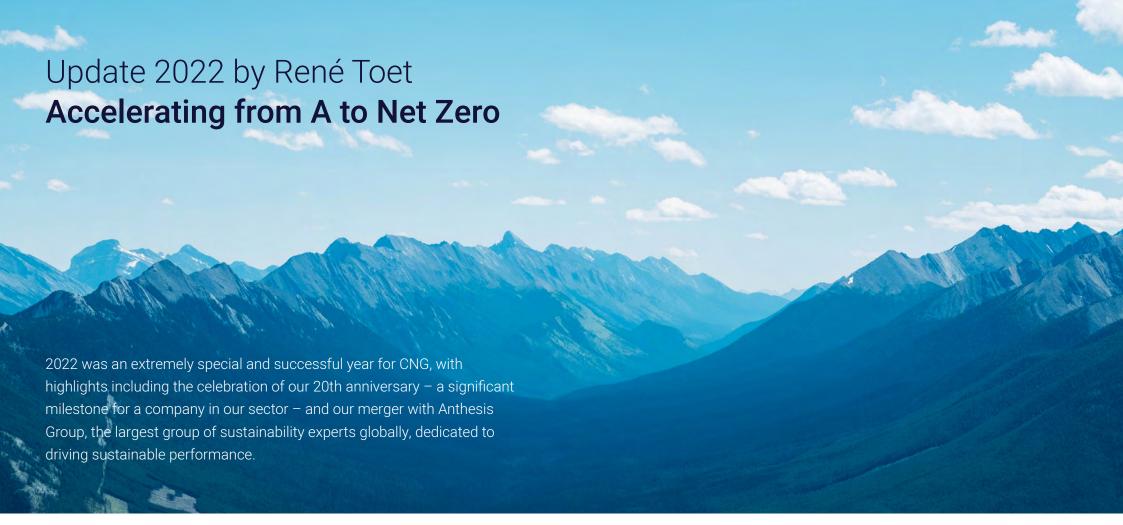
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Reflecting on our appreciation for our dedication to taking positive climate action leads seamlessly to the subject of our merger with Anthesis Group. The alignment between both companies' values, culture and shared passion meant that this felt extremely natural.

Our first year of working together has resulted in comprehensive, fruitful collaboration on an internal level as well as on new projects and developments. The breadth of knowledge held within Anthesis and their expertise in digital tooling, combined with our decades of industry experience, has created a unique body of experts. I am looking forward to continuing to grow with Anthesis and am excited by the potential of all we could achieve by working together.

Besides this highlight of 2022, a huge amount of progress was made across the organisation in many other areas. I'm delighted to invite you to read this Impact Report, and hope that you feel inspired by all that was achieved last year, and all that is to come in 2023.

We hope that you will join us on our journey to zero carbon.

René Toet, Managing Director Climate Neutral Group Part of Anthesis Group

The impact of **Carbon offsetting**

Reducing your own emissions is the most important element of climate-neutral business. That said, residual emissions often remain that cannot be reduced any further. In these cases, offsetting is the only way to achieve the zero-carbon target. You can do so by investing in sustainable, carefully selected projects in developing countries to reduce CO₂ on location.

The projects ENGIE has selected for offsetting the CO₂ emissions of their international business travel (flying) provide more than just CO2 reduction. They also contribute to an improvement in the overall quality of life and standard of living of the local population in developing countries. The world can only tackle the climate crisis when Western countries enable developing countries to reduce emissions also. The mechanism of offsetting is inextricably linked to this.

More than 41,391 times around the earth

In 2022, ENGIE offset 454,496 tons of CO₂. These are the CO₂ emissions caused by the gas consumption of its customers who have opted for compensated gas. This number is equivalent to the CO2 emissions of almost 60,600 households. And if you want to look at it another way: this is also equivalent to the CO2 emissions of 251,798 return flights from Amsterdam to New York or 41,391 times by car around the equator.

All our climate projects contribute to the Sustainable Development Goals of the

United Nations:















Cookstoves Nigeria



Cookstoves Nepa

Solar cookstoves China Cookstoves Bangladesh

Cookstoves Eritrea

Cookstoves Ethiopia

Cookstoves Kenya

Cookstoves Mozambique





Landfill gas in Turkey

In Turkey, urbanisation has led to uncontrolled landfill. One of the major problems is the lack of proper waste disposal. This climate project ensures that the greenhouse gases that are released in this process are converted into green electricity. Efficient use of all residual streams!

In the area of waste management, Turkey aims to bring landfills up to EU standards. The capacity for controlled dumping and recycling of waste is growing. This climate project ensures that the landfills are equipped to incinerate non-recyclable waste in special installations and to generate energy. The energy is converted into electricity that is fed into the grid. By converting the waste into energy, less fossil fuels such as oil, gas and coal are needed.

The landfills are located in Istanbul and about 100 km east in Kocaeli province. The household waste from the region is collected and burned at the landfill. The gas that is released in the process

is converted into electricity. This gives the local population access to green electricity. The project also destroys hydrogen sulphide, which can be formed during the decay of organic material. By removing this gas, the air quality around the landfill improves and the odour is reduced. CO₂ emissions are reduced in two ways:

- Methane gas does not enter the atmosphere but is used to generate electricity. Methane is a greenhouse gas that is 28 times stronger than CO₂.
- The amount of electricity generated replaces that of fossil fuel power plants.

EUROPE - ASIA

Turkey





77,514 tonnes of CO₂ reduction is achieved by ENGIE.



14,193 MWh of green electricity is generated via



72,662 people annually in the surroundings of the projects gain access to energy. Thanks to ENGIE, **5,124** people have access to clean and stable electricity.



60 people are on the payroll of the project. **12** people participated in fire safety and health training courses.



The project contributes to the improvement of the infrastructure in the area.



Clean cooking project in Nigeria

This cookstove project is designed to mitigate the effects of climate change on the population in Nigeria. By donating cookstoves to households and institutions, they can create alternative sources of income.

Biomass, mainly firewood and charcoal, is of great importance in low- and middle-income countries. A significant part of energy consumption for cooking comes from biomass. At the same time, inefficient cooking and heating are a root cause of poverty, poor health, gender inequality and environmental degradation. Women and children are disproportionately affected by this enormous global challenge. They suffer from the smoke, the lack of time and the consequences of their deteriorating environment.

Over 70% of the Nigerian population, mostly poor people, cook with solid fuel on inefficient traditional cookers and open fires. As a result, Nigeria records the highest number of deaths

from indoor air pollution: an average of 64,000 per year, mostly women and children in poor families. The cookstove project in Nigeria reduces greenhouse gas emissions through the use of efficient charcoal cookers. Fuel consumption is reduced by up to 50% thanks to a ceramic lining that burns more efficiently and retains heat. At the same time, these cookers bring many benefits to users and their families, through lower fuel costs, reduced exposure to airborne pollutants, faster cooking (resulting in time savings) and greater convenience. Finally, they reduce deforestation by decreasing the demand for charcoal.

AFRICA

Nigeria





35,122 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average

3.5 tonnes CO₂ per year.

Through the contribution of ENGIE, **31,596 cookstoves** have been used for 1 year.



110,585 tonnes of co_2 reduction is achieved through the contribution of ENGIE.



1,095 hours per year per household have been saved thanks to the transition to an efficient cookstove.



207,632 households have a cookstove.



Efficient cookstoves in Ethiopia

This climate project invests in the production, distribution and sale of efficient cookstoves to local households in Ethiopia.

More than one third of the world's population cooks on an open fire every day, usually indoors. The smoke that is released is extremely bad for your health. Every year, more than four million people worldwide die from lung diseases (such as COPD) caused by cooking on an open fire; that is more than AIDS, malaria and tuberculosis combined. In addition, this way of cooking has an enormous impact on the climate. But also on the social development of women and children in particular, who spend hours every day cooking and gathering wood.

This project ensures the reduction and compensation of CO_2 emissions and a better climate and living conditions for the local population. To counteract the serious

consequences for the climate and health, the climate project invests in the local production and sale of the efficient cookstoves. The clever design of the cookstove means that 50 per cent less wood is needed for cooking and less smoke is released. In addition to an enormous improvement in health, the cookstoves also contribute to combatting deforestation and ensure an enormous reduction in CO₂. This contributes to limiting climate change and sustainable development in Ethiopia.

AFRICA

Ethiopia





4,765 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average
3.5 tonnes CO₂ per year.



76,727 tonnes of CO₂ reduction is achieved through the contribution of ENGIE.



 $2,6~{
m hours}$ saved per year per efficient cookstove.



 $86\,\mathrm{people}$ found a job within the climate project.



 $50\,$ % reduction of indoor air pollution because of this project



Efficient cookstoves in Eritrea

This cookstove project was set up to improve the lives of residents in the Anseba region by providing them with an efficient and clean cookstove.

Nearly six million people live in Eritrea. The population is very dependent on biomass as fuel. This has major consequences, such as deforestation, loss of biodiversity, air pollution, $\rm CO_2$ emissions and health problems due to smoke and hours of searching for firewood. With this cookstove, they use almost 70% less fuel than is needed for cooking on an open fire. This reduces the demand for wood and $\rm CO_2$ emissions.

The cookstove was developed by the research centre of the Ministry of Energy and Mines and is currently being used successfully by thousands of households in Eritrea. The project introduces the cookstoves and trains women in the villages. First to make them promoters, then to let them make the cookstoves themselves. The materials

are provided locally. The project was set up in the Zoba Anseba District of Eritrea and is supported by the national and local governments. The national government of Eritrea also supports the project because it is seen as 'Trade' and not as 'Aid', thus contributing to the growth of economic prosperity in a sustainable way.

AFRICA

Eritrea





3,263 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average of 5 tonnes CO₂ per year.



24,998 tonnes of CO_2 reduction is achieved through the contribution of ENGIE



15,662 people benefit every day from more efficient cooking, cost savings and improved air quality. Indoor air pollution has been reduced by 68%.



5 people are on the payroll of the project.



 $300\,\mathrm{people}$ are involved in the supply chain of the cookstoves of which the majority is female.



Cookstoves Kenya

By opting for offsetting through efficient cookstoves in developing countries, the poorest people in the world get access to more efficient cooking. With this mix, you choose to support cookstove projects located in Kenya carrying the Gold Standard certification.

Over a third of the global population relies on open fires for cooking. This usually happens indoors. These fires produce a lot of smoke, which is dangerous to people's health. Globally, four million people die from respiratory diseases caused by cooking over an open fire. This is more than the collective death toll of tuberculosis, malaria and Aids. In addition, meal preparation on open fires has a huge impact on the climate and on the social development of women and children. It is them, after all, who tend to be responsible for the collection of firewood and meal preparation. Our projects mitigate the impact on the climate and improve people's health by investing in the local manufacturing, distribution, and sales of

cleaner, cost-efficient cookstoves. Due to their clever design, these stoves use 50% less wood and produce less smoke than ordinary stoves. Besides improving people's health, these devices help fight deforestation and reduce the amount of greenhouse gas emissions in the atmosphere, combatting climate change.

The projects in this mix are all located in Kenya, East Africa. The Kenyan population has been growing rapidly, counting 53 million in 2021. What makes Kenya special demographically is that the average age of a person is 20 years. The humanitarian impact of these projects is long-lived, as it positively changes the lives of young (especially) females.

AFRICA







226,573 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average

3.6 tonnes CO₂ per year.

Through the contribution of ENGIE, 6,006 cookstoves have been used for 1 year.



21,623 tonnes of CO₂ reduction is achieved through ENGIE's



 $207,\!632$ households have a cookstove. Through the contribution of ENGIE, 5,504 households have a cookstove.



1,095 hours per year per household have been saved thanks to the transition to an efficient cookstove.



Improved cookstoves in Mozambique

This offset project invests in the manufacturing, distribution, and sales of efficient cookstoves in Mozambique. The aim is to improve the access to cleaner, healthier, more cost-effective cooking methods amongst local households in Mozambique.

Over a third of the global population relies on open fires for cooking indoors. The smoke they produce causes close to four million people dying from respiratory diseases. This is more than the collective death toll of tuberculosis, malaria and Aids. In addition, meal preparation on open fires has a huge impact on the climate and on social development of women and children. After all, they are the ones who tend to be responsible for the collection of firewood and meal preparation.

Located in the least developed country of Mozambique, this project eases the impact on the climate whilst improving people's health by investing in the local manufacturing, distribution, and sales of cleaner, cost-efficient cookstoves.

Due to their clever design, these stoves use 50% less wood and produce less smoke than ordinary ones. Besides improving people's health, these devices help combatting climate change in reducing deforestation and the amount of greenhouse gas emissions in the atmosphere. In addition, at least 50% of the budget of households in Mozambique is spend on sources of fuel such as wood and charcoal. Savings that arise from the implementation of these cookstoves can be used in other family needs. This does not only cover money but also time. A production facility to produce and distribute the stoves is created with over 150 jobs. 70% of the staff are women.

AFRICA







7,621 cookstoves in total have been distributed by the project until now.





15,010 tonnes of co_2 reduction is achieved through the contribution of ENGIE.



22,094 people have access to clean energy and notice improved air quality of which **13,914** people have access thanks to ENGIE.



59 people found a job within the project. 30 trainings were provided.



Improved cookstoves in Bangladesh

Bangladesh is known as one of the most vulnerable countries in the world when it comes to the risks of tropical storms and floods. Climate change causes hotter summers and makes annual monsoons less predictable. It also results in an increase in coastline erosion and higher numbers of infectious disease victims. Bangladesh has been feeling the negative effects of climate change for some time.

In Bangladesh, 9 out of 10 people still cook very inefficiently with biomass. With the improved cookstoves from this project, the local population can help themselves and contribute to the reduction of CO_2 emissions. The cookstoves from this project use almost 70% less fuel compared to the traditional method of cooking on an open fire. As a result, the demand for wood decreases and less CO_2 is emitted.

All cookstoves in this project are manufactured by local entrepreneurs. Each cluster of 6 villages has a team of 5 to 7 members who build new cookstoves and maintain existing ones. All those involved come from the local villages. In total, 1,500 distribution partners and local entrepreneurs are involved and about 5,000 people are able to generate an income through this project. The users of the cookstoves save an average of 0.3 GWh of energy per year as well as the necessary costs. Women and girls have significantly more time for education and other activities. About 500,000 people benefit from cleaner air as a result of using cookstoves.

ASIA

Bangladesh





111,111 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average 3.6 tonnes CO₂ per year. Through the contribution of ENGIE, 166 cookstoves have been used for 1 year.



596 tonnes of co_2 reduction is achieved through the contribution of ENGIE



People who take advantage of these efficient cookstoves live on \$1.25 a day and can use the time saved for paid work.



5,000 people have a job within the climate project.



 $1,\!500$ distribution partners, the majority of whom are women.



Clean cooking in Nepal

The clean cooking project Nepal is designed to support climate change mitigation and adaptation in rural Nepal. The aim is to create alternative livelihoods by implementing and distributing cookstoves to households and institutions.

Landlocked Nepal, classified as Least
Developed Country, is characterised by a large
rural community living of \$14 per person per
month. With agriculture as the main livelihood,
a lack of affordable energy sources has led to
unsustainable use of firewood, a major cause of
forest degradation in Nepal.

Over 88% of Nepalese rural households use firewood for cooking. As a consequence, many Nepalese woman and children suffer from serious indoor air pollution. The use of wood for cooking fuel also causes a high pressure on Nepal's remaining forests. In addition, Nepal is especially vulnerable to the health impacts of climate change

as the country has a low adaptive capacity, due to weak infrastructure and a fragile ecosystem.

This clean cooking project involves the promotion of improved cookstoves to the people of Nepal, thereby replacing less efficient cookstoves and reducing emissions significantly. The improved cookstoves reduce exposure to bad health effects and will reduce firewood consumption by half.

ASIA

Nepal





16,380 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average

1.5 tonnes CO₂ per year.

Through the contribution of ENGIE, 8.659 cookstoves have been used for 1 year.



12,988 tonnes of CO₂ reduction is achieved through the contribution of ENGIE



15,721 people have access to clean energy and notice improved air quality of which 8,467 people have access thanks to ENGIE.



411 people people found a job withing the project of which 221 are employed thanks to ENGIE.



Solar cookstoves in China

The Solar Project improves the living conditions of rural households in one of the poorest regions in China. Charcoal cookstoves are being replaced by clean solar-powered stoves. CO₂ emissions are reduced and the quality of `life improves.

This solar cookstoves project is located in the southwest of Henan Province, near the Nanyang Danjiang River. This region, in terms of location and weather, is an ideal area for solar energy because of the abundant sun hours by which the region is characterised. By equipping rural households with solar cookstoves, they can efficiently replace the fossil fuel used for cooking with solar energy. In this way, the CO₂ emissions from charcoal are avoided and the project prevents deforestation in this area.

By switching from open fire cooking to solar energy, health problems related to soot ('black carbon') and the harmful flue gases have been reduced.

Unique to this project is that the solar cookers are distributed for free. In total 50,000 cookers have been distributed, which impacts the lives of many. For example financially, as traditional cooking required costly charcoal, excess money can now be put to improve local livelihood.

ASIA

China





50,000 cookstoves in total have been distributed by the project until now.



This type of cookstove saves an average 1.70 tonnes of CO₂ per year.



 $114,\!455$ tonnes of CO_2 reduction is achieved through the contribution of ENGIE.



45,000 households across the region have been reached with efficient cooking.



20 people have a job within the climate project and more than half are women.

Quality criteria

Quality is of the utmost importance to Climate Neutral Group. Both the quality of the services we deliver and of the products and services we procure from third parties have to meet certain criteria. To ensure this is the case, we have drawn up a range of procedures.

When you opt for offsetting, you offset your remaining emissions via CO₂ credits to prevent, capture or remove CO₂ emissions elsewhere in the world. The credits comply with the highest international standards. With a range of projects available in our portfolio, Climate Neutral Group (CNG) offers you plenty of choice in terms of project type, standard type and price category.

Strict quality criteria

At CNG, we ensure that the credits you purchase, genuinely contribute to a reduction in carbon. Every credit represents a reduction of one ton of CO_2 in the atmosphere. This claim is verified by independent, internationally recognised agencies, which check whether our projects meet precisely defined standards.







Verified Carbon Standard (VCS)

VCS is the most widely used standard in CO_2 reduction projects involving voluntary offsetting. This standard is supported by the World Economic Forum and the World Business Council for Sustainable Development. VCS projects can also have supplementary standards such as CBB, SD Vista and Social Carbon Standard, which certify the extra benefits for local communities, biodiversity, and ecosystems.

Gold Standard (GS)



Gold Standard is the original standard for carbon projects, in which the Sustainable Development Goals play an explicit role. GS has been developed by a group of NGOs under the auspices of the World Wide Fund for Nature (WWF), with the aim of supporting climate projects that also offer a quantifiable contribution to sustainable development via various SDGs.

Puro.earth

Puro.earth is the first standard for engineered carbon removal methods. It consists of high-quality methodologies, aligned with the IPCC definition for carbon removal, for products or processes that remove carbon permanent from the atmosphere. Because removals are of recognised importance for achieving global climate goals, CNG encourages its relations to opt for this, such as biochar projects.

Plan Vivo

Plan Vivo is internationally recognised as the leading Standard for community

land-use projects. Certification under Plan Vivo demonstrates a that a project is sustainable over the long-term, truly benefits people's livelihoods and provides vital climate and environmental benefits.

ICROA accredited

CNG is a member of ICROA, the International Carbon Reduction and Offset Alliance, which is committed to a transparent and high-quality carbon offsetting market. We comply with ICROA's 'Code of Best Practice' which means, in summary:



- We perform carbon footprint calculations in accordance with the GHG Protocol and our clients have to set and realise ambitious reduction goals.
- We use carbon credits in line with the standards recognised by ICROA.
- An annual audit is carried out to check whether we comply with the 'Code of Best Practice'.

Careful selection of our projects

Over the past few years, it has become easier to fund large-scale hydropower and biomass projects with or even without extra finance, such as government grants. As such, the additionality of these types of projects, developed under older methodologies, cannot always be ensured. Therefore, CNG has decided to offer only small-scale hydropower and biomass projects that do not come at a cost to woodland, agriculture, or protected nature reserves.

Due to our 20 years of experience in the Voluntary Carbon Market, we are a trustworthy partner for offsetting. Based on our expertise, we have a due diligence process in place that allows us to offer a high-quality portfolio of carbon projects.

Climate Neutral Group Do you also want to get further along the road from A to Zero CO₂?

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