

MOVE TO GREEN

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Solar panels installed on our roof in Kampala



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Dear Reader,

Our sustainable vision in Africa

Africa, with its vast potential and opportunities, remains central to our global vision. As we grow, our path is tied to sustainable development in this dynamic continent.

In our group of companies, we have always held the conviction that a cleaner, greener future is not just a possibility but a responsibility. Our "Move to Green" initiative exemplifies this commitment serving as our roadmap for sustainable activities. I hope you will enjoy the many articles, which describe our latest activities.

E-mobility is a present reality, not a distant dream. We have successfully introduced electric vehicles in Africa that strike a balance between ecological responsibility and economic feasibility.

Knowledge is the bedrock of change. Through our subsidiary, KJAER & KJAER, we have bridged gaps with interactive webinar sessions. I encourage you to reach out to the team to discuss a tailor-made session for your organization.

Our ambitions are not confined to wheels on the road. With the installation of solar-powered systems at our subsidiary, MOTORCARE in Uganda, we are taking tangible steps to reduce energy consumption and carbon emissions.

The Green Hüb Kampala initiative targets a renewable-energy transport system for Uganda, emphasizing zero greenhouse gas emissions. KJAER GROUP is part of a consortium, which aims to transform Uganda's transport system to rely solely on renewable energy. Phase one will be converting Kampala's boda bodas (motorcycle taxis) to electric versions powered by solar energy.

In conclusion, our operations in Africa embody what our group stands for: innovation rooted in responsibility. Let's keep driving the change. The green future we envision is not just on the horizon – it's here now.

Warm greetings

Mads Kjær, CEO

**MOVE
TO GREEN**



UNDP MOZAMBIQUE'S ELECTRIC LEAP TOWARDS A GREENER TOMORROW

In a stride towards environmental sustainability, UNDP Mozambique has introduced its first electric vehicle, a part of the ambitious Greening UNDP Moonshot Initiative. This effort aims to halve the organization's carbon footprint by 2030, aligning with the 2030 Agenda and the Sustainable Development Goals (SDGs).

The acquisition, a Nissan Leaf, symbolizes a significant shift from traditional Internal Combustion Engines (ICE), reducing the office's fuel consumption and carbon emissions. This was made possible through a collaborative effort with the UNDP Green Energy Team, utilizing the UN-recognized Green Energy 7-step methodology for efficient green energy implementation.

The electric vehicle and corresponding charging station are fully operational. The Mozambique office expects to reduce CO2 emissions by 4.08 tonnes annually.



UNDP Mozambique's Head of ICT, remarked on the impact of this initiative: *With this milestone, UNDP is sparking a green revolution. The wave of change has started, and we note other agencies are eager to adopt electric vehicles.*



UNDP article

You can read the full article [here](#) or scan the QR code



235 km

Electric vehicle range



39 kWh

Battery size



1646 Litres

Fuel saved annually



\$1940 USD

Fuel cost saved annually



4.08 t CO2e

CO2 emissions avoided annually

MINISTER CELEBRATES UNVEILING OF FIRST ELECTRIC VEHICLE IN ZAMBIA



KJAER & KJAER served as the supplier of the Nissan Leaf to Catholic Relief Services in Zambia.

The formal inauguration of this electric vehicle was graced by prominent representation of Ministers, senior government officials, catholic church hierarchy, representatives of other NGOs, and the media.

The photographs of the event portray an atmosphere that was both ceremonial and celebratory.

Catholic Relief Services commenced their journey towards sustainability by introducing their organization's first electric vehicle.

A notable mention must be made of Nissan Zambia, who undertook the final pre-delivery inspection before the vehicle was handed over to CRS. Their assistance and support have been commendable, and they too were honored guests at this unveiling event.

“This unveiling of the electric car signifies another milestone towards the actualization of our goal to shift to a cleaner and more energy-efficient Zambia. This event also forms an integral part of our wider aspiration of transitioning Zambia into a climate-resilient and inclusive green economy.”

Minister of Green Economy and Environment, Zambia





SILENT ELECTRIC MOTORCYCLES – THE ANTI-POACHING GAME-CHANGER

In 2021, CAKE reached out with an offer to collaborate on enhancing wildlife conservation efforts in Africa with an electric off-road motorcycle. Given the rising enthusiasm for "Move to Green" and the emphasis on electric mobility in Africa, this proposal appeared fitting.

The initiative involved acquiring two CAKE electric off-road motorcycles. One would be sent to South African forests for an Anti-Poaching project, complete with power station and solar cells.

The CAKE off-road motorcycle, model Kake, has proven invaluable for park rangers. The silent nature of its electric drivetrain allows for discreet patrols, particularly during nighttime operations. The advantages of using solar-powered, electric motorcycles are under continual review to gauge both their economic and environmental benefits in reducing reliance on fossil fuels.

The Southern African Wildlife College is actively researching the performance and utility of these bikes. Their findings will inform potential upgrades tailored for conservation zones.

KJAER GROUP tracks the progress of this initiative and is hopeful about championing more eco-friendly transportation ventures in Africa.



About Cake

CAKE is a Swedish producer of high-end lightweight, electric motorcycles, and mopeds. They are driven by a vision to motivate a shift towards a zero-emission society, by combining excitement and responsibility.

Along with numerous awards and recognitions for its design and innovative approach to mobility and other societal challenges, CAKE was identified as one of the world's most innovative companies by Fast Company in both 2020 and 2021 and received the Time Magazine 100 most important inventions award in 2021.

Learn more about CAKE at: www.ridecake.com

FLEET FORUM IS MORE THAN JUST A NAME – IT'S A COMMUNITY



"In a world connected by a complex web of mobility the significance of moving sustainably has never been greater. Our planet is in a constant state of change and so too must our means of transportation. The challenges are immense, but the opportunities are boundless." This is how Fleet Forum introduced the annual Virtual Conference in 2023. Fleet Forum's story began in 2003 when they saw the potential in developing nations to change the course of transport through listening, learning, and innovating. "We strive to make roads safer, driving less costly and cleaner".

The start of Fleet Forum was sparked by a vision for safer, cleaner, and more affordable transport in developing nations. They have fostered partnerships with aid and development organizations, suppliers, commercial companies, donors, and academia listening attentively and challenging the status quo. Fleet Forum is more than just a name. It's a community - they told us. They are a collective force striving for cleaner, safer, and cost-effective transport. They work with people at all levels, local, regional, global and partners to make a difference as they move forward, they commit to a future characterized by sustainable transport.

Fleet Forum's
Executive Director

Paul Jansen ended the introduction with the following: "We see a world, where our modes of transportation harmonize with nature, fueled by renewable energy and a deep respect for the environment. We are building this future together with our community."





Fleet Forum
Read more about Fleet Forum [here](#)
or scan the QR code



GREEN FLEETS & ELECTRIC VEHICLE INSIGHTS



Last year's Fleet Forum virtual annual conference attracted several hundreds of fleet professionals from 50 organizations across 115 countries. Spanning over two days, the theme was "Shape the Future: Engage, Share & Learn", emphasizing innovations and concepts in the fleet management community.

Each session saw active participation, with many attendees engaging through questions and comments in the dedicated chat. Post-conference feedback from Fleet Forum praised both sessions for their informative and educational content.



ONLINE INSPIRATION AND LEARNING

On Day 1

Our team from KJAER & KJAER, a subsidiary of KJAER GROUP, led participants on a journey titled "A mind map to a greener fleet" addressing both macro and micro factors that shape this transition. While macro factors like in-market infrastructure and manufacturers' research & development are beyond immediate influence, the emphasis was placed on actionable micro factors, highlighting areas of genuine impact



To give a real-world perspective, Brian Tabben, Acting Regional Director for Southern Africa, generously shared insights from the green transformation journey of Catholic Relief Services. He championed the value of establishing a "green alliance", recognizing enthusiasts within organizations, keeping the approach straightforward, and the power of visual storytelling.

We invite you to watch the [video](#):



On Day 2

The topic was "A practical look at how electric vehicles work". A 30 minute video featured an on-road drive in a Nissan Leaf, addressing commonly asked questions. Topics covered included:



- **The difference between hybrid and fully electric vehicles**
- **A detailed look at the charging process, complete with hands-on demonstration**
- **Demonstrating the ease of driving an electric vehicle without specialized training**
- **The impact, if any, of weather conditions such as rain, humidity, and dust.**
- **Battery choices and the associated driving range**
- **The function and effect of the e-pedal**
- **use of and impact of the e-pedal**

We invite you to watch the [video](#)



ENGAGING GLOBAL AUDIENCES WITH LIVE VIDEO SESSIONS

Following several successful webinars hosted by Fleet Forum, we have completed a series of live video presentations and interactive Q&A sessions that attracted participants from all around the world. Central to these sessions is the objective to facilitate an ongoing dialogue about electric vehicles (EVs). This provides an opportunity for representatives - from both head office and field level - to gain firsthand knowledge about the products and to discussing financial, safety and environmental benefits of joining the green transformation and "Move to Green".

The video sessions are conducted live and offer the participants a view into a 'low-key' environment (previous workshop) as illustrated here.

So far, live video sessions have been conducted for a number of international non-governmental organizations as well as United Nations agencies. They generated much interest and several follow-up sessions have been conducted.

Feedback from the Deputy Regional Director for Operations from Catholic Relief Services:

"I think it went really, really well. And certainly, generated a lot of interest and new excitement from our team to do more soon. During our half hour debrief, there were many kudos shared for the 'creative' way of presenting the content (i.e. live, in the garage, showing the actual vehicle and very well prepared to answer challenging questions as well. "So much better and impactful than the ordinary PowerPoint!").

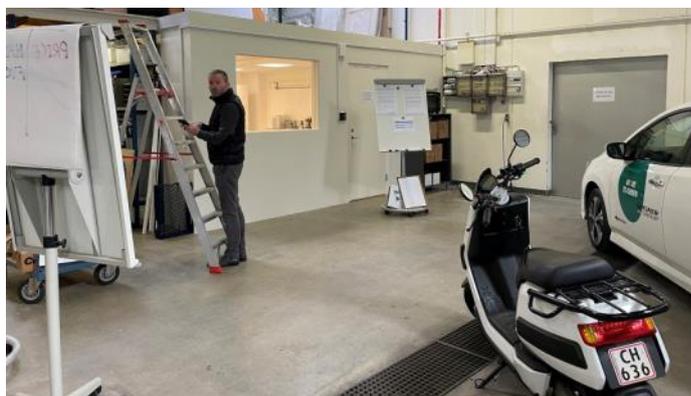
"This has certainly helped the country program, as well as us in the regional office to continue our journey to move to green (mobility). I see this as another great and important step in our partnership."

Deputy Regional Director for Operations from Catholic Relief Services

What the participants see:



Behind the scenes:



INTERACTIVE EV SESSIONS: NAVIGATING THE LANDSCAPE

We had the privilege of hosting two webinars tailored for UNDP offices. One focused on the African offices, engaging participants from Rwanda, Eswatini, Mozambique, Ethiopia, and Tanzania. The other brought together participants from Asian offices, including Bangladesh, Nepal, Thailand, and the Philippines. Each session saw an attendance of 25-30 participants, comprising a diverse mix of fleet managers, procurement managers and sustainability officers. The comprehensive agenda, developed in collaboration with UNDP head office, covered a wide range of topics:

- Considerations before deciding to buy an electric vehicle
- Introduction to the Nissan Leaf vehicle
- Highlighting safety features
- Steps for Pre-Delivery-Inspection at final destination
- Insights into EV maintenance, servicing and after sales requirements
- Financial impact: EV acquisition and running costs
- Assessing the environmental impact over the vehicle's lifecycle
- Tips and best practices for driving an EV

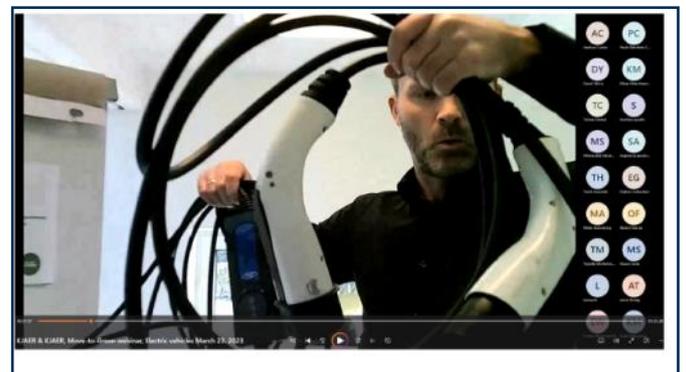
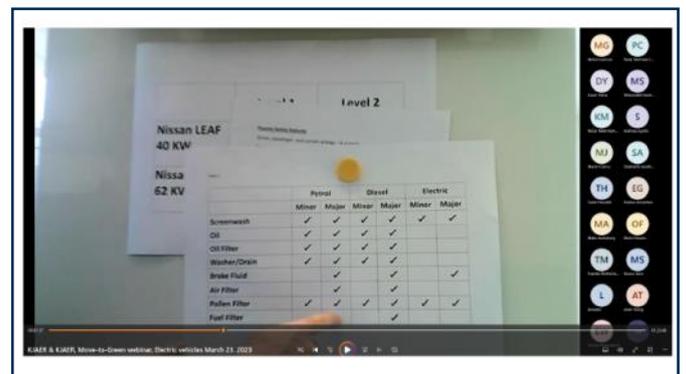
Each session was designed to be 1.5hours long, aligning with the fact that all participating countries are on the path to welcoming their first Nissan Leaf cars.

TAILOR-MADE SESSIONS JUST FOR YOU

We believe every organization has unique needs and questions, especially when transitioning to green solutions. Reach out to us to discuss designing a video session tailor-made for your organization, addressing your specific concerns and interests.



Contact us
You can see contacts [here](#)
or scan the QR code





RECYCLING OF VEHICLE BATTERIES WE CLOSE THE CIRCLE

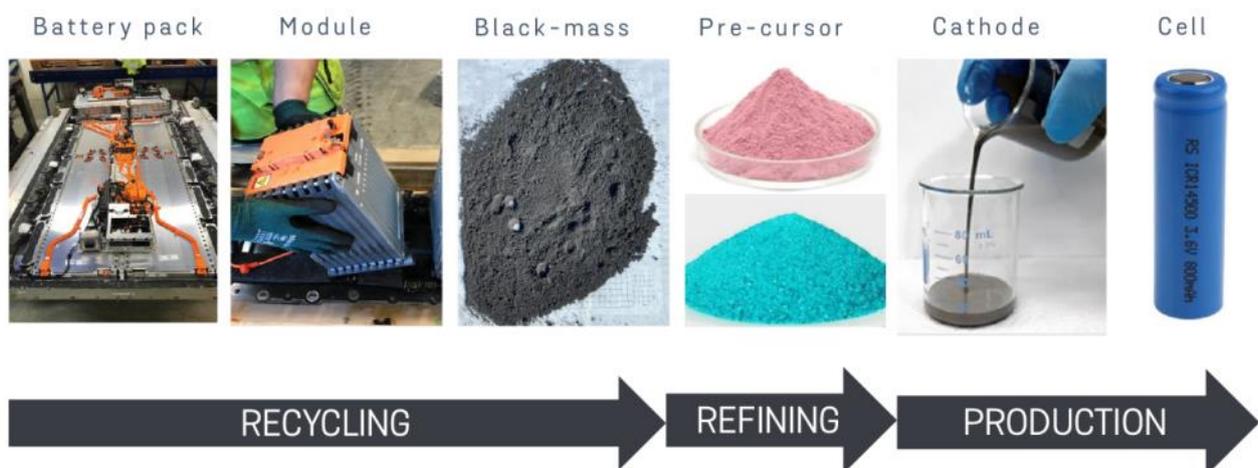
A CIRCULAR LIFE FOR ELECTRIC VEHICLE BATTERIES

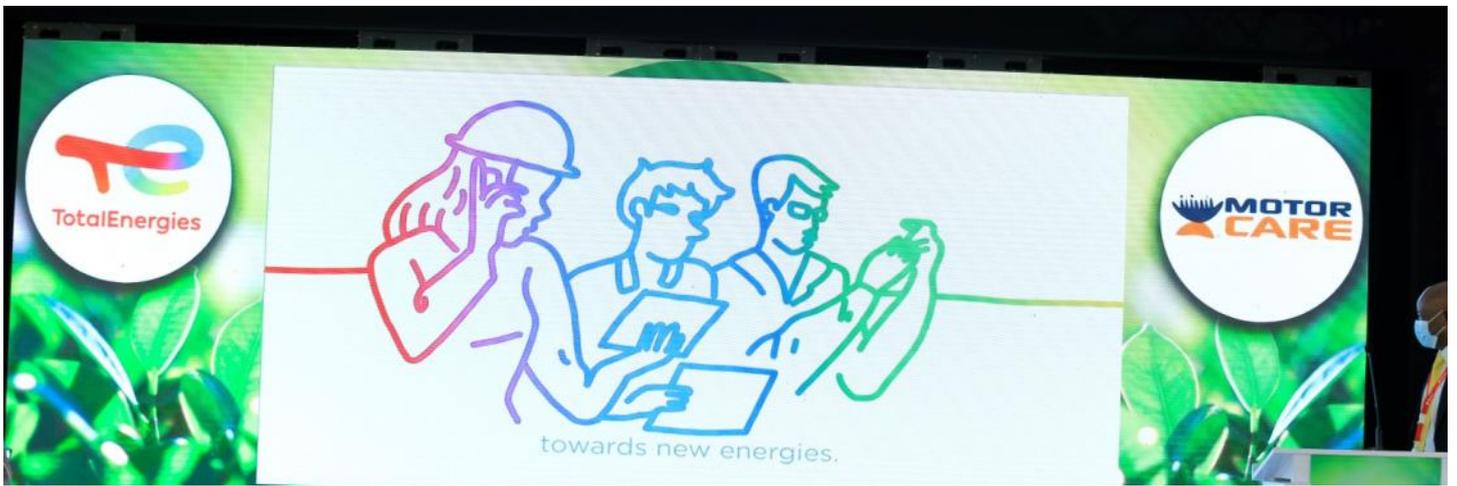
As electric vehicles become more commonplace, the focus on battery reuse and recycling intensifies. In the coming years, a significant portion of new lithium-ion batteries will incorporate recycled battery materials and components. With an increase in electric vehicle population, there will inevitably be a rise in recycled battery material.

Batteries now power our everyday lives - from smart devices and home appliances to power tools and electric vehicles. They have now entered a circular lifecycle where they are efficiently recycled and constructed from reclaimed materials.

Stena Recycling Group, a leading recycling company, collaborates with battery manufacturers, automotive OEMs, and other industries. They ensure batteries and production waste, such as battery cells, cobalt, copper foil, aluminium, and plastic, are safely recycled or reused - in a way that supports social and environmental accountability.

Electric vehicles' high-voltage batteries do not just provide a powerful source of energy but also a sustainable alternative to the conventional combustion engine. Transition to an electric fleet for a cleaner, more sustainable future.





TOTALENERGIES PAVES THE WAY INTO ELECTRIC MOBILITY, WITH CHARGING POINTS ON ALL MAJOR ROADS

The green movement in Uganda is gaining momentum, drawing significant partners with expansive mandates and possibilities.

TotalEnergies Uganda, committed to environment conservation and renewable energy promotion, has incorporated electric mobility into its sustainability agenda. This program is underway, complemented by the use of solar energy at their petrol stations and offices. Moreover, the initiative encourages replacing kerosene with LPG and solar lamps in rural areas.

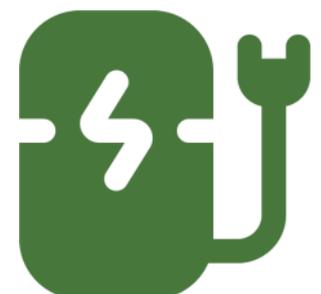


“Our intention is to utilize the driving range of the LEAF to strategically establish commercial charging points between 230km - 250km on all major roads during an initial phase that will guide a broader rollout”

TotalEnergies managing Director

With TotalEnergies' s strategy, concerns regarding re-charging are effectively addressed, especially for those customers not opting for the home charging kit right away.

While MOTORCARE, a subsidiary of KJAER GROUP, pioneered green mobility, it has acknowledged that a major hurdle was the lack of infrastructure to support electric vehicles and motorcycles in a country with less than 60% electricity density. The search continued for appropriate partners to tackle the issue.



PILOT PROJECT - SOLAR SYSTEM FOR OUR ENTITY IN UGANDA



MADS KJAER & RIKKI VERMATAKING SELFIES ON THE SOLAR PANEL ROOFTOP WITH A BEUTIFULL VIEW OF KAMPALA

Based on our "Move to Green" Environment strategy formulated in 2021 - we set up strategic environmental targets for 2022. Our target is to reduce energy/carbon emissions, water consumption and promote other environmentally friendly improvements in our operations.

To reduce the carbon footprint in our entities, we found that installing solar powered systems at our premises would benefit this target. Solar powered systems will supply our operations with renewable and fossil free power and at the same time prepare for a future opportunity to provide our electric vehicle customers with charging based on renewable power.

In our entity in Uganda, we investigated solar system/suppliers and made diagnostic analysis. It has led to initiate a pilot project by involving solar systems installed at our two branches in Uganda.

Our chosen supplier is Nexus Green, which is a Uganda based company of lighting, storage, irrigation, and full turnkey solutions. Their solar system will lead to an annual average reduction in carbon emission of 7.15 tCO₂e/GWh. Another positive side effect is that we engage with a local supplier with around 70 employees for the benefit of our local engagement and support to the Ugandan society.

Mads Kjaer went to explore Nexus' solar system installed on a rooftop in Kampala with the Managing Director of Nexus Green, Mr. Rikki Verma. It was an impressive construction, which confirmed our decision to cooperate with Nexus Green. We share the same vision of moving to green in Uganda and expect more great "green" projects together in the future.



SUSTAINABLE INITIATIVES UNFOLD IN KAMPALA

In Kampala, the "Move to Green" vision formulated 3 years previously, is becoming a reality. This initiative by MOTORCARE, a subsidiary of KJAER GROUP, emphasizes reducing the company's carbon footprint and minimizing the consumption of scarce resources. The vision has come to life with projects such as water recycling, setting computers to power down after business hours, and the introduction of a solar system to reduce electricity consumption.

MOTORCARE partnered with E-Washa Recycling, a renowned Water Recycling company, to design, manufacture and install a completely autonomous biological recycling system. This system aims to reduce the amount of wastewater to the environment.

After 5 days of intense work, the system was installed, the team in Kampala was trained, and the system was handed over. Due to this initiative, a 25% reduction in monthly water usage has already been realized. The goal is to push this to at least 30% by adopting more water-efficient car wash techniques.

Currently, a solar system provided by the local company, Nexus Green, is being installed. Training sessions on how to operate the system are anticipated.



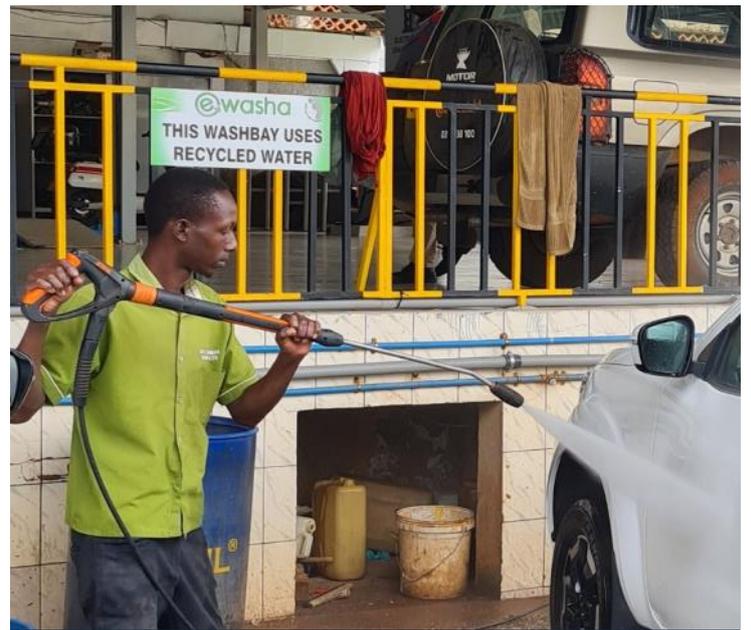
Solar panels installed on our roof in Kampala



Solar panels about to be installed in Hoima



Water recycling system in Kampala



The water reduction is already 25% in the washbay



OUR JOURNEY TOWARDS “MOVE TO GREEN” REDUCING CO2 FOOTPRINT

KJAER GROUP is committed to and actively working towards sustainable mobility and reducing our environmental impact, aligned with our vision "Move to Green."

This goes hand in hand with our triple bottom line principle, whereby social and environmental targets and results are pursued in the same way as financial targets, promoting responsible business practices.

While we acknowledge that we are not flawless or have fully achieved our goals, the collective commitment within our group propels us in the right direction.

By upholding honesty, transparency, and integrity, we are aiming to build trust with our customers and partners and show that we

care for the markets in which we operate.

Central to our activities are the UN Global Compact principles, which have been integrated into our governance framework since 2003. Our annual progress reports, accessible on their website, highlight our dedication.

Our most recent Sustainability report for 2022, shared with the UNGC in May, showcases key advancements within Environmental, Social and Governance (ESG) activities.

Notably, we are progressing in areas such as environmental improvements, evidenced by our carbon footprint reduction efforts since 2020.



Sustainability report 2022

You can read the full report [here](#) or scan the QR code

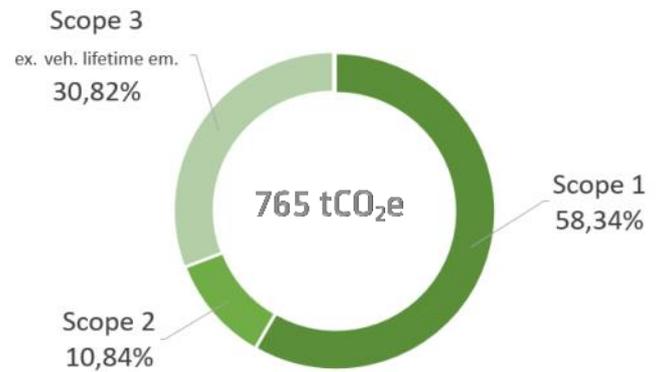
FROM KJAER GROUP SUSTAINABILITY REPORT 2022



GROUP TOTAL CARBON FOOTPRINT
KGR Emissions Summary



GROUP TOTAL CARBON FOOTPRINT - LESS LIFE TIME OF ICE VEHICLES
KGR Emissions Summary - EX. vehicle lifetime emission



GHG protocol standard

Scope 1 - Direct emissions

Stationary (generators etc.) and mobile (company cars) combustion

Scope 2 - Indirect emissions - owned

Purchased electricity

Scope 3 - Indirect emissions - not owned

Water consumption, marketing fuel, waste, flights.

Our main environmental impact stems from emissions produced by the Internal Combustion Engine (ICE) vehicles we sell. This highlights the need to transition our product portfolio toward electric vehicles and influence customer behaviour in favour of electric options.

In 2020, we introduced our first electric/zero emission product as part of our "Move to Green" campaign and now in 2023 it's evident that there is a growing demand for these products among our customers.

Further, the report underscores our commitment to fostering fairness, equal opportunities, and ensuring a healthy and safe workplace. The HSEQ management system has significantly driven this process improvement.

"Our sustainability journey also encompasses the fight against corruption, fostering an environment of transparency and accountability. Our anti-corruption policy, aligned with the UN's annual initiative, has been a cornerstone of our business since 2013.

GREEN HÜB KAMPALA – PIONEERING THE SHIFT TO E-MOBILITY FOR A CLEANER FUTURE

The consortium Green Hub Kampala (GHK) aims to transform Uganda's transport to use solely renewable energy. The ultimate objective is zero greenhouse gas emissions, starting with transitioning boda bodas (motorcycle taxis) in Kampala to electric versions powered by solar energy. This shift promises to significantly reduce air and noise pollution.

The broader vision is to expand to matatus (minibuses used as share taxis) and public transport, creating a holistic e-mobility ecosystem. By 2026, GHK plans for e-bodas to be the most affordable and prevalent choice, phasing out non-renewable energy boda bodas.

This endeavor will involve a consortium of key private stakeholders – spearheaded by KJAER GROUP, Nexus Green, and Access2Innovation along with a consortium of implementing partners, forming a public-private partnership with the Ugandan government. Innovative funding will support the transition, investing in areas like e-boda scrappage schemes and charging infrastructure.

Currently, Kampala's 100,000 units of ICE boda bodas emit nearly 250,000 tonnes of CO2 annually. Switching to e-bodas will greatly benefit health and emission goals.

IDEA



To create an eco-system for sale and clean mobility using green consumption of energy in Kampala for its citizens. Through the development of mini grids for electric production by solar to be shared and used by consumers.



For green Hub Kampala to become a transformative project which will help drive systemic and sustainable change that will have a significant impact on the pattern of urban development within Kampala and throughout the country.

MISSION



The mission of Green Hub Kampala is to be carbon neutral by transforming mobility and consumption to zero fossil use by involving relevant stakeholders from government, academia, industry and private sector, and citizens and civil society.



VISION

To pave the way for future initiatives and to be an example to scale up for other cities and countries worldwide in how to build green cities with sustainable mobility.

Danida green business partnership programme

The GHK consortium is thrilled to announce that they have been granted preliminary approval of support under the Danida Green Business Partnership Programme (DGBP) 2023. This fund aims to foster partnerships in developing countries that generate innovative market-based solutions to environmental and climate challenges while simultaneously promoting economic growth, job creation and improved livelihoods.

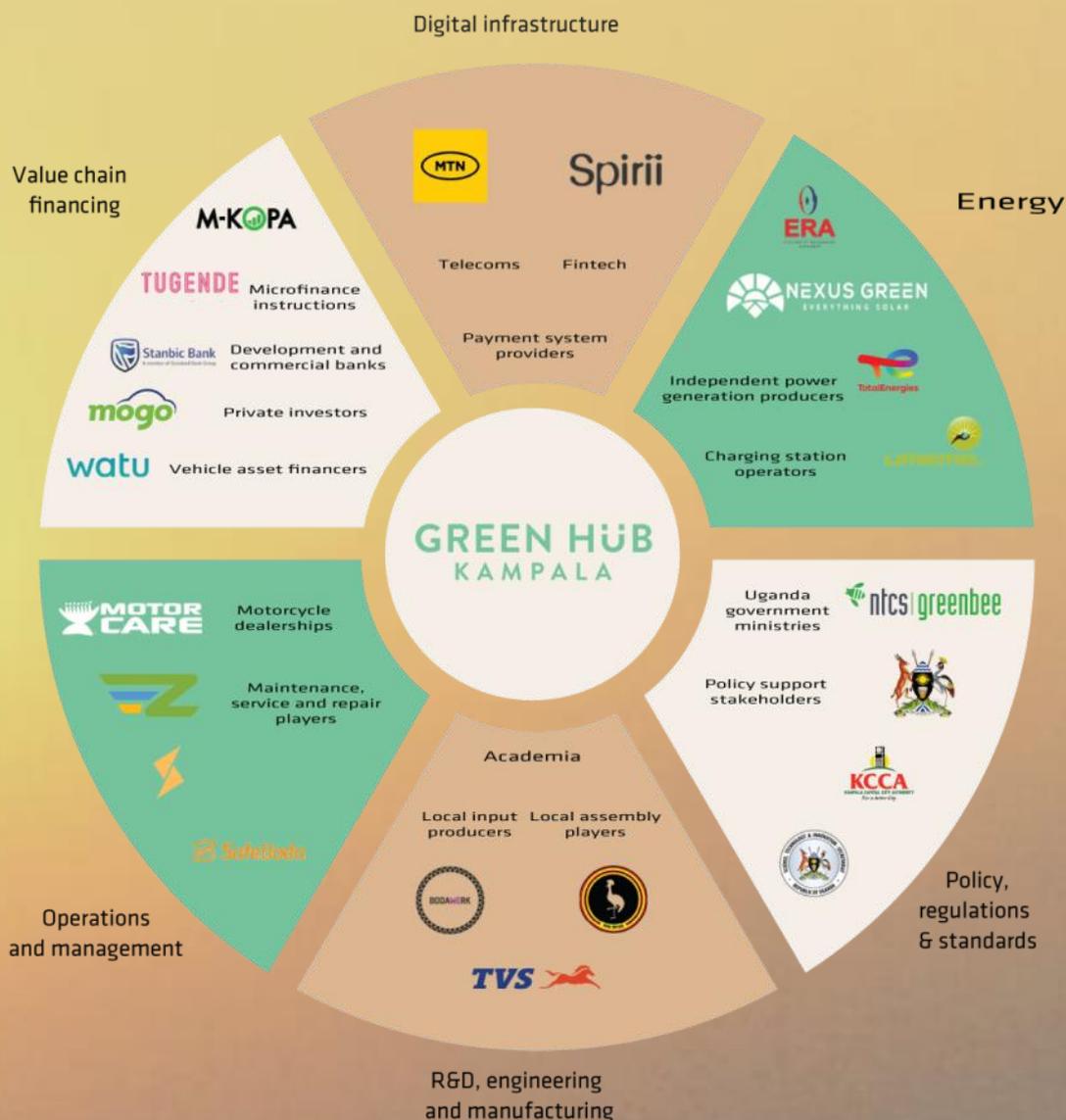
The funds will be allocated towards the pilot of Green Hub, set to launch in 2024, in collaboration with Access2Innovation as the administrative partner in the pilot.



The transition would result in an annual reduction of 250 000 tonnes CO2 worth \$15 million in carbon credits every year

Ecosystem and stakeholders

The eco-system of Green Hub Kampala consists of stakeholders across the full value chain indifferent but interacting sectors. Many stakeholders operate across multiple sectors and below is some of the key identified stakeholders and consortium partners in the eco-system.





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