South sudan energy storage for electric vehicles

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A just-commissioned solar and battery storage system will reduce diesel consumption by at least 80% at a base for 300 humanitarian workers in South Sudan, managed by the UN’s International Organisation for Migration (IOM).

Independent solar power producer Scatec Solar, which is headquartered in Norway, said it has completed work on the project, combining a 700kWp solar PV system with a 1,368kWh battery energy storage system (BESS) and connected to existing diesel generators onsite.

The project is sited at the Humanitarian Hub in Malakal, South Sudan. According to the UN, the workers onsite– spanning more than 30 different organisations– service almost 30,000 internally displaced people who live in the UN’s Protection of Civilians (POC) site adjacent to the Hub. Until now, it had been using around 800 litres of diesel every day.

“The combination of a movable, quickly installed equipment and flexible contract length increases our customer’s financial flexibility, allowing them to access clean and reliable solar power through monthly invoices, rather than high upfront investments,” Scatec Solar's CEO added.

The system was partly funded by the UK government’s Department for International Development and will help, the UN said, slash onsite power costs by 18%. As well as reducing greenhouse gas emissions and air pollution onsite, the noise from diesel generators is greatly reduced, with the region enjoying sunshine every day, even during the rainy season.

“South Sudan enjoys sunshine all year round. Even during the rainy season, we still have long periods of sun, so this bid to shift to solar power was a no brainer. It made absolute sense to fully optimise the power of the sun in this way,” Jean-Philippe Chauzy, chief of mission for IOM in South Sudan, said.

“Investing in renewable energy is investing in a sustainablefuture and the launch of this innovative project will undoubtedly help us path a way towards the use of more renewable energy systems within the humanitarian sector,” Chauzy added.

Atlas Copco"s industry-leading range of Lithium-ion energy storage systems expands the spectrum of suitable applications and provides operators with increased options for power, taking modular energy storage to a new level. Designed with sustainability in mind, these units are suitable for noise-sensitive locations, dramatically reducing fuel consumption and CO2 emissions during operation.

These battery-based energy units help rental companies and end-users deploy flexible, reliable power. By

combining an energy storage system and an integrated ECO ControllerTM --Atlas Copco"s Energy Management System (EMS)-- with low-emission modular assets, such as solar and other renawable sources, you can decarbonize your operations, while achieving significant fuel, energy and lifecycle savings.

In standalone operation, or in a hybrid solution with the grid and/or renewables, there is no fuel consumption. In a hybrid solution with a generator, you can reduce your daily fuel consumption by up to 90%.

Battery energy storage systems are transforming the power supply sector by becoming the heart of energy efficient solutions. They are used in off-grid applications or to boost the limited grid available by efficiently storing and delivering energy to match the load demand.

Weather it is as a standalone solution, in hybrid mode --with the grid, renewable energies or power generators-- or as the central piece of a microgrid, energy storage systems help operators to increase their overall operational productivity, by optimizing energy consumption and cutting costs. Additionally, being battery-based, they are suitable for noise-sensitive environments, meeting regulations.

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Web: https://www.hollanddutchtours.nl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346