

The world's first EACs from *electric trucks*

Sentinel Earth and 123Carbon have listed Azure Road, a 287-truck battery-electric fleet in China, on the 123Carbon registry, giving corporate buyers a verified way to cut Scope 3 freight emissions.

Sentinel Earth and 123Carbon issue the world's first Environmental Attribute Certificates from battery-electric, heavy-duty vehicles.

First Environmental Attribute Certificates from the Azure Road project are now available to corporate buyers tackling Scope 3 freight emissions

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Sentinel Earth and 123Carbon today announced that Azure Road, a heavy-duty battery-electric trucking project in China, is now listed on the 123Carbon registry. This is the first time that Environmental Attribute Certificates (EACs) from heavy-duty trucking have been issued on a global registry, following the Market Based Measures methodology developed by Smart Freight Centre. The EACs are available for purchase by corporate buyers seeking to reduce emissions within their value chains.

Heavy-duty road freight is one of the hardest parts of any corporate Scope 3 inventory to address. Azure Road, developed by Sentinel Earth, gives corporate buyers a verified way to credit real emission reductions inside their supply chains.

“Freight is where a lot of corporate decarbonisation plans stall, because the emissions sit deep in the supply chain and there has rarely been a credible way to act on them. Azure Road changes that. Buyers can point to real trucks, real kilometres and independently verified reductions, and account for them inside their own value chain,”

Jin Guo, Chief Financial Officer and Head of APAC, Sentinel Earth

“The business case for electric trucking is still challenging. High vehicle costs and the complexity of operating efficient electric routes can make it difficult for carriers to achieve attractive returns. By generating Environmental Attribute Certificates, carriers can unlock additional value from their emissions reductions. We believe this project demonstrates how a trusted registry and high-quality transport insets can accelerate EV adoption and inspire more fleet operators to issue certificates through the 123Carbon platform,”

Jeroen van Heiningen, Managing Director, 123Carbon

HOW IT WORKS

- A fleet of 287 battery-electric trucks replaces diesel haulage across four Chinese provinces, generating independently verified emission reductions.
- Those reductions are issued as EACs on the 123Carbon registry.
- Corporate buyers purchase and retire the EACs to credit verified reductions against their own Scope 3 freight emissions (Categories 4 and 9).

In 2025, the Azure Road fleet delivered more than 289 million tonne-kilometres of freight across Inner Mongolia, Hebei, Sichuan and Yunnan, consuming 14.8 million kWh of electricity.

VERIFIED AND TRANSPARENT

The Azure Road reductions are independently verified by Normec Verifavia, accredited to ISO 14065 and ISO/IEC 17029, and quantified using the GLEC Framework, the recognised standard for logistics emissions accounting. The certificates are designed to conform with the Market Based Measures methodology developed by Smart Freight Centre, the leading global methodology for Transport-based EACs. Each EAC is issued through 123Carbon's blockchain-backed registry, where all environmental attributes are uniquely tracked to prevent double counting and to maintain a clear chain of custody from operator to buyer.

AVAILABILITY

The first Azure Road EACs are available now on the 123Carbon registry. To discuss purchases, contact Jin Guo at jin.guo@sentinelearth.com.

ABOUT SENTINEL EARTH

Sentinel Earth AG is a Swiss carbon markets and project development firm based in Switzerland and Morocco. We originate, finance, develop and commercialise high-integrity climate projects, while advising corporates across voluntary and compliance carbon markets. Working across four continents, we support the full project lifecycle, from feasibility and methodology selection through validation, verification, issuance and buyer engagement for voluntary carbon markets, Article 6 mechanisms and corporate insetting.

Sentinel Earth closes the gap between project development and commercialisation. By managing the full journey from origination to market, we combine technical project expertise, carbon market execution and buyer access in one team.

ABOUT 123CARBON

123Carbon was founded to accelerate the decarbonisation of hard-to-abate sectors using Market Based Instruments. Developed collaboratively with the industry, for the industry, 123Carbon's platform is an independent, integrated platform, empowering organisations to issue externally verified Environmental Attribute Certificates (EACs), which can be allocated to downstream supply chain partners through chain-of-custody models like Book & Claim. These EACs can subsequently be used to mitigate a company's scope 3 reductions. 123Carbon is globally recognized as a leading platform within multi-modal transportation and is also active in other hard-to-abate sectors like steel, cement and chemicals. For more information, please contact us at info@123carbon.com.

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