

# STG Aerospace takes green approach to cabin lighting

This is a special feature from the [April 2026 AIX Hamburg issue](#) of *PAX Tech*, on [page 56](#).



STG's Eco Everything concept represents an environmentally sensitive design approach to its emergency FPM systems

Dr. Sean O'Kell, Business Director, [STG Aerospace](#), tells *PAX Tech* that choosing sustainable cabin interior options should be straightforward, without compromising on passenger safety, reliability, performance, aesthetics or sustainability benefits.

This is encapsulated by the company's "Eco Everything" concept, which O'Kell says represents an environmentally sensitive design approach to its emergency floor path marking (FPM) systems.

Following the launch of the sustainable emergency FPM saf-Tglo® eco E1™ in 2024, STG continued its core research to enhance the sustainability content and ensure independent verification of its findings.



Dr. Sean O'Kell, Business Director, STG Aerospace

"The 'Eco Everything' concept is implementing these recycled and biodegradable materials across our entire saf-Tglo® SSUL-X™ photoluminescent range, for all four widths (11, 18, 23 and 36 millimeters) and color/finish options," O'Kell reveals.

These products will be available by the end of the year. The aim, states O'Kell, is to have an FPM range that is sustainable and fully interchangeable with existing solutions, enabling easy replacement with an equally high-performing product that is aesthetically identical and offers all the sustainability benefits.

STG will showcase the sustainable qualities of "Eco Everything" and its contribution to net zero goals at AIX 2026. STG's independently verified Life Cycle Analysis report provides a cradle-to-grave comparison of saf-Tglo® eco E1™ to its best-selling Encapsulated product.

According to this report, the eco FPM has a 91 percent reduction in raw materials and 76 percent carbon footprint reduction, compared to Encapsulated.

"After a year of working with our eco product and more testing, we have successfully increased the recycled content from 50 percent to over 85 percent and aim to reach 100 percent in the next phase of the innovation," says O'Kell.

He describes a long and challenging process to incorporate recycled materials and retain structural integrity.

"Our recycled materials are ISCC-certified, ensuring the highest environmental standards," explains O'Kell.

The company is also demonstrating its transparency commitment by generating a public Environmental Product Declaration for saf-Tglo® eco E1™ initially. This is a standardized, verified document that follows strict international rules, (ISO 14025 or EN 15804). It is registered in the International EPD System (IES).

“‘Eco Everything’ is setting a benchmark for sustainable aviation products, ensuring that the path to safety in cabin interiors is also a path to a more sustainable future,” says O’Kell.