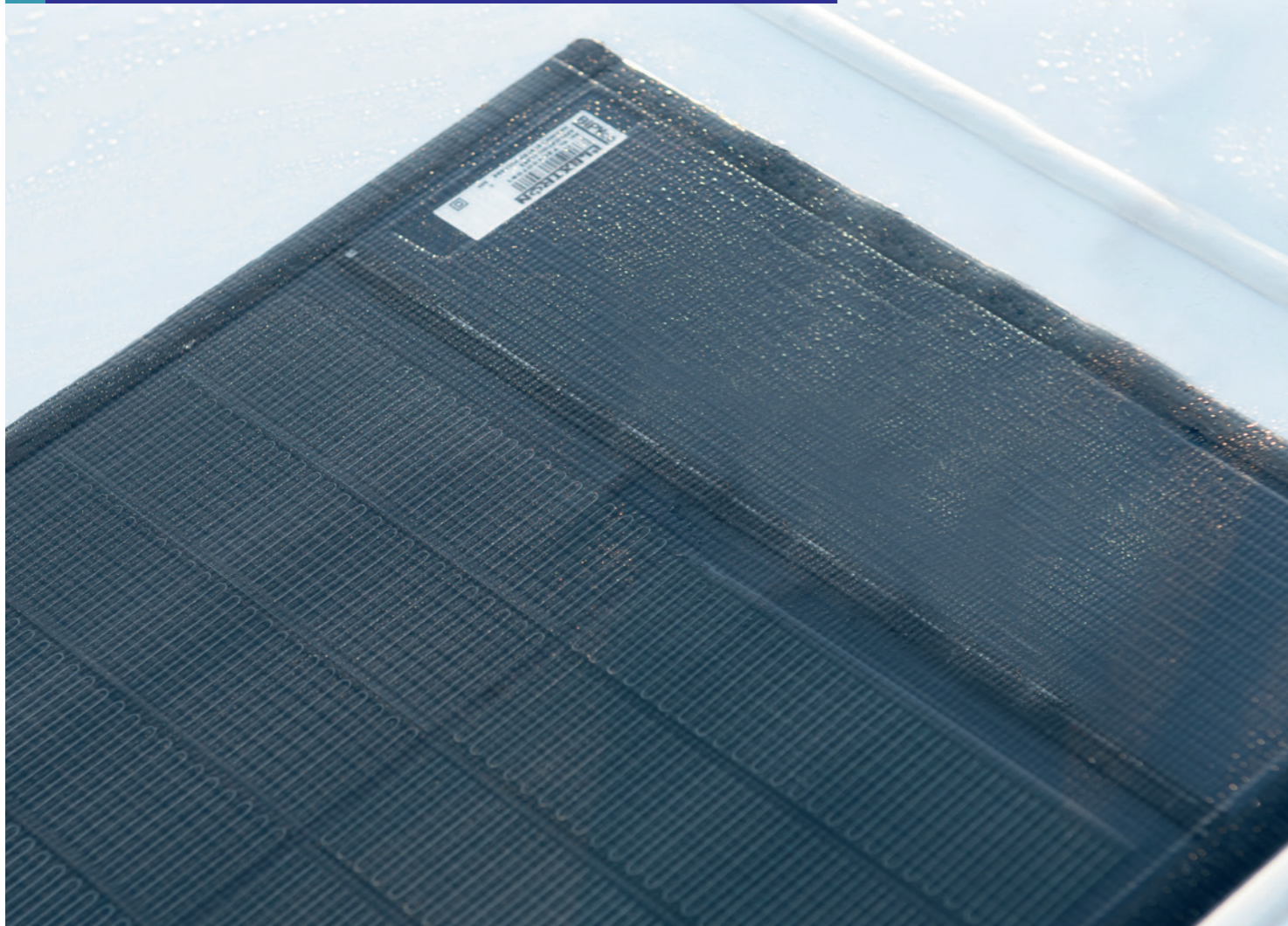


Improving **reliability, compliance** and **cost control**

Solar Solutions for Commercial Vehicles



Solar That Works as Hard as Your Fleet

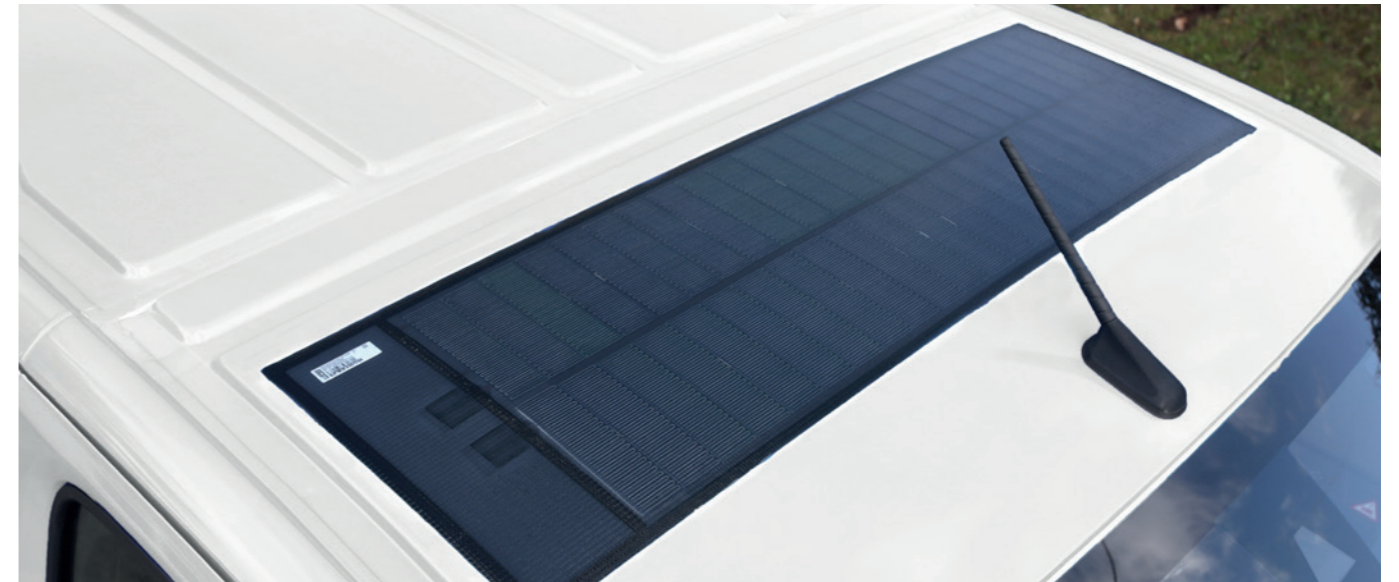
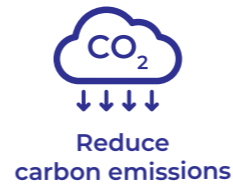


Powering Commercial Vehicles. Protecting Uptime. Proven in the Field.

At Genie Insights, we don't just sell solar panels – we deliver operational resilience, reduce running costs and provide a practical path to net zero.

With almost a decade of experience supporting both OEMs and major fleets, we are proud to be **The Fleet Guardian** – your trusted, expert partner at the intersection of transport and energy.

Our modern CIGS (copper, indium, gallium and selenide) thin film solar technology tackles the real-world challenges of fleet management: flat batteries, excessive idling, parasitic power loss and unplanned downtime.



Mission-Critical Applications

Targeted Solar Solutions for Today's Fleet Needs



12 & 24 Volt Battery Maintenance

Our discreet CIGS solar panels are engineered to deliver a consistent trickle charge to offset parasitic draw from telematics or other ancillary equipment – keeping batteries alive even during prolonged idling or low-mileage duty cycles.

- **Electric Vans:** Modern eLCVs still rely on a 12V auxiliary battery to power critical systems such as locking, safety features and infotainment. If this battery fails, the entire vehicle becomes inoperable (“bricking”).

- **Refrigerated Trailers:** Telematics, temperature monitoring systems and fridge controllers draw continuous power from the battery, resulting in flat batteries.
- **HGVs:** Power-hungry accessories like microwaves, kettles and fridges can quickly deplete 24V batteries, leading to frequent recharging or start-up failures.

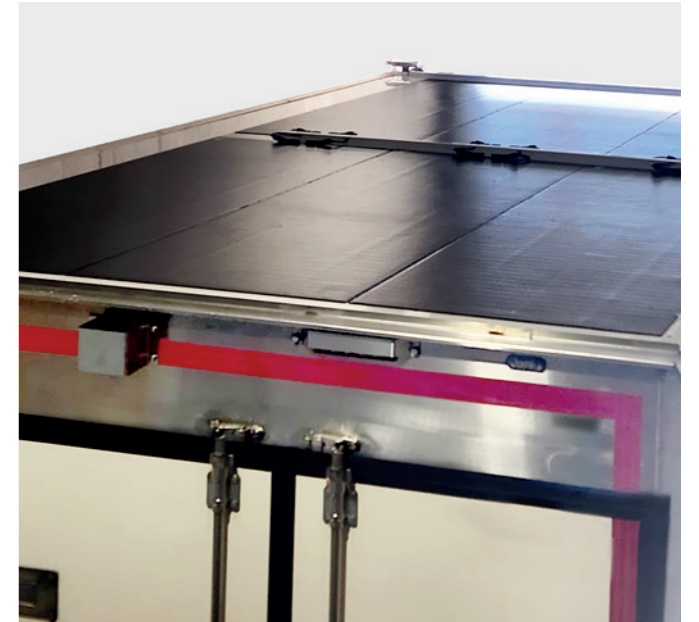
Our solar solutions actively support the battery, cutting idling time, protecting battery lifespan, and improving overall vehicle uptime.



Autonomous Power for Ancillary Equipment

For vehicles with higher energy demands, such as waste and recycling fleets or those with lifting decks and tail lifts, our solar systems generate renewable energy to independently power ancillary equipment, reducing the need for engine idling or external power sources.

By covering a vehicle's roof in photovoltaic panels, clean, renewable energy can be harnessed to reduce alternator strain, minimise fuel use and reduce environmental impact.



Centrica (British Gas)

When Centrica faced widespread downtime across its 2,500-strong electric van fleet, we provided a proven solar retrofit solution that helped eliminate bricking incidents.

“We’re making a huge investment in decarbonising our fleet so we need to make sure we’re addressing issues that affect our ability to serve customers quickly. We explored several options but there was a clear frontrunner. Following the successful tests, this partnership with Genie Insights will equip all 2,500 of our electric commercial vehicles with their solar solution, ensuring the 12V batteries remain charged. As a result, our vans will stay on the road longer, better serving our customers’ needs.”

Centrica Fleet Engineering Manager



CB Transport Refrigeration

With more than 1,500 solar installations completed, CB Transport Refrigeration has strengthened cold chain reliability for its customers through enhanced TRU reliability and reduced downtime.

“We’ve always been about keeping our customers on the road. Breakdowns from flat batteries are a nightmare for operators, from downtime of the vehicles to repair costs, it all has an impact. We needed a fix that actually worked – Genie’s solar kit does just that. Simple, reliable, and it does exactly what it says on the tin. My customers see the benefit straight away – fewer call-outs, less downtime, and peace of mind”.

CB Transport Refrigeration MD



Designed for Fleets. Built to Last.

Industry-Leading Efficiency

As well as operating at a higher voltage than conventional solar solutions, our unique system works in low light, cloudy days and even in shading from buildings in town centres.

Robust & Flexible

Because of the flexible nature of our solar panels, they are shatterproof, resistant to vibrations and cannot crack or fracture.

Lightweight Sleek Design

Custom size modules bonded directly to the vehicles' roof are less than 3kg in weight per square metre and less than 3mm thick (bonded) so there's no drag or loss of payload.

Unique Construction

All Genie Insights' solar products are manufactured in the UK using a unique encapsulation process which has been developed through years of investment in research and development.

Customisable & Off-the-Shelf Options

We can offer custom solutions designed to provide the optimum power output specific to your fleet's individual needs.

Available for Retrofit

Available for fitment to newly commissioned equipment or for retrofit via our extensive nationwide installation network.

New Innovations:

Connector Options:

- Undermount connectors – providing a clean, factory-style finish with no exposed cabling. Exclusive to Genie Insights, this is a true market-first.
- Top-mount connectors – a practical choice for rapid, flexible retrofitting across vehicle types.

Square Panel Format

Our square (two-lane) high voltage panel offers a compact alternative to our standard 50W format. Ideal for limited roof space or double-curved surfaces (e.g. cars), it expands the range of viable applications – another innovation unique to Genie Insights.

Unparalleled Product Assurance

Every Genie Insights system is backed by a suite of third-party certifications that guarantee quality, safety and performance:



- ✓ **Whole Vehicle Type Approval Ready**
Fully compliant with UK & EU fleet legislation
- ✓ **Vibration & Mechanical Shock Tested**
Built for mobile, high-impact use
- ✓ **IP67 Rated**
Sealed against water, dust and road debris
- ✓ **Fire Safety Tested**
Fleet-ready thermal and electrical safety
- ✓ **ISO 9001 Certified**
Quality and traceability guaranteed

Plus, our industry-leading warranty gives you long-term confidence.

This isn't off-the-shelf tech – it's transport-grade engineering designed for commercial deployment at scale.

Our Guiding Principles

What makes us The Fleet Guardian isn't just what we build – it's how we do business.



**We work with
INTEGRITY**

You can count on us to do the right thing and deliver on our promises.



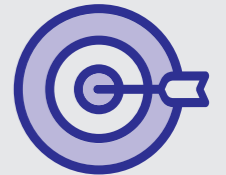
**We are
FAIR**

We treat everyone with respect, consider all perspectives, and stand up for what's right.



**We
COLLABORATE**

We value relationships and deliver consistent and reliable experiences for customers.



**We are
DEPENDABLE**

We take pride in meeting deadlines and keeping our word.

Let's Power Your Performance

Join the fleets already trusting **The Fleet Guardian**. Whether you're operating vans, trucks, trailers or buses, we'll engineer a solar solution that works as hard as your fleet does.

GenieInsights
THE FLEET GUARDIAN

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