



☐ Self-Charging Cooling — Sustainable Cold Chain, Anywhere

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picture: Thermoking

In the race to decarbonize refrigerated transport, fleets are looking for solutions that deliver both environmental impact and operational reliability. Thermo King's **AxlePower Self-Charging Cooling System** is one of those solutions — and it's already proving its worth on the road.

How It Works

AxlePower captures **kinetic energy** generated while the trailer is moving — for example, during braking or downhill driving. This energy is stored in onboard batteries and used to power the refrigeration unit entirely from that stored energy.

The result? **Zero-emission cooling** without extra fuel consumption or the need to stop for charging.

Why It Matters for Fleets

For operators, AxlePower combines measurable sustainability gains with practical deployment:

- **Up to 12 tonnes CO₂ saved per trailer annually**
- Works anywhere — no dependency on charging infrastructure
- Flexible rental options with full service, monitoring, and performance tracking
- **EU-wide type approval** for smooth integration into existing fleets

Proven in the Field

This isn't just a concept. Over the last 12 months, **nine high-utilisation AxlePower trailers** have delivered:

- **Over 1 million kilometres** of operation
- **13,500 hours** of electric refrigeration
- Reliable performance in climates from **Scandinavia to South Africa**

From icy roads to hot deserts, AxlePower has proven that it can deliver grid-independent, emission-free cooling without compromising reliability or scalability.

A New Standard for Cold Chain Sustainability

AxlePower is proof that **smart energy recovery** and **innovative service models** can reshape cold chain logistics. For fleets, it means:

- Lower carbon footprint
- Reduced operating costs
- No sacrifice in performance or uptime

With its mix of **technology, flexibility, and proven results**, AxlePower isn't just a step towards sustainability — it's a **ready-now solution** that works in real-world conditions.

read more:

<https://www.coldchainnews.com/thermo-king-facilitates-adoption-of-the-axlepower-self-charging-cooling-system-accelerating-sustainable-trailer-refrigeration/>