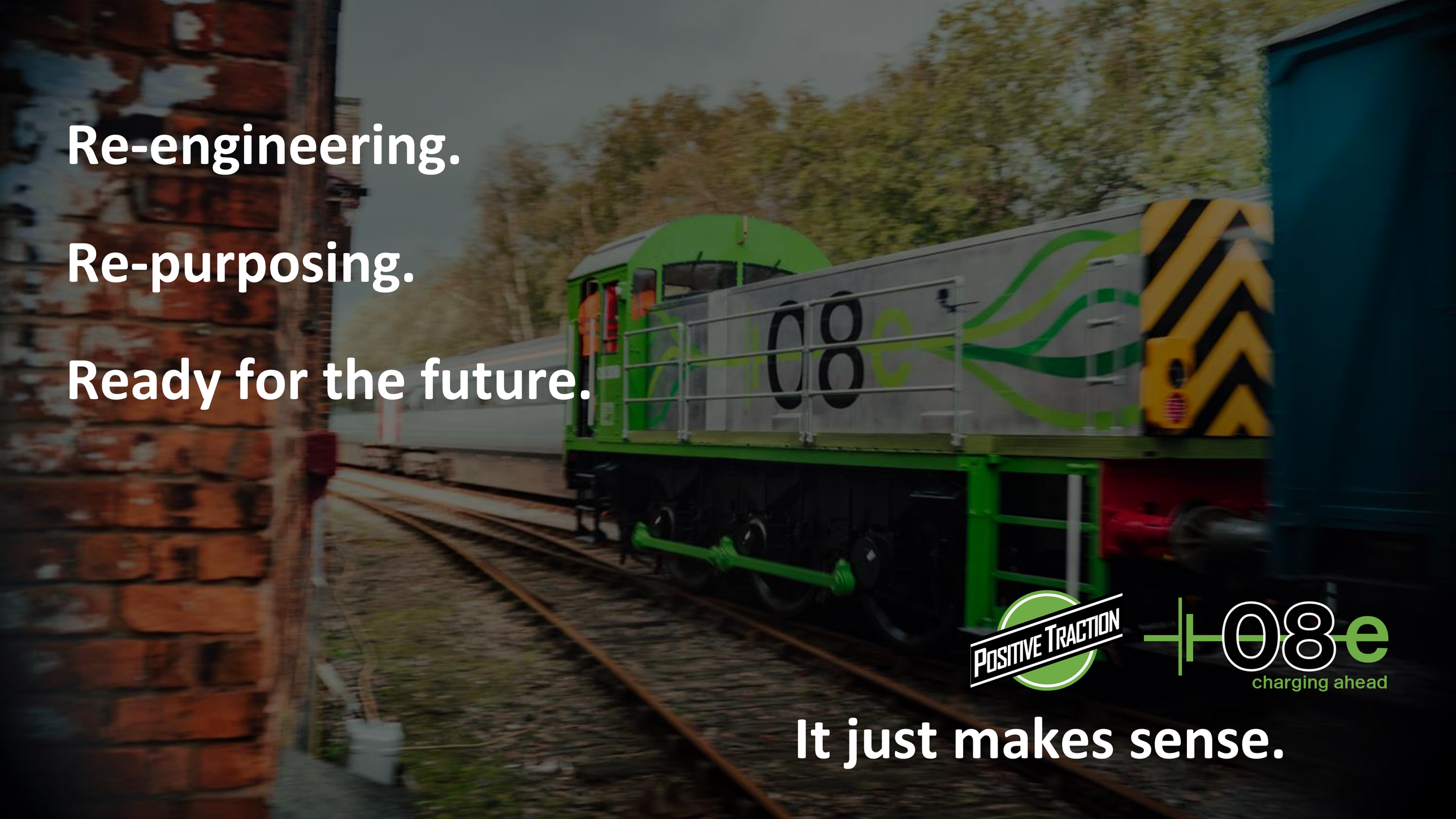


Re-engineering.

Re-purposing.

Ready for the future.

POSITIVE TRACTION

08e

charging ahead

It just makes sense.

The End of Diesel

- Action is needed to address the climate crisis.
- The UK Government aims to reach Net Zero by 2050.
- Outdated body designs need improved safety and efficiency
- Unnecessary maintenance & downtime costs

The Battery Revolution

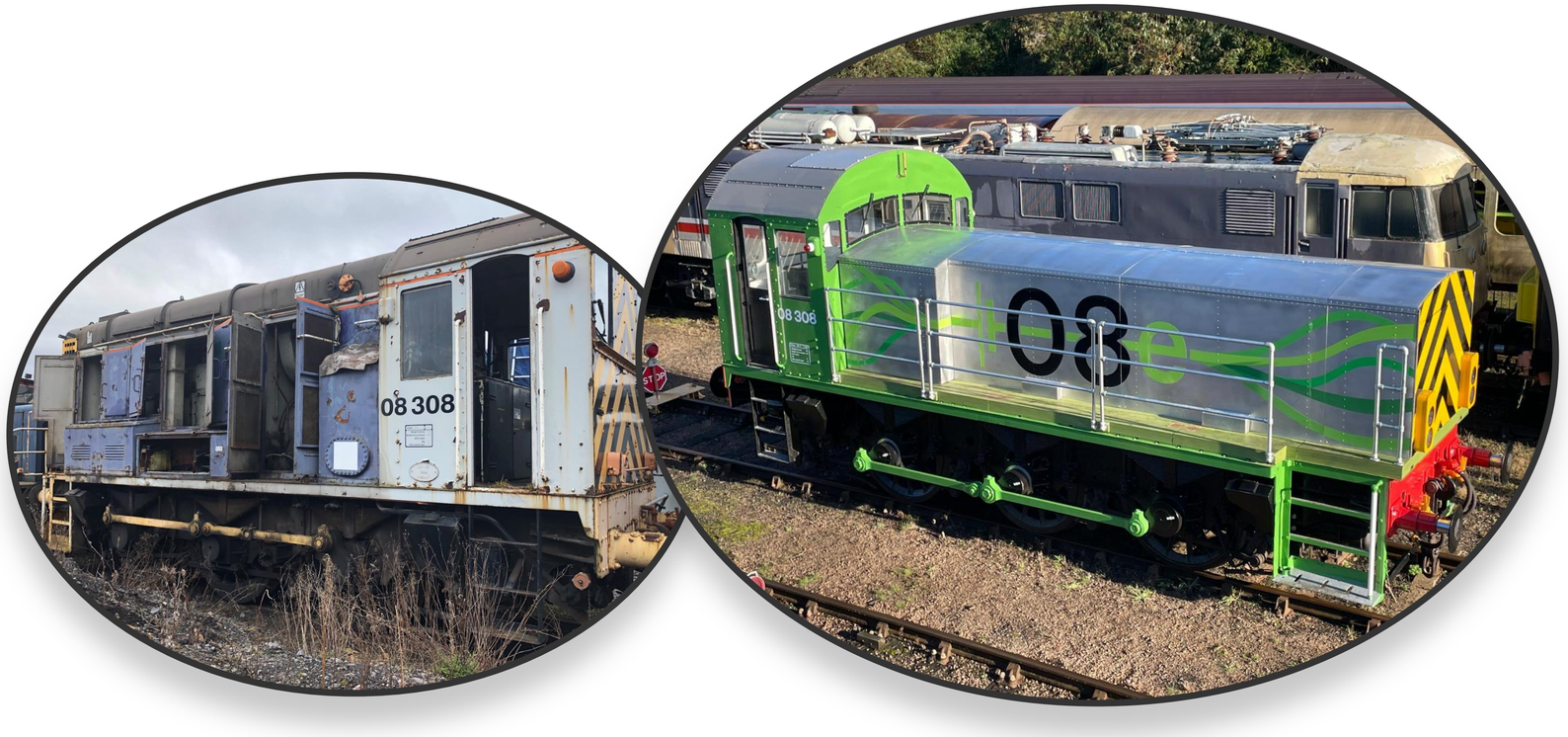
- Key driving forces: carbon reduction, sustainability, future-proofing
- Managing the obsolescence of many diesel-powered locomotives which **already exist.**
- Massively improved user experience
- Cost-saving conversions and retained classification & familiarity

The 08e Prototype

Positive Traction successfully proved the concept of converting diesel engines to battery power with the prototype and launch of Shunter 08308, now known as the ‘08e’.

The changes achieve several goals:

- Carbon reduction
- Significant improvement in tractive effort
- Operational improvement
- Improved safety
- Reduced maintenance
- Reduced cost of ownership
- Improved user experience



Since it’s launch in late 2023, the 08e prototype has been on multiple site trials, with more on the horizon. The first production models have since been ord

The 08e Prototype

POSITIVE TRACTION

08e

charging ahead

New Windows –
Increased Visibility

Familiar Cab
Controls Retained

PT Powertrain™

PT-Powerpod™
(Up To 6 Battery Pods)

New Lower Bonnet

New Rear
Windows To
Increase Visibility

New Air Compressor &
Air Dryer

Auxiliary Converter

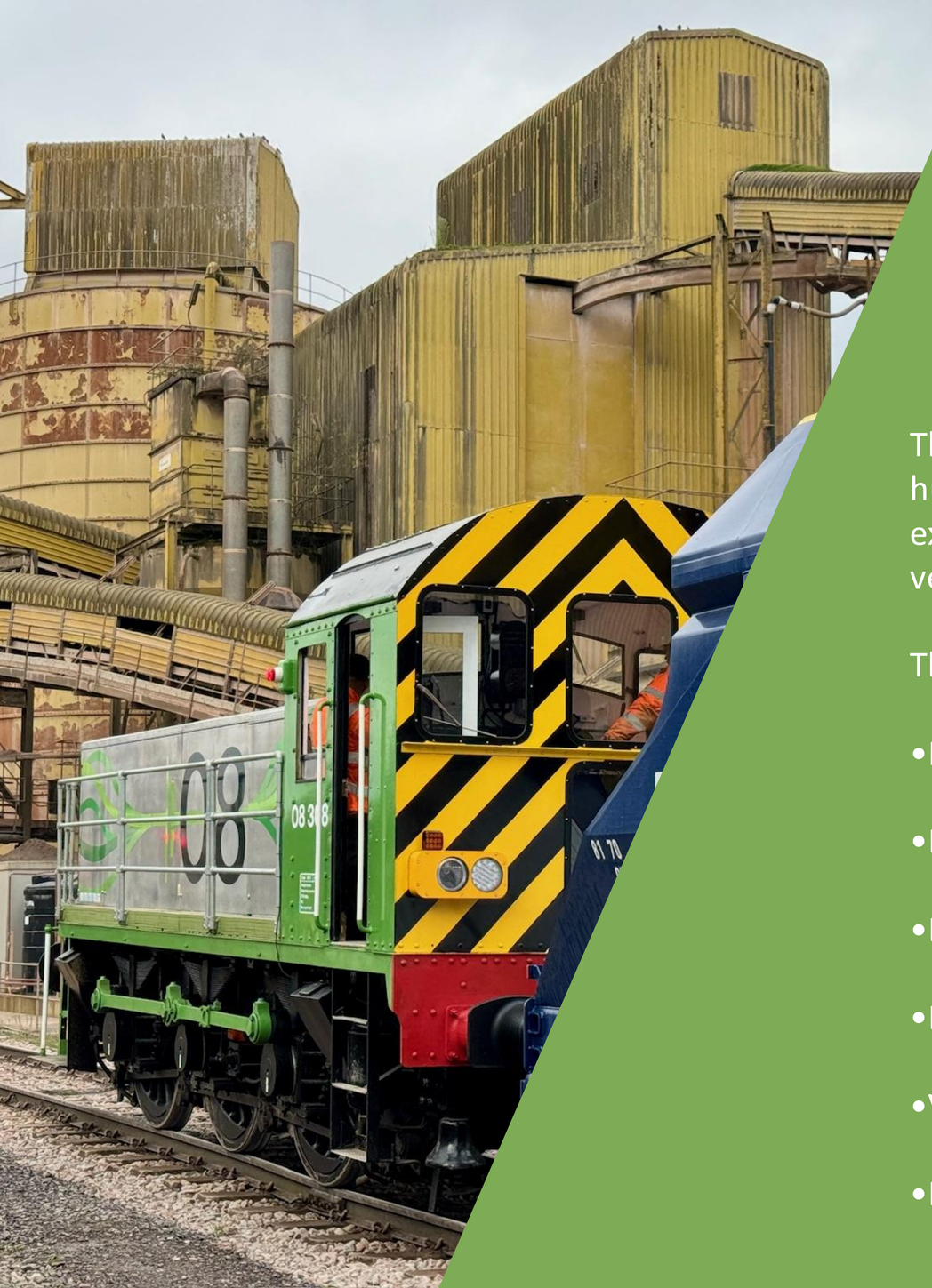
New Lights Front
& Rear

New Safety Handrails

Low Maintenance
Vesconite Bearings

Weighting Plates

Existing Traction Motors
& Brakes Retained



What's next?

The 08e project is an important proof of concept and opens the door to expanding to a huge range of research & development in this area. Positive Traction plan to continue to expand their fleet by applying their conversions & modular technology to a range of vehicles.

The key R&D activities for battery powered locomotives include:

- Prototyping
- Battery Technology Research
- Energy Storage Optimisation
- Power Electronics Development
- Vehicle Control and Management Systems
- Lifecycle Assessment and Sustainability Research