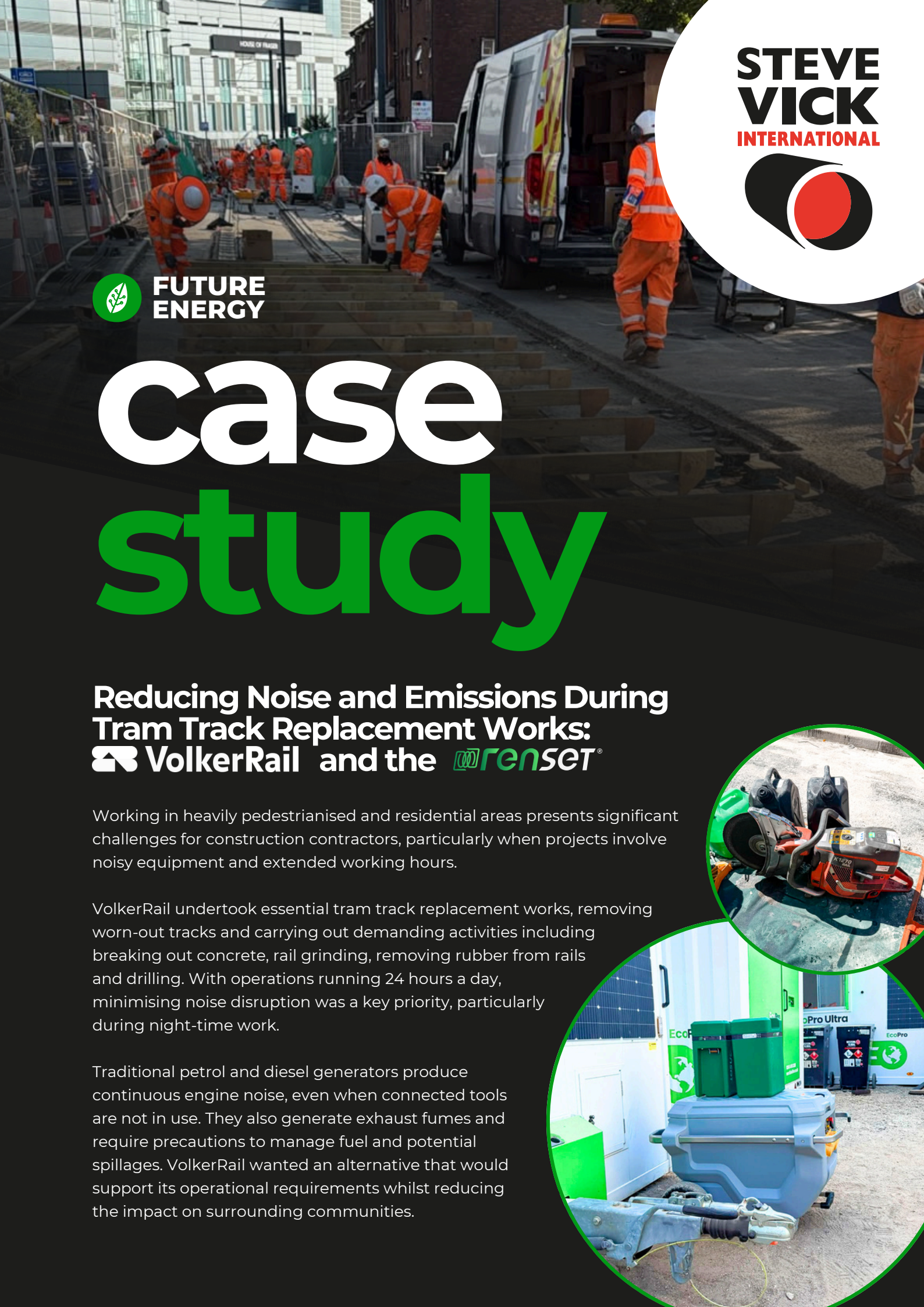
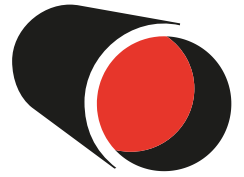




**STEVE
VICK**
INTERNATIONAL



**FUTURE
ENERGY**

case study

Reducing Noise and Emissions During Tram Track Replacement Works: VolkerRail and the renSET®

Working in heavily pedestrianised and residential areas presents significant challenges for construction contractors, particularly when projects involve noisy equipment and extended working hours.

VolkerRail undertook essential tram track replacement works, removing worn-out tracks and carrying out demanding activities including breaking out concrete, rail grinding, removing rubber from rails and drilling. With operations running 24 hours a day, minimising noise disruption was a key priority, particularly during night-time work.

Traditional petrol and diesel generators produce continuous engine noise, even when connected tools are not in use. They also generate exhaust fumes and require precautions to manage fuel and potential spillages. VolkerRail wanted an alternative that would support its operational requirements whilst reducing the impact on surrounding communities.



The Solution: Renset® PS5000 Battery Powerstation

VolkerRail trialled the Renset® PS5000 110 V Powerstation, supplied by Steve Vick International, to power construction tools during its tram track replacement programme.

Designed for demanding construction and infrastructure environments, Renset® delivers portable power without petrol or diesel. With a continuous output of 5,000 W and a peak output of 10,000 W, it combines high performance with low-noise operation and zero exhaust emissions at the point of use. Its LiFePO4 battery technology and swappable battery modules provide flexibility on site.



The Results

Significantly reduced noise disruption

One of the most noticeable benefits was the reduction in noise compared with conventional petrol and diesel generators. Renset® does not require an engine to run whilst tools are idle, so when connected tools stopped operating, noise from the power supply was virtually eliminated. This was particularly valuable during night-time work in residential areas.

A cleaner and more comfortable working environment

Operatives welcomed the absence of engine noise and exhaust fumes associated with conventional generators. With no petrol or diesel required, the Renset also removed the need for fuel handling and plant nappies to capture potential fuel spillages from the power supply.

Reliable power throughout the working window

VolkerRail tested a selection of construction tools to assess performance in demanding site activities:

Equipment	Power Input	Trial performance
2 × Hilti TE-80 breakers	1.7 kW each	Both operated continuously for approximately 3 hours on fully charged batteries
Makita 9-inch grinder	2.0 kW	Operated for 1 hour
Bosch multi-tool	0.3 kW	Operated successfully

The two Hilti TE-80 breakers were particularly encouraging. Night-time preparatory works typically have a three-hour working window, and the trial reported sufficient power to operate both breakers throughout this period.

Reducing carbon emissions on site

Replacing petrol or diesel generators with Renset® also offers an important environmental benefit. As a battery-powered solution, Renset® produces zero CO₂ and NOx emissions at the point of use, helping VolkerRail reduce direct emissions from its temporary power equipment during tram track replacement works.

This supports the construction industry's transition towards lower-carbon site operations and gives contractors a practical way to reduce their environmental footprint without compromising the power needed for demanding tools.

Simple, straightforward operation

VolkerRail highlighted the ease of use of the Renset® Powerstation. The unit started at the press of a button, with illuminated indicators giving a clear visual indication of battery status and when recharging was required.

Supporting More Considerate Construction

The VolkerRail trial demonstrated how battery-powered technology can offer a practical alternative to conventional generators for demanding construction applications. By combining reliable power delivery with reduced noise, zero on-site exhaust emissions and straightforward operation, Renset® helped address challenges associated with working in busy residential and pedestrianised environments.

For contractors undertaking night-time work, urban infrastructure projects and activities close to the public, Renset® offers an opportunity to reduce disruption without compromising the performance needed to get the job done.



CE UK

**Reliable power,
WHEREVER THE WORK TAKES YOU.**

The Renset® PSS000 Powerstation is available for hire from Steve Vick International, the sole UK and Ireland distributor.

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