

# Case Study Balfour Beatty

#### Background

Balfour Beatty was awarded a £75 million contract as part of a major five-year, £355 million Highways England improvement scheme. A 1.5 kilometre site in the centre of Hull (Castle Street).

The A63 was designed to improve access to the port, congestion, road safety and connections between the city centre and recreation facilities.

By deploying sustainable products across the A63 Improvement Scheme - Balfour Beatty could achieve incredible results, including a major reduction in diesel usage and CO<sub>a</sub>e emissions.

### Challenge

An ancient 300-year-old burial site had to be relocated carefully and respectfully to another site. Balfour Beatty deployed the industry's first electric mini excavator – saving up to 70% in fuel used.

Three electric excavators needed to be recharged each day, including powering the lights and the pump keeping the tent lit up and raised.

Balfour Beatty wanted to reduce the noise and emissions on this protected site. However, there was no mains power on site.

A diesel generator running 24/7 was unsuitable for operating in an enclosed space and would eliminate the sustainable and environmental benefits gained by the project so far. By deploying sustainable products across the A63 Improvement Scheme - Balfour Beatty have achieved incredible results, including a major reduction in diesel usage and CO<sub>2</sub>e emissions.

The following savings were calculated from replacing a 40kVA diesel generator with a Prolectric ProPower Solar Hybrid Generator, which ran 24 hours, 7 days a week saving 2.7 litres per hour for 50 days.



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# SMART CLEAN TECHNOLOGY + Balfour Beatty

### **Power** Solar Hybrid Generator

# The Solution The Result

Our revolutionary ProPower Solar Hybrid Generator provided an offgrid temporary power solution.

Solar powered meant a reduction in emissions and fuel, reduced noise, and less maintenance was needed.

No mains power meant no trenching was required – meaning a fully offgrid power solution. The generator is fixed to a trailer making it mobile and easily deployable. EV charging can be added, providing one of the many customisable features.

The ProPower is favourably used for welfare and site cabin power.

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By replacing diesel generators and upgrading to Prolectric's sustainable solar hybrid generators - Balfour Beatty achieved incredible results - including a major reduction in noise pollution, diesel usage and CO<sub>2</sub>e emissions.



Delivered fully charged and set up onsite with a full distribution board by the Prolectric team.



The Prolectric ProPower is an off-grid sustainable power solution that has been specially designed to deliver temporary power to various sectors sites.



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### Why choose Prolectric?



Reduced Emissions Offers huge CO<sub>2</sub> emissions benefits vs traditional diesel generators.

and reporting capabilities.



for urban & night projects.



Reduced Fuel Usage The ProPower can cut fuel usage by up to 90%.

#### Minimal Maintenance Reduced generator run-time means less maintenance.

