3ti

HALO

FAST HUB

CUSTOMER CASE STUDIES

June 26

Certified B Corporation



NETWORK RAIL

Network Rail

Basingstoke Campus





The Challenge

Network Rail needed to decarbonise its road fleet at the Basingstoke Campus and needed infrastructure that could be deployed at pace, without disrupting a working operational site.

The Solution

- HALO *Fast*Hub 12 charge point solution
- Delivered and installed in under 24 hours
- Scalable blueprint for Network Rail's wider estate

The Outcome

- First HALO *Fast*Hub installed across the Network Rail estate
- Fleet vehicles and visiting staff charge on-site
- Low-carbon energy reducing reliance on grid infrastructure

"Decarbonising our road fleet is a critical part of our wider sustainability strategy, and infrastructure like Papilio3 enables us to make tangible progress at pace. This deployment in Basingstoke is a blueprint for how we can support our teams on the ground with the tools they need to operate cleaner, greener vehicles every day."

Dan Bannister · Special Projects Manager, Network Rail

MERSEYSIDE POLICE

Merseyside Police

Police Headquarters





The Challenge

A police force with a growing electric vehicle fleet needed convenient, reliable on-site charging with renewable energy to support its commitment to Net Zero by 2040.

The Solution

- Solar-powered charging for the police EV fleet
- Renewable energy derived from on-roof Solar PV

The Outcome

- Convenient charging for the growing police EV fleet
- Solar energy reducing carbon footprint
- Supporting Net Zero by 2040 target

"The force's target is to be Net Zero for all scope 1 and 2 emissions by 2040, and it is hoped exploring the use of technology such as this — which uses solar panels on its roof — will help us achieve that."

Keith Dickinson · Director of Resources, Merseyside Police

SEGEN LTD

Segen Wincanton

Training Academy · Wincanton





The Challenge

The UK's leading renewables distributor needed convenient, sustainable EV charging at their Training Academy a demonstration of the very technology they teach, for 1,600 trainees a year.

The Solution

- 12 charge points at up to
- 22 kW
- RFID, app and contactless payment

The Outcome

- 9,945 kWh monthly average EV demand
- 250 monthly average charge sessions
- Live renewable energy showcase for trainees

"As a leader in the renewables sector, we are committed to setting an example by using innovative solutions to reduce our carbon footprint. Providing a convenient and sustainable onsite EV charging solution will help us achieve that goal."

James Golloway · Global Product Director, Segen Ltd

SURREY COUNTY COUNCIL

Surrey County Council

Guildfrod, Surrey





The Challenge

Surrey County Council's growing electric vehicle fleet needed charging infrastructure urgently — the solution had to be quick to deploy and capable of supporting fleet operations without delay.

The Solution

- HALO *Fast*Hub installed to power the SCC EV fleet
- Deployed rapidly to meet urgent operational need
- Smart charging optimising fleet energy use

The Outcome

- Fleet EV charging operational without delay
- Supports SCC's sustainability strategy
- Milestone in the council's effort to reduce emissions

"We're delighted to have Papilio3 installed, which represents an important milestone in our effort to reduce emissions and expand our electric vehicle fleet."

Paul Wheadon · Strategic Contract Group Manager, Highways and Transport, Surrey County Council

NORTHERN CARE ALLIANCE

Salford Royal Hospital

NHS Foundation Trust · Salford, Greater Manchester





The Challenge

A busy acute NHS hospital with high EV demand from visitors and patients. They needed EV charging infrastructure fast. Traditional routes, grid upgrades and months of civils simply weren't an option.

The Solution

- Two Halo FastHub units, cabling daisy-chained to halve civils cost.
- 24 charge points
- 40 kWp Solar PV.
- Charging within in 3 days

The Outcome

- Patients and visitors can charge on arrival.
- HALO *Fast*Hub solar cuts grid reliance.
- Net Zero ambition backed by real infrastructure.

"We're cutting our carbon footprint in practical ways and the new twin charging hub will make it even easier for visitors with electric vehicles to recharge while they're here. "

Gary Lovelady · General Manager, Estates & Facilities, Northern Care Alliance NHS Foundation Trust

CATERPILLAR

Caterpillar UK HQ

Leicester





The Challenge

Caterpillar needed an urgent EV charging solution for staff during the construction phase of a larger solar car park, fast, with minimal disruption, and aligned with its sustainability commitments.

The Solution

- Installed in under 5 hours, a 3ti record!
- Solar-powered, renewable energy on day one
- Fully operational with minimal site impact

The Outcome

- Immediate EV charging for staff
- Solar-aligned with Caterpillar's carbon reduction goals
- Clear demonstration of sustainable innovation

“The installation of the Papilio3 FastHub in under five hours highlights the efficiency and flexibility of the product. Together, we've delivered an immediate, renewable-powered charging facility that will support the team at Caterpillar while larger infrastructure is developed. It's a partnership we're incredibly proud of.”

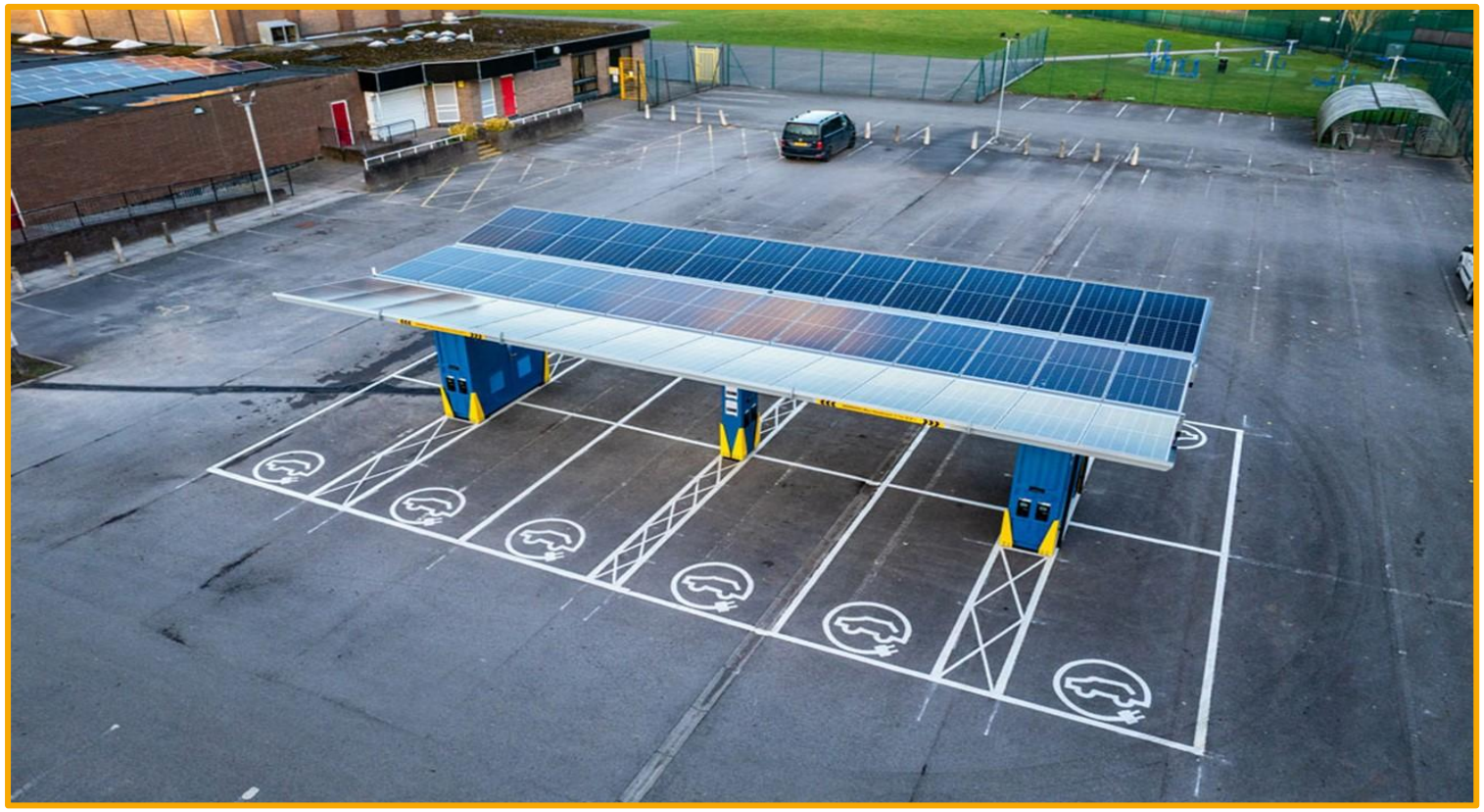
Alex Tupman · CEO, 3ti

EGNI CO-OP & AWEL CO-OP

Lliswerry High School

Newport, Wales





The Challenge

A secondary school in Newport needed solar-supplemented EV charging for staff and the public, while managing local grid constraints that limited what conventional infrastructure could deliver.

The Solution

- HALO *Fast*Hub
- Complements existing rooftop Solar PV
- Multi-tier dynamic load management
- Charging for staff and public

The Outcome

- Fully operational despite local grid constraints
- On-site solar generation reducing grid draw
- A live renewable energy resource for students

"Our experience of working with 3ti has been really positive. We want to see more of these being rolled out in Wales. It's a good educational resource for young people to see how solar energy can be used in an electric vehicle."

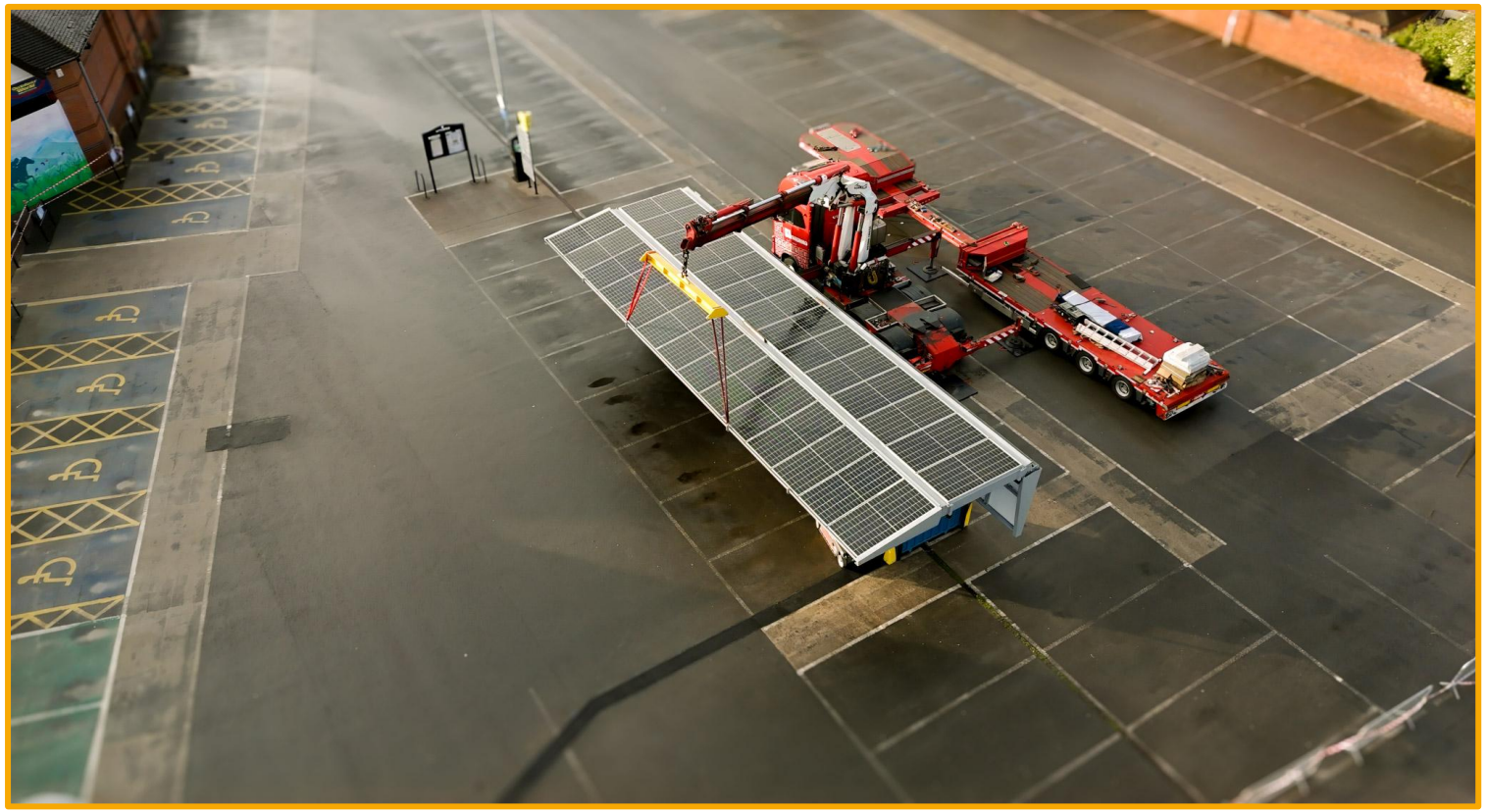
Dan McCallum · Director, Egni Co-op and Awel Co-op

EAST STAFFORDSHIRE BOROUGH COUNCIL

The Maltings Car Park

Uttoxeter, Staffordshire





The Challenge

A town centre car park needing visible, practical EV charging infrastructure as part of a wider regeneration strategy, one that would benefit both residents and visitors to Uttoxeter.

The Solution

- HALO *Fast*Hub at The Maltings Car Park
- Solar-supplemented charging for visitors and residents
- Part of ESBC's town centre regeneration programme

The Outcome

- Visible, sustainable infrastructure in the heart of Uttoxeter
- Supports the council's green future ambitions
- Attracts more visitors and enhances town centre experience

"This project aligns perfectly with our vision to regenerate Uttoxeter. The Maltings is a strategic location, and this installation will help attract more visitors, enhance their experience, and support our town's green future."

Cllr Paul Walker · Cabinet Member for Tourism and Cultural Development

SILVERSTONE CIRCUITS

Silverstone Circuits

The home of British motorsport, Northamptonshire





The Challenge

Silverstone needed reliable, low-carbon EV charging across its site ahead of a packed summer racing calendar, in keeping with its Shift to Zero sustainability initiative.

The Solution

- Two HALO *Fast*Hub charging hubs installed
- Pit Stop Café
- Silverstone Wing
- Low-carbon charging for visitors and staff

The Outcome

- Reliable EV charging throughout the racing season
- Solar-supplemented, low-carbon energy on site
- Demonstrating leadership in the race to net zero

"As the home of British Motor Sports, we want to be ahead of the curve and be seen as a front leader in the race to net zero. This is why we are using 3ti to accompany us and accelerate change and win the race to net zero."

Stephane Bazire · Head of Business Sustainability, Silverstone

UNIVERSITY OF SURREY

University of Surrey

Guildford, Surrey





The Challenge

A university with a strong sustainability focus needed to enhance EV charging infrastructure for staff, students, and visitors, quickly and without costly grid upgrades.

The Solution

- 12 charge points for staff, students and visitors
- Commissioned in under one day
- Smart charging optimising grid connection

The Outcome

- Charging available on day of installation
- Supports the university's sustainability strategy
- Practical, visible renewable energy infrastructure

"It is an amazing thing to see it go up so quickly. It has probably been 6 hours since I arrived here, and I am charging. That is pretty impressive when these things usually take months."

Robert Llewellyn · Host, Everything Electric Show

BENTLEY MOTORS

Bentley Motors

Crewe Headquarters





The Challenge

Bentley needed to expand on-site renewable charging at its Crewe headquarters to support a growing number of staff EVs — complementing an existing 10,000-panel solar array as part of its Beyond100 sustainability strategy.

The Solution

- Two HALO *Fast*Hub charging hubs installed
- 24 EV charge points for staff
- Free charging for staff and visitors
- Integrates with existing 10,000-panel solar array

The Outcome

- 65.4% increase in utilisation since April 2024
- 737 monthly average charge sessions
- Decarbonising operations as part of Beyond100

"The exciting addition of further solar panels supports Bentley's ongoing commitment to its Beyond100 strategy — a vision to transform a 103-year-old luxury car company into a new, sustainable role model for the entire automotive industry."

Sebastian Benndorf · Director of Production Planning, Bentley Motors

NHS HIGHLAND

Raigmore Hospital

Inverness, Scotland





The Challenge

A busy Highland hospital with a fleet of EVs already in operation needed to support destination and workplace charging, addressing growing demand in an area where long dwell times are common.

The Solution

- 12 charge points for staff, students and visitors
- Solar-supplemented energy on site
- Supporting patients, staff and visitors

The Outcome

- 148% increase in utilisation since April 2024
- 260 monthly average charge sessions
- NHS Highland better positioned to support EV users

"As part of our commitment to supporting the delivery of healthcare in the future, we understand that our environmental responsibilities go beyond our own services. With the introduction of Papilio3, NHS Highland is now better positioned to support patients, staff and visitors with EVs at Raigmore."

Brian Johnstone · Head of Energy, Environment and Sustainability, NHS Highland

JAGUAR LAND ROVER

Jaguar Land Rover

Halewood Plant, Merseyside





The Challenge

JLR's Halewood plant is transitioning to become their first all-electric production facility. Staff needed low-carbon workplace charging to support the shift — and the site needed infrastructure that matched the scale of ambition.

The Solution

- Two HALO *Fast*Hub charging hubs installed
- 24 EV charge points for staff
- Low-carbon workplace charging on-site
- Supports JLR's Reimagine strategy

The Outcome

- 24 charge points providing low-carbon charging
- Solar energy supporting the Halewood electrification journey
- EV ownership made viable for staff without home charging

"We are thrilled that JLR's sustainability credentials align with our own. We'd like to encourage more businesses to follow this example — this is a well-proven mechanism for making EV ownership a viable option for everyone, regardless of access to home charging."

Ben Marchant · 3ti

WILTSHIRE COUNCIL

Five Rivers Leisure Centre

Salisbury, Wiltshire





The Challenge

Wiltshire Council needed to provide clean, visible EV charging infrastructure at one of its flagship leisure centres — supporting its 2030 carbon neutrality goal and serving residents transitioning to electric vehicles.

The Solution

- Clean charging for leisure centre visitors
- Cuts energy costs through on-site solar generation
- Visible, practical green infrastructure

The Outcome

- Clean EV charging at a flagship council facility
- Reduced emissions and lower energy costs
- Supporting Wiltshire's 2030 carbon neutrality goal

"We are proud that one of our flagship leisure centres in Wiltshire's only city is home to this innovative technology which is having such a positive impact."

Cllr Ian Blair-Pilling · Wiltshire Council Cabinet Member

DEPARTMENT FOR ENERGY SECURITY AND NET ZERO

HALO FASTHUB

Papilio3 V2X Fast-Hub

UK Trial · Funded by DESNZ





The Challenge

To prove that EVs can act as grid assets, using solar, battery storage and smart charging together to demonstrate how workplace charging can support grid balancing and reduce carbon emissions at scale.

The Solution

- Bi-directional (V2X) charging trial
- Solar, battery storage and EVs via DC micro-grid
- Funded by the Department for Energy Security and Net Zero
- Testing grid balancing and energy flexibility

The Outcome

- Demonstrating EVs as distributed grid assets
- Building the case for a cleaner, more flexible energy system
- Supporting Net Zero and UK energy security

"This project is a major step forward in proving that EVs can act as grid assets. By combining solar, storage and smart charging, we're helping to build a cleaner, more flexible energy system that supports Net Zero and boosts UK energy security."

Mark Potter · CTO, 3ti