

# Bus Electrification with Smart Energy Management

Shuttle Buses is a progressive organisation, committed to electrifying its bus fleet to reduce carbon emissions. They appointed VEV to develop a phased fleet electrification plan, including smart energy management to work within their existing power constraints.

**Phase one** involved design and build of the charging infrastructure, enabling renewable power at competitive rates\*, implementing the VEV-IQ smart charging platform, and a comprehensive maintenance package to support reliable operations.

**Phase two** is planned for solar power generation to reduce demand from the grid supply, plus battery storage to optimise the solar power capacity. Subject to planning permission and surveys.

\* 100% REGO-backed renewable energy supply through VEV's energy supply partner



"VEV understood our environmental and business goals and offered a turnkey solution to support the electrification of our bus fleet. We're looking at potentially opening-up our charging infrastructure to other fleets and the VEV-IQ platform will be critical to this."

**Ross Granger,**  
Managing Director, Shuttle Buses

### About Shuttle Buses

- Shuttle Buses formed in 1990 and is one of the largest fleets in Ayrshire with 50 buses and 100 employees
- Subsidiary Shuttle Coaches offers private coach hire of 16-70 seat vehicles
- Shuttle Bus operates services commercially and through Strathclyde Partnership for Transport
- Operate MyBus services for elderly and disabled people as well as those without a local bus service
- In August 2022 Shuttle Bus officially became an employee-owned company and prides itself on its progressive culture.



Potential solar installation to generate **148,000kWh** – enough for **2 buses** – plus battery storage



Installed **5 chargers**, supplying power\* and providing maintenance

VEV IQ

Smart charging platform to manage charging infrastructure and load balancing



Predicted carbon emissions savings of **34,000 kg/year**, from solar solution