

# There are 32,000

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with 4,000 already electric making buses a leading force in fleet electrification.

#### Fleets account for

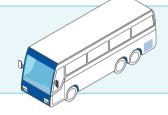


of the UK's total carbon emissions so net zero won't be possible without widespread electrification of bus fleets.

# **Powering Your Fleet**

Energy is the biggest cost of the EV transition and a robust energy strategy will reduce grid demand and costs.

One electric bus can use as much power annually





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as 28 typical UK homes

#### Depot micro-grids

Combine solar power, battery storage and optimised grid tariffs.

#### Smart charging

Schedule and monitor power sources and tariffs to minimise costs.

#### Shared hubs

Share infrastructure with third parties to offset costs with new revenue.

# **Charging Your Fleet**

Right-sizing the infrastructure to fit your operations is critical.

We've seen up to

overspend from lack of planning.



#### Charging schedules

Plan charging times, charger speeds and power - DC - to fit duty cycles & charging windows.

#### Charger uptime

Real-time monitoring with remote triage and resolution will minimise operational risk

of issues can be fixed remotely.

#### Some bus routes are suitable for

Opportunity charging

powerful pantographs

#### 150-550kW

charge buses en-route to keep buses running without returning to depot.

## Financing Your Fleet

Upfront capex costs for vehicles need to be calculated as part of a total cost of ownership (TCO) model to deliver net zero emissions for net zero cost increase.



# TCO savings

While EVs have higher upfront costs, they save on fuel, taxes, and maintenance, which reduces the total cost of ownership (TCO) compared to diesel.

## Subsidy-free

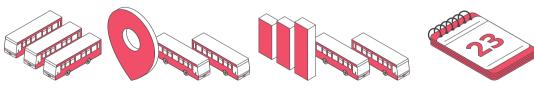
Government funding has kick-started bus electrification, but the economics stack up without subsidies.

## New models

'Electrificationas-a-service' shifts the investment from capex to opex through a managed service over a suitable period of time.

# **Digital EV Fleet Operations**

An electric bus fleet essentially runs on data insights – from power to chargers, routes, schedules, shift patterns, seasonality, weather and more.



## Data platform

Fleet Managers need a robust control centre that combines and interprets data in real-time - such as telematics, energy and chargers.

## **Performance**

Data analysis will provide the insights to optimise efficiency with marginal gains such as from vehicle usage, charger scheduling, power sources & driver training.

Connected vehicle technology facilitates remote diagnostics and rapid issue resolution, minimizing downtime and enhancing operational reliability.

Real-time diagnostics

# **About VEV**

VEV delivers complete fleet electrification solutions, integrating vehicles, charging infrastructure, and power management to support resilient, scalable EV fleet operations.

For more information, visit VEV.com or contact us at ask@vev.com.

