

# Transport decarbonisation

Advice and support available to replace ICE  
vehicles with zero emission alternatives



# Energy Saving Trust

Energy Saving Trust Energy Saving Trust is an independent organisation dedicated to promoting energy efficiency, low carbon transport and sustainable energy use to address the climate emergency.



## Electric car and van advice for SMEs

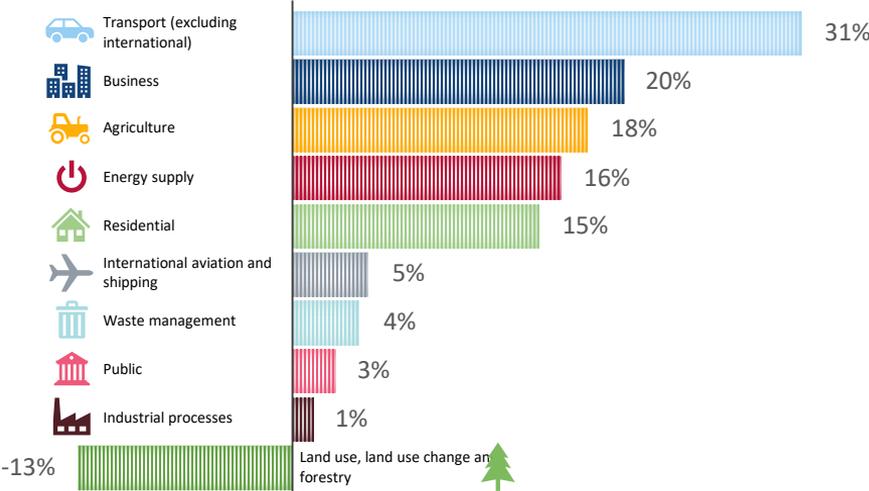
We offer free, expert advice to small and medium enterprises to support the transition of your cars and vans to electric.



## Grants and loans

We manage transport grants and loans available to businesses, organisations and local authorities across the UK.

# Why do we need to decarbonise transport?



Greenhouse gas emissions 2018: grouped by National Communication category (Scottish Government, 2020)

# Benefits of electric vehicles



A new battery electric car has just a third of the lifetime greenhouse gas emissions of an equivalent new petrol car.



Save on fuel costs; no VED; less maintenance; funding available from Energy Saving Trust.



Rapid chargers can charge to 80% in 30 to 50 minutes depending on the battery type.



ChargePlace Scotland network is growing; from 55 public chargers in 2013 to 2,168 in 2022.



Scotland is leading in the UK in number of chargers per 10,000 people. In December 2021, there were 5.2 chargers per 10,000 people in Scotland compared to 4.21 in the rest of the UK.

# Possible ZEV replacement options

## Vauxhall Vivaro-e Life

Max 9 seats

110 miles

50kWh

Charge Port: Type 2

Fastcharge Port: CCS



## Vauxhall Combo-e Life

7 seats

125 miles

50kWh

Charge Port: Type 2

Fastcharge Port: CCS



## Citroen e-Berlingo

5 seats

125 miles

50kWh

Charge Port: Type 2

Fastcharge Port: CCS



## Fiat E-Ducato

Up to 9 seats

230 miles

47kWh



## Mercedes Benz e Vito Tourer

9 seats

190 miles

100kWh

Charge Port: Type 2

Fastcharge Port: CCS



# Vehicle comparisons – cost and carbon savings



Based on 20,000 miles per year	Existing vehicle	ZEV alternative	ZEV alternative
	Ford Transit Minibus (YK14 HGJ)	Fiat Ducato Minibus (10,000 miles)	Vauxhall Vivaro e-Life (10,000 miles)
Official CO <sub>2</sub> emissions (g/km)	245 <sup>1</sup>	0	0
Annual CO <sub>2</sub> e (tonnes) <sup>2</sup>	9.71	0.85 <sup>3</sup>	0.86 <sup>3</sup>
Annual fuel cost	(£6,977) <sup>4,5</sup>	£850 <sup>6</sup>	£865 <sup>6</sup>
Fuel over 6 years	(£41,864) <sup>6</sup>	£5,099	£5,191
First year VED	(£290) <sup>5</sup>	£0	£0
VED over 6 years	(£1,740) <sup>5</sup>	£0	£0
First year costs (mileage/fuel + VED)	£7,267	£850	£865
6-year costs (mileage/fuel + VED)	£43,604	£5,099	£5,191
<b>First year cost saving</b>			<b>£5,552</b>
<b>6-year cost saving</b>			<b>£33,314</b>
<b>Annual CO<sub>2</sub>e saving (tonnes)</b>			<b>7.99 t CO<sub>2</sub>e</b>



Based on 20,000 miles per year	Existing vehicle	ZEV alternative
	Mellor Orion (SJ16 BFZ)	Mellor Sigma 7
Official CO <sub>2</sub> emissions (g/km)	405 <sup>1</sup>	0
Annual CO <sub>2</sub> e (tonnes) <sup>2</sup>	16.02	3.52 <sup>3</sup>
Annual fuel cost	£12,291 <sup>4</sup>	£3,743 <sup>5</sup>
Fuel over 6 years	£73,746	£22,457
First year VED	£165	£0
VED over 6 years	£990	£0
First year costs (fuel + VED)	£12,456	£3,743
6-year costs (fuel + VED)	£74,736	£22,457
<b>First year cost saving</b>		<b>£8,713</b>
<b>6-year cost saving</b>		<b>£52,280</b>
<b>Annual CO<sub>2</sub>e saving (tonnes)</b>		<b>12.50 t CO<sub>2</sub>e</b>

## Case study

### Mull and Iona Community Trust

- Mercedes eVito Tourer (wheelchair accessible)
- Plugged in Communities Grant Fund

### Key learnings

- Planning ahead of time
- Understanding the range capabilities
- Allowing time to charge
- 100 miles round-trip
- Training
- They have not had a single instance where they were unable to comfortably complete a journey!



# Support available from Energy Saving Trust



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Business chargepoint funding	Up to 75% of the cost of the installation	Funding to help organisations install EV charging infrastructure on their premises.  Repayment term of up to 6 years.
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Low Carbon Transport Business Loan	Limited companies: up to £150,000  Sole traders/partnerships: up to £75,000	Interest free loan to help reduce the carbon impact and fuel costs of your organisation's transport.  Repayment term of up to 6 years.
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Zero Emission Bus Market Transition Scheme	Stream 1 : up to £10,000  Stream 2: up to £25,000  Stream 3: up to £100,000	£500,000 grant to help organisations understand the steps required to replace their fleet with zero emission alternatives.  This support will mean they are well positioned to apply for the Scottish Zero Emission Bus Challenge Fund Phase 2 Funding, which is expected to launch in 2023/24.
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Low Emission Zone Support Fund	£2,000	Grant to help microbusinesses and soletraders, with an operating site within 20km of Scotland's low emission zones, to safely dispose of non-compliant vehicles.
Low Emission Zone Retrofit Fund	Up to 80% of the cost of a retrofit solution*	Grant to help microbusinesses and soletraders, with an operating site within 20km of Scotland's low emission zones, to retrofit their non-compliant vehicles.
eBike Business Loan	Up to £30,000	Loan to support organisations that want to reduce the carbon impact of their transport through the purchase of a new pedal-assisted electric bike, cargo bike, or new adapted cycles.
Bespoke fleet and vehicle advice	-	Bespoke report completed by one of our sustainable transport coordinators, outlining the rationale for change. Fleet decarbonisation recommendations and potential cost and carbon savings.

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## Fleet reviews start here

Reduce costs and emissions  
with our free fleet review



# How to get in touch



For the online business form see  
<https://transportform.est.org.uk/>



Email  
[sustainabletransport@est.org.uk](mailto:sustainabletransport@est.org.uk)



Or visit  
<https://energysavingtrust.org.uk/business/transport/funding/>