



Virtual EMEX

Net Zero - Transport

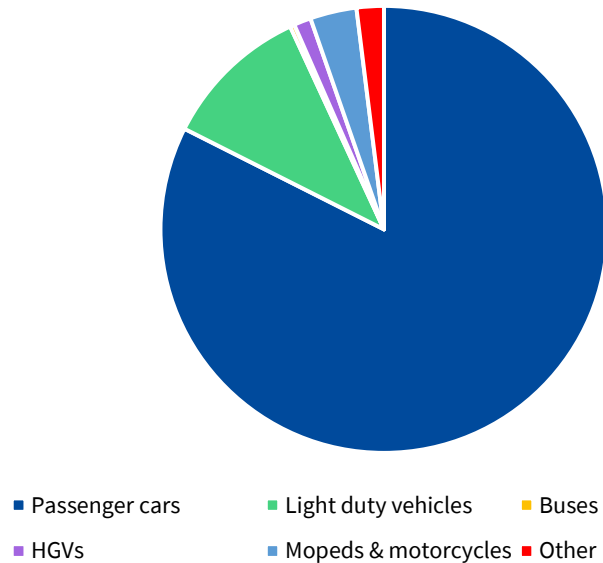
November 2020

Transport Needs to be Addressed for Net Zero

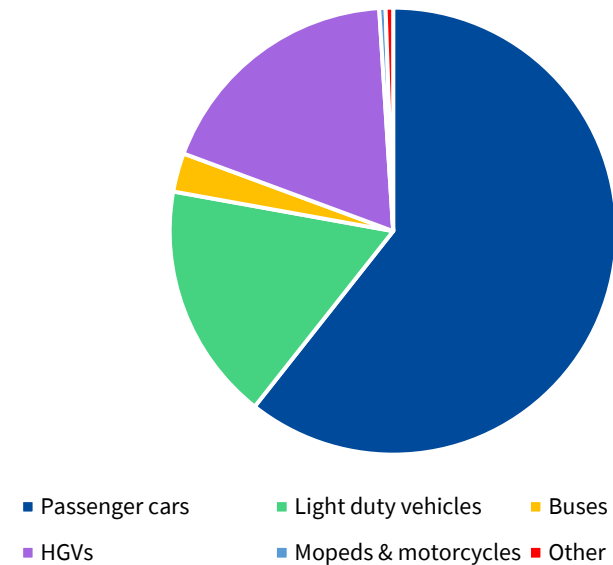
Transport Emissions represent about 27.5% of UK emissions with more than 90% of these coming from road transport.

- Cars dominate the fleet 82% of vehicles and 61% of emissions
- Vans, Buses and HGVs have a disproportionate impact because of their usage and size.

Vehicle Stock By Vehicle Type



Road Emissions By Vehicle Type



What is Being Done?

Legislation

Passenger Cars and Light Commercial Vehicles

- 2030 ban on anything without “significant zero emission range”.
- 2035 all new cars must be fully zero emission at the tail pipe.

HGVs

- Voluntary commitment to reduce emissions by 15% by 2025
- Consultation planned on HGV diesel phase out

Transport Emissions

- Included in reporting schemes like ESOS
- Included in net-zero by 2050

Business Action

Passenger Cars and Light Commercial Vehicles

- Centrica survey identified £12bn in planned electrification investment
- UK Electric Fleets Coalition (2030 ICE phase out) and Clean Van Commitment (ICE out of cities by 2028).

HGVs

- Individual commitments to biogas and forward/low volume purchases of zero emission vehicles.

Transport Emissions

- Incorporated in net-zero commitments from multiple public and private sector stakeholders

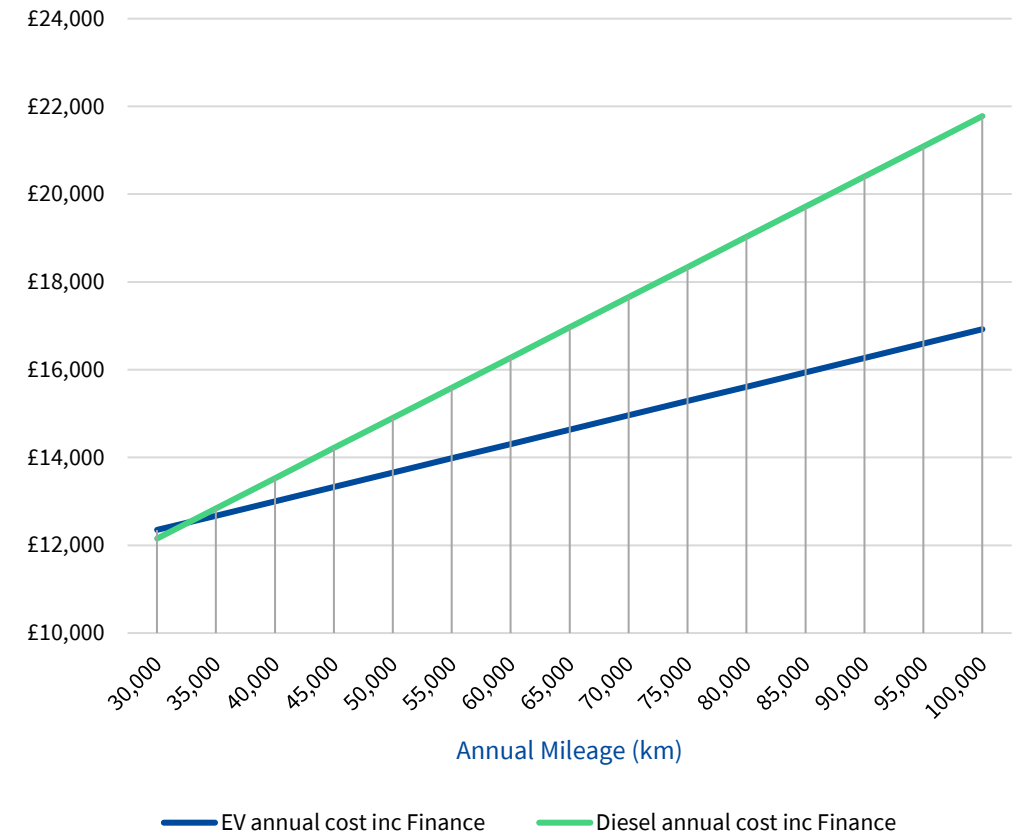
Passenger Cars and Vans

Decarbonisation Options

- EVs business case in many segments already, local infrastructure challenges likely.
- Modal shift also an option (e.g. portering and e-cargo bikes)



Annual Cost Comparison – Vauxhall Vivaro

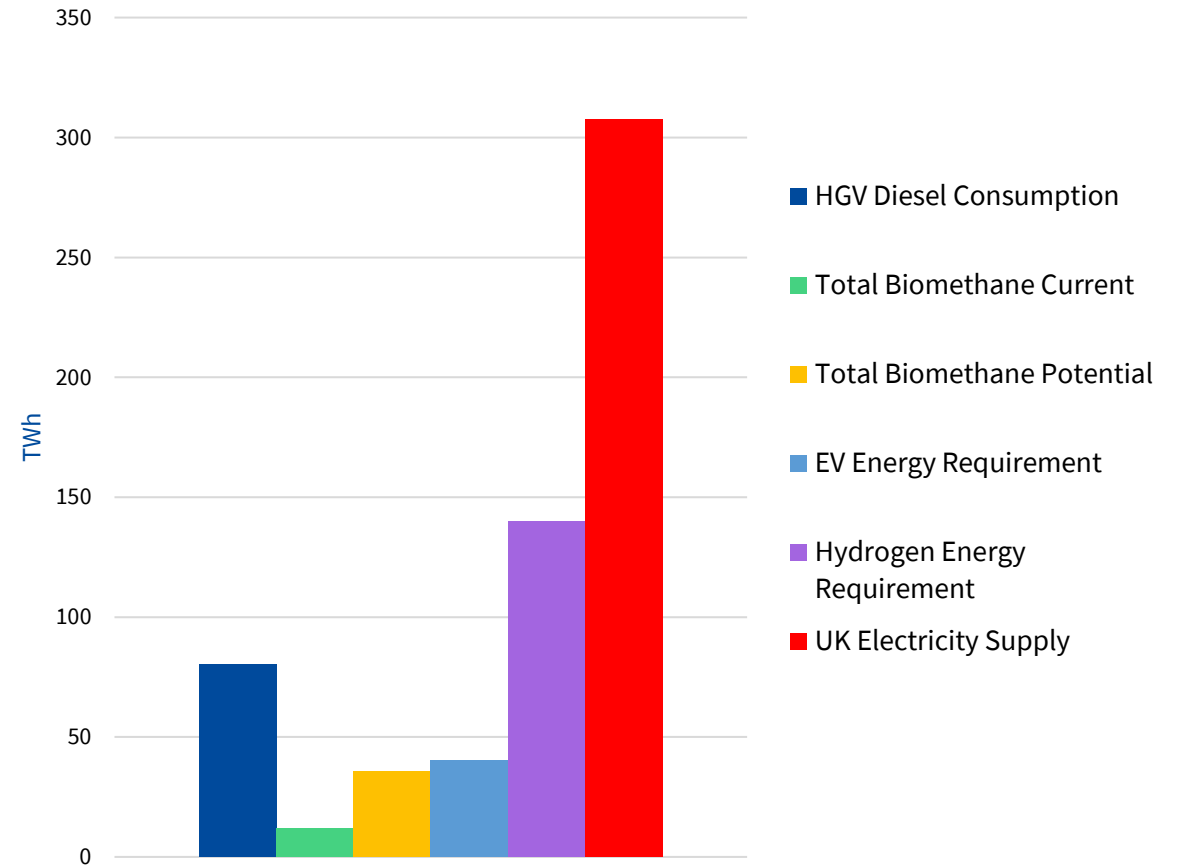


Technology Readiness

- Technologies emerging but energy intensity a challenge.
- All options will require centralised intervention in infrastructure.
- Modal shift to rail an option in some cases.



Annual Energy (TWh)



Why make the transition “smart”?

Electricity Generation

300 TWh
Supplied Today



+240 TWh for full
electrification of road
transport

System Capacity

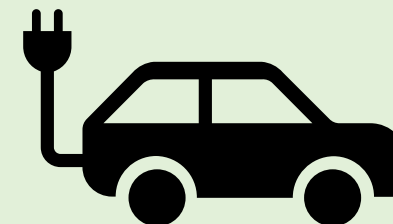
60GW peak
demand Today



+18GW from
cars alone

Vehicles & Chargers

302k Plug in
Vehicles Today



+39m vehicles
in the fleet

Flexible Power Systems (FPS)

FPS is a technology company that will underpin supply chains of the future by helping companies navigate the energy transition. We combine data analytics with technical and operational expertise to deliver unique solutions to our customers.

Click To Find Out More:



0207 8464611

Sign up to our [Newsletter >](#)