Decarbonising the transport sector

141 governments have now ratified the Paris Agreement setting the global target to reduce greenhouse gas emissions and keep global temperature rise below 2°C.

Transport represents almost 1/4 of global greenhouse gas emissions and is the main cause of air pollution in cities. Decarbonising transport is therefore instrumental in achieving the commitments set out by the Paris Agreement.

**The challenge**

- **EVs**
- Car sharing

**Innovations**

- EVs
  - Range exceeding 300km
  - Market value of $28.2 billion by 2025

- **Car sharing**
  - 4.8 million members in 2016
  - 33 countries across 5 continents

- **Biofuels**
  - 12% of transport fuel by 2030
  - Global production dominated by US and Brazil

- **Funding**
  - £18 million investment in EV infrastructure by Transport for London
  - Governments investing in EV-friendly cities

**Solutions**

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**Decarbonising transport**

- 35% of world’s new car sales will be EVs by 2040
- Transport for London investing £18 million in EV infrastructure between now and 2020
- Beijing will replace its 67,000 petrol-powered taxis with EVs by 2030
- Norway has opened the world’s largest fast-charging station, which can charge up to 28 vehicles in about 30 minutes
- Nissan and BMW are working together to set up public DC fast charging facilities at 120 locations across 19 states in the US
- Worldwide plug-in vehicle sales in 2016 were 773,600 units - 42% higher than for 2015
- China led the EV market in 2015, overtaking the US for the first time
- The total cost of ownership of EV will fall below those with internal combustion engines by 2022

**EV battery costs**

- EV battery costs have been cut by a factor of four since 2008
- EV battery prices could be lower than $100 per kilowatt-hour by 2020

**Biofuels**

- 72% of the world’s transport fuel will come from renewable sources by 2050