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Reducing Emissions from the Transport Sector

Scale of Transport Emission Reduction Target



- Transport: ~20% national emissions: must play a key role in the national decarbonisation effort.
- Tasked with plotting a pathway to reduce transport emissions by **51% by 2030**.
- **COVID-19**: there was a **reduction of around ~17%** in transport emissions as compared to the previous year.
- Demographic and economic growth expected out to 2030: **increased travel demand**.

Achieving Short and Long Term Goals

- Ultimate objective: carbon neutrality by 2050 (longer-term goal). Interim challenging goal: 51% reduction by 2030.
- Actions to achieve the **longer-term goal** need to be commenced now but their full climate benefit may not be felt until later e.g. **land-use/transport integration; rail freight; enhanced public transport, walking and cycling networks**.
- Meantime, other actions can achieve significant emission savings **in time and at scale** to reach the 2030 target e.g. increased **electrification** of vehicles and increased blends of **biofuels** in the national fuel mix. (Note: biofuels will only have a marginal emission savings benefit in 2050).
- Technical work suggests reaching the **2030 target is achievable....**but involves considerable changes in trends and behaviours as well as significant costs.

Two Parallel Targets:

2050



Longer Term Goal

2030



Interim Challenging Goal

Potential Pathway to 51%

Mitigation Measure in 2030	2030	2025	Emission saving in 2030
Growth 			+1.4 MT CO _{2eq}
Technology 	945,000 EVs	175K cars 20K vans 300 buses 350 HGVs	-5.01MT CO _{2eq}
Fewer ICE kms 	c.26%	TBD	-1.47 MT CO _{2eq}
Biofuels 	B20:E10	B12:E10	-1.06 MT CO _{2eq}
Total Emission Savings in 2030			-6.14 MT CO_{2eq}

Opportunities and Challenges

Measure	Opportunities	Challenges
	<ul style="list-style-type: none"> ○ Increasing public engagement and awareness. ○ Better work/life balance. 	<ul style="list-style-type: none"> ○ Catering for demand while still halving transport emissions.
	<ul style="list-style-type: none"> ○ EVs are a mature technology – less risk. ○ Forthcoming stringent CO₂ standards. ○ Improvements in air and noise pollution. 	<ul style="list-style-type: none"> ○ Supports likely until TCO (when?)- significant costs. Is it just to subsidise new car owners? ○ Production levels. ○ Supply of green electricity.
	<ul style="list-style-type: none"> ○ Liveable/sustainable communities. ○ Improvements in air quality. ○ Health benefits. 	<ul style="list-style-type: none"> ○ Speed and scale of required behavioural change. ○ Urban & rural challenges. ○ Economic impact. ○ Lead times for large-scale public infrastructure projects.
	<ul style="list-style-type: none"> ○ 'Invisible' measure. ○ Legacy ICE vehicles. 	<ul style="list-style-type: none"> ○ Sustainability and sourcing concerns. ○ Competition with aviation. ○ Fuel costs - competitiveness issues.

Key Messages



- Transport: >20% national emissions – must play a key role in decarbonisation effort.
- Transformational change needed to achieve PfG 2030 target in transport sector and to place us on the right path for 2050.
- Technical work suggests **51% target is achievable**. Would involve:
 - Marked changes in personal travel patterns;
 - Significant EV sales; and
 - Higher levels of biofuel blending.
- The changes would support several goals but have significant challenges and costs (to households, businesses and the Exchequer).
- Going beyond 51% would exacerbate distributional impacts and achieving a just transition.