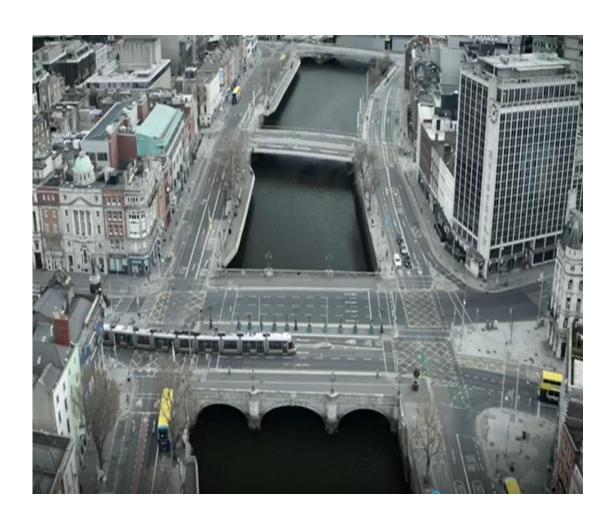


Reducing Emissions from the Transport Sector

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 <u>longer-term goal</u> need to be commenced now but their full climate benefit may not be felt until later e.g. <u>land-use/transport integration</u>; rail freight; enhanced public transport, walking and cycling networks.
- Meantime, other actions can achieve significant emission savings <u>in time and at scale</u> 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:





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 (80) (car Share	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
7779	Increasing public engagement and awareness.Better work/life balance.	 Catering for demand while still halving transport emissions.
G	 EVs are a mature technology – less risk. Forthcoming stringent CO₂ standards. Improvements in air and noise pollution. 	 Supports likely until TCO (when?)- significant costs. Is it just to subsidise new car owners? Production levels. Supply of green electricity.
	Liveable/sustainable communities.Improvements in air quality.Health benefits.	 Speed and scale of required behavioural change. Urban & rural challenges. Economic impact. Lead times for large-scale public infrastructure projects.
BIO	 'Invisible' measure. Legacy ICE vehicles.	 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.