Transport bioenergy

The role of biogas and bioliquids for climate action in transport

James Cogan - Ethanol Europe

IrBEA National Bioenergy Conference

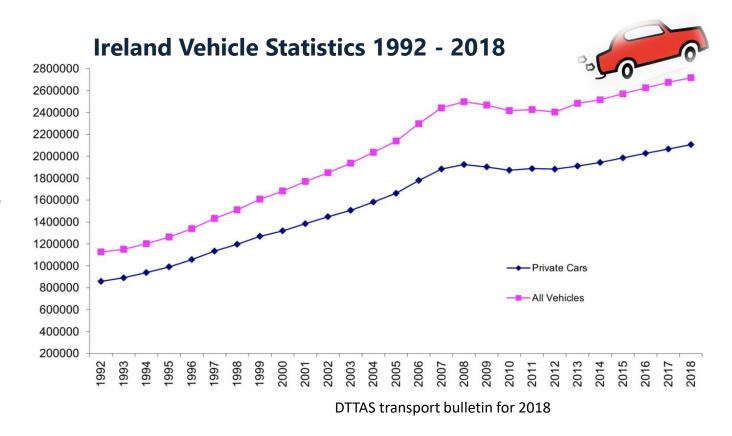
26 February 2020

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Ireland transport energy

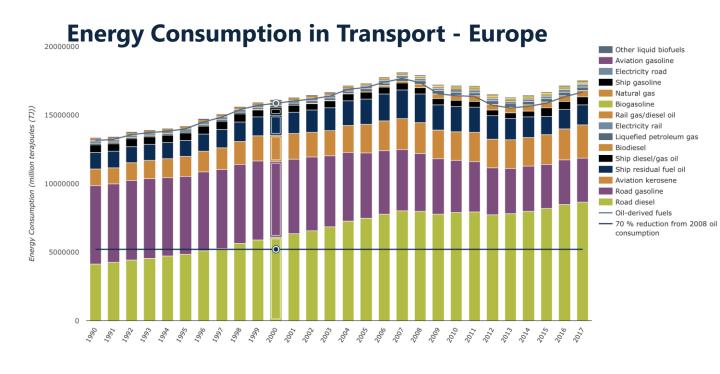
- Steady 2% fleet growth
- Energy demand up 3% pa
- Emissions up 3% pa
- 284,000 registrations last year
- Just 1 in 60 is EV/PHEV
- Fleet grew 42,000
 - Net of de-registrations





Similar Picture in Europe

- Transport energy demand tracking economic output
- Fleet grew 40 million units in last decade
- Oil demand and emissions up 33% since 1990
- Not much different in the rest of the world!



www.eea.europa.eu/data-and-maps/indicators/transport-final-energy-consumption-by-mode/assessment-10



Renewable transport energy Ireland

- Transport is 3% renewable*
 - ethanol, tallow, Used Cooking Oil
 - official figures higher due to "double counting"
- Petrol is at E5, 5% bioethanol blended into every litre
- Electricity 0.1%
- Biodiesel must drop by 1/3rd by law next year
 - to reduce fraud** involving virgin palm oil passed off as Used Cooking Oil

Final consumption of transport by fuel, Ireland 2018

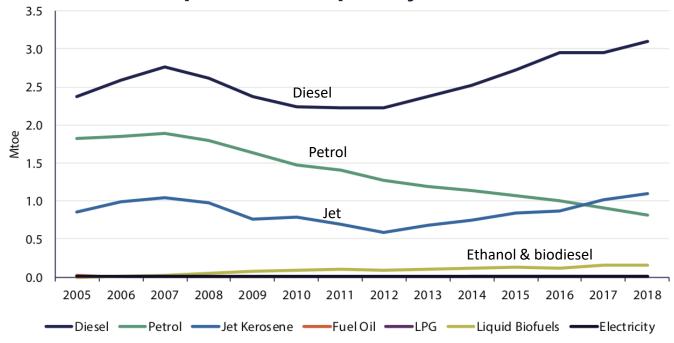


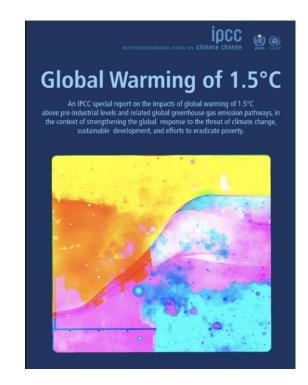


Table 7 - www.seai.ie/publications/Energy-in-Ireland-2019-.pdf

^{**} www.euractiv.com/section/all/news/industry-source-one-third-of-used-cooking-oil-in-europe-is-fraudulent/

Best available science

- UN Climate Report* 2018 says, for 1.5°C to be achieved
 - Oil will comprise half of transport energy in 2050
 - Electricity will account for a quarter
 - 15% or more from biofuels
- UN Land & Climate Report** 2019 says
 - Biofuels from the land vital for climate progress
 - Waste and excess consumption the big threats to sustainable land use
 - Good regulation essential in any case





Biomethane Opportunity for HGVs

- Renewable Natural Gas (Biomethane) economic option for HGVs, GNI starting to install CNG fuelling points
- Produced by AD from organic wastes and agricultural feedstocks
- Raw Biogas upgraded, injected into national Gas Grid
- IrBEA/Cre policy paper envisages 65 to 200 MW of renewable gas in Ireland by 2030, with a phased implementation across all regions
- One facility already capable in Kildare
- Inadequate incentive to-date

26th February 2020 Croke Park

- Could reduce GHG emissions by 9 % in transport sector by 2030
- Big co-benefits to struggling agriculture sector

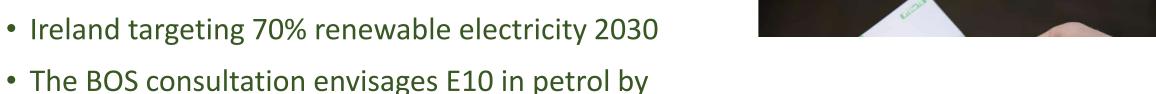
Prospects for 2030

- Climate Action Plan: 45-50% emissions cuts in transport and a million EVs per NECP
- Backdrop....emissions rising 3% pa
- No carrots or sticks proposed by any party in GE2020, lots of aspirations
- One million EVs by 2030 will cost €10 billion in grants and foregone tax

 The BOS consultation envisages E10 in petrol by 2030



Country was among first to declare climate emergency but health and housing take priority at ballot box





Immediate actions

- Introduce E10 ethanol immediately: It's a no brainer
- Establish 15% transport bioenergy strategy
 - in line with UN report indications
- Incentivise Biomethane deployment for diesel replacement in HGVS
- Recalibrate Biofuels Obligation Scheme to account for loss of 50 million litres of "fraudulent" Used Cooking Oil from Jan 2021
- Establish delivery taskforce to achieve
 - bringing focus and technology and regulatory skills
- De-incentivise continued use of fossil oils in transport, set realistic goals.

