ENERGY CCORK

Energy in Transport Activities

December 2019





Why Energy in Transport?

- A particular focus area for Energy Cork
- Responsible for 42% of Ireland's energy consumption (SEAI, 2018)
- >20% greenhouse gas emissions (CCAC, 2019)
- >90% dependent on imported oil for transport
- 10% RES Target for transport by 2020 (7.4% in 2017)
- Transboundary gas emissions (NOx, SOx, PMs), 1,200 deaths per year (EPA, 2019)
- Traffic congestion, quality of life, economic development

Networking on the Move!

- Ireland's first carbon neutral bus passengers Cork City to Ringaskiddy – 25th March 2019
- With Cork Chamber, Gas Networks Ireland, MaREI (UCC)



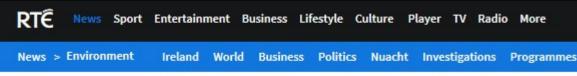
THE IRISH TIMES

Tue Apr 9 2019



Cork's 'green bus' to make maiden trip to Ringaskiddy

Eco-friendly journey to use biomethane in bid to play part in reducing carbon emissions



Passengers travel on 'green bus' in Cork trial













Ireland's Greenest Bus Fleet



















Comhairle Cathrach Chorcaí Cork City Council



The IGBF Proposal

- A green/low-carbon future for Cork City's Bus Fleet
- EVs/Hybrids/Natural Gas all options
- Market should decide based on life-cycle costs and environmental benefits
- ~120 vehicles transitioned to Green Bus technology
- CNG buses are a well tried and tested technology
- CNG technology allows for transition to renewable biogas in the medium term
- Renewable Biogas injection Co. Kildare, Mitchelstown
- CNG = natural gas compressed to <1% of normal volume

Realising the IGBF proposal

- DTTAS carried out extensive trials of Low Emission Buses in Cork and Dublin Q4 2018 – Q2 2019
 - Diesel (Euro IV, Euro V, Euro VI)
 - Micro-hybrid (diesel)
 - Electric-hybrid
 - Compressed Natural Gas and Biogas
 - Battery electric
 - HVO (biofuel)-hybrid
- Summary results present a mixed picture (more info needed) but electric, biogas and bio diesel hybrid buses look promising
- Full trial results to come

Realising the IGBF proposal

- Energy Cork will meet with NTA and DTTAS again to discuss next steps – Procurement
- No fully diesel buses procured after July 2019
- Bus journeys in Cork continue to increase
- LEV Buses are coming Cork can and should lead.

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THANK YOU

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