

Collaborative research for co-production of climate mitigation policy

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Presentation to RIA Symposium Better together – knowledge co-production for a sustainable society
3rd June 2021

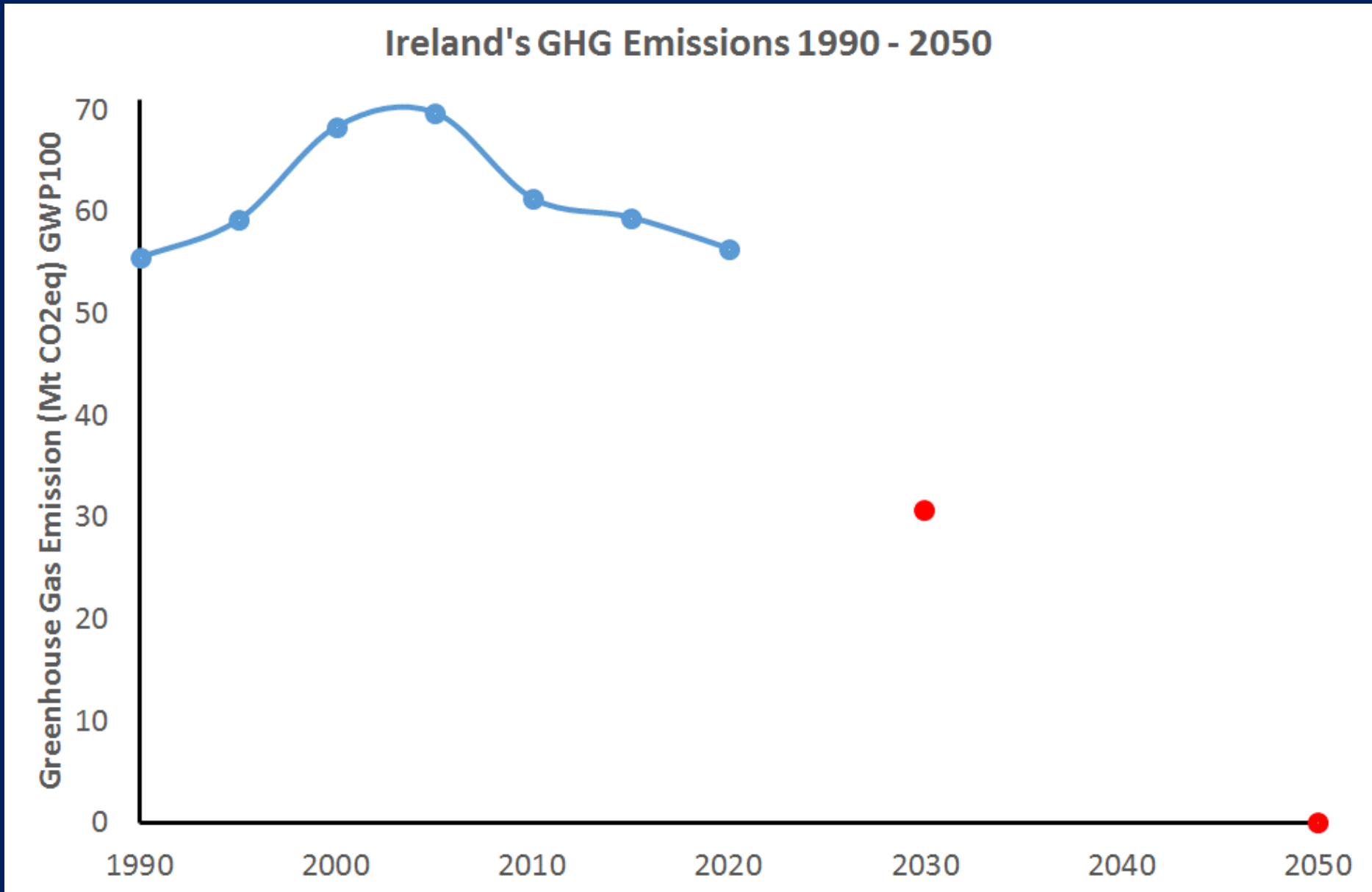
HOST INSTITUTION



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Context – Significant political ambition / COVID-19 experience



How has research informed climate mitigation policy?

1st Low Carbon
Roadmap

Climate
Legislation

EU Negotiations

White Paper

Research Policy

Mitigation
Plans

Climate Action
Plan 2019

Programme for
Government



Research and Policy – Towards Co-creation 1 – MaREI & DECC & CCAC

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Carbon Budgets 2021-2030:

A bridge from climate ambition to climate action


Brian Ó Gallachóir

Possible Carbon Budgets 2021-2030

Period	Carbon Budget (Mt CO2eq) GWP100
Carbon Budget 1 (2021-2025)	243 Mt
Carbon Budget 2 (2026-2030)	179 Mt

Different Pathways = Different Budgets 2021-2030

Title	Period	Clim-Bill-2021 Very Early	Clim-Bill-2021	Clim-Bill-2021 Very Delayed
CB ₁	2021-2025	213	243	273
CB ₂	2026-2030	159	179	199
CB ₁₊₂	2021-2030	372	422	472

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Research and Policy – Towards Co-creation 2 – MaREI & DTTAS

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Communities

March 31, 2021

Dataset

Open Access

Irish Car Stock Model V 2.4

Daly, Hannah; O'Riordan, Vera; Mulholland, Eamonn; Rogan, Fionn; Ó Gallachóir, Brian

Latest release of the Irish Car Stock Model Version 2.4

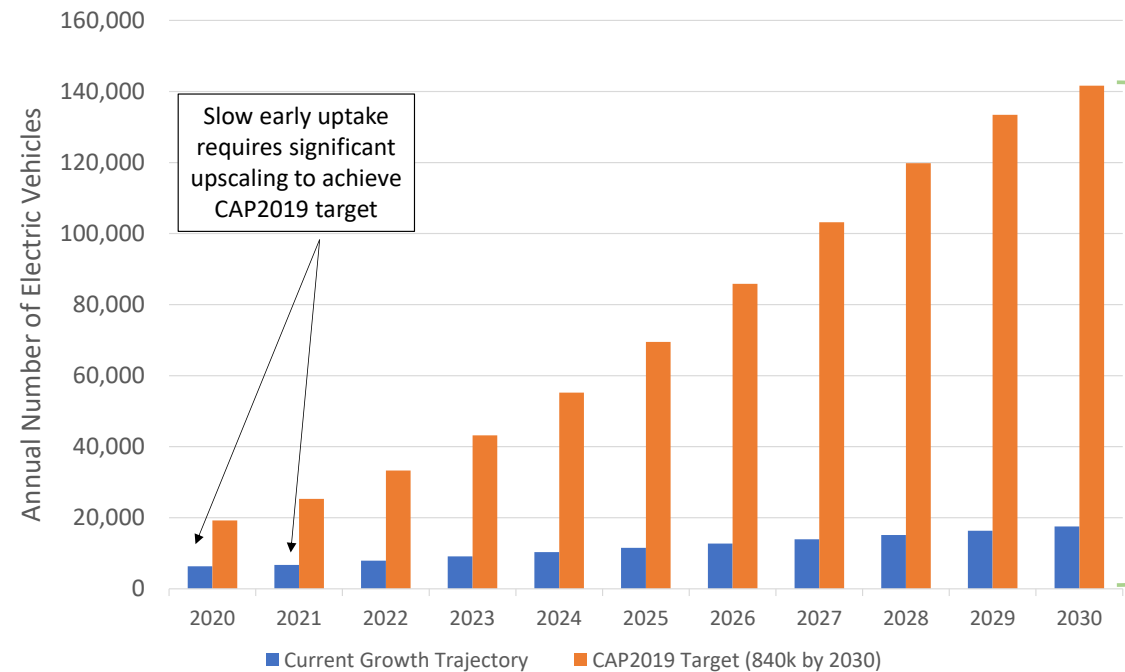
The Irish Car Stock Model was first developed by Daly and Ó Gallachóir (2011a), entitled "Modelling private car energy demand using a technological car stock model". It is available at: <https://doi.org/10.1016/j.trd.2010.08.009>.

Future scenarios were explored in Daly and Ó Gallachóir (2011b) entitled "Modelling future private car energy demand in Ireland", and is available at: <https://doi.org/10.1016/j.enpol.2011.09.027>

Further updates to the Irish Car Stock Model were developed by Mulholland et al. (2017), the article entitled "Techno-economic data for a multi-model approach to decarbonisation of the Irish private car sector" is available at: <https://doi.org/10.1016/j.dib.2017.10.006>.

Latest update is led by Vera O'Riordan, Hannah Daly, Fionn Rogan and Brian Ó Gallachóir.

Included in this repository is the latest version of the Irish Car Stock Model 2.4, current updates to the Irish C V 2.5 are ongoing.



Climate Action Plan 2019 target of 840k EVs by 2030 will require ~ 80,000 EV sales per year



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Research and Policy – Towards Co-creation – Insights

- **Researcher role** (inform, underpin, support, challenge, influence, lobby)
- **Listening skills key** (policy questions, policy needs)
- **Research integrity** (trust, confidence, independence, robust)
- **Communication skills** (translating research results to policy insights, infographics)
- **Time and patience** (train journeys, managing expectations, calmness)
- **Absorptive capacity** (time and willingness of policy system)
- **Secondments** (both directions)



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