

Identifying technology opportunities in the low carbon energy transition

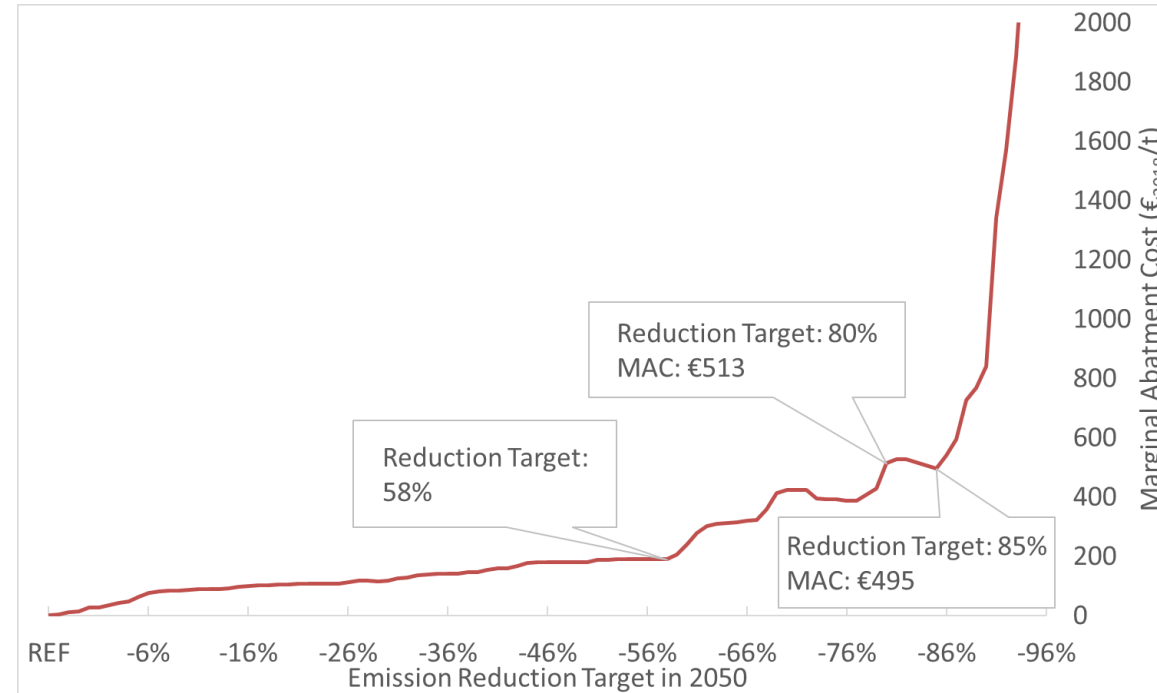
Xiufeng Yue, Fionn Rogan, Brian O'Gallachoir

Our 2050 – Final-Project Event, Fitzwilliam Hotel, Dublin | Dec 10th 2018

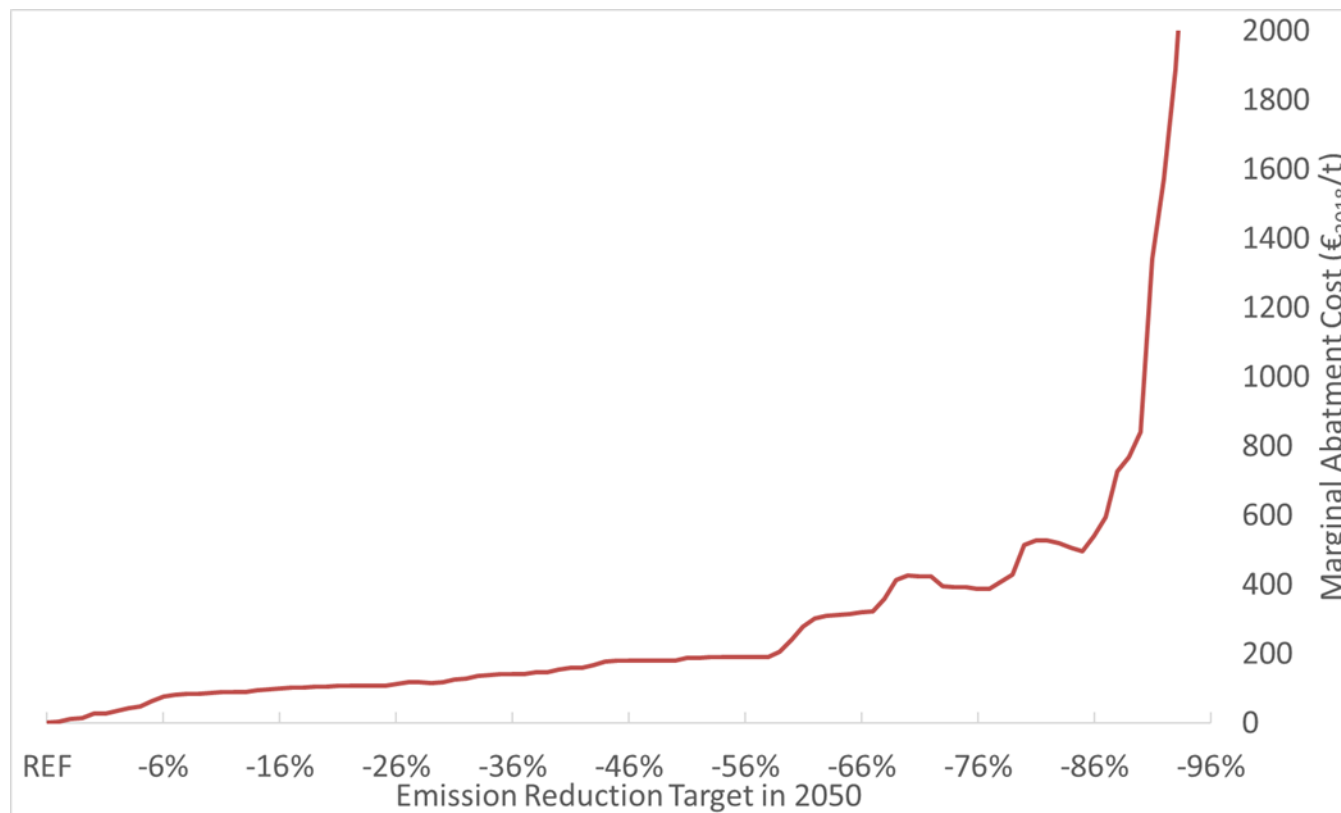


Results – Marginal Abatement Cost Curves (MACC)

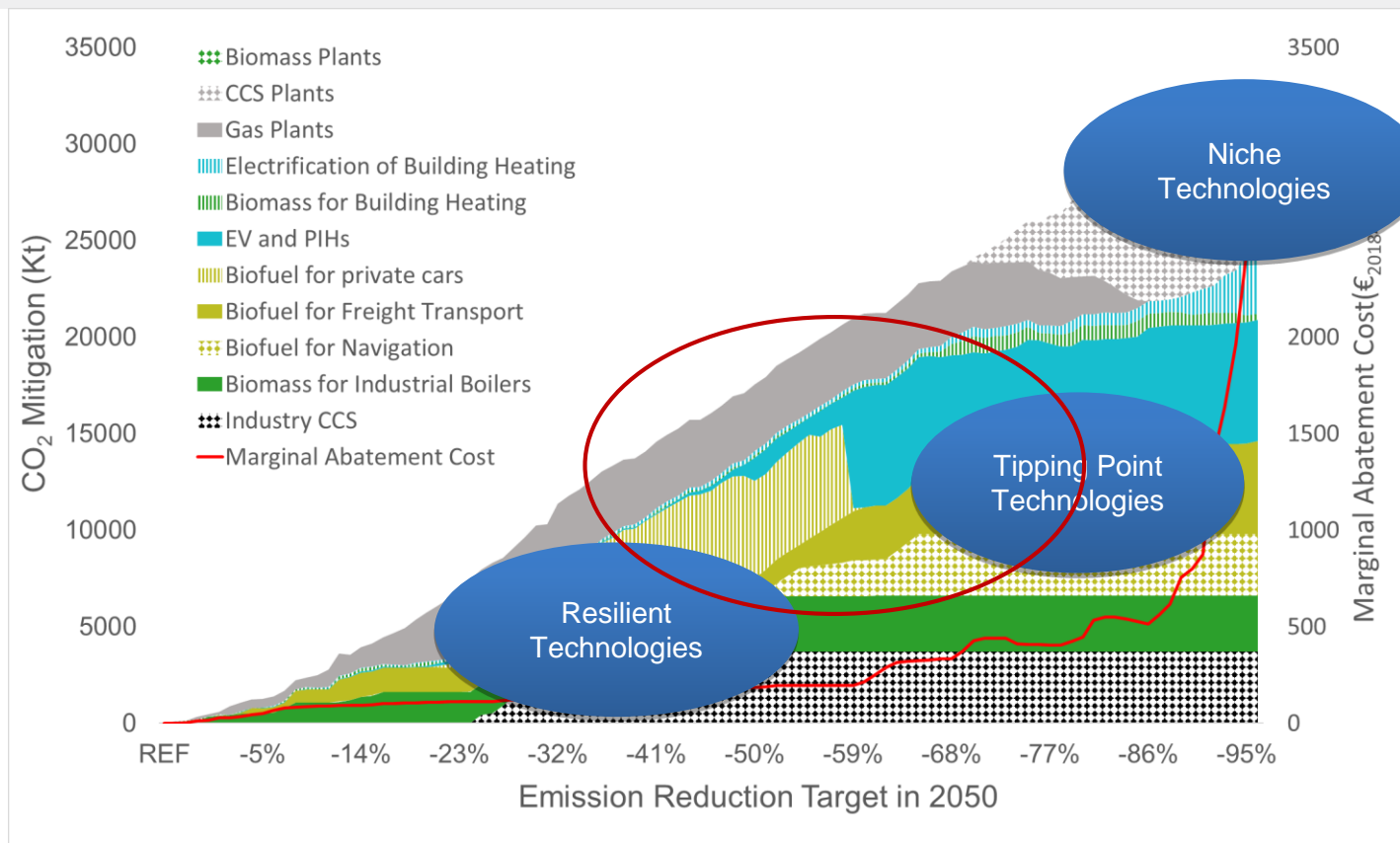
- Irish TIMES model with enhanced capacities
- Impose increasingly more stringent mitigation targets (100+ scenarios)
- Linking carbon costs in all scenarios to obtain MACC



Technology Opportunities

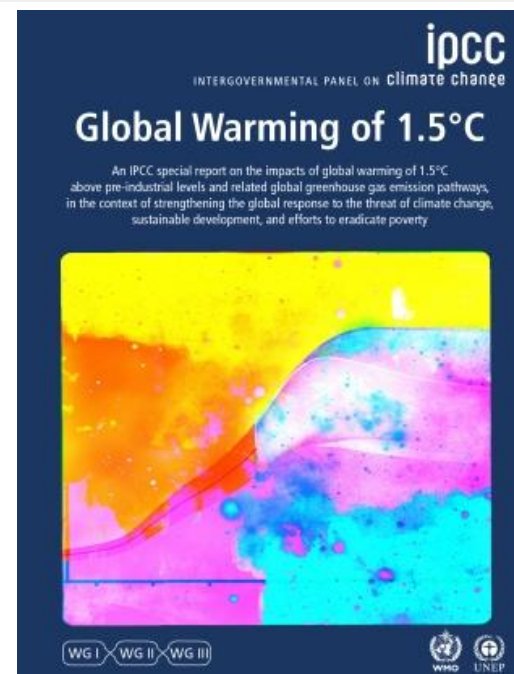


Technology Opportunities



Impacts

- Model based MACCs **improve existing policy tools**
 - *More robust insights from TIMES model*
 - *Strengthen shortcomings of MACCs*
- Scenario ensembles **affect policy making for 1.5°C**
 - *How close to 1.5°C target can be achieved*
 - *What extra efforts are required*



[Limiting Global Warming to Well Below 2 °C: Energy System Modelling and Policy Development](#) pp 191-205 | [Cite as](#)

From 2 °C to 1.5 °C: How Ambitious Can Ireland Be?

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