

Will Ireland remain within the 1st Carbon Budget?

13th MaREI Climate and Energy Research Seminar ESRI, Dublin June 16th 2025

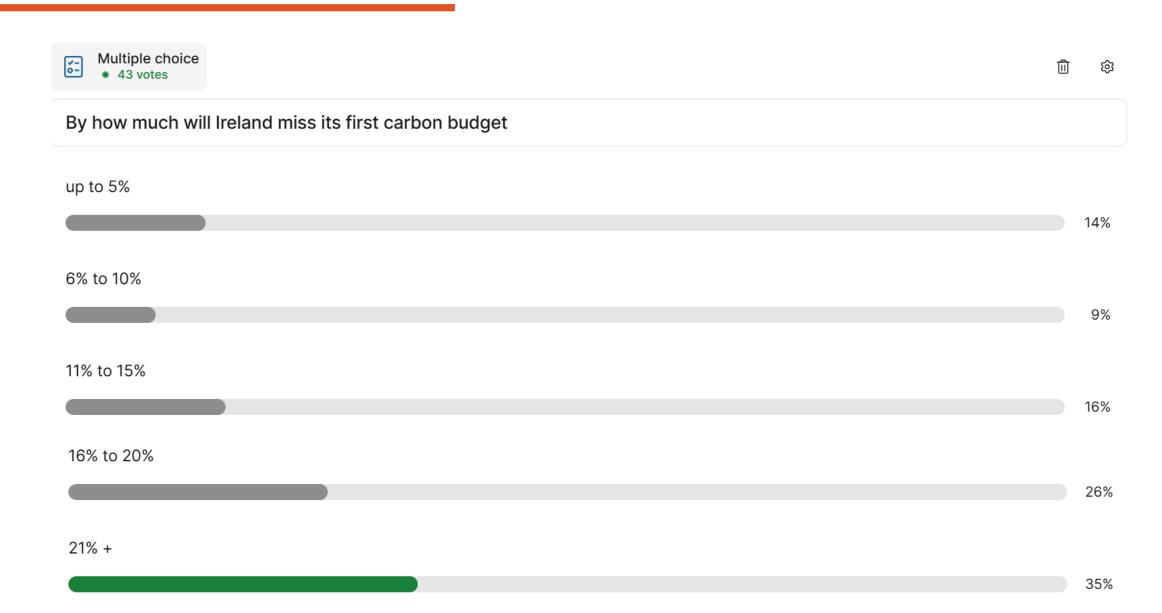
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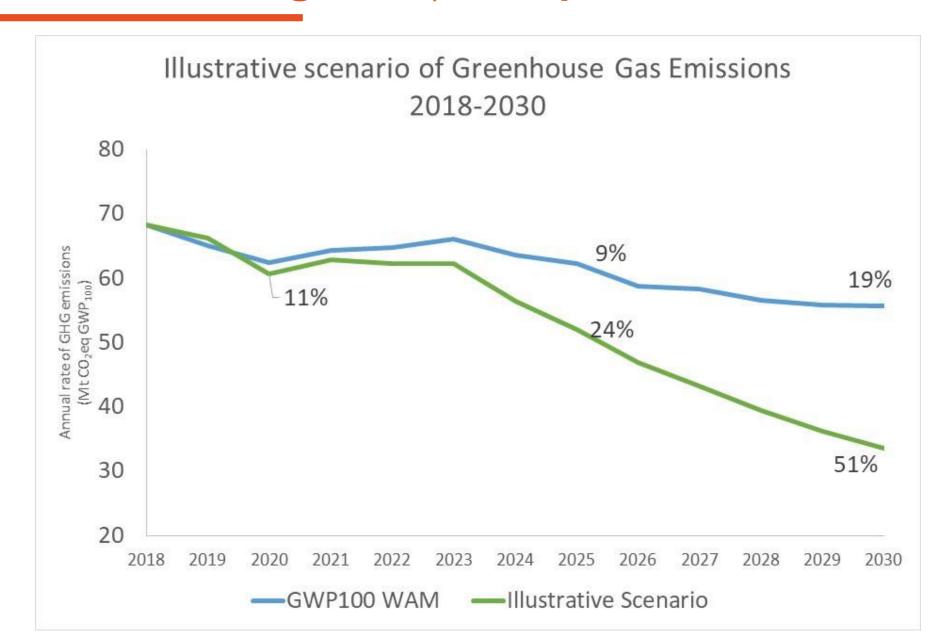
Audience Poll



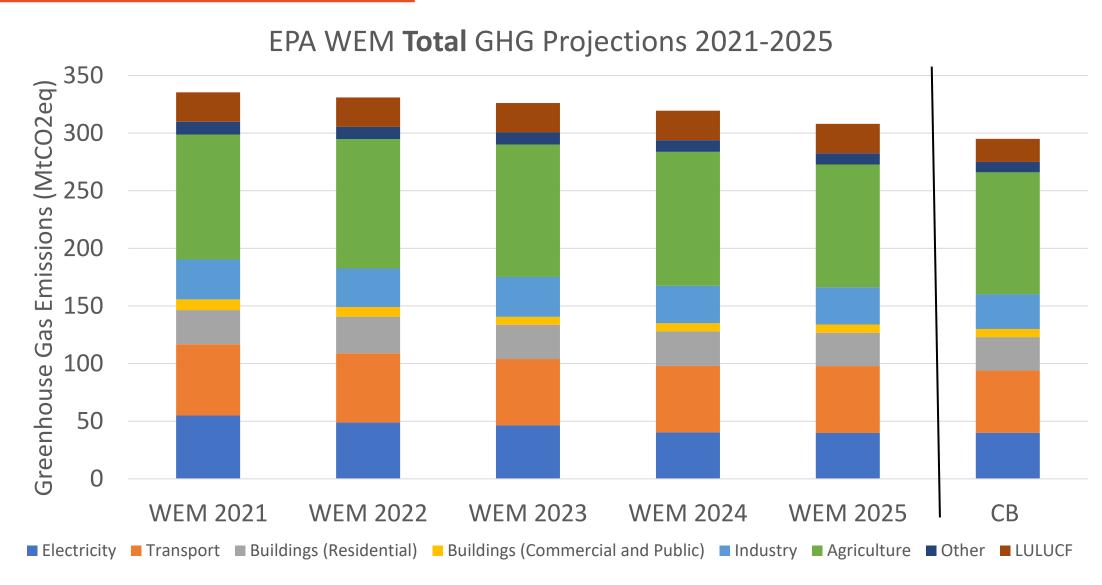
Context

- ➤ GHG emissions projected to be 9% 23% below 2018 levels by 2030 compared with 51% target;
- ➤ There have been significant external shocks in the period 2021-2025 including COVID 19 and geopolitical upheavals;
- Much of the current commentary suggests that carbon budgets are unachievable with focus on period to 2030;
- Limited discussion on progress towards 1st carbon budget in terms of sectors or budget overall;
- > This is an initial assessment and not a full ex-post analysis.

Illustrative Carbon Budget Trajectory (CCAC 2021)

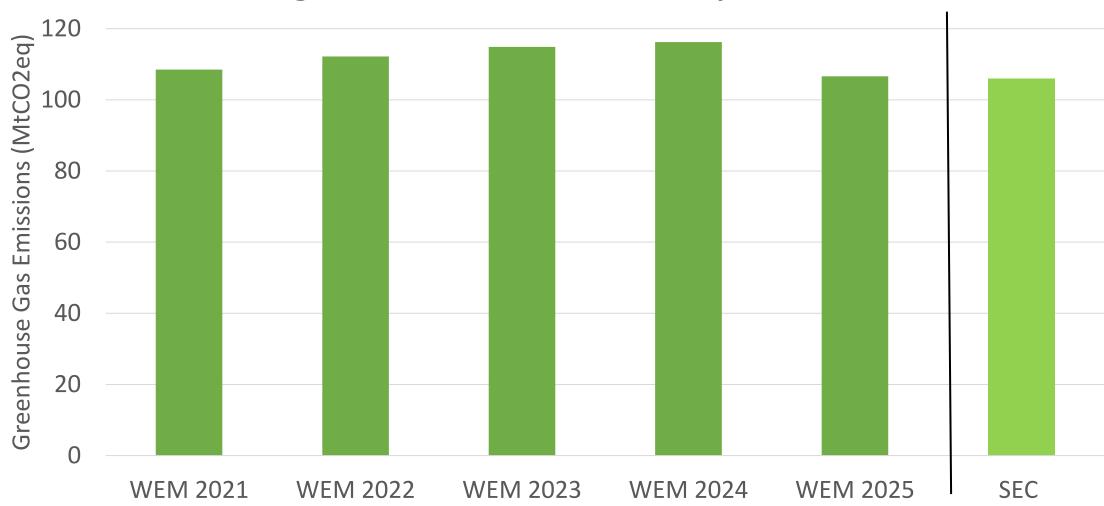


Carbon Budget



Agriculture

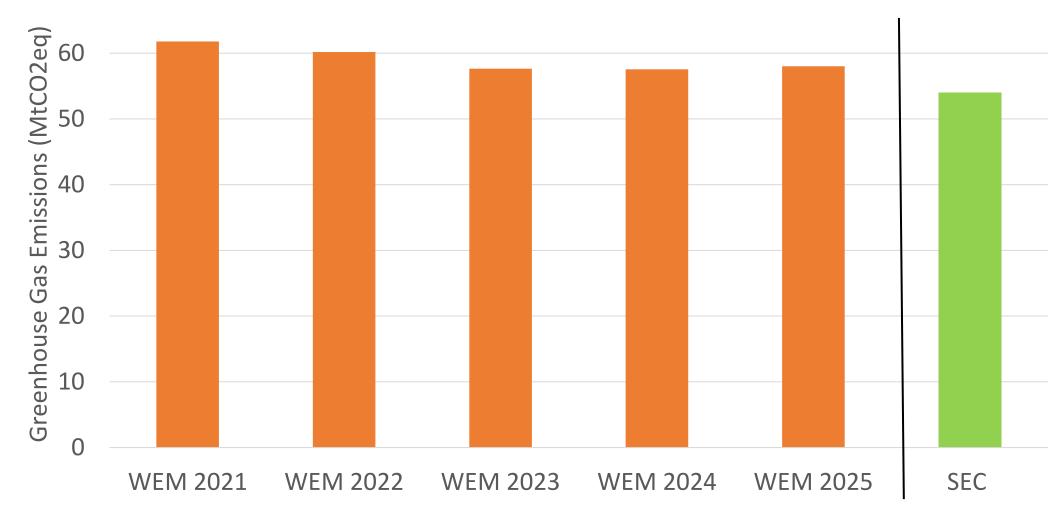




2% reduction between 2021 and 2025 ... WEM 2025 projection 0.6% above SEC ... Inventory and fertiliser

Transport

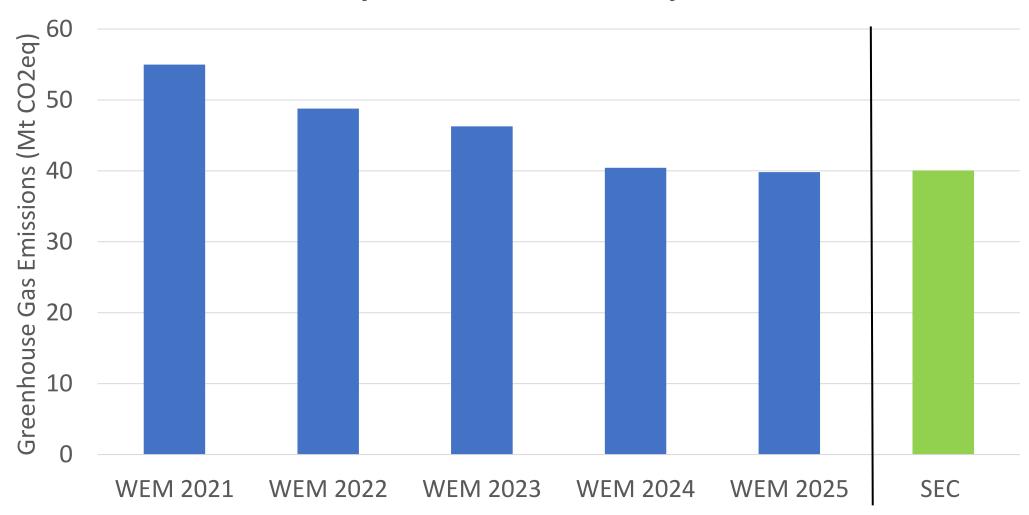
EPA WEM **Transport** Sectoral Emissions Projections 2021-2025



6% reduction between 2021 and 2025 ... WEM 2025 projection 7.4% above SEC ... Significant system inertia

Electricity

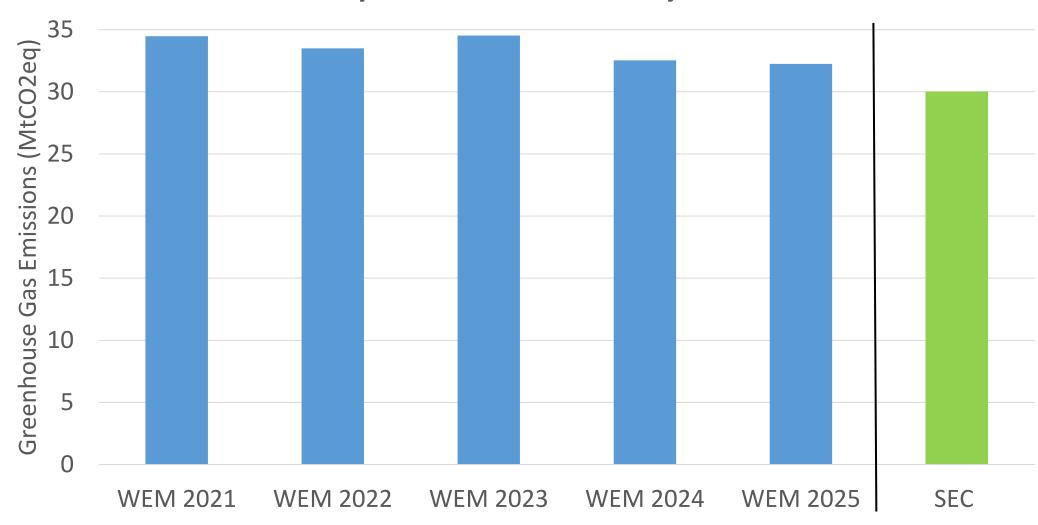
EPA WEM **Electricity** Sectoral Emissions Projections 2021-2025



28% reduction between 2021 and 2025 ... WEM 2025 projection 0.4% below SEC ... Electricity imports

Industry

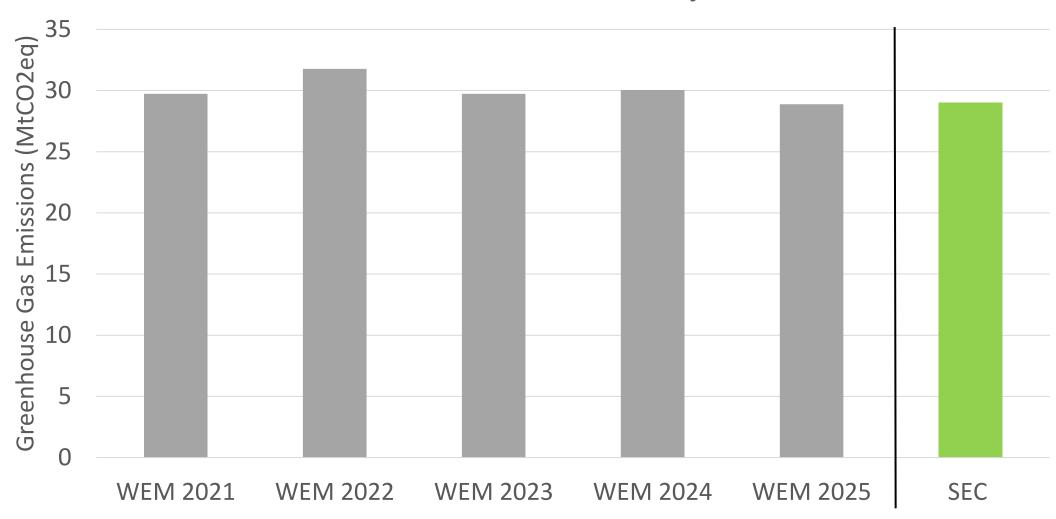
EPA WEM Industry Sectoral Emissions Projections 2021-2025



6% reduction between 2021 and 2025 ... WEM 2025 projection 7.5% above SEC ... Includes process emissions

Residential

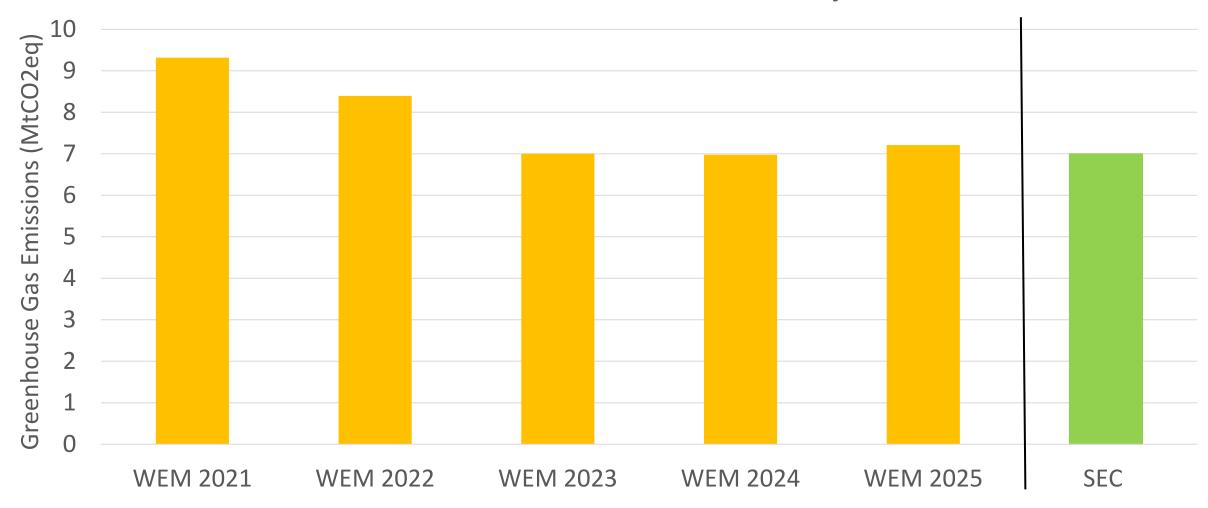
EPA WEM Residential Sectoral Emissions Projections 2021-2025



3% reduction between 2021 and 2025 ... WEM 2025 projection 0.4% below SEC ... Retrofitting, prices and growth

Commercial and Public

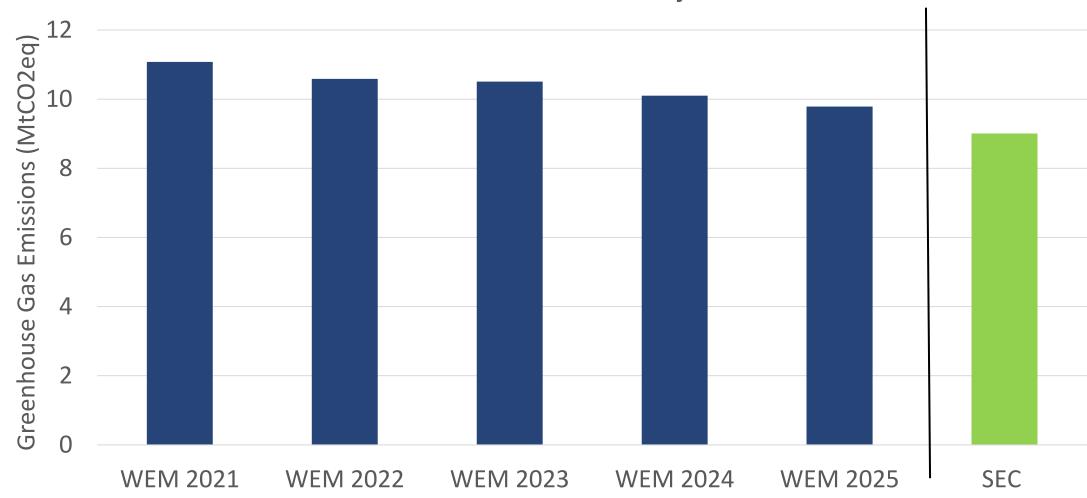
EPA WEM Commercial & Public Sectoral Emissions Projections 2021-2025



23% reduction between 2021 and 2025 ... WEM 2025 projection 3% above SEC ... Retrofitting, prices and growth

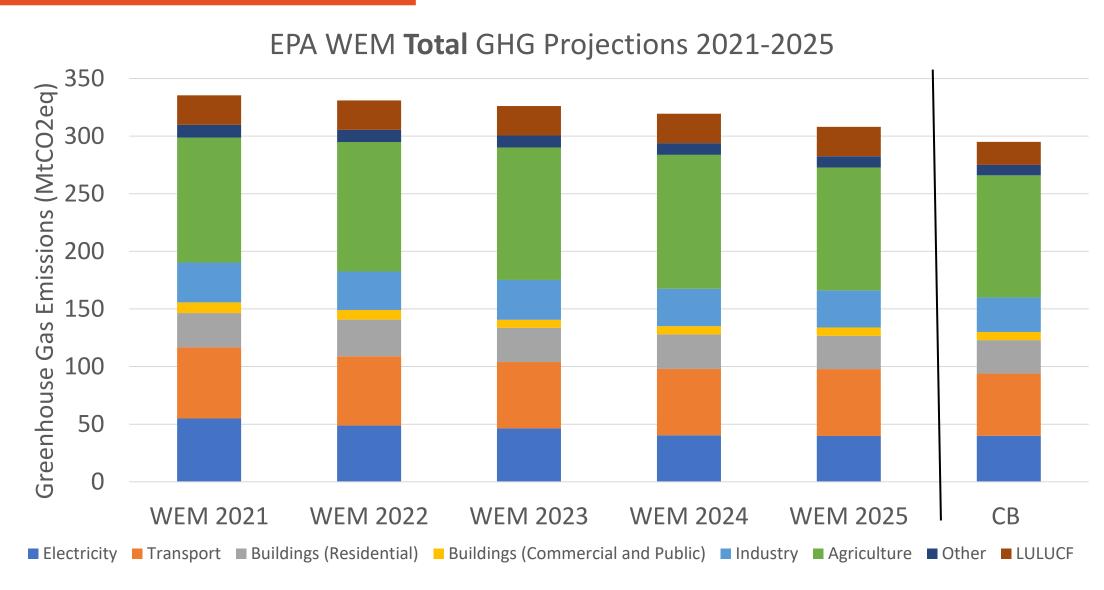
Other





12% reduction between 2021 and 2025 ... WEM 2025 projection 8.8% above SEC

Carbon Budget



Closing Comments

- Since 2021, we have closed the gap to meeting the 1st carbon budget from 14% (40 Mt) to 4% (13 Mt);
- There have been many factors pushing the emissions up and down over this period;
- While most discourse commentary suggests that carbon budgets are unachievable, we are very close to meeting the first carbon budget;
- It is possible to meet the second carbon budget but unclear whether political or societal will is there to do so;



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