

Greenhouse gas emissions projections 2022-2040

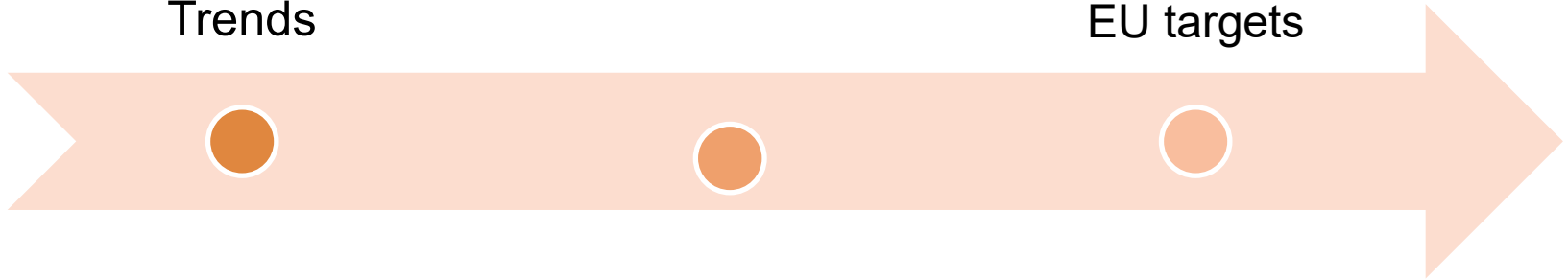
Overview



Highlights and
Trends

EU targets

National targets,
budgets and ceilings



EPA Climate Activities and Collaboration



Environmental Assessment & Strategic Environmental Assessment



Emissions Statistics



Climate Research



Emissions Trading & Registry



Industrial & Chemical Regulation



Intergovernmental Climate Science



Resource Efficiency & Behavioural Change

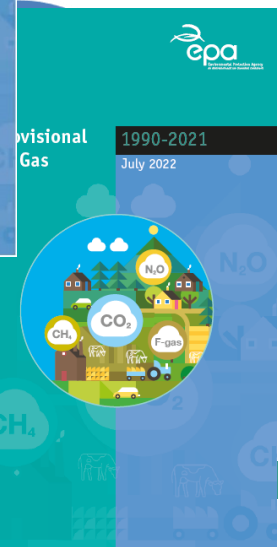
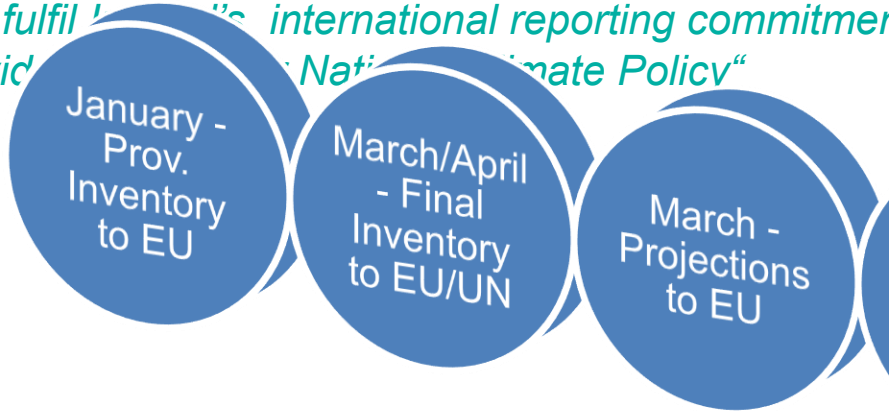


Climate Dialogue and Climate Ireland

Emissions Statistics role



“Produce Greenhouse gas and Air Pollutant Inventories to fulfil Ireland’s international reporting commitments and provide evidence for National Climate Policy”





Ireland will achieve a reduction of 29 per cent in Greenhouse Gas (GHG) emissions by 2030 compared to a target of 51 per cent



Almost all sectors are projected to breach **their sectoral emissions ceilings** for 2025 and 2030 including Agriculture, Electricity, Industry and Transport. Carbon budgets are also projected to be exceeded



New 2030 EU Effort Sharing emissions reduction target of a **42%** reduction, will require full implementation of CAP 2023 plus additional emissions reduction measures

Scenarios WEM and WAM



With Existing Measures

Measures **committed** to by Government. Measure must be in place before the end of the latest Inventory year.

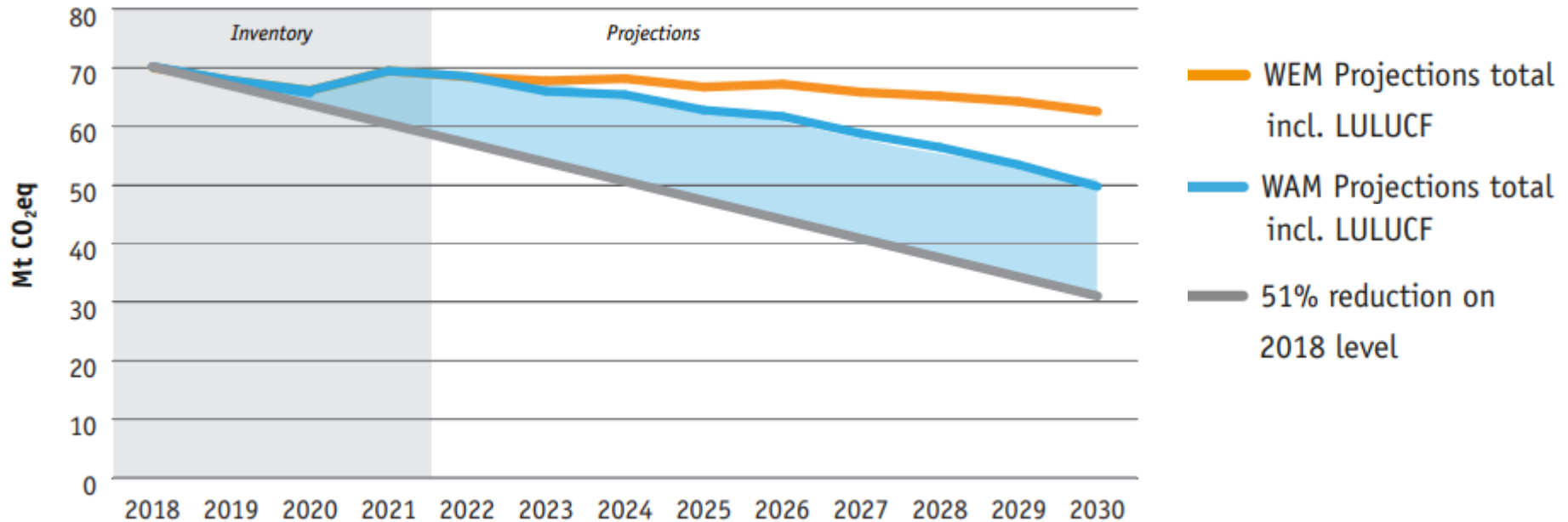
Certainty = Law; Agreement; Financial/Human Resources, Official Gov Decision

With Additional Measures

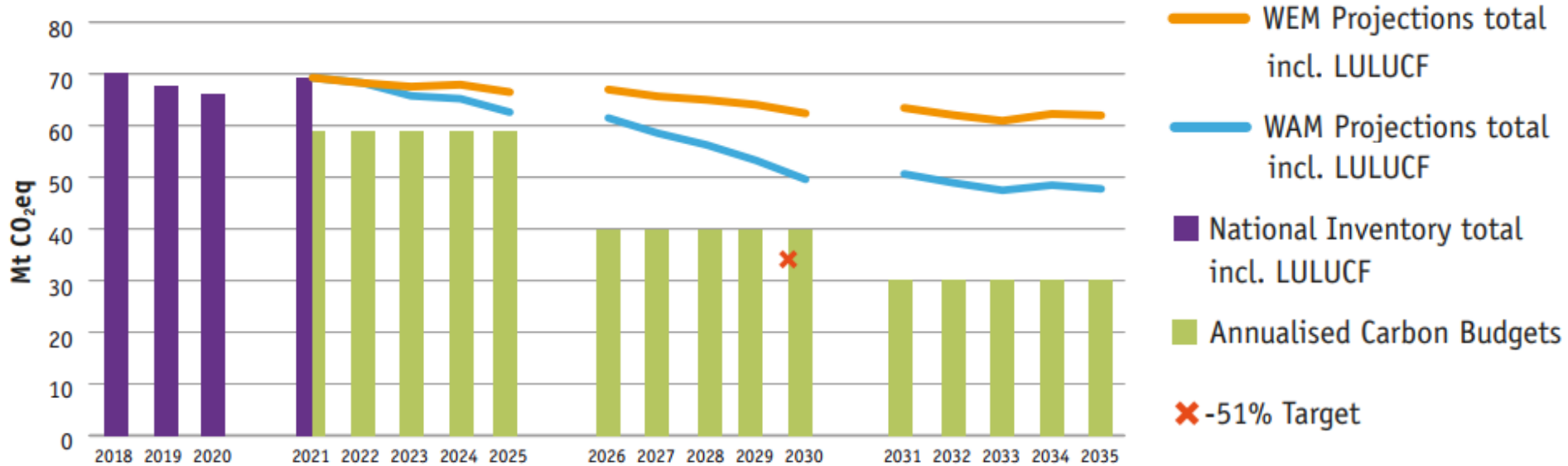
Assumes implementation of the WEM in addition to measures in Government **Plans** such as CAP 2023

Plans with an implementation pathway that can be modelled.

Compliance – National Target of 51% reduction



Projections and Carbon budgets

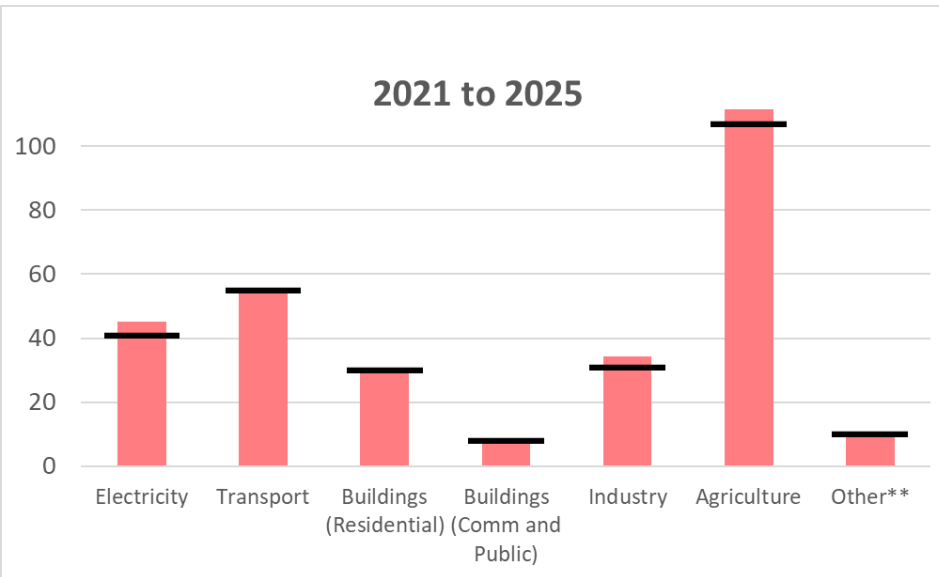


Assessment of Achievement of Sectoral Targets

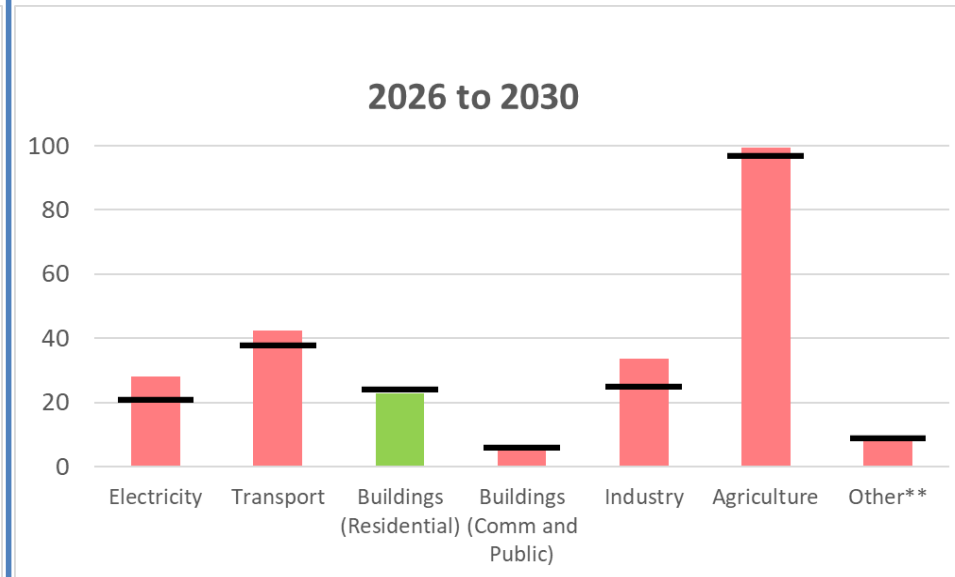


| Sectors | Emissions 2018 (Mt CO ₂ eq) | Projected Emissions 2030 (Mt CO ₂ eq) | Percentage Reduction 2030 vs 2018 | Target Reduction 2030 vs 2018 |
|-------------------------------|---|--|---|-------------------------------------|
| Electricity | 10.3 | 3.9 | -62% | ~-75% |
| Transport | 12.2 | 7.2 | -41% | ~-50% |
| Buildings (Residential) | 7.1 | 3.7 | -48% | ~-40% |
| Buildings (Comm and Public) | 1.5 | 0.8 | -50% | ~-45% |
| Industry | 7.0 | 6.2 | -11% | ~-35% |
| Agriculture | 23.4 | 19.0 | -19% | ~-25% |
| Other ¹⁹ | 2.2 | 1.7 | -21% | ~-50% |
| LULUCF (no ceiling currently) | 6.3 | 7.2 | 15% | N/A |
| Total with LULUCF | 70.0 | 49.7 | -29% | -51% |

Sectoral Ceiling Achievement



Total budget = 295 Mt CO₂ eq



Total budget = 200 Mt CO₂ eq

CAP 23 Policies and Measures not Modelled



- Unallocated savings of 5.25 Mt CO₂ eq per annum 2026-2030
- Full GW targets for Onshore Wind and Solar PV, but RES-E target of 80% share achieved
- 1.2 GW of the full 2GW target for flexible gas generation is modelled
- Measures aimed at achieving emissions savings from a decrease in embodied carbon (0.4 Mt CO₂ abatement by 2030)
- Full targets for 70-75% share of carbon neutral heating in Industry (60% modelled)
- Agriculture diversification measures annual savings of 1.5 Mt CO₂ eq by 2030

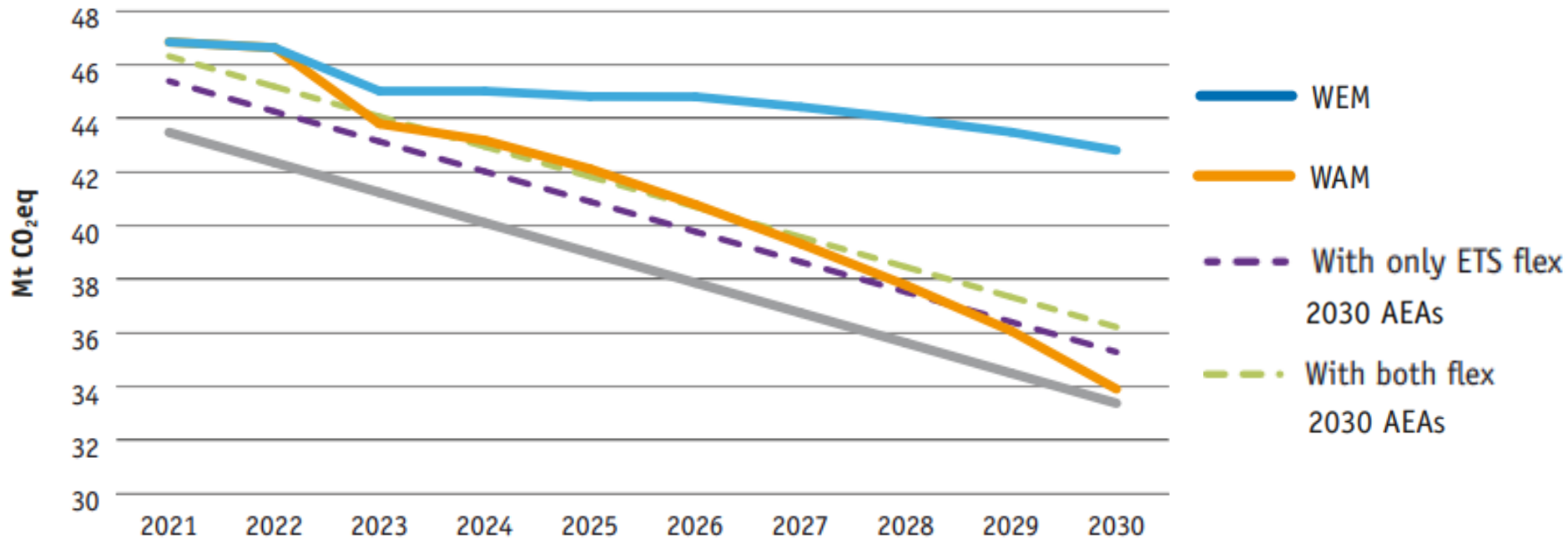
~9 Mt CO₂ eq total saving based on CAP 2023 calculations

Compliance – EU Targets



- Original target of 30% reduction by 2030 is projected to be met under the WAM scenario, using the available flexibilities
- New 42% reduction target by 2030 now in place but binding annual limits yet to be fully implemented
- Assessment made against existing Annual Emission Allocations for the moment

Compliance – EU Targets





More Sectoral detail to
follow...