

Greenhouse gas Projections 2020

- Impact of planned measures

EPA Emissions Statistics team – July 2020

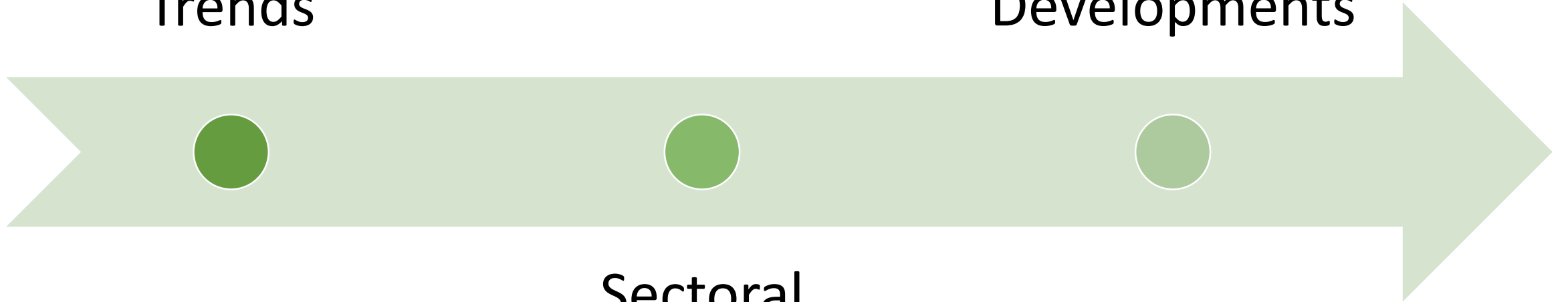


Outline








Highlights and Trends

Compliance and New Developments



Sectoral Projections

EPA Climate Science Activities

-  Environmental Assessment & Strategic Environmental Assessment
-  **GHG Inventories & Projections**
-  Research
-  Emissions Trading & Registry
-  Industrial & Chemical Regulation
-  Climate Secretariat
-  Intergovernmental Climate Science
-  Resource Efficiency & Behavioural Change
-  Climate Dialogue



Highlights



Full implementation of the Climate Action Plan can see current EU targets met

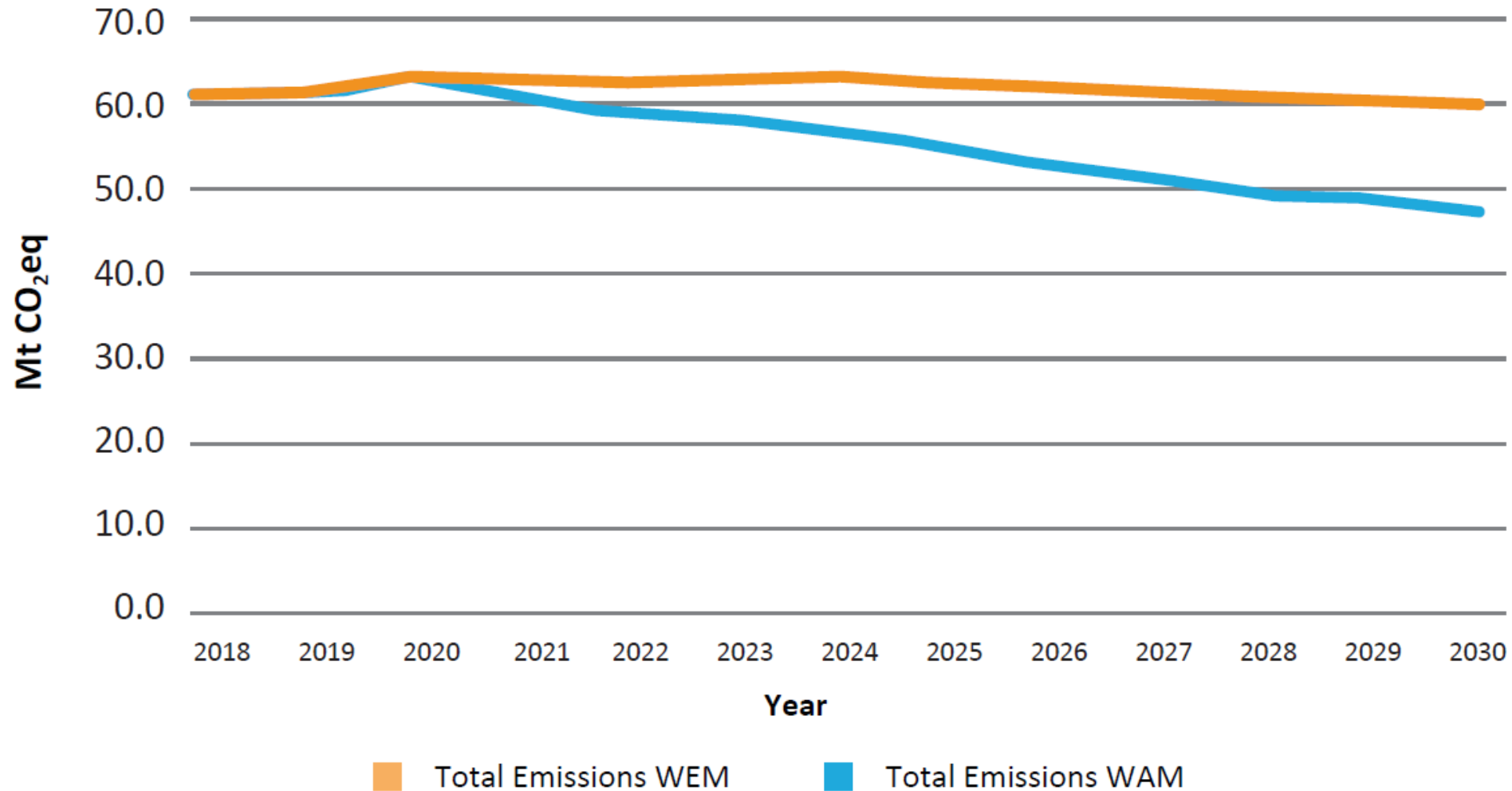


Further measures required to keep global temperature increase to 1.5°C



Ireland will rely on maximising the use of land to meet targets

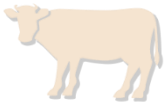



GHG Emissions projected trend

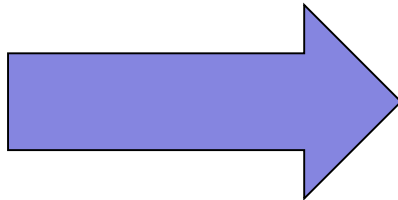


Share of GHG emissions 2018 and 2030

2018










60.9 Mt CO₂eq

| | | |
|-------------|---|-----|
| Agriculture |  | 34% |
| Transport |  | 20% |
| Energy Ind. |  | 17% |
| Residential |  | 10% |
| Other | | 18% |

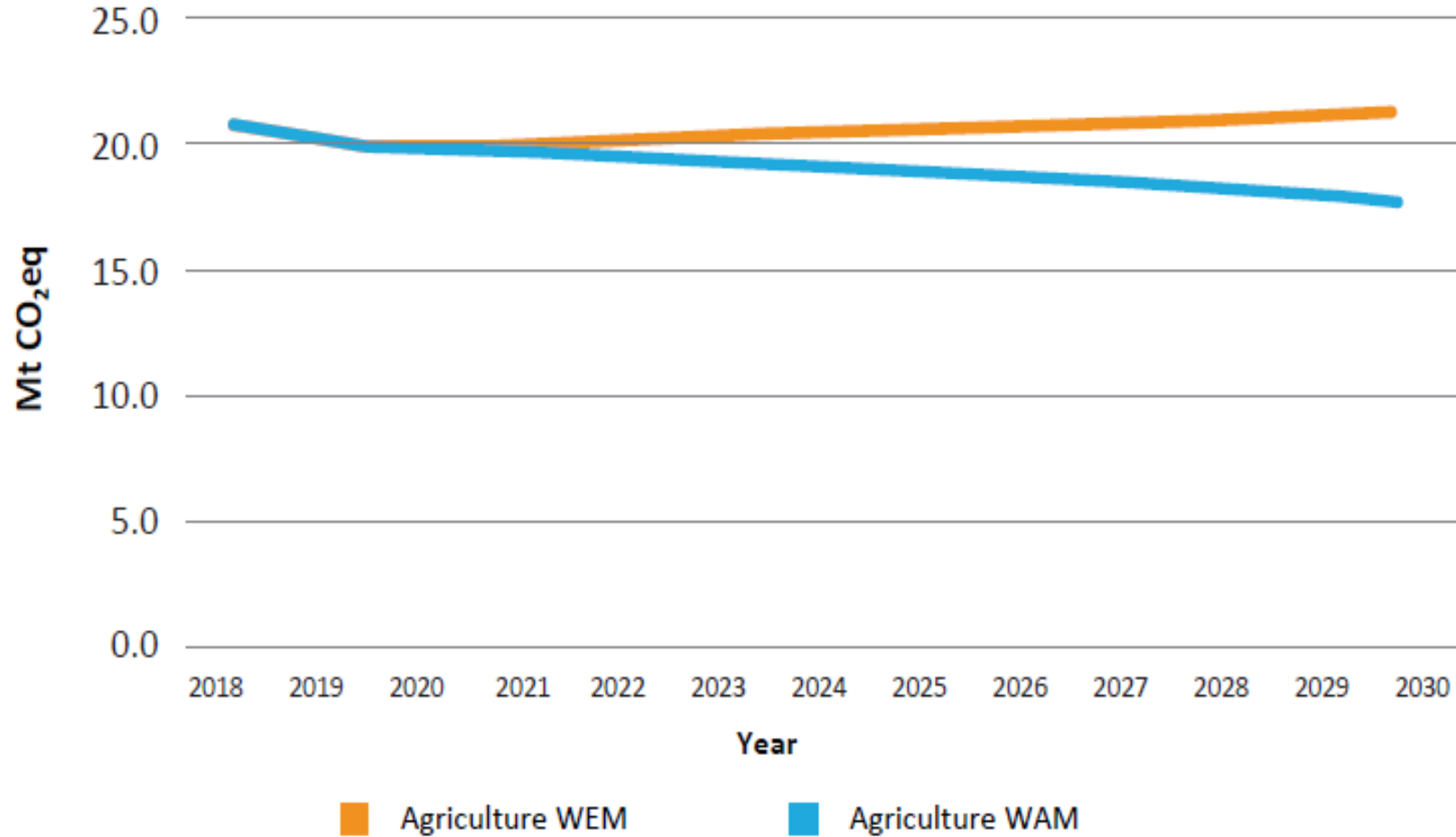


2030

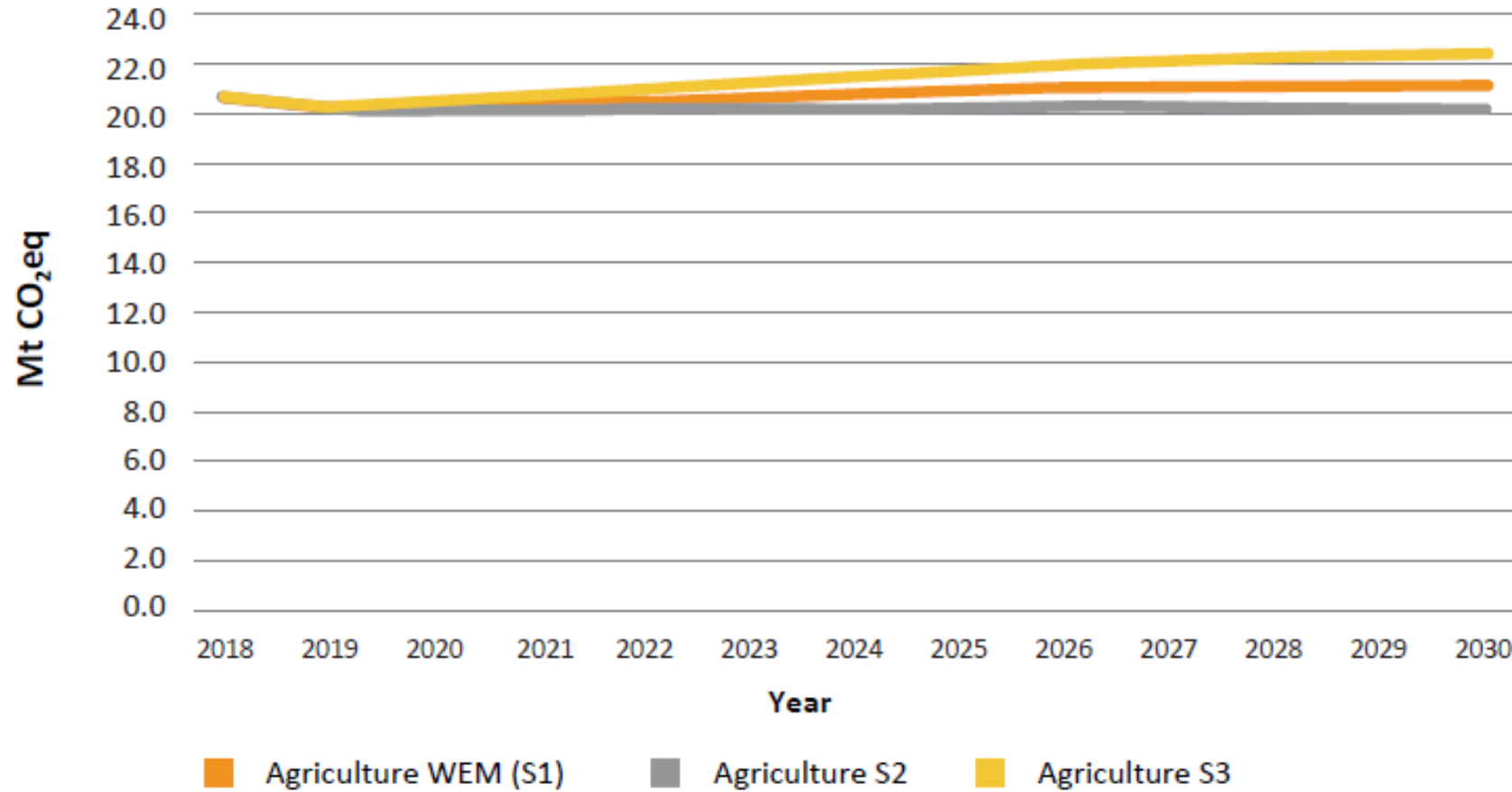
46.7 Mt CO₂eq (WAM)

| | | | |
|-------------|---|-----|---|
| Agriculture |  | 39% |  |
| Transport |  | 16% |  |
| Energy Ind. |  | 15% |  |
| Residential |  | 6% |  |
| Other | | 24% |  |

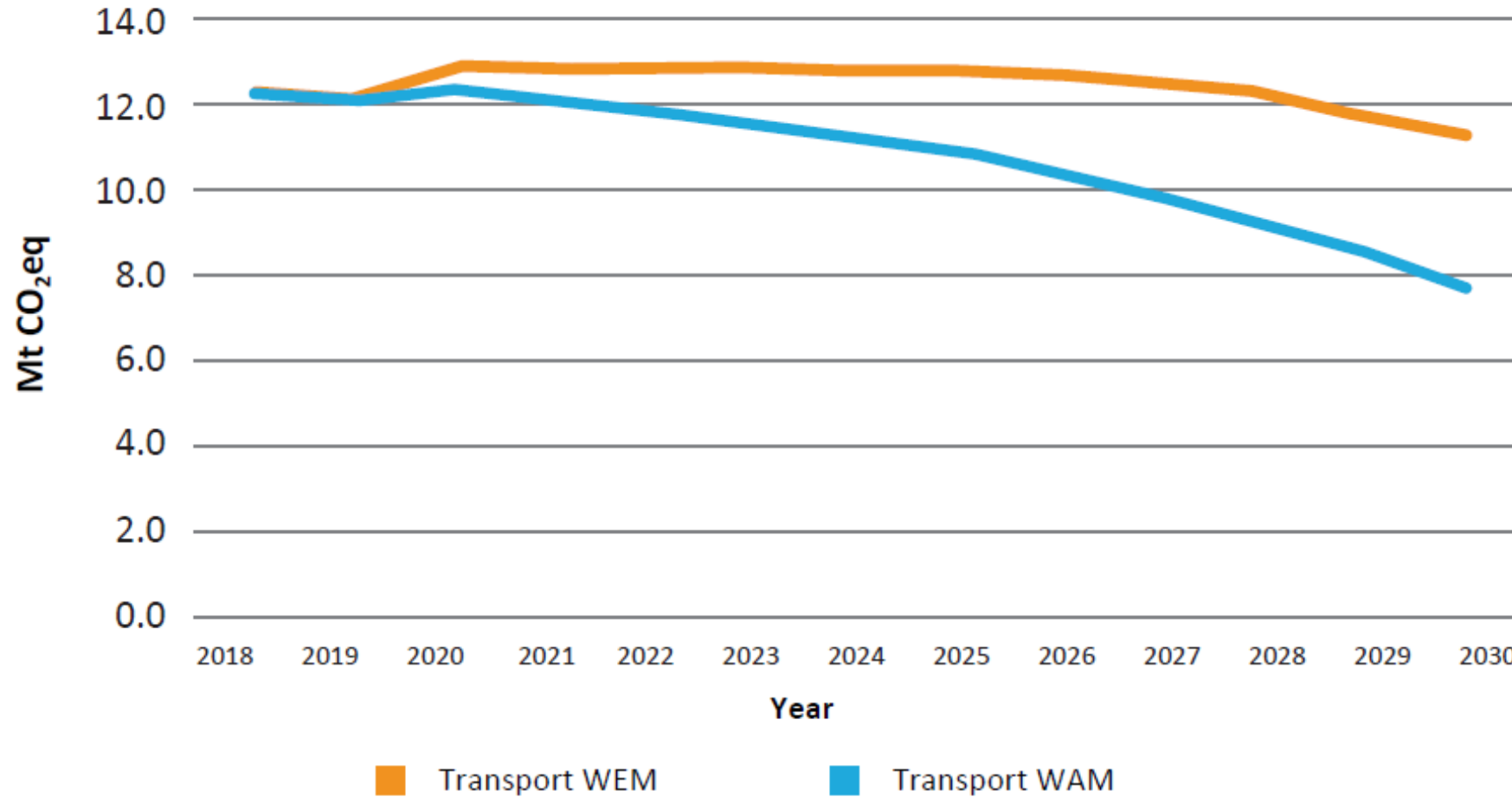
Agriculture Projections



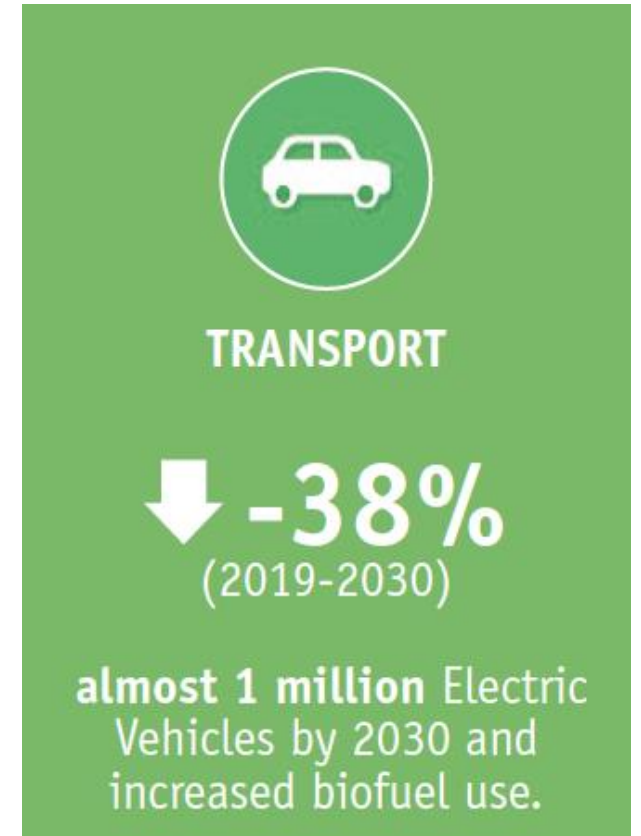
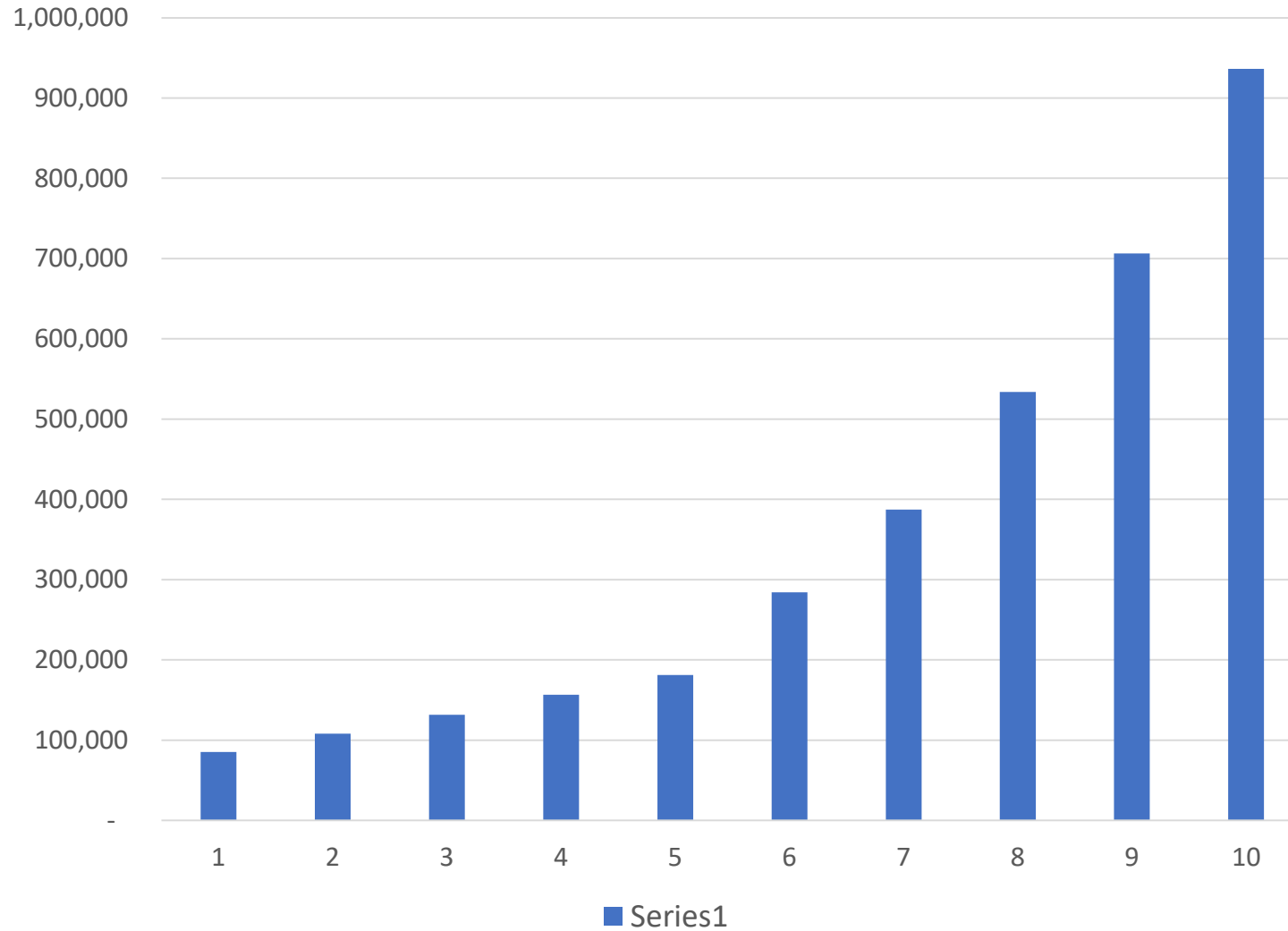
Agriculture Sensitivity Analysis



Transport Projections



Transport Measures

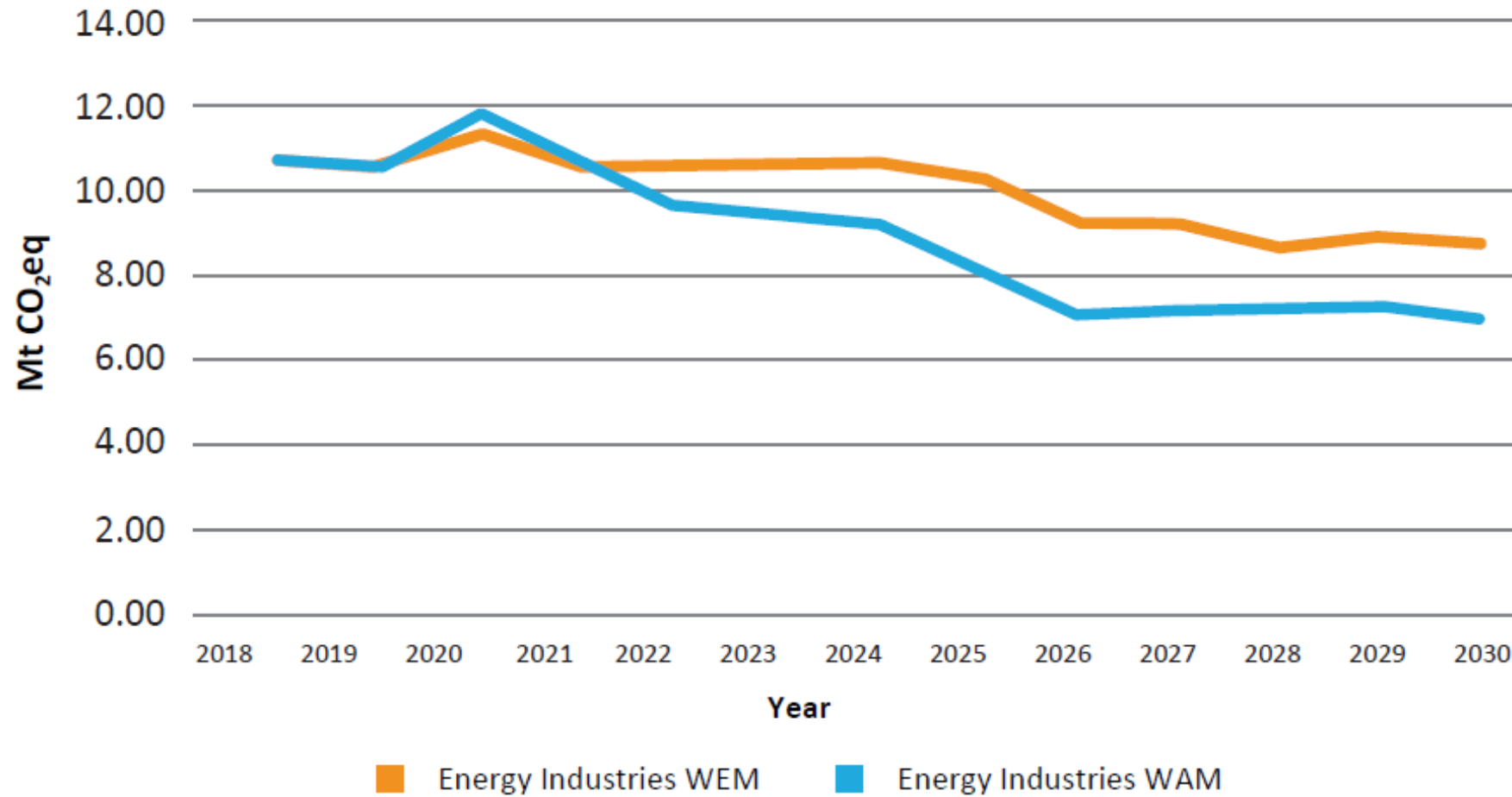


TRANSPORT

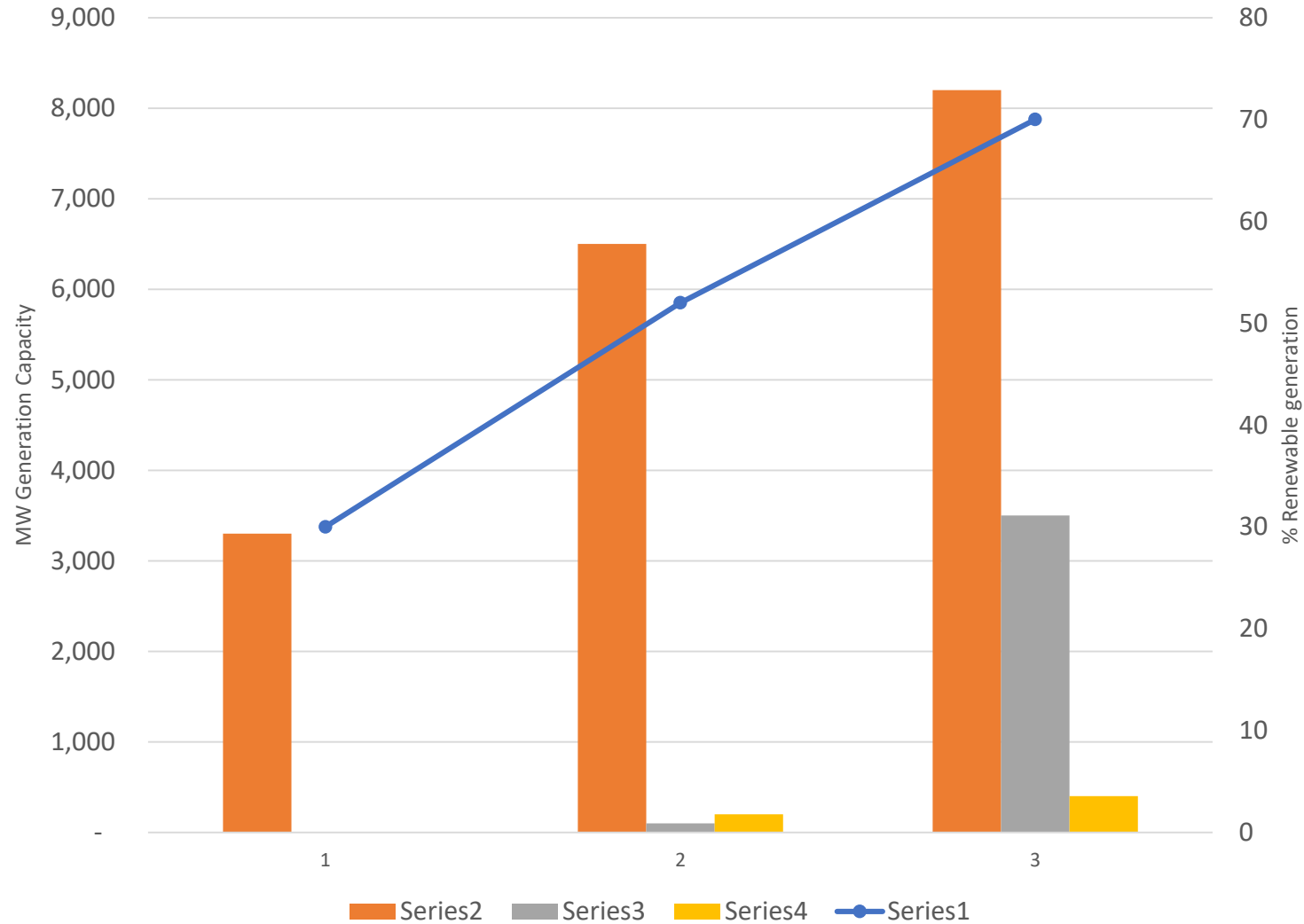

↓ -38%
(2019-2030)

almost 1 million Electric Vehicles by 2030 and increased biofuel use.

Energy Projections



Energy Measures

ENERGY INDUSTRIES

↓ -34%
(2019-2030)

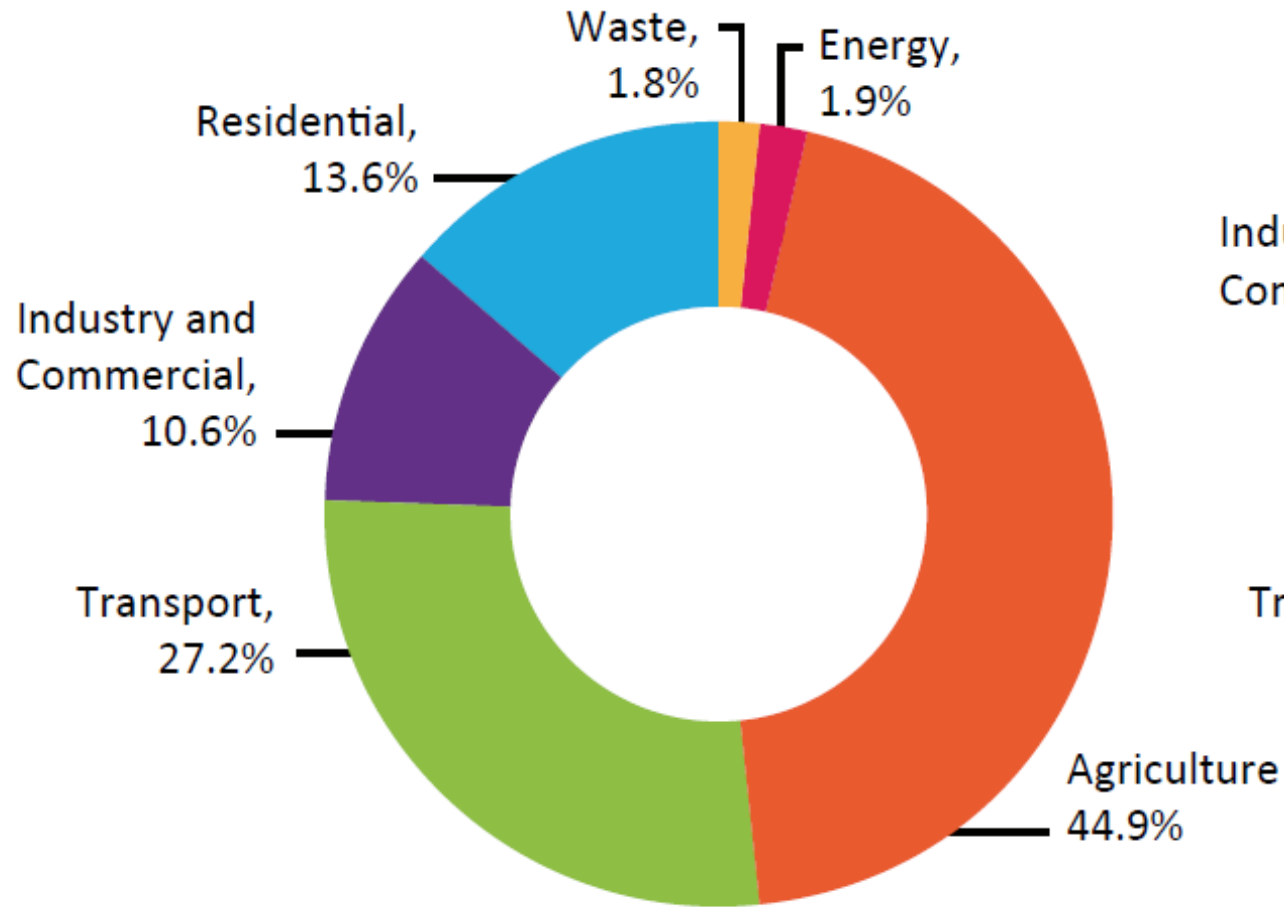
70% Energy from Renewables by 2030

Effort Sharing Decision emissions

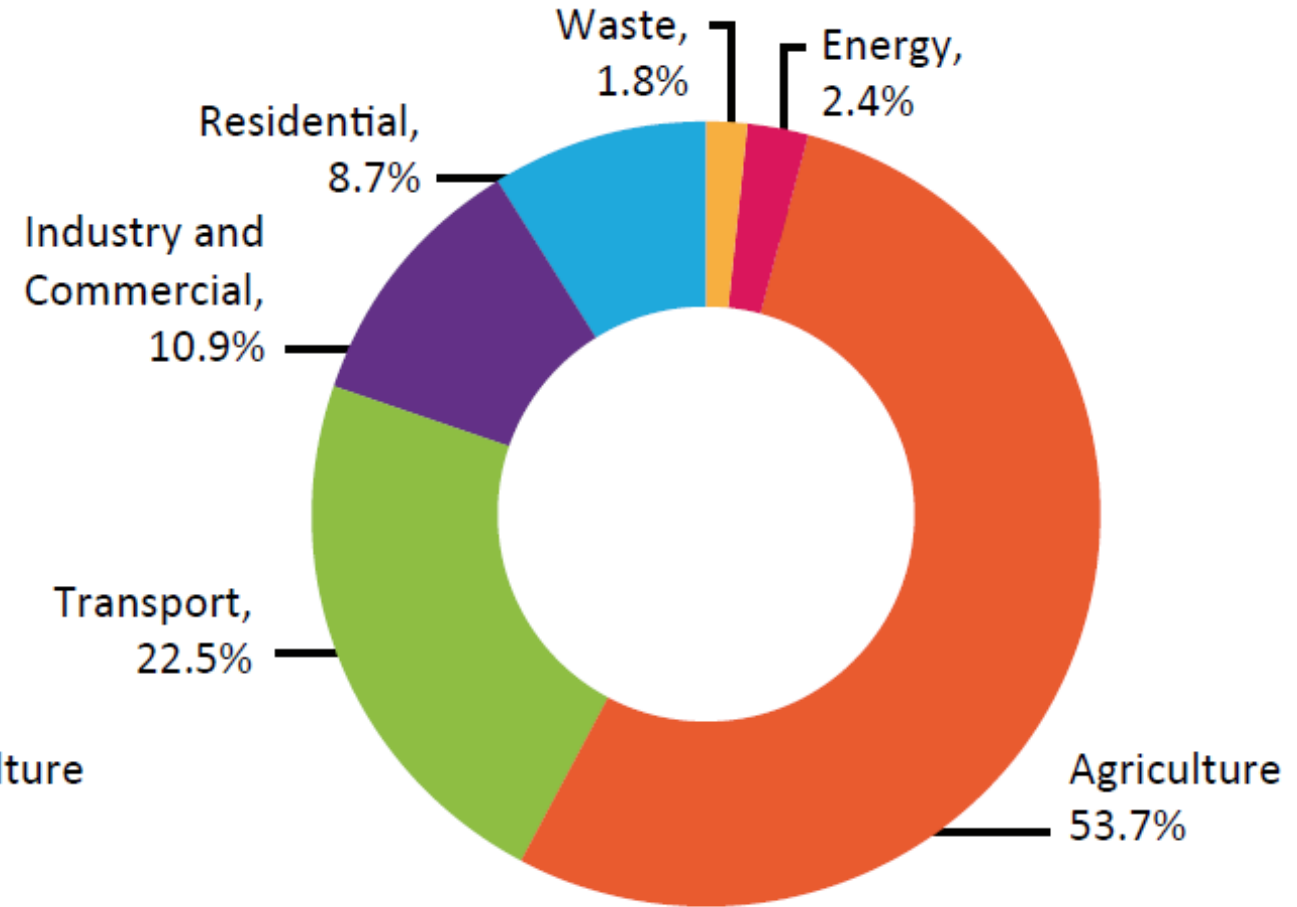


Environmental Protection Agency

Year 2020



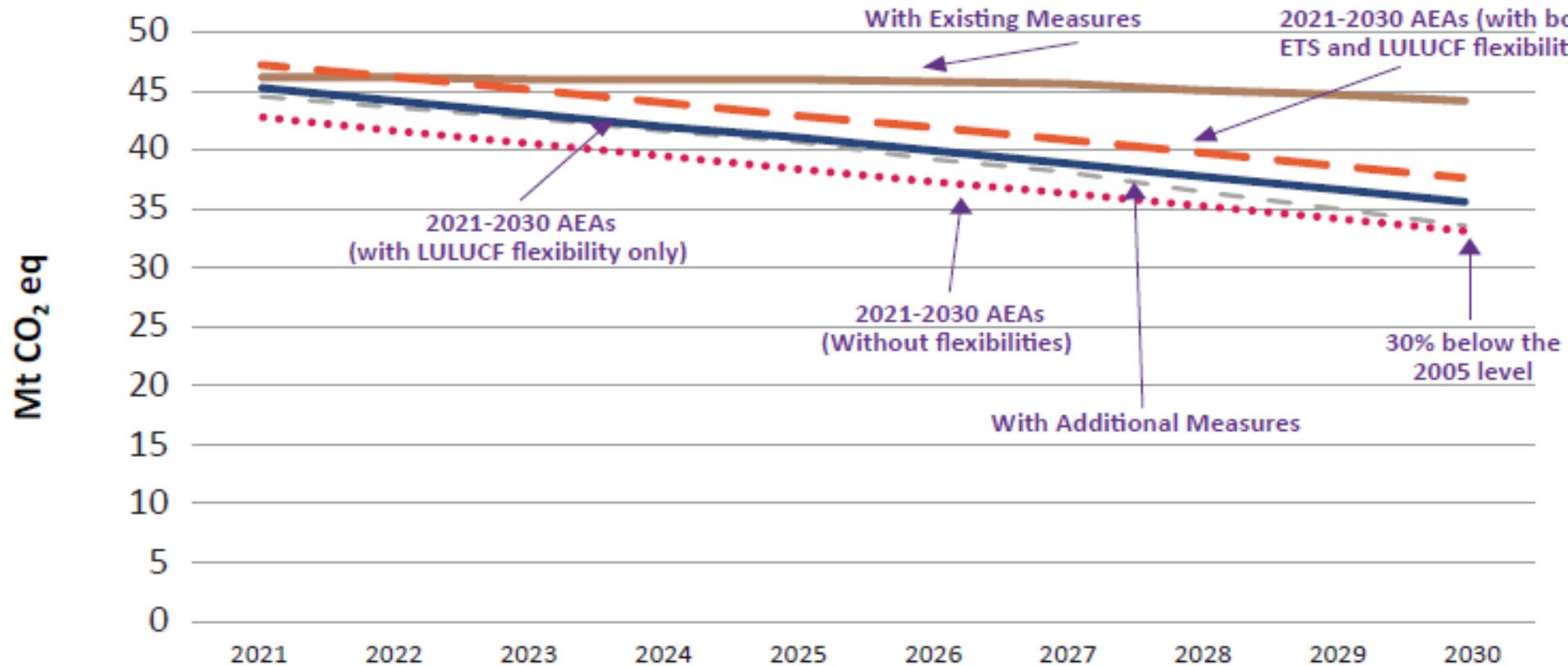
Year 2030



Effort Sharing Regulation Compliance



Environmental Protection Agency



- With Existing Measures
- With Additional Measures
- 2021-2030 AEA (Without flexibilities)
- 2021-2030 AEA (With LULUCF flexibility only)
- 2021-2030 AEA (With both ETS and LULUCF flexibilities)

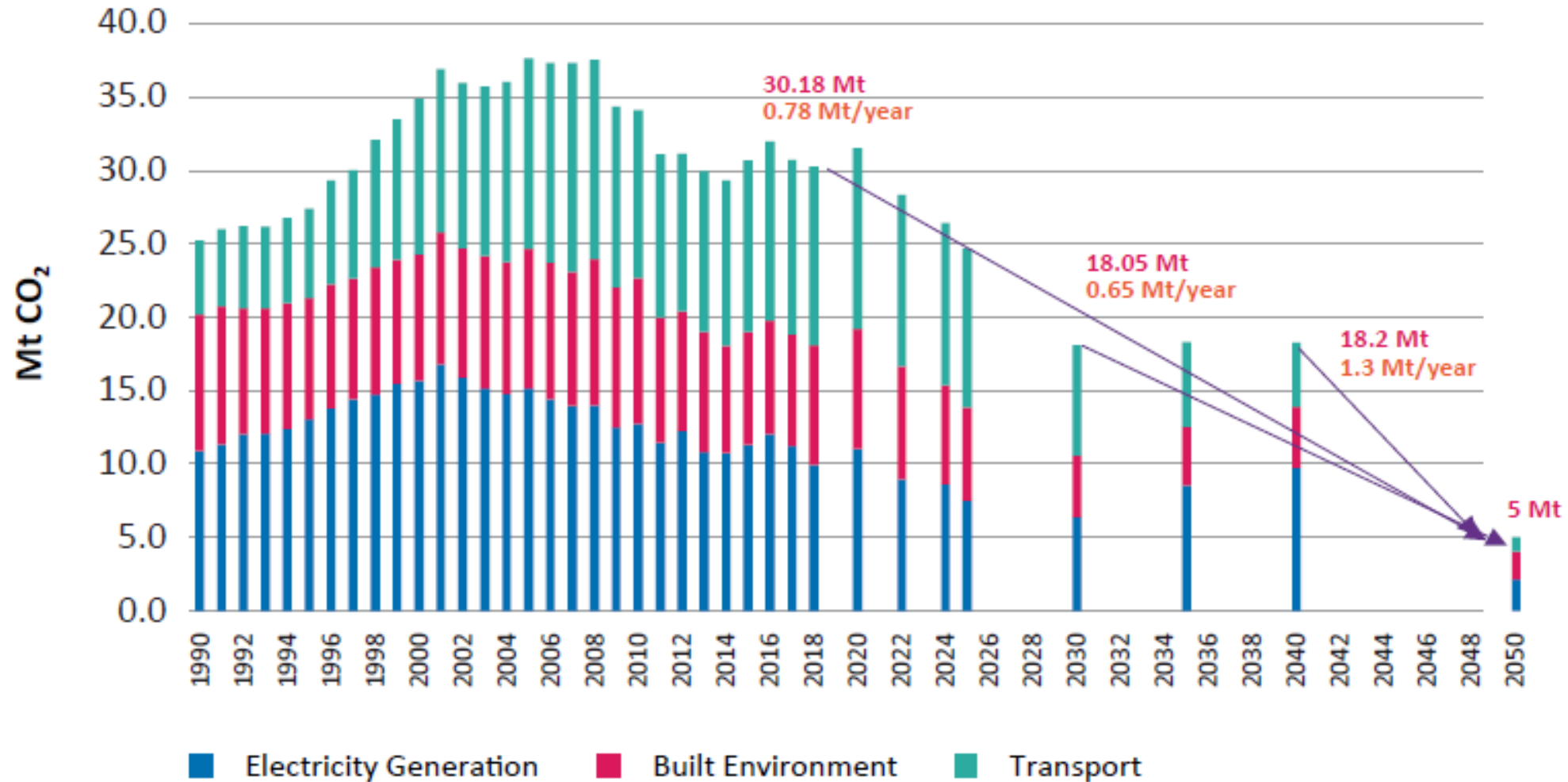
ESR Compliance – Carbon Budget



| <i>Mt CO₂ equivalent</i> | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | Total |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|
| Non-ETS Projections - WEM | 46.18 | 46.16 | 46.06 | 46.02 | 45.96 | 45.86 | 45.60 | 45.21 | 44.78 | 44.17 | 456.01 |
| Non-ETS Projections - WAM | 44.51 | 43.66 | 42.70 | 41.64 | 40.73 | 39.37 | 38.13 | 36.66 | 35.18 | 33.65 | 396.21 |
| Projected Annual Emission Allocations (WEM) | 42.65 | 41.58 | 40.51 | 39.44 | 38.37 | 37.30 | 36.23 | 35.16 | 34.09 | 33.01 | 378.34 |
| Gross Exceedance - WEM | 3.53 | 4.58 | 5.55 | 6.58 | 7.59 | 8.56 | 9.38 | 10.05 | 10.69 | 11.16 | 77.67 |
| Gross Exceedance - WAM | 1.85 | 2.08 | 2.19 | 2.19 | 2.36 | 2.07 | 1.90 | 1.50 | 1.09 | 0.63 | 17.87 |

Using LULUCF Flexibility (26.8 Mt CO₂ eq) results in a surplus of almost 9 Mt CO₂ eq over the 2021-30 period in the WAM scenario.

National Policy Position

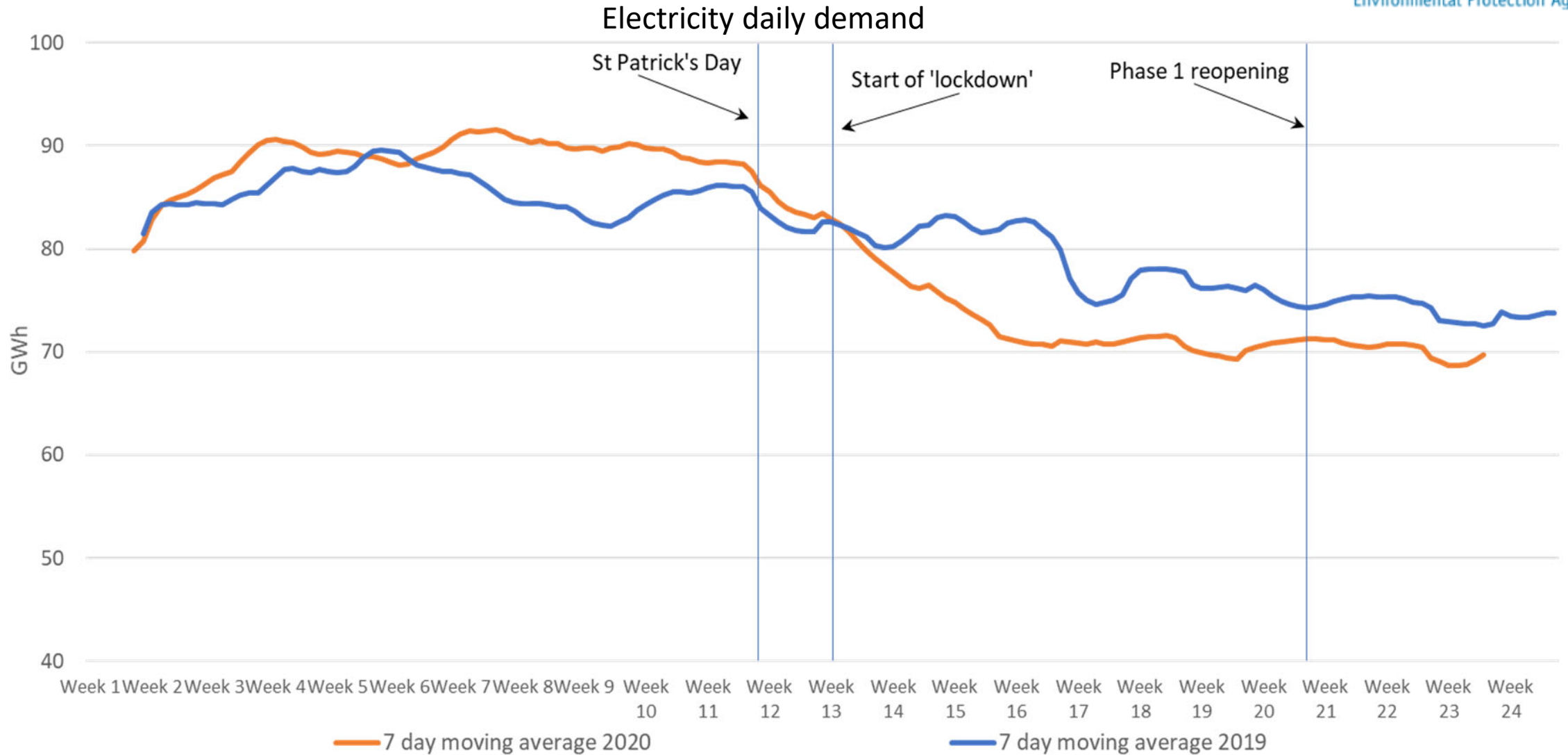


Going beyond ESR Compliance



- UNEP “Emissions Gap Report”, on course for 3.2°C temperature rise
- Global fall of 7.6% per year between 2021 and 2030 needed to get on track towards limiting warming to 1.5°C
- Programme for Government commitment to greater ambition:
“We are committed to an average 7% per annum reduction in overall greenhouse gas emissions from 2021 to 2030 (a 51% reduction over the decade) and to achieving net zero emissions by 2050.”

COVID



Conclusions

- Ireland's total Greenhouse Gas emissions, with full implementation of the Climate Action Plan, are projected to decrease by 23% by 2030, with an annual average reduction of 3% between 2021 and 2030
- Ireland will meet its 2030 target under the Effort Sharing Regulation as long as there is early and full implementation of the Climate Action Plan measures
- Ireland will rely on maximising the use of land – for example grasslands, wetlands and forestry to meet targets
- Even further measures are required to meet national and EU ambition to keep global temperature increase to 1.5°C
- Need to target measures
'The right measure in the right place'

**Targeted climate
and environmental
actions needed
for long term
improvement.**



**Learn more on
www.epa.ie/ghg.**

CURRENT SITUATION

PROGRESS TO TARGETS

INDICATORS

DOCUMENTS / REPORTS



KEY HIGHLIGHTS



ENERGY INDUSTRIES



RESIDENTIAL



TRANSPORT



AGRICULTURE



Greenhouse Gas EMISSIONS



WASTE



PUBLIC/COMM SERVICES



MANUFACTURING & INDUSTRY



LULUCF



SUMMARY BY GAS



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