Special Review
Draft report on future emissions reduction targets for Australia

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29 April 2015
Special Review

• Minister for Environment requested a Special Review, with three tasks:
  – Draft report on future emissions targets –
    • To inform government decisions due mid-year
  – Draft report on whether Australia should have an emissions trading scheme – by end November
  – Final report recommending action Australia should take to implement outcomes from the Paris Summit – by end June 2016
Target recommendations

2020 TARGET

• Australia should go beyond a 5% reduction below 2000 levels.
• The Authority’s previous recommendation remains appropriate: 19% by 2020.

POST-2020 TARGETS

• 30% below 2000 levels by 2025.
• 40-60% below 2000 levels by 2030.
Key considerations for setting targets

- Australia’s national interest: limiting temperature increases to 2 degrees
- Global emissions budgets and trajectories
- International action
- Approaches to sharing global budget
- Australia’s targets, trajectory and budget
- Economic and social implications
2025 target: 30 per cent below 2000

Source: Historical greenhouse gas emissions: (DoE, 2015).
Budget usage

2013-2050
(37 years)
10,100 Mt CO$_2$-e

Source: Draft report Figure 8
Budget usage

2013-20 (8 years)
4,465 Mt CO$_2$-e

Source: Draft report Figure 8
Budget usage

2013-20 (8 years) 4,465 Mt CO$_2$-e

2021-25 (5 years) 2,235 Mt CO$_2$-e

Source: Draft report Figure 8
Budget usage

Post-2025 (25 years) 3,411 Mt CO$_2$-e

2013-20 (8 years) 4,465 Mt CO$_2$-e

2021-25 (5 years) 2,235 Mt CO$_2$-e

Source: Draft report Figure 8
## Post-2020 targets announced to date

<table>
<thead>
<tr>
<th>Country</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Peak CO₂ emissions around 2030</td>
</tr>
<tr>
<td>United States</td>
<td>26 to 28% below 2005 by 2025</td>
</tr>
<tr>
<td>European Union</td>
<td>At least 40% below 1990 by 2030</td>
</tr>
<tr>
<td>Germany</td>
<td>55% below 1990 by 2030</td>
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<tr>
<td>Norway</td>
<td>At least 40% below 1990 by 2030</td>
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<tr>
<td>Switzerland</td>
<td>50% below 1990 by 2030</td>
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<tr>
<td>United Kingdom</td>
<td>50% below 1990 over 2023-27</td>
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<tr>
<td>Mexico</td>
<td>25% below baseline by 2030</td>
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<tr>
<td>Gabon</td>
<td>25% below baseline by 2025</td>
</tr>
<tr>
<td>Russia</td>
<td>25% below 1990 by 2030</td>
</tr>
</tbody>
</table>
Countries have met their targets

Source: Draft report Figure 1
United States’ climate action

• 2025 target of 26-28 per cent below 2005 levels
  – Approximately doubles rate of reductions compared to the 2020 target

• President’s Climate Plan
  – Clean Air Act to limit emissions from new and existing coal fired power stations
  – Vehicle standards
  – Tax credits for renewable energy and electric vehicles

• State action
  – Emissions trading schemes in 10 states
  – Renewable energy mandates in most states
China’s climate action

• CO$_2$ emissions peak around 2030
• Goal to increase the share of non-fossil fuel energy to 20 per cent by 2030
• Relevant policies include:
  – Renewable energy mandates
  – Major expansion of renewable power generation
  – Planned national ETS scheme (7 regional pilots)
  – Mandatory closure of inefficient coal plants
  – Caps on total energy consumption and on coal
India’s climate action

• Post-2020 pledge expected by September
• National Action Plan on Climate Change
• Target for renewable energy capacity:
  – Total: 175 GW by 2022
  – Solar: 100 GW
  – Wind: 60 GW
  – Small-scale hydro: 5 GW
• Energy efficiency target, supported by a baseline and credit trading scheme.
Capacity to reduce emissions

Source: Draft report Figure 2
Comparing responsibility

Source: Draft report Figure 3
Comparing responsibility and effort

Source: Draft report Figure 3
Comparing reductions over time

% change in total emissions by 2025 from 1990 base

Source: Draft report Figure 6
Emissions trajectories to 2 degrees goal

Source: Draft report Figure 7
Australia’s 2025 target against different reference years

Historical emissions and trajectory to recommended target

- 31% below 1990
- 30% below 2000
- 36% below 2005
- 32% below 2010

CCA 2025 target level

Source: Draft report Figure 4
Next steps

• The report is on the Authority’s website: submissions are welcome.
  www.climatechangeauthority.gov.au
  submissions@climatechangeauthority.gov.au

• The Authority may make a further statement after consultation with stakeholders.

• The second draft report on emissions trading schemes and other policies: November 2015.

• Final report recommending Australian actions after the Paris conference: June 2016.