Global Warming of 1.5°C

An IPCC special report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty.
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Joyashree Roy
Coordinating Lead Author-Chapter 5
India Habitat Centre @New Delhi,
15 October, 2018
Strengthening the Global Response in the Context of Sustainable Development
Links to Sustainable Development Dimensions

- Close links to United Nations Sustainable Development Goals (SDGs)
- Mix of measures to reduce emissions can have benefits for SDGs
Stringent climate mitigation measures can generate positive impacts (synergies) and negative impacts (trade offs) with developmental actions.

Knowing those is important for making policy choices.
**Indicative linkages between mitigation options and sustainable development using SDGs** (The linkages do not show costs and benefits)

Mitigation options deployed in each sector can be associated with potential positive effects (synergies) or negative effects (trade-offs) with the Sustainable Development Goals (SDGs). The degree to which this potential is realized will depend on the selected portfolio of mitigation options, mitigation policy design, and local circumstances and context. Particularly in the energy-demand sector, the potential for synergies is larger than for trade-offs. The bars group individually assessed options by level of confidence and take into account the relative strength of the assessed mitigation-SDG connections.

<table>
<thead>
<tr>
<th>Energy-supply</th>
<th>Energy-demand</th>
<th>Land</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SDG1</strong> No Poverty</td>
<td><strong>SDG2</strong> Zero Hunger</td>
<td><strong>SDG3</strong> Good Health and Well-being</td>
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<tr>
<td><strong>SDG4</strong> Quality Education</td>
<td><strong>SDG5</strong> Gender Equality</td>
<td><strong>SDG6</strong> Clean Water and Sanitation</td>
</tr>
<tr>
<td><strong>SDG7</strong> Affordable and Clean Energy</td>
<td><strong>SDG8</strong> Decent Work and Economic Growth</td>
<td><strong>SDG9</strong> Industry, Innovation and Infrastructure</td>
</tr>
<tr>
<td><strong>SDG10</strong> Reduced Inequality</td>
<td><strong>SDG11</strong> Sustainable Cities and Communities</td>
<td><strong>SDG12</strong> Responsible Consumption and Production</td>
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<td><strong>SDG13</strong> Climate Action</td>
<td><strong>SDG14</strong> Life Below Water</td>
<td><strong>SDG15</strong> Life on Land</td>
</tr>
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<td><strong>SDG16</strong> Peace and Justice Strong Institutions</td>
<td><strong>SDG17</strong> Partnership for the Goals</td>
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Length shows strength of connection

The overall size of the coloured bars depict the relative for synergies and trade-offs between the sectoral mitigation options and the SDGs.

Shades show level of confidence

The shades depict the level of confidence of the assessed potential for trade-offs/synergies.

Key:
- Low
- Medium
- High
Indicative linkages between mitigation and sustainable development using SDGs (the linkages do not show costs and benefit)

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Critical note: The linkages do not show costs and benefits.
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Very High

Low

Energy-supply

Energy-demand

SDG 1: No Poverty
SDG 2: Zero Hunger
SDG 3: Good Health and Well-being
SDG 4: Quality Education
SDG 5: Gender Equality
SDG 6: Clean Water and Sanitation
SDG 7: Affordable and Clean Energy
SDG 8: Decent Work and Economic Growth
SDG 9: Industry, Innovation and Infrastructure
### Indicative linkages between mitigation and sustainable development using SDGs

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Energy-supply

SDG 10: Reduced Inequality
SDG 11: Sustainable Cities and Communities
SDG 12: Responsible Consumption and Production
SDG 14: Life Below Water
SDG 15: Life on Land
SDG 16: Peace and Justice, Strong Institutions
SDG 17: Partnerships for the Goals

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Very High | Low
Synergies and Trade offs

For energy demand sectors most of the measures facilitate achievement of goals

But model pathways that rely more on land based measures like bioenergy, afforestation if poorly managed can compete with food security

Redistributive policies across sectors and populations can resolve trade offs