



**IPCC Special Report on
Global Warming of 1.5°C
Climate Change and Sustainable Development**

Kuala Lumpur, 26 October 2019



Strengthening the Global Response in the Context of Sustainable Development

Both Positive and Negative Links

Climate mitigation measures can generate positive impacts (synergies) and negative impacts (trade offs) with developmental actions.

Knowing those is important for making policy choices

Mitigation actions

Energy demand (transport, buildings, industry) sector : behavioural responses, fuel switching, energy use efficiency, (carbon capture and storage-CCS/U)

Energy Supply sector : Biomass-non biomass renewables, nuclear, CCS-bio energy, CCS-fossil

Land Sector: sustainable diets, reduced food waste, soil carbon sequestration, livestock manure management, reduce deforestation, afforestation, reforestation, responsible forest product sourcing

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.

Length shows strength of connection

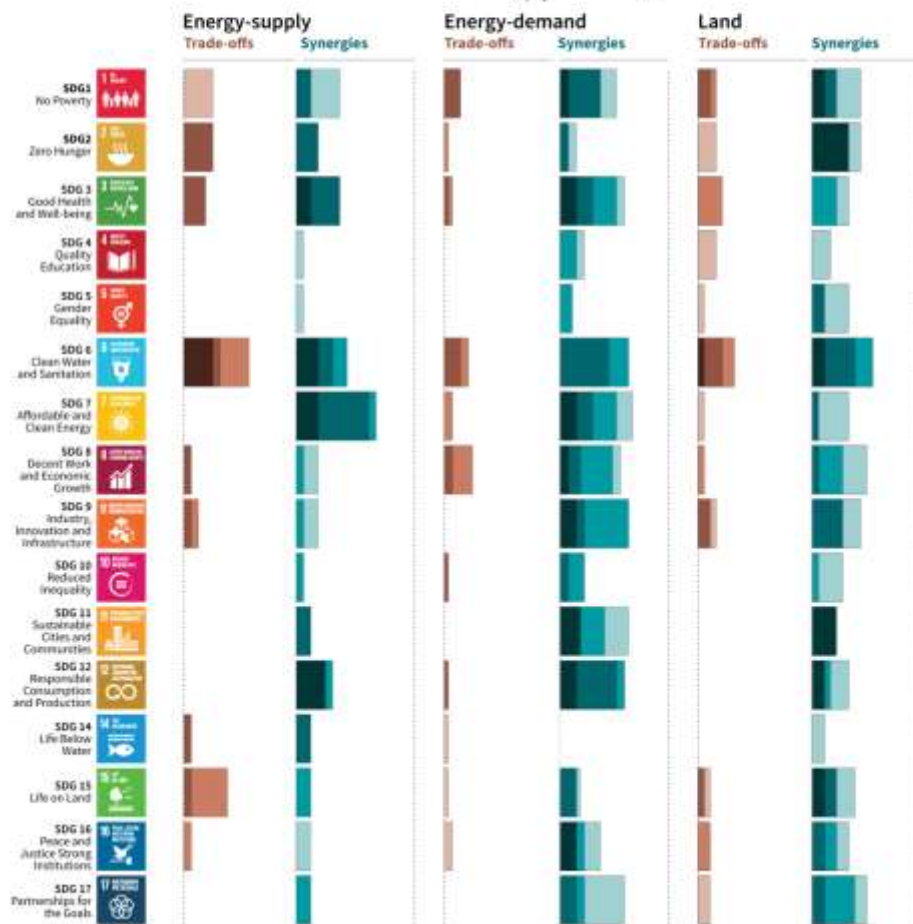


The overall size of the coloured bars depict the relative for synergies and trade-offs between the sectoral mitigation options and the SDGs.

Shades show level of confidence

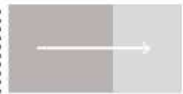


The shades depict the level of confidence of the assessed potential for Trade-offs/Synergies.



SPM4 | Indicative linkages between mitigation and sustainable development using SDGs (the linkages do not show costs and benefit)

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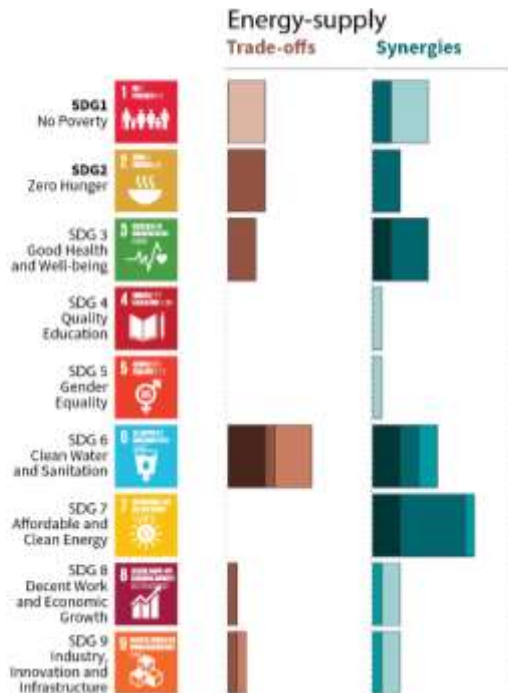
Shades show level of confidence



Very High

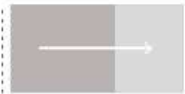
Low

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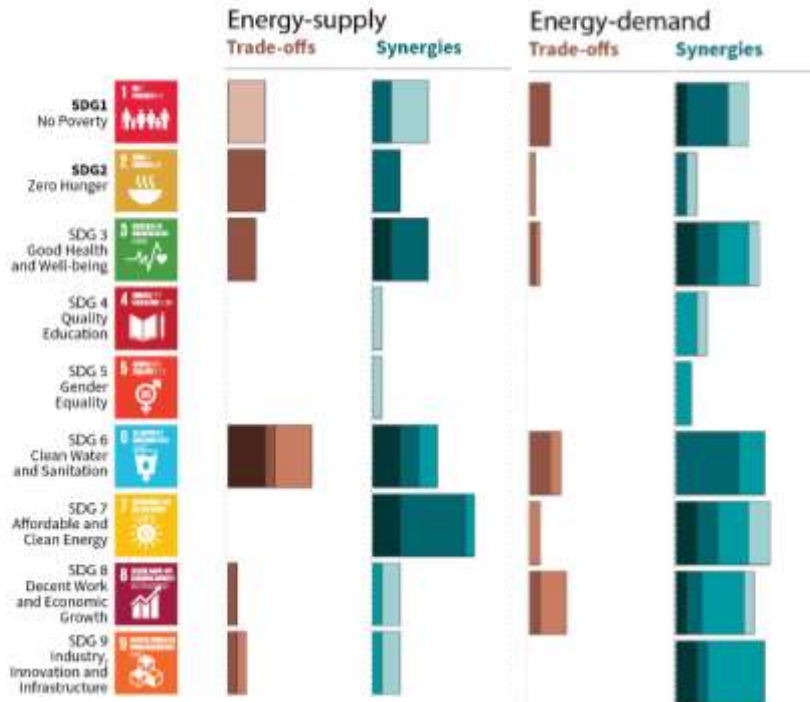


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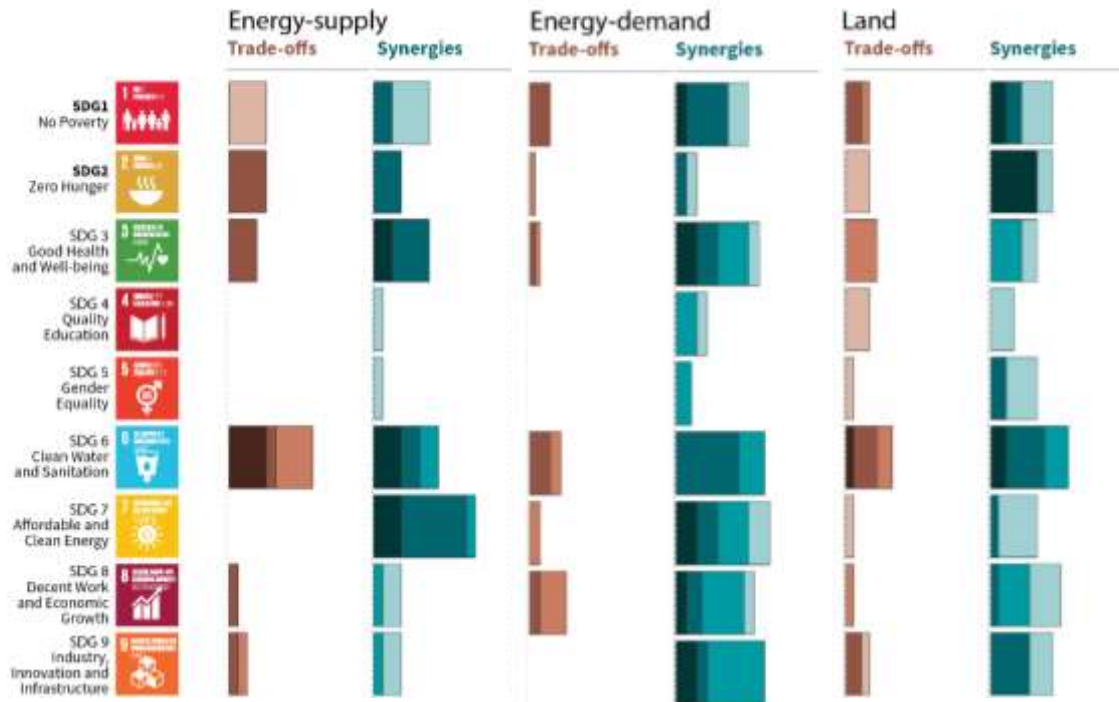


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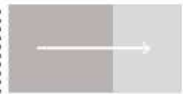


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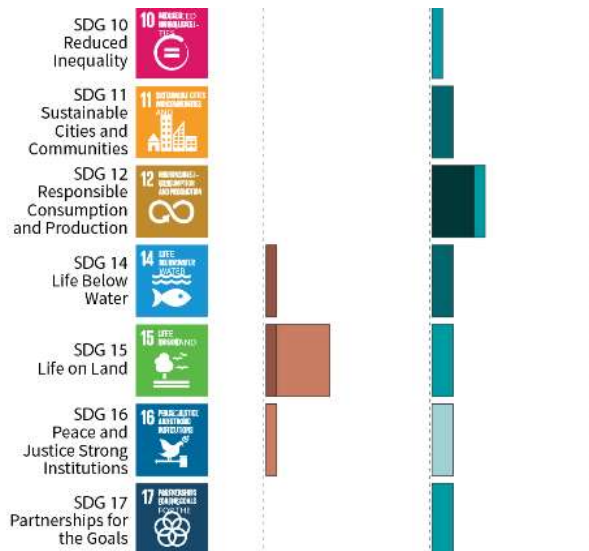
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Energy-supply

Trade-offs

Synergies



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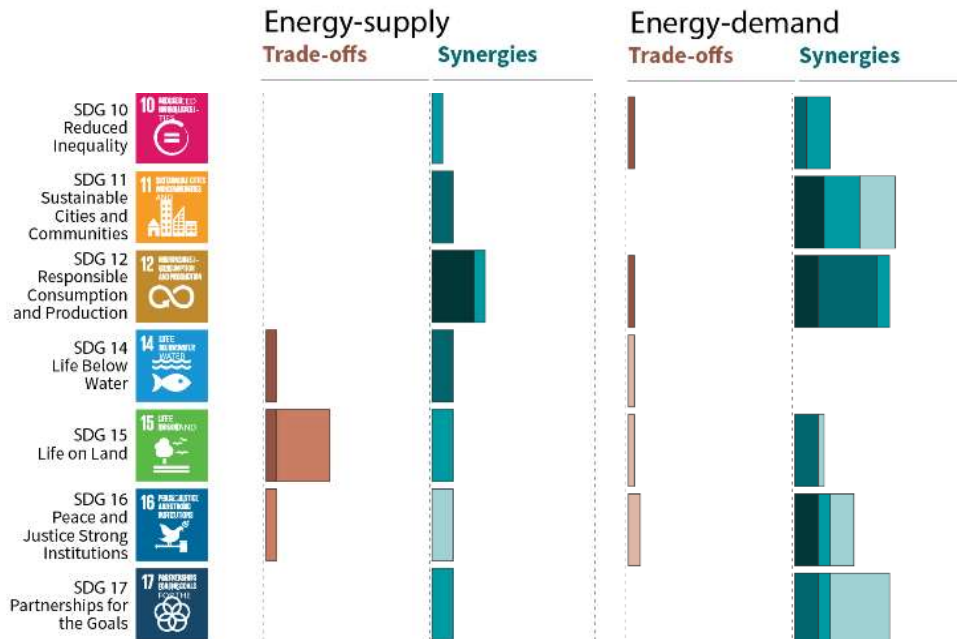
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Very High

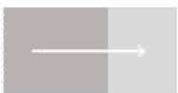
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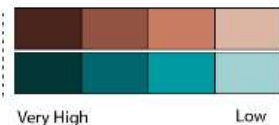
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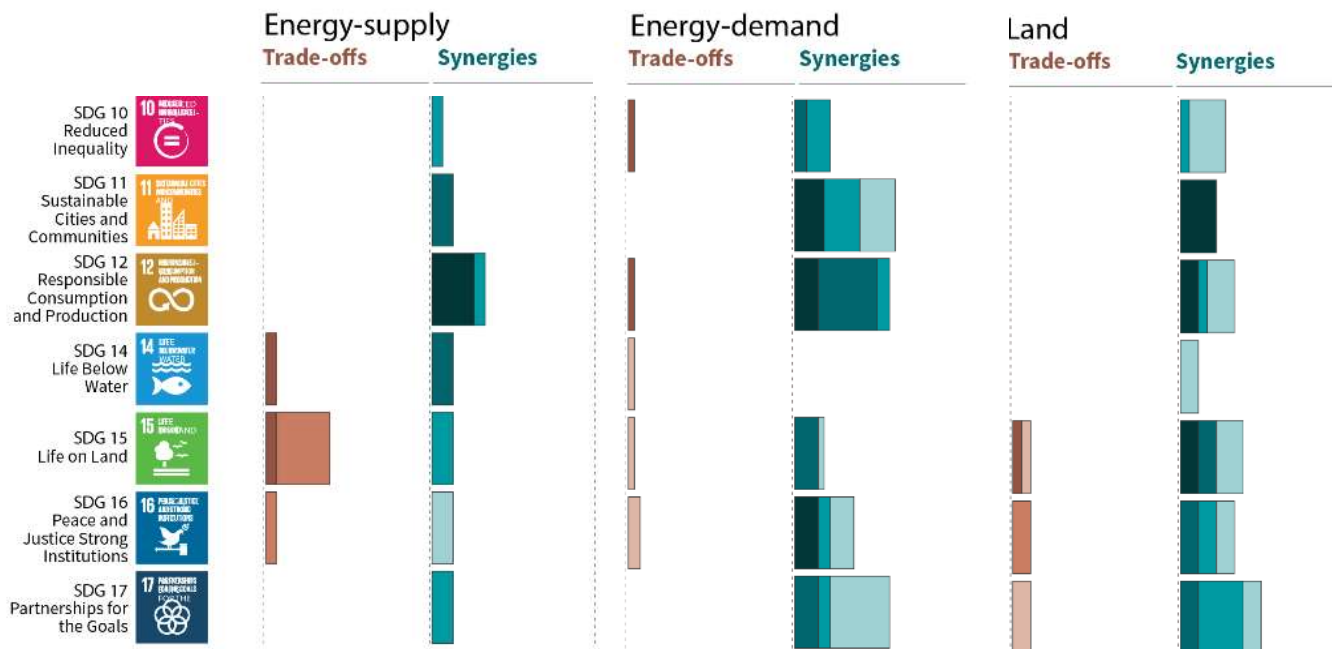


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Synergies and Trade offs

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**

THANK YOU FOR YOUR ATTENTION!

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INTERGOVERNMENTAL PANEL ON climate change

