

# Ocean and Climate Change Dialogue

to consider how to  
strengthen adaptation  
and mitigation action

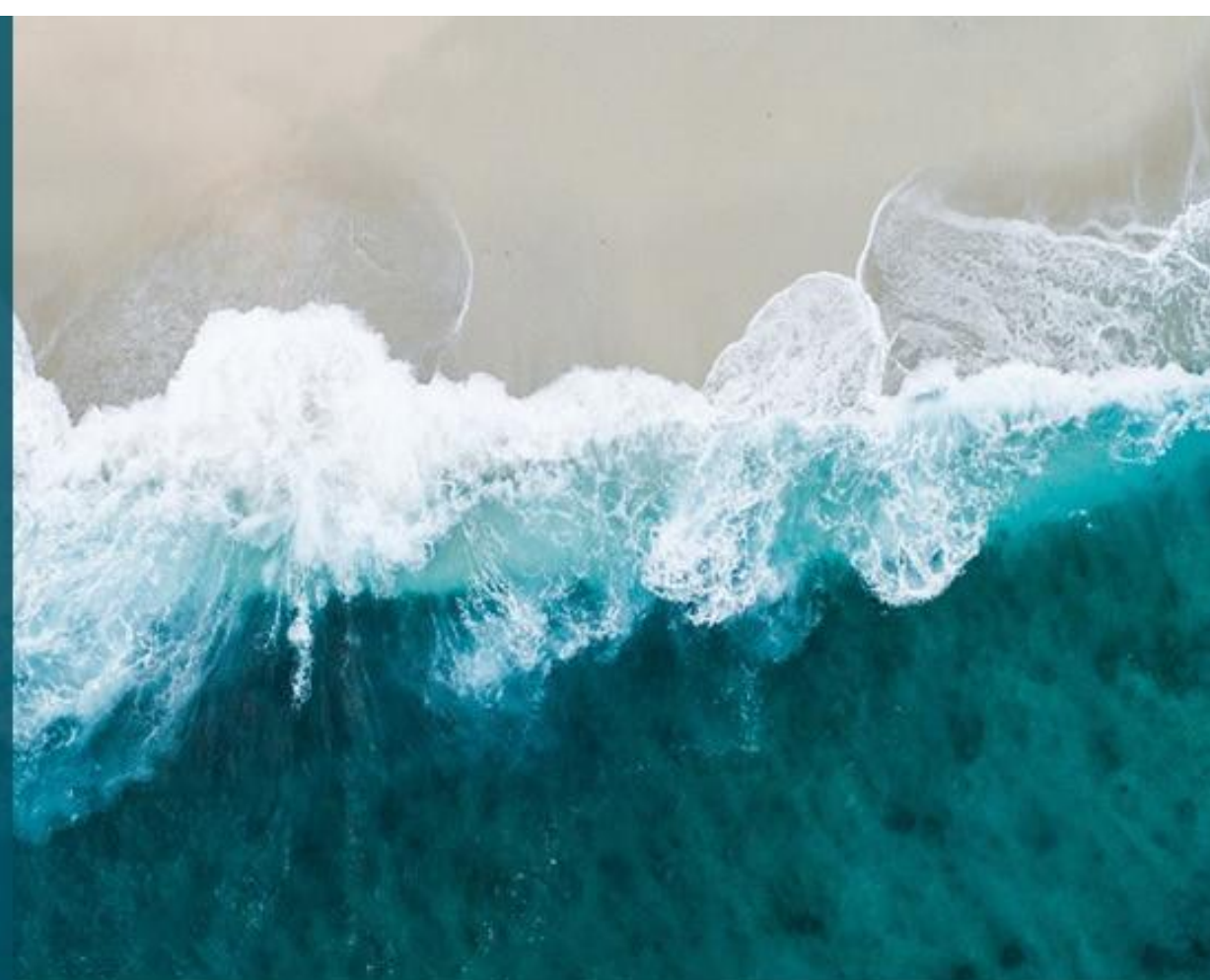
@JaneLubchenco  
Opening Plenary – Day 2



**United Nations**  
Framework Convention on  
Climate Change



HIGH LEVEL PANEL for  
**A SUSTAINABLE  
OCEAN ECONOMY**



**2 December 2020**  
21:30-24:00 CET /  
08:30-11:00 (next day) Fiji time

**3 December 2020**  
21:30-24:00 CET /  
08:30-11:00 (next day) Fiji time

# The Ocean & Climate Change

1. **Role** of the Ocean (IPCC SROCC)
2. **Impacts** of Climate Change (IPCC SROCC)
3. Ocean-based Opportunities for **Adaptation**
4. Ocean-based Opportunities for **Mitigation**



**Bottom line: The ocean provides untapped, powerful opportunities for both *mitigation* and *adaptation***

Spilhaus Projection, 1942



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*Introduction to the*  
**Ocean Panel**



# Ocean Panel Members



**Peter Thomson**  
UN SG's Special Envoy for the Ocean



**Justin Trudeau**  
Prime Minister of Canada



**Erna Solberg**  
Prime Minister of Norway



**Andrés López Obrador**  
President of Mexico



**António Costa**  
Prime Minister of Portugal



**Uhuru Kenyatta**  
President of Kenya



**Yoshihide Suga**  
Prime Minister of Japan



**Andrew Holness**  
Prime Minister of Jamaica



**Nana Akufo-Addo**  
President of Ghana



**Tommy Remengesau, Jr**  
President of Palau



**Sebastián Piñera**  
President of Chile



**Hage Gottfried Geingob**  
President of Namibia



**Joko Widodo**  
President of Indonesia



**Scott Morrison**  
Prime Minister of Australia



**Frank Bainimarama**  
Prime Minister of Fiji

Nearly 30 % of the EEZs of the ocean: = 30 million square kilometers;

~20% of fisheries

~20% of shipping

# Ocean Panel: Knowledge, Policy, Action

The work of the Ocean Panel is underpinned by three areas:



20 research papers that analyze the latest ocean science and knowledge and identify opportunities for action.



A fully endorsed transformative set of recommendations to advance a sustainable ocean economy.



Multi-stakeholder action groups driving change in key ocean sectors



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# Knowledge & Science:

Expert Group Co-Chairs:  
Peter Haugan, Jane Lubchenco, Mari Pangestu



**250+**

authors and  
experts



**48**

countries



**44%**

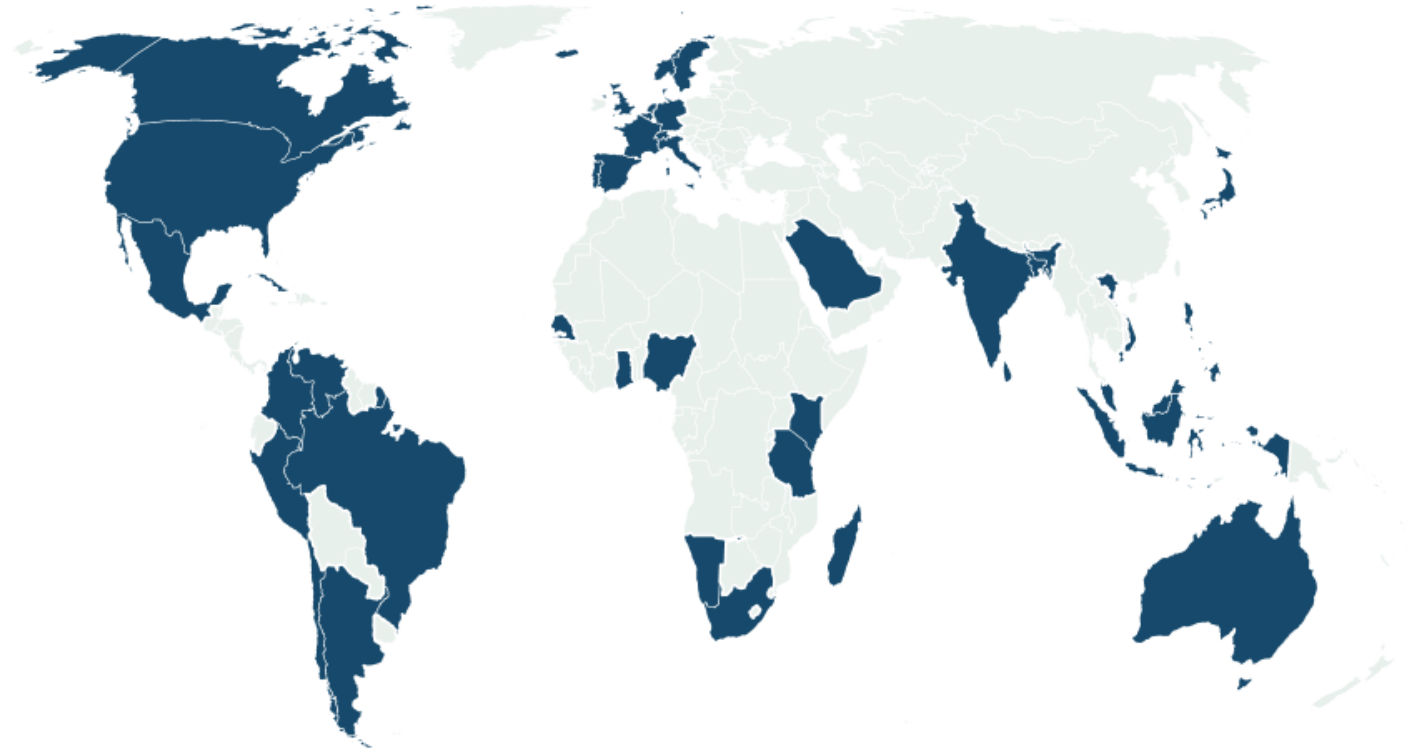
women



**134**

opportunities for  
action identified

Geographic Representation of Ocean Panel Experts and  
Authors across 48 Countries

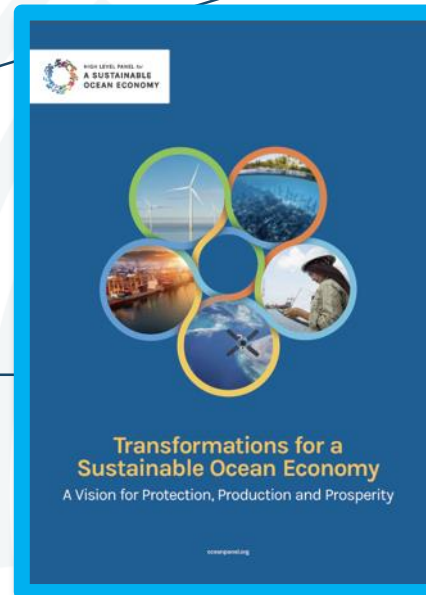
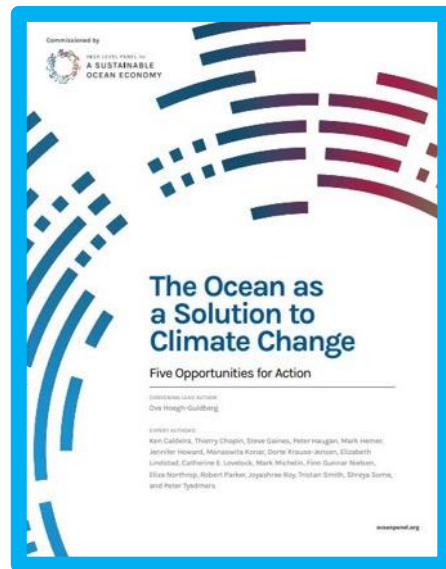


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# Knowledge & Science:

The Ocean Panel's bold yet pragmatic recommendations are underpinned by an unprecedented scientific knowledge base for action

<https://Oceanpanel.org>  
<https://beav.es/JZkes/JZk>



16 Blue Papers

3 Special Reports

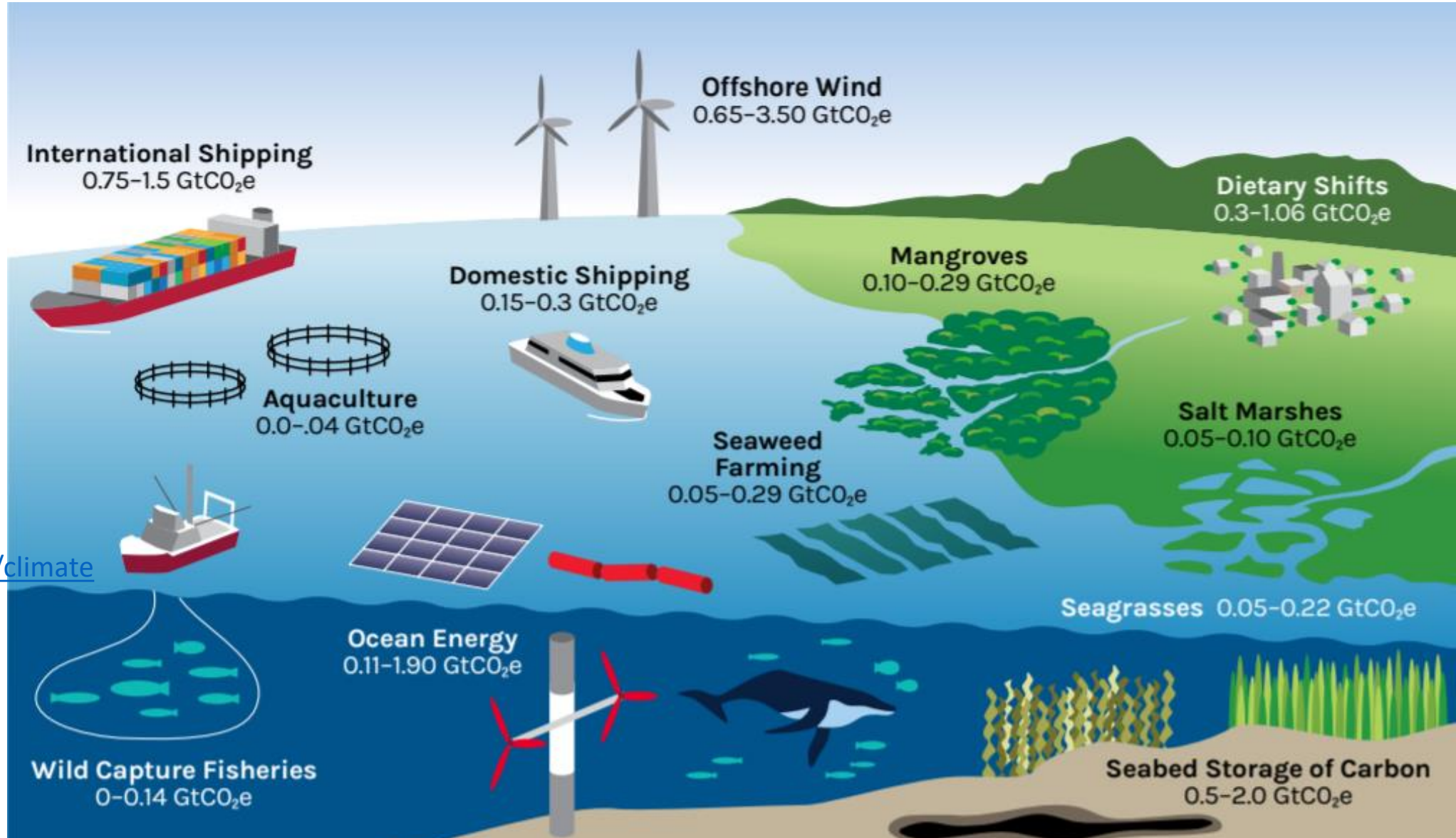
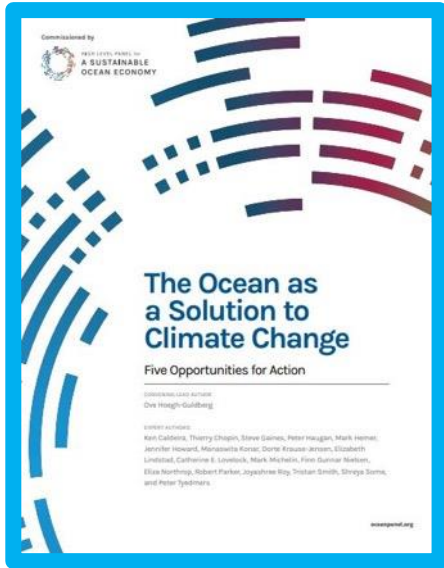
Ocean Solutions Report

Transformations



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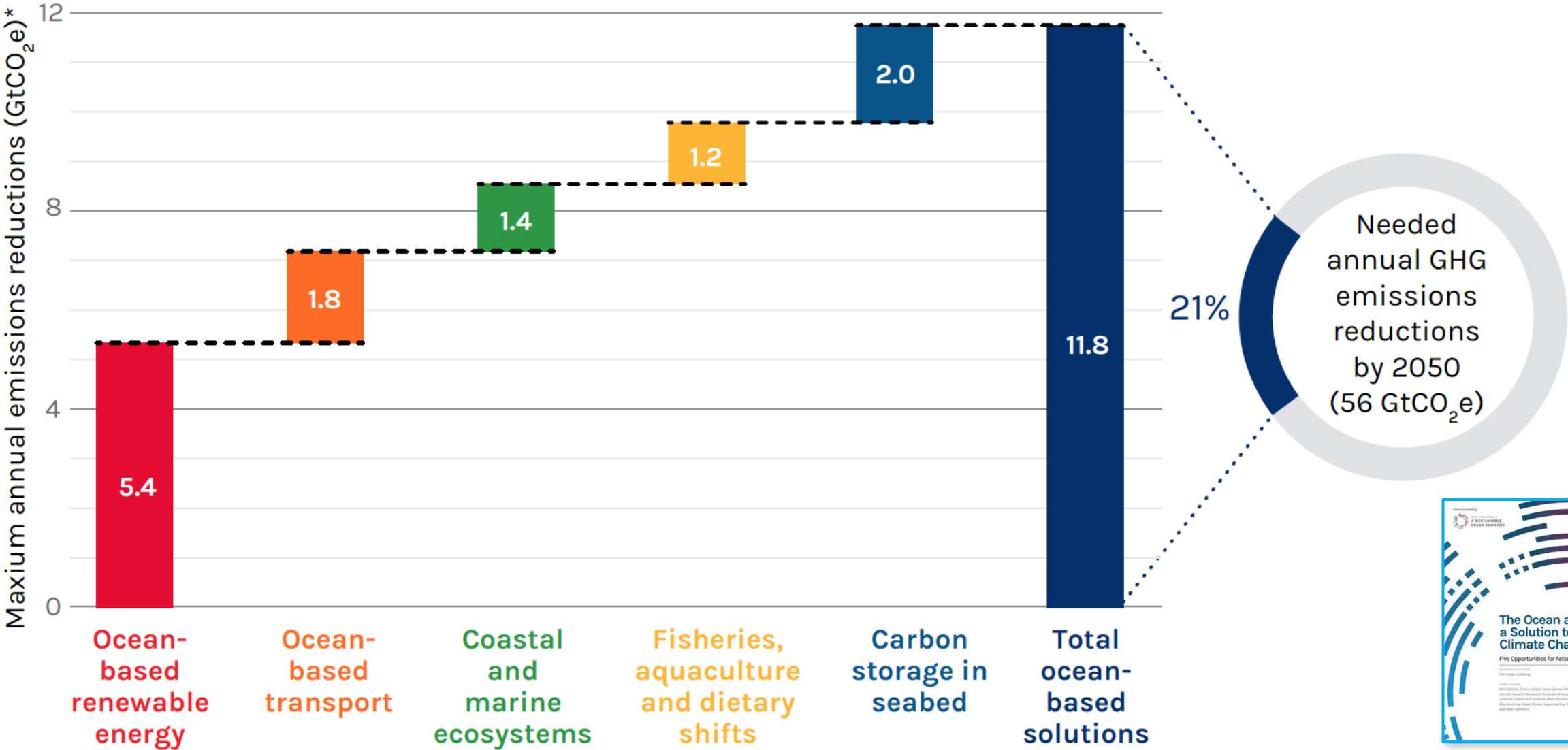
# Qu: What is the mitigation potential from various ocean-based activities?



Hoegh-Guldberg et al. 2019  
<http://www.oceanpanel.org/climate>

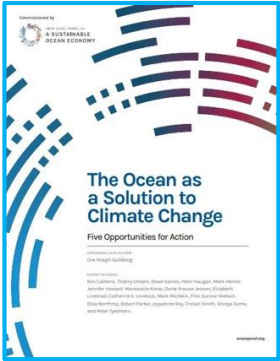


# A: The Ocean is a Major Part of the Climate Solution



(GtCO<sub>2</sub>e) = gigatonnes of carbon dioxide equivalents

<http://www.oceanpanel.org/climate>



# Qu: What actions facilitate adaptation?

## Marine Protected Areas?

Scientific conclusions from thousands of studies around the world

U.S.

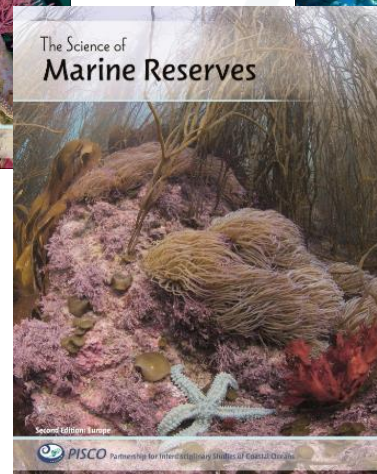
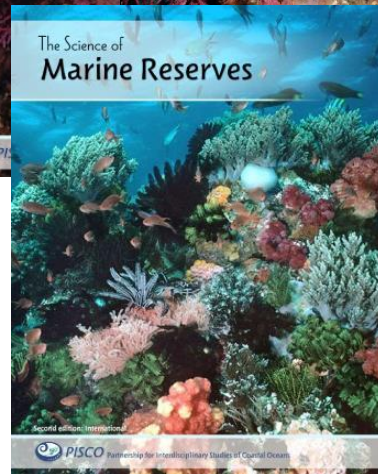


Europe



Latin America &  
Caribbean

International



Mediterranean



# A: Marine Protected Areas that are Fully or Highly Protected

- Protect biodiversity and habitats
- Provide spill over
- Protect big individuals
- Export larvae
- Restore ecological balance
- Buffer against mistakes & uncertainty



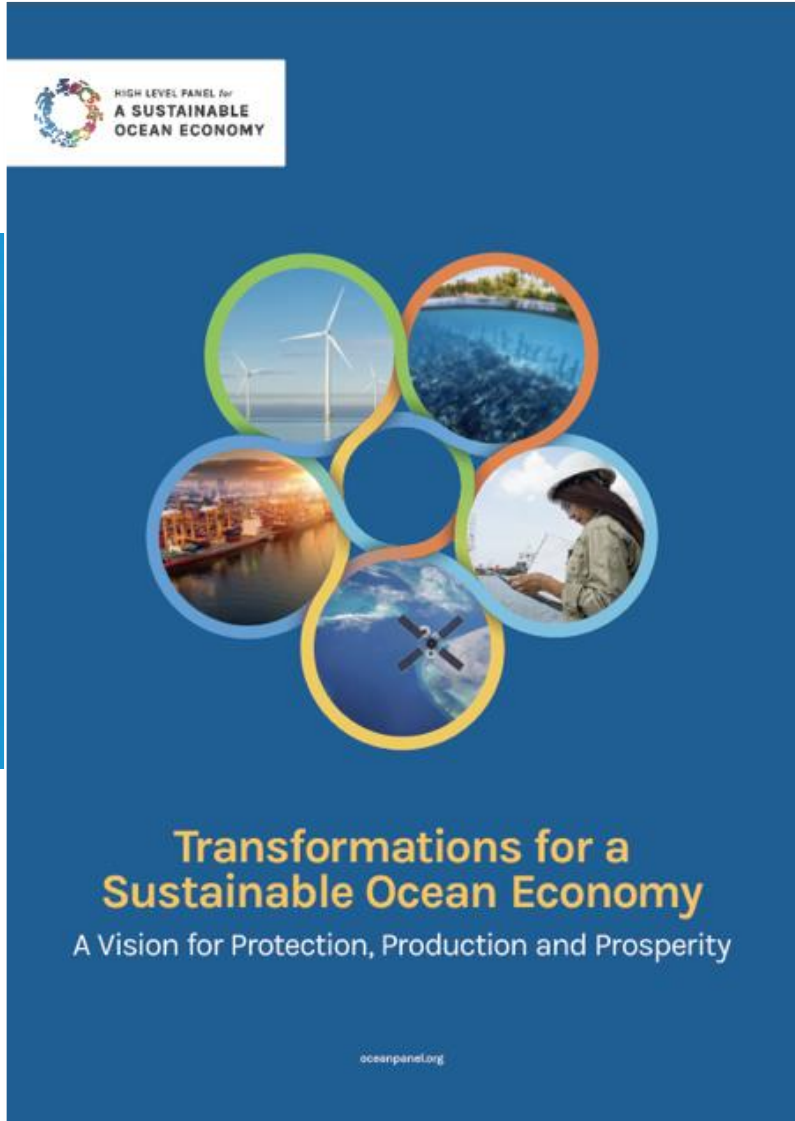
- Provide reference areas
- Protect culturally important species & activities
- **Enhance resistance and resilience in the face of climate change**

Blasiak et al. 2020  
*Nature Sustainability* 3:588

Lubchenco, Grorud-Colvert, et al.  
2016 *Science of Marine Reserves*

MPA Guide:  
<https://beav.es/ouQ>

# Action Agenda: Commitments by Ocean Panel



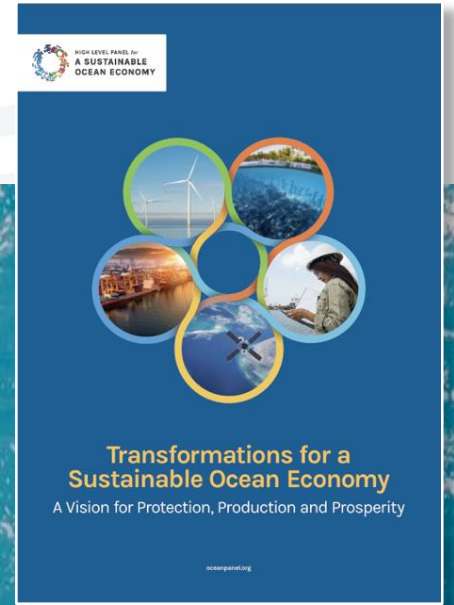
Announced December 2, 2020



# Action Agenda: 74 Commitments by Ocean Panel

Including:

1. Invest in and promote ocean-based renewable energy
2. Incentivise transition to decarbonized shipping
3. Protect and restore blue carbon ecosystems
4. Ban use & carriage of heavy fuel oil in the Arctic through IMO
6. Support a global target to fully protect 30% of the ocean by 2030
7. Sustainably Manage 100% of their EEZs by 2025
8. Work collaboratively with other nations, business & industry, civil society, financial institutions, & intergovernmental bodies



# The Ocean Panel Mission

The 14 world leaders of the Ocean Panel have come together to create a sustainable ocean economy where *effective protection*, *sustainable production* and *equitable prosperity* go hand-in-hand, creating a triple win for people, nature and the economy.



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# Action Groups

Ten multi-stakeholder efforts are emerging in response to the Ocean Panel's action agenda. They will accelerate, scale and finance ocean action.

*Currently these efforts focus on 10 key topics:*



Ocean Impact Innovation



Sustainable Ocean Plans



**Ocean Renewable Energy**



Shipping Decarbonization



**Global Ocean Accounts**



Ocean Finance



Tourism for People and Nature



Build "Bluer" Coalition



Blue Food Partnership



Ocean Data



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## In summary:

1. The ocean provides multiple untapped, powerful opportunities to mitigate and adapt to climate change
2. The Ocean Panel countries have pledged to integrate ocean and climate action.
3. They invite others to join in this endeavor.

# Thank You

*Website:*  
[www.oceanpanel.org](http://www.oceanpanel.org)

*Twitter:*  
[@oceanpanel](https://twitter.com/oceanpanel)

*Contact:*  
[info@oceanpanel.org](mailto:info@oceanpanel.org)



# The Ocean is a Life Source



Humanity's well-being is deeply intertwined with the health of the ocean.



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