

# Soft Power of Japan in the Middle East

2020-9-18 IEEJ

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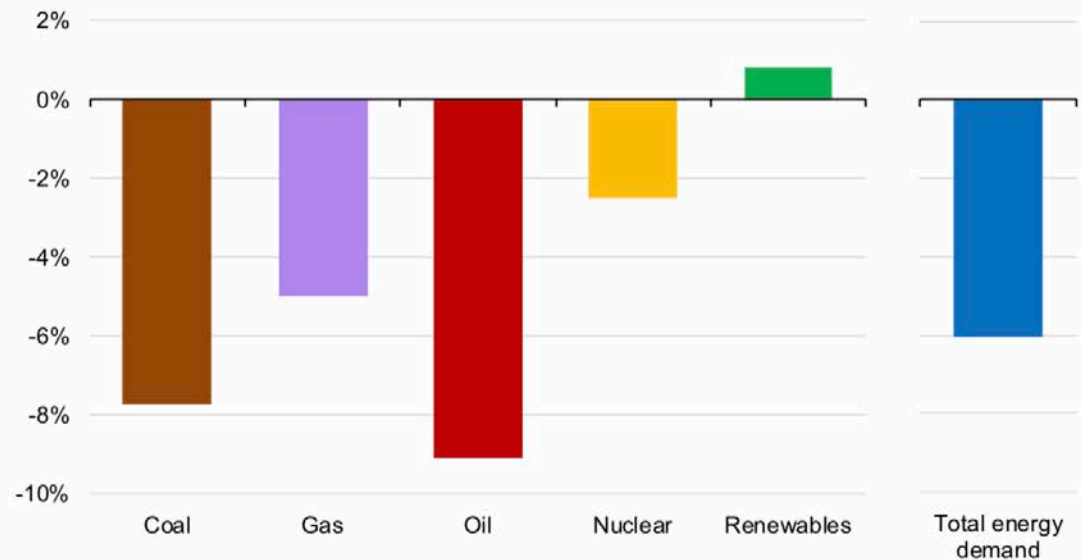
COE, Tanaka Global, Inc.

Former Executive Director, IEA

**Dr. Fatih Birol, Executive Director of the International Energy Agency (IEA), said that COVID19 made for a historic “Black April” for the oil markets.**



Projected change in primary energy demand by fuel in 2020 relative to 2019



Global Energy Review 2020

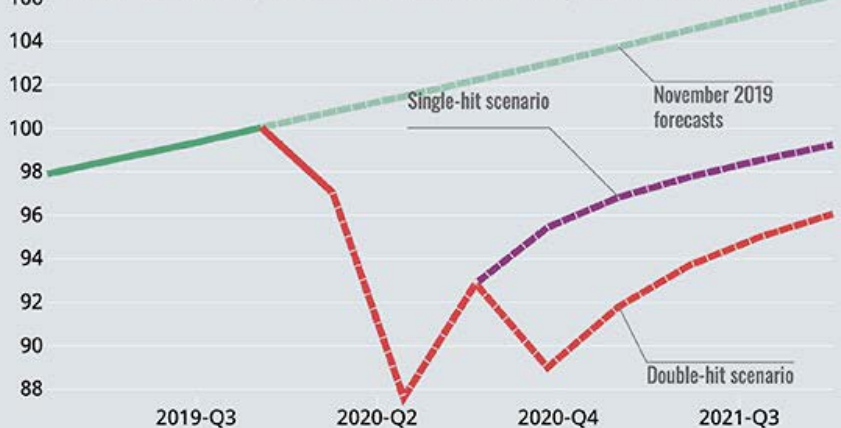
IEA 2020. All rights reserved.

April's oil demand declined by 29 million barrels per day; almost 30 % of global demand collapsed due to the lockdowns.

## A collapse in output followed by a slow recovery

World GDP, index 2019-Q4=100

In both scenarios, we won't be back at 2019-Q4 level for at least 2 years



Source: OECD (2020), "OECD Economic Outlook No. 107 (Edition 2020/1)", OECD Economic Outlook: Statistics and Projections (database).

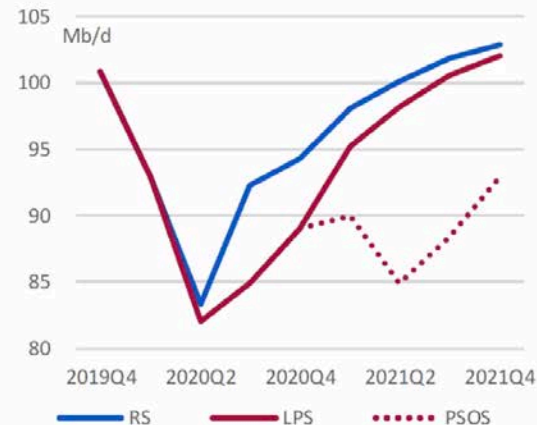
## Oil demand up to 2021



World oil demand

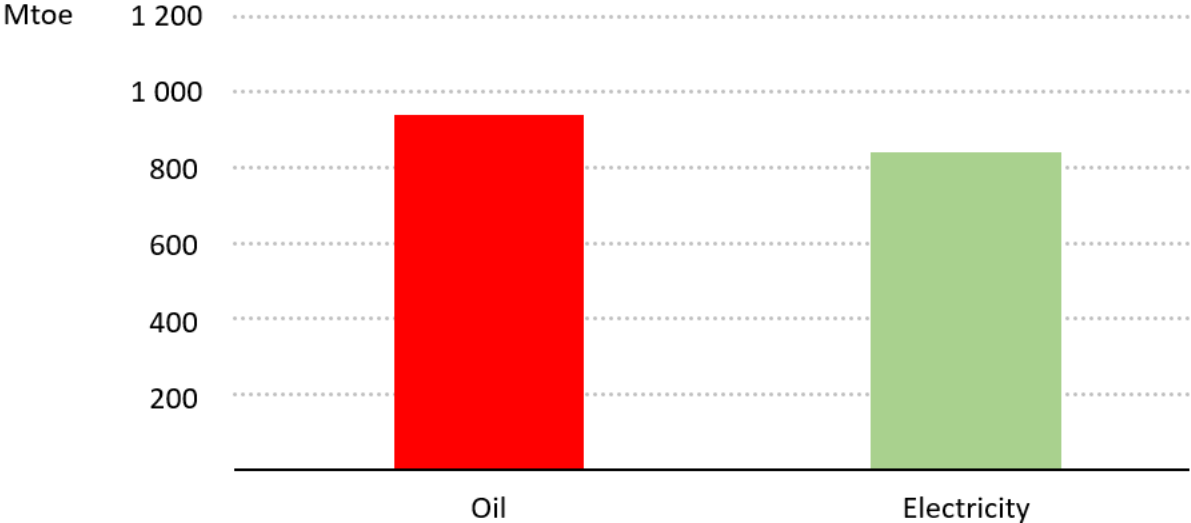


Oil demand by quarter



# The 20-year switch

Change in global oil and electricity consumption, 2000 - 2018



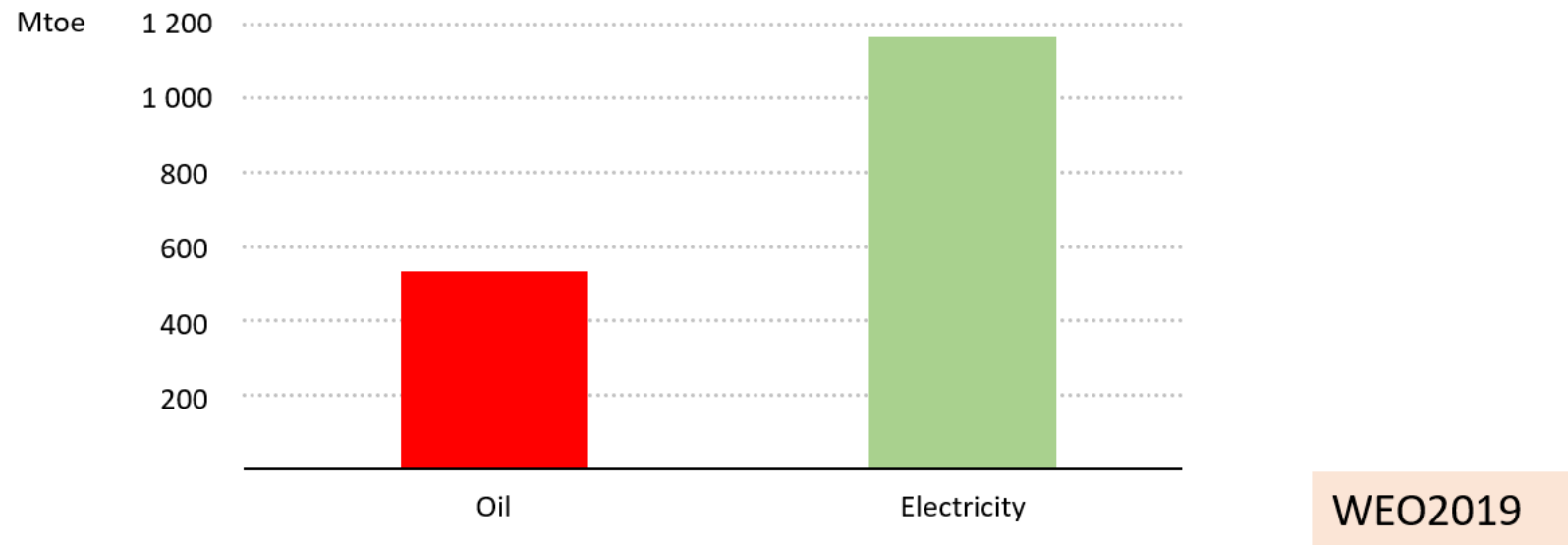
WEO2019

When consumers needed more energy in the past, they traditionally turned to oil

# The 20-year switch

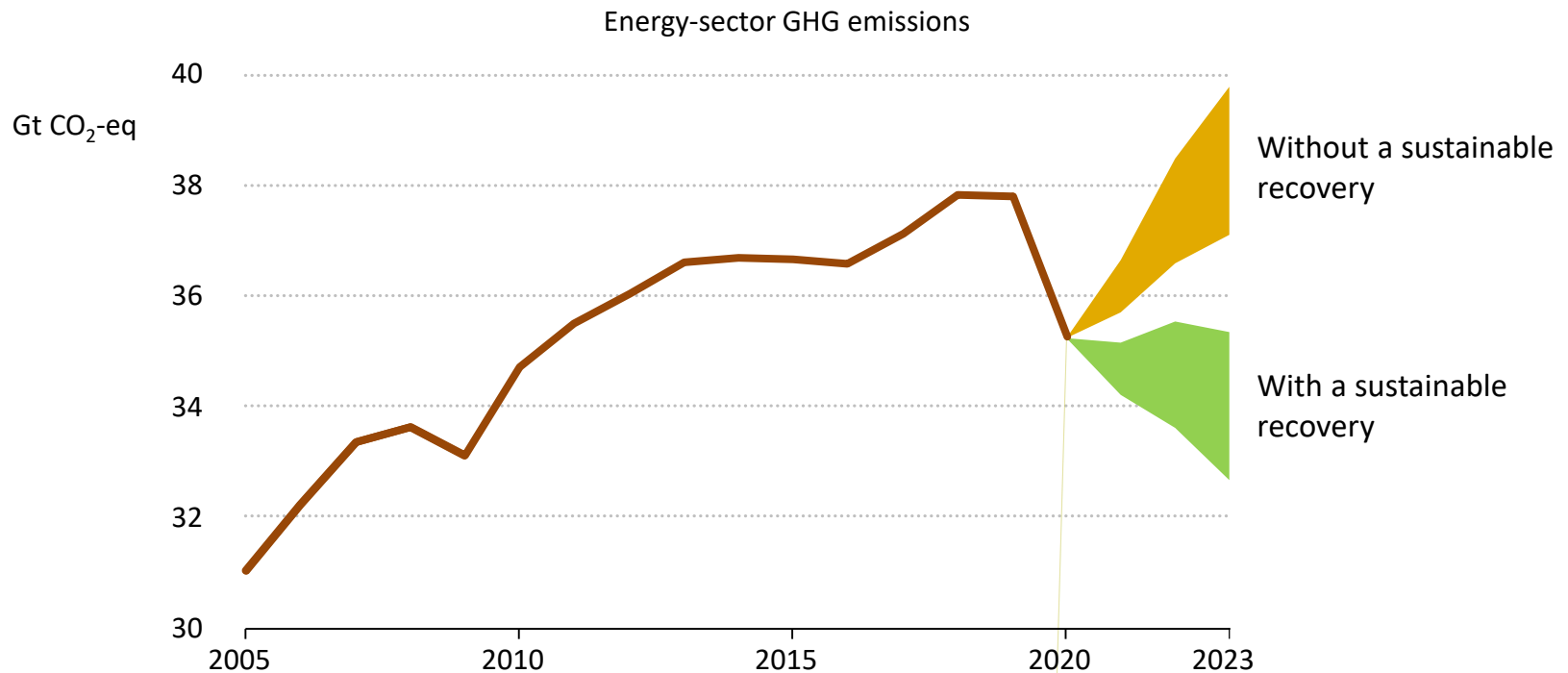
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Change in global oil and electricity consumption in the Stated Policies Scenario, 2018 - 2040



When consumers needed more energy in the past, they traditionally turned to oil  
In the future, they turn first to electricity – even more so in the Sustainable Development Scenario

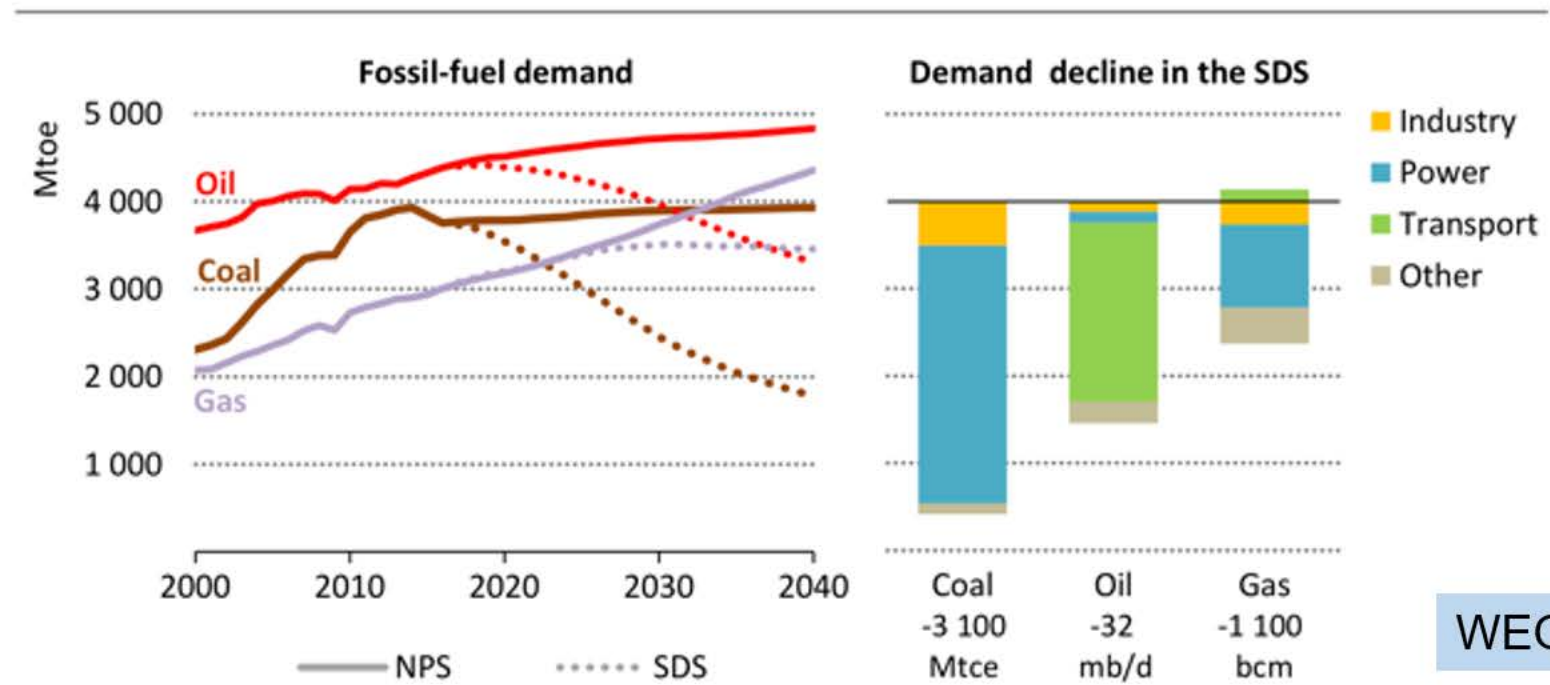
# Sustainable Recovery from COVID-19: Energy systems would shift towards structurally cleaner ones



The plan would make 2019 the definitive peak in global emissions, reducing GHG emissions by 4.5 billion tonnes and putting them on a path towards achieving long-term climate goals, including the Paris Agreement.

# No Peak Oil Demand happens in New Policies Scenario but it does in Sustainable Development Scenario

**Figure 3.18** ▸ Fossil-fuel demand by scenario and decline by sector in the Sustainable Development Scenario relative to the New Policies Scenario, 2040

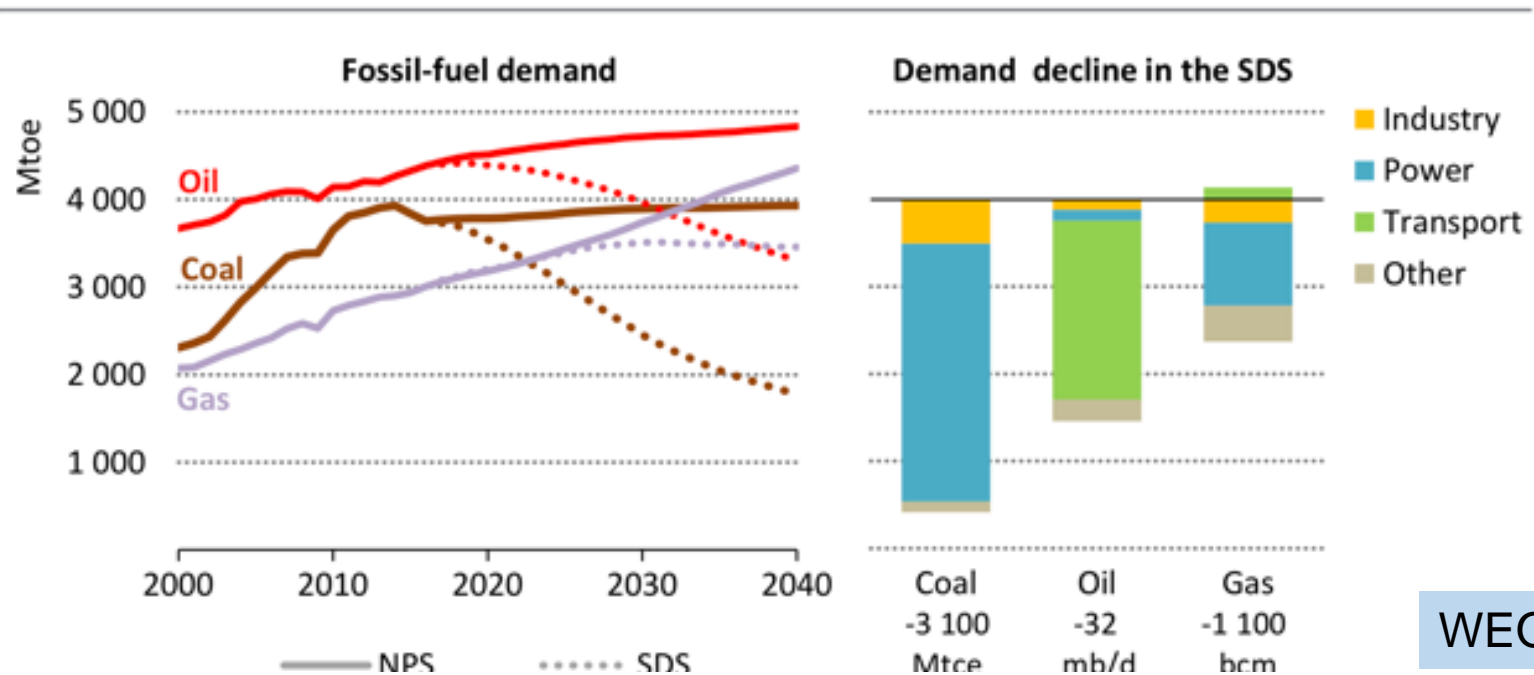


*In the Sustainable Development Scenario, natural gas overtakes first coal and then oil to become the first among fossil fuels by the late 2030s*

WEO2017

# Saudi Aramco worries if Peak Oil Demand happens much earlier than expected. But it may have happened by COVID19.

**Figure 3.18** ▸ Fossil-fuel demand by scenario and decline by sector in the Sustainable Development Scenario relative to the New Policies Scenario, 2040



WEO2017

The Stone Age didn't end because we ran out of stones.

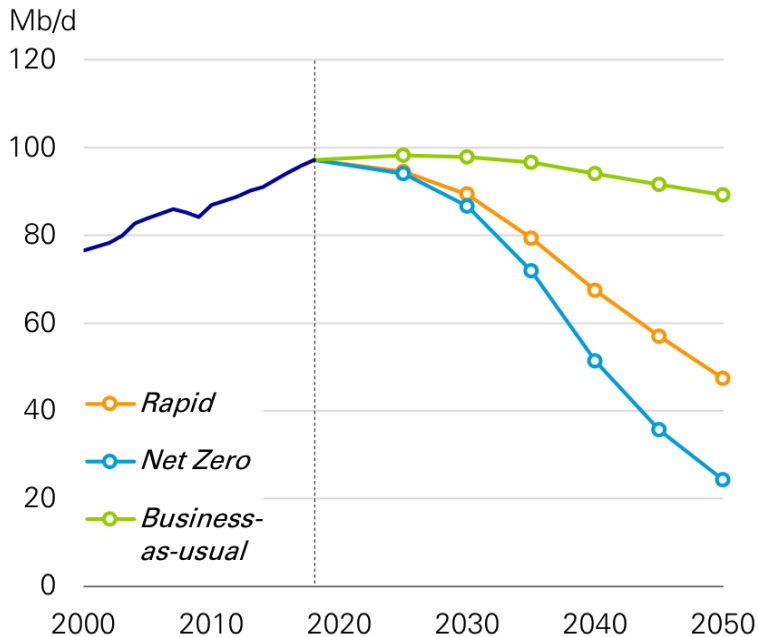


# Peak oil is closer than you think: BP

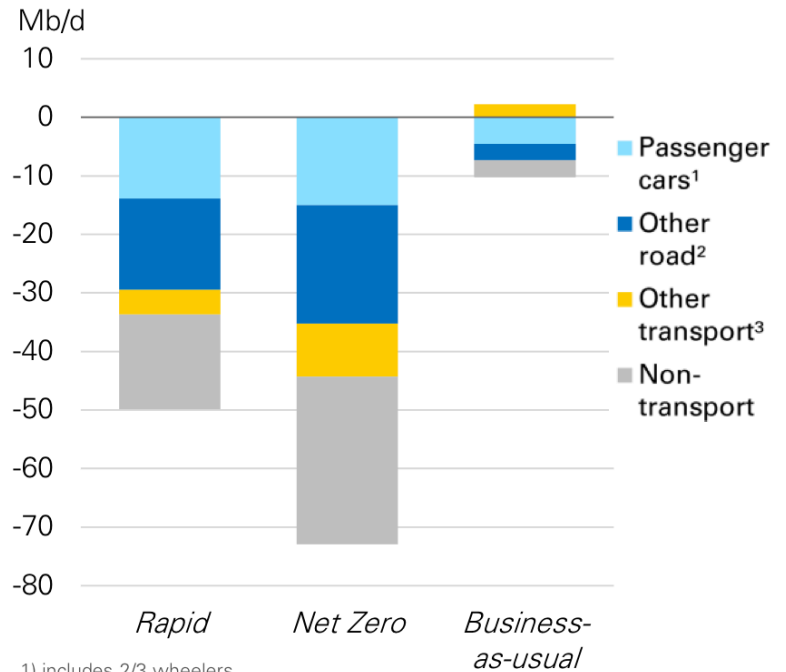


## Outlook for oil demand

Oil consumption



Change in oil demand, 2018-2050

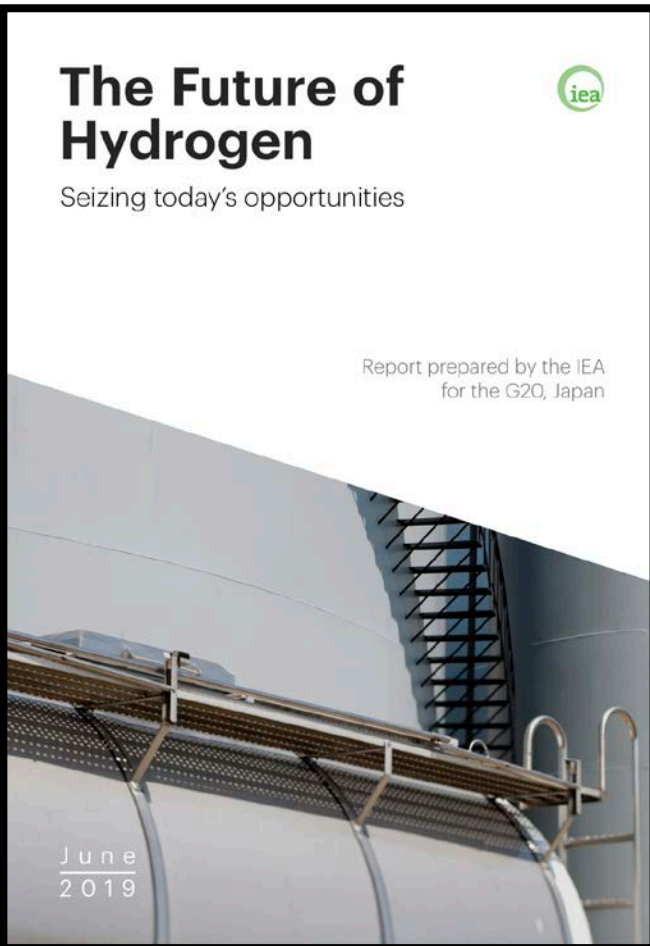


1) includes 2/3 wheelers  
 2) trucks and buses  
 3) aviation, marine and rail

# IEA's "Sustainable Recovery Plan" calls for four technologies

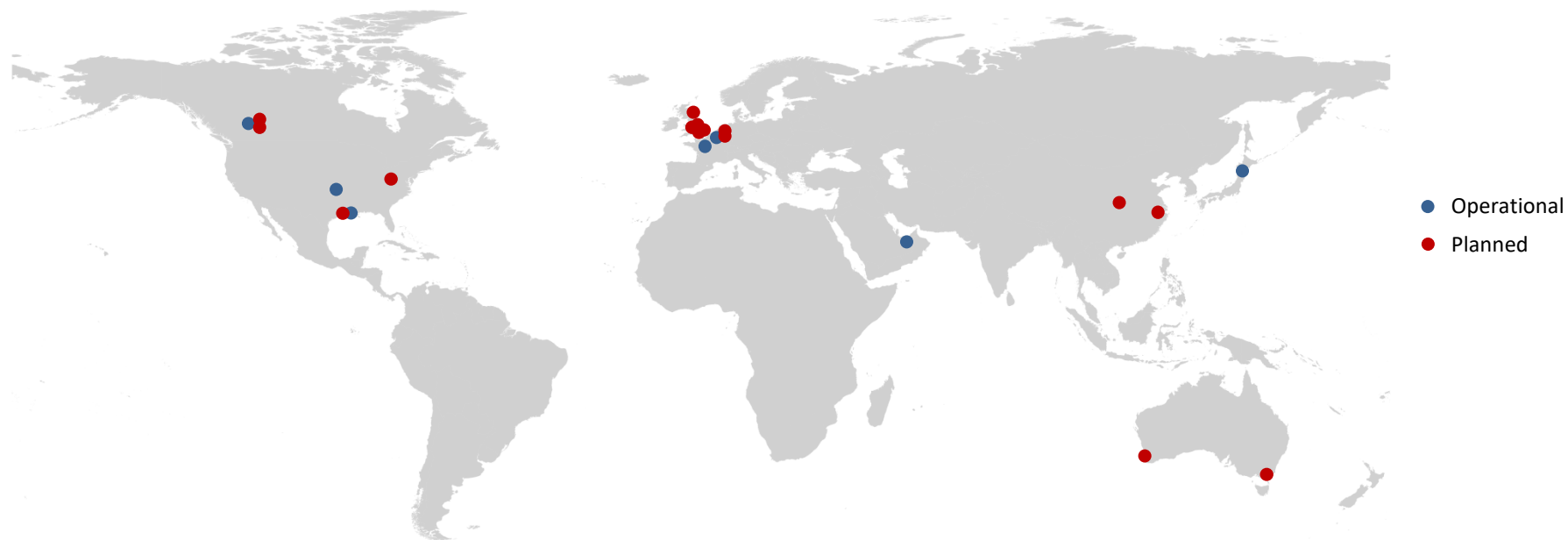
- boost innovation in crucial technology areas including hydrogen, batteries, carbon capture utilisation and storage, and small modular nuclear reactors.
- The plan would make 2019 the definitive peak in global emissions, putting them on a path towards achieving long-term climate goals, including the Paris Agreement.

# Hydrogen – A common element of our energy future ?



- Momentum currently behind hydrogen is unprecedented, with more and more policies, projects and plans by governments & companies in all parts of the world
- Hydrogen can help overcome many difficult energy challenges
  - **Integrate more renewables**, including by enhancing storage options & tapping their full potential (Green H2)
  - **Help Oil, Coal and Gas exporters** by providing clean alternatives with CCS (Blue H2)
  - **Decarbonize hard-to-abate sectors** – steel, chemicals, trucks, ships & planes
  - **Enhance energy security** by diversifying the fuel mix & providing flexibility to balance grids
- But there are challenges: **costs** need to fall; **infrastructure** needs to be developed; **cleaner hydrogen** is needed; and **regulatory barriers** persist

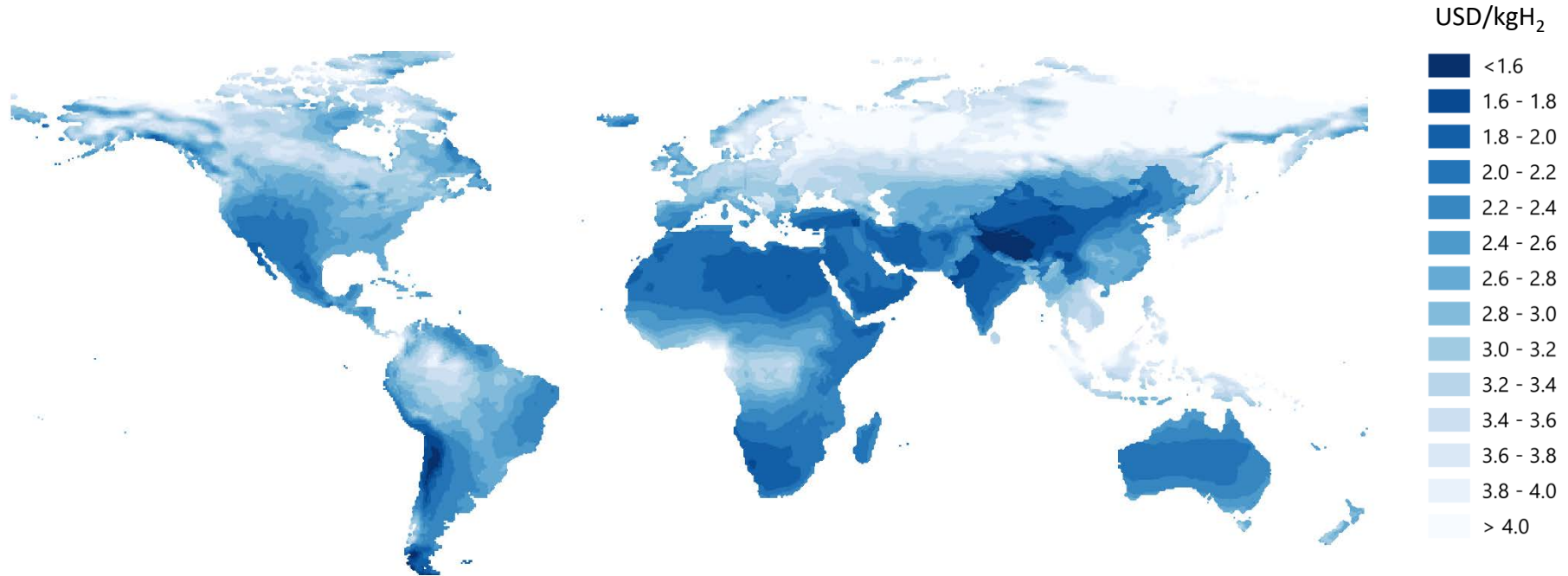
# Hydrogen production with CO<sub>2</sub> capture is coming online (Blue H<sub>2</sub>)



**Low-carbon hydrogen from fossil fuels is produced at commercial scale today, with more plants planned. It is an opportunity to reduce emissions from refining and industry.**

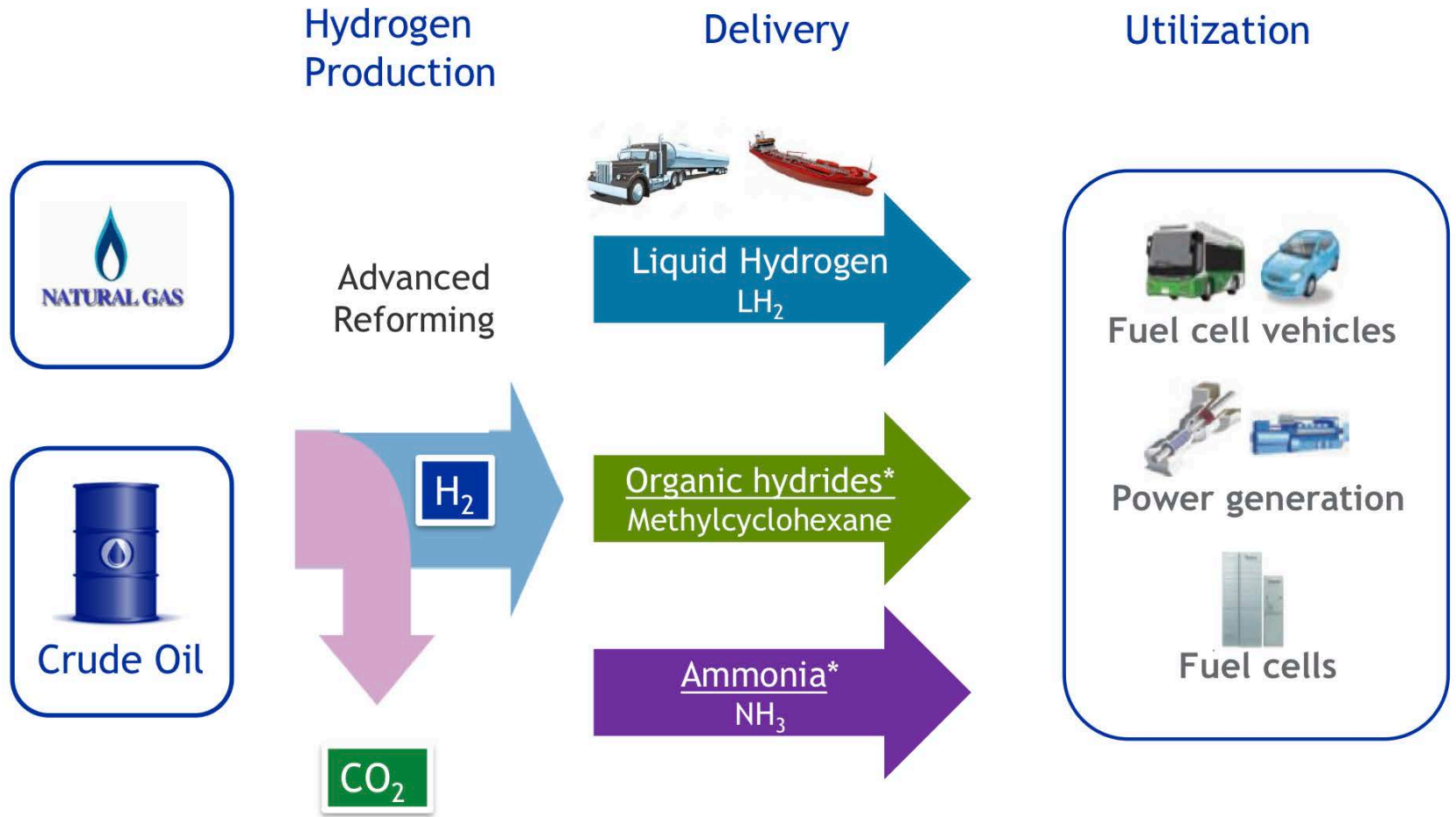
# Renewables hydrogen costs are set to decline (Green H2)

Long-term hydrogen production costs from solar & wind systems

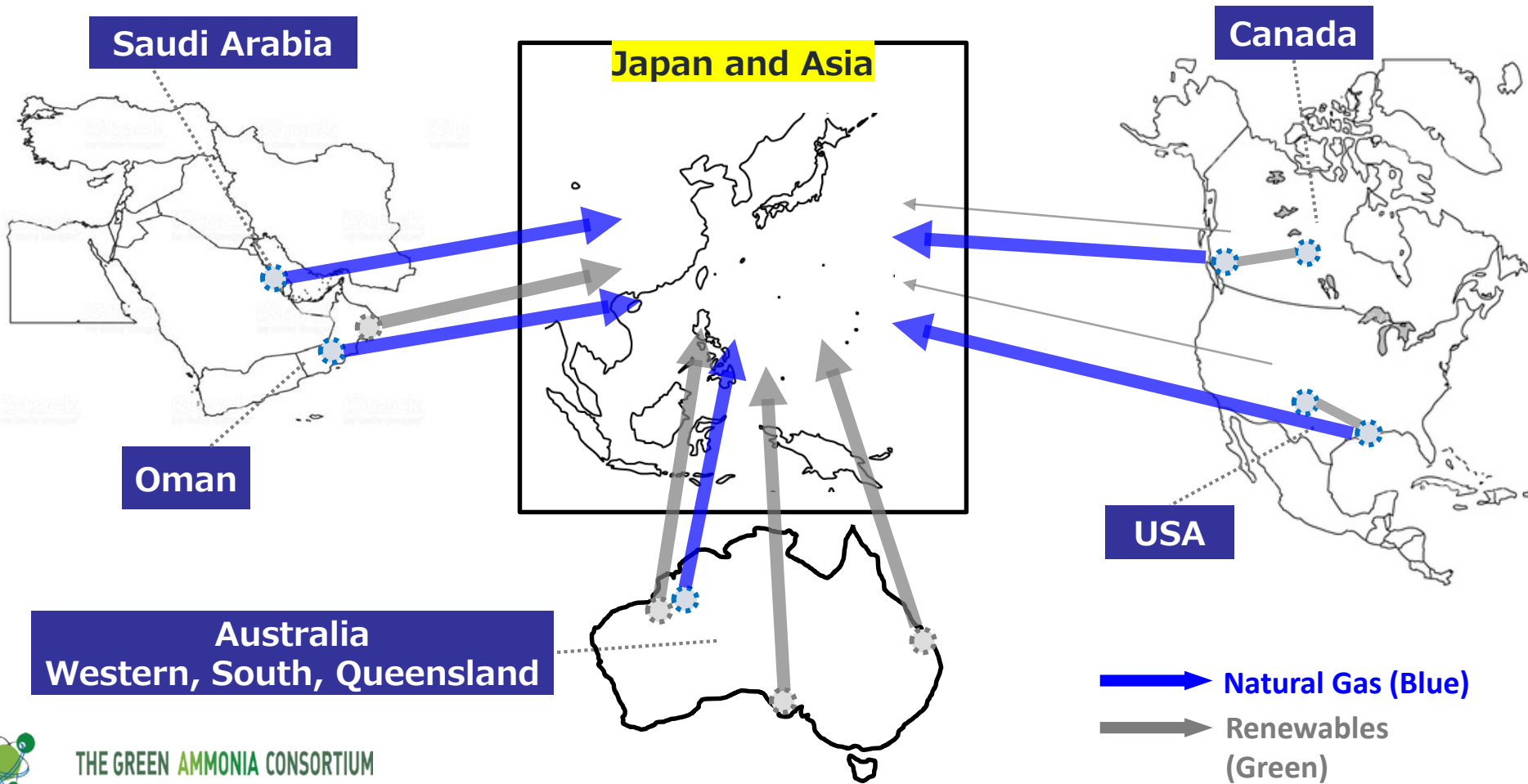


**The declining costs of solar PV and wind could make them a low-cost source for hydrogen production in regions with favourable resource conditions.**

# Development of CO<sub>2</sub> free hydrogen value chain



# Potential Supplies of Blue and Green Ammonia



THE GREEN AMMONIA CONSORTIUM



# What Do Countries With The Best Coronavirus Responses Have In Common? Women Leaders



Avivah Wittenberg-Cox Contributor



Political Leaders Showing the Way 20-FIRST



The Forbes

A huge amount of evidence is emerging that the Coronavirus will have an outsized economic impact on women.



# The Sasakawa Peace Foundation has been working with Iranian Women leaders for gender equality for both countries.



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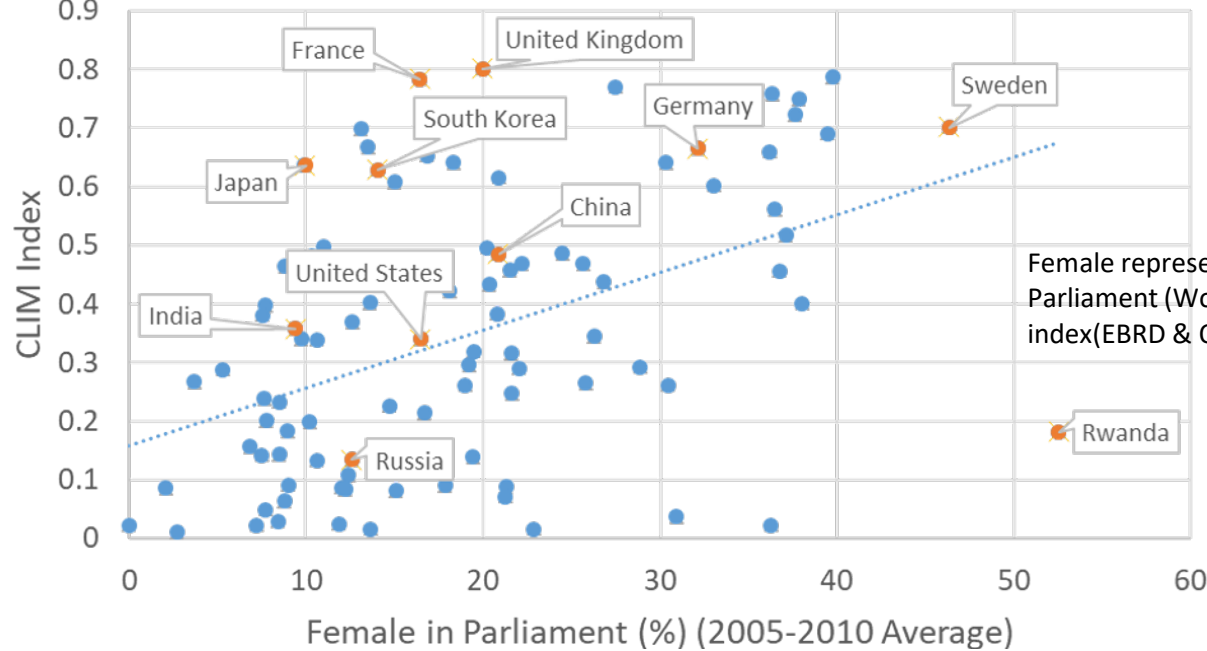


モウラーヴェルディ市民権担当大統領特別補佐

イランのモウラーヴェルディ市民権担当大統領特別補佐官が、女性の経済能力の向上や起業の分野のイランと日本の協力を求めました。

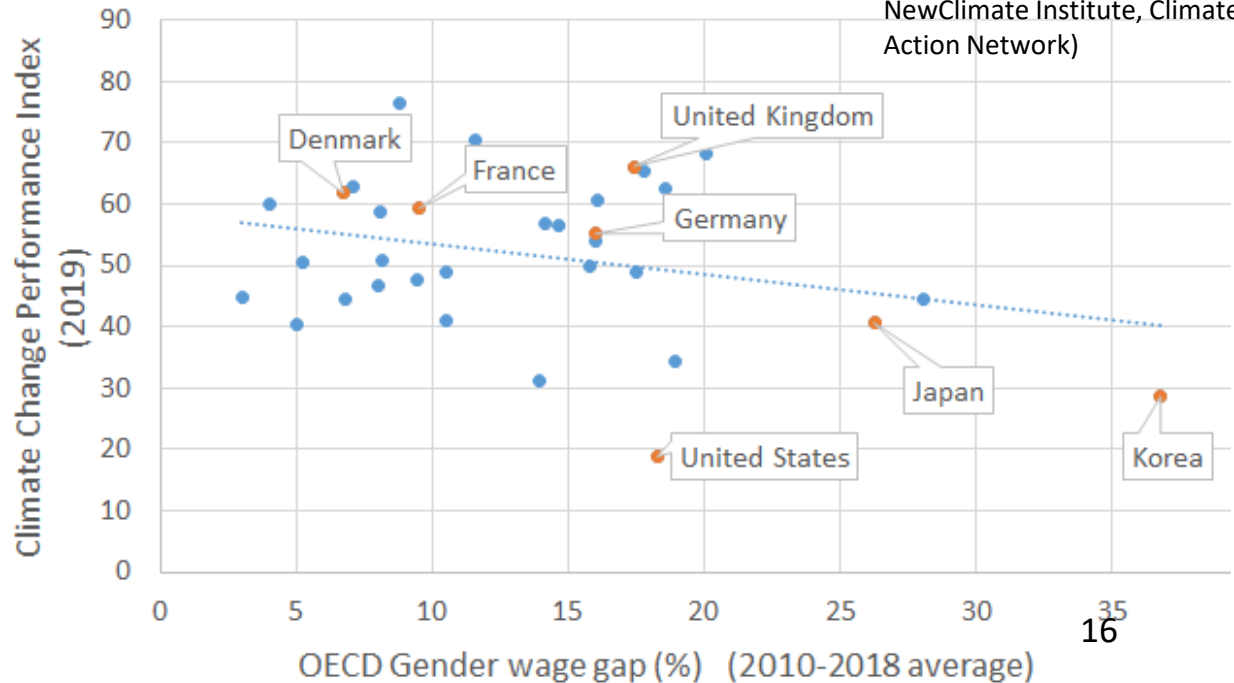
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# Climate Change is NOT Gender Neutral

Gender Wage Gap (OECD) and Climate Change Performance index (Germanwatch, NewClimate Institute, Climate Action Network)



The IFC study's "results offer a convincing argument that having a more gender-balanced board and leadership team contributes to stronger **Environmental**, **Social**, and **Governance** performance, which in turn, leads to better business performance. "



“Bending down the emissions trajectory by Innovation, Green Finance and Women”

Climate Lens Investment should work hand in hand with Gender Lens Investment. DISCLOSURE is the key for success.







# Innovation for Cool Earth Forum 7th Annual Meeting -Virtual Forum-

<https://www.icef-forum.org/>

**OCTOBER 7-8, 2020**

\* Concurrent sessions will be held in advance from late September

**Action toward “Beyond Zero” emission society  
in light of COVID-19;  
with a focus on gender equality**

