

Humanising energy transition: closing the gap

IEF – IRENA
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WORLD
ENERGY
COUNCIL

World Energy Council

- Established in **1923**
- First **pragmatic “how to” global energy transition** community
- Technology and resource **neutral**, apolitical
- We embrace a broader community to enable **sustainable energy future for all.**

“Practical men and women might all advance together”
D.N. Dunlop, in Forward, Transactions of the First World
Power Conference, 1923



Energy transition has entered a new era

Increasing social complexity - a disruptive and accelerating pace of change

ENERGY FOR PEACE
(Nations & Engineers)

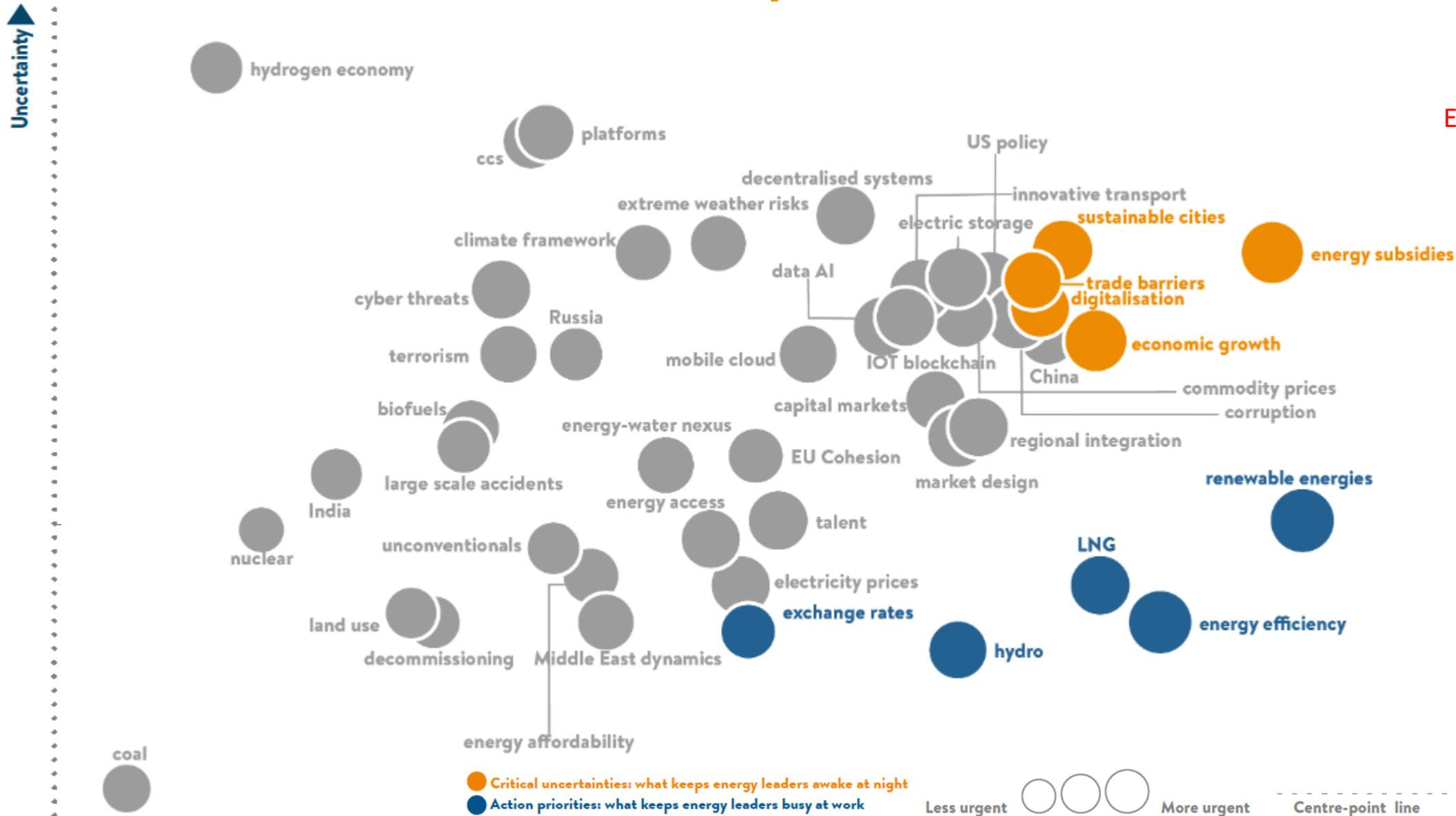
ENERGY FOR GROWTH
(Markets and/or States)

ENERGY FOR HUMANITY
(Active Customers, Cities,
Transition Communities)



Issues Monitor 2020: OPEC map

Embargoed until
26th Feb 2020



Contrastable perspectives

OPEC

NON-OPEC

Critical Uncertainties

- Sustainable cities
- Energy subsidies
- Economic growth

- Climate framework
- Commodity prices
- Market design

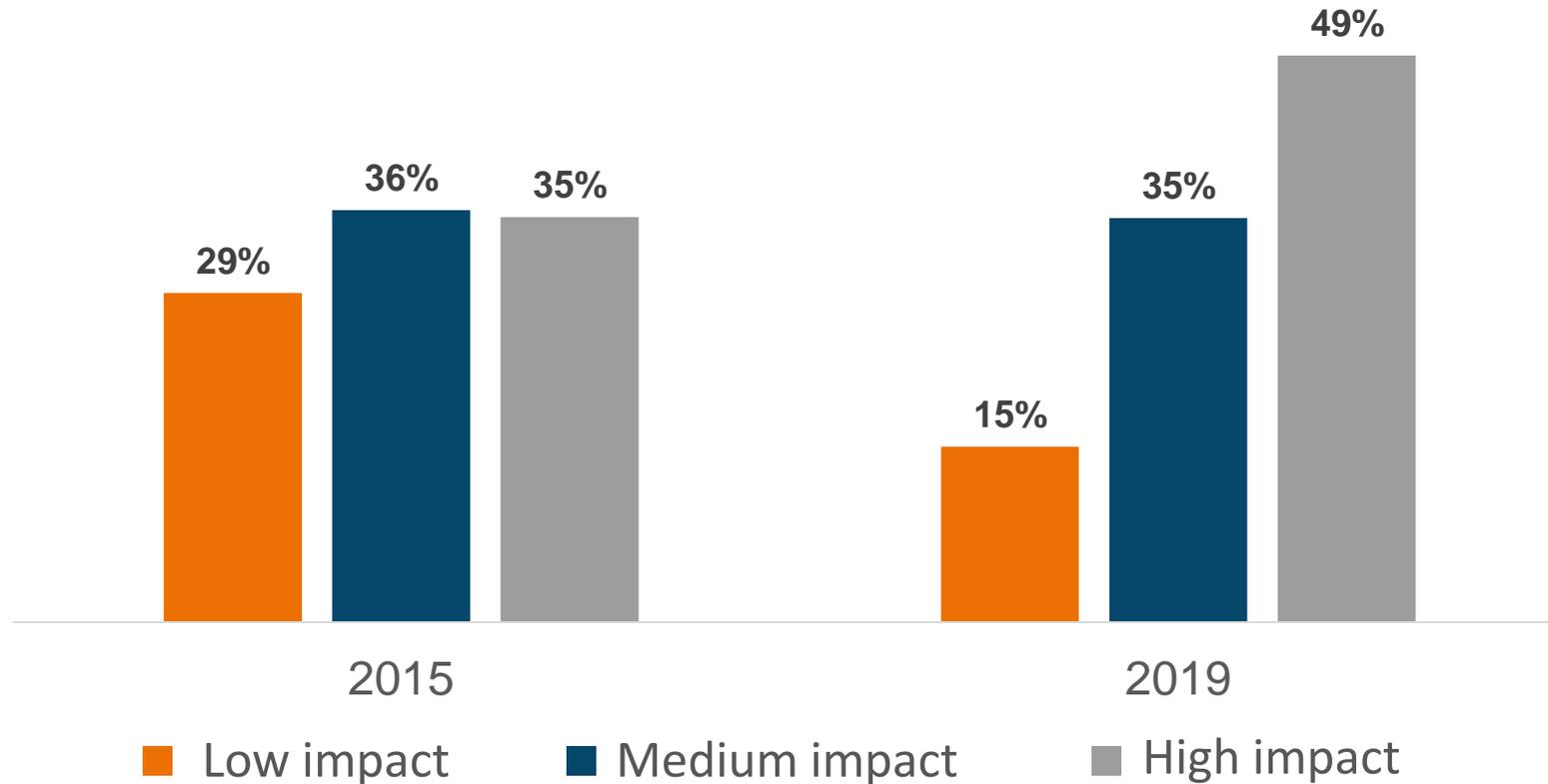
Priority Actions

- Renewable energy
- Energy efficiency
- LNG

- Renewable energy
- Energy subsidies
- Energy efficiency

CCS is gaining in importance

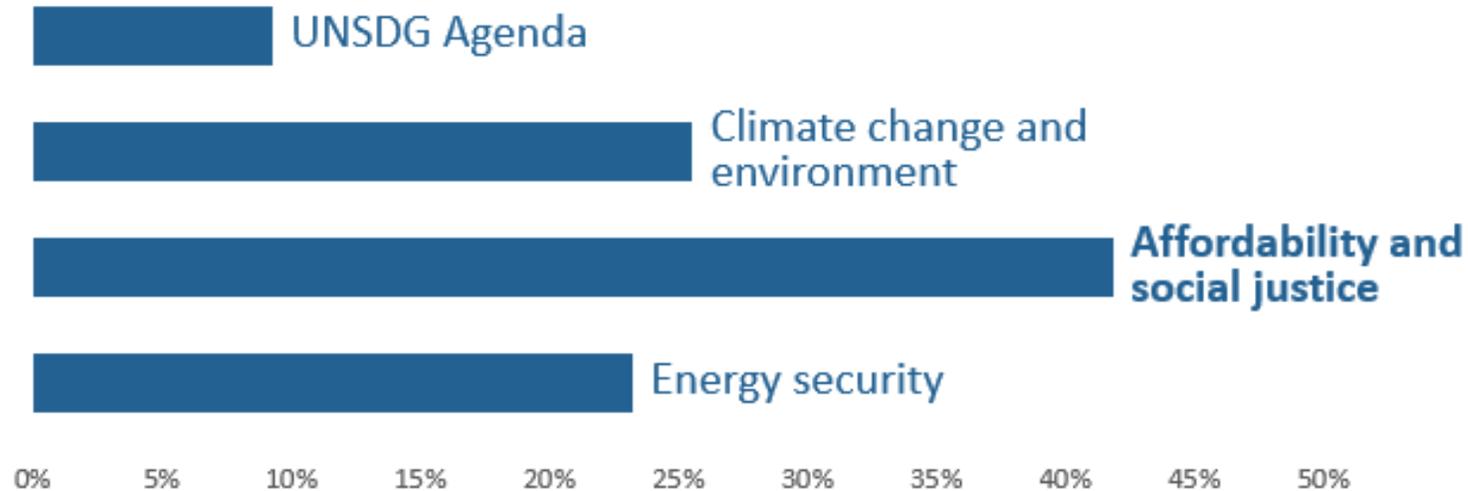
Growing impact of CCS for the global Oil and Gas sector



There are now 19 large-scale CCS in operation globally, four under construction, and 28 in various stages of development.

The risk of fragmentation...

What is the key priority for your country's energy transition?



Trilemma Ministerial Roundtable World Energy Congress (Sept, 2019 Abu-Dhabi)

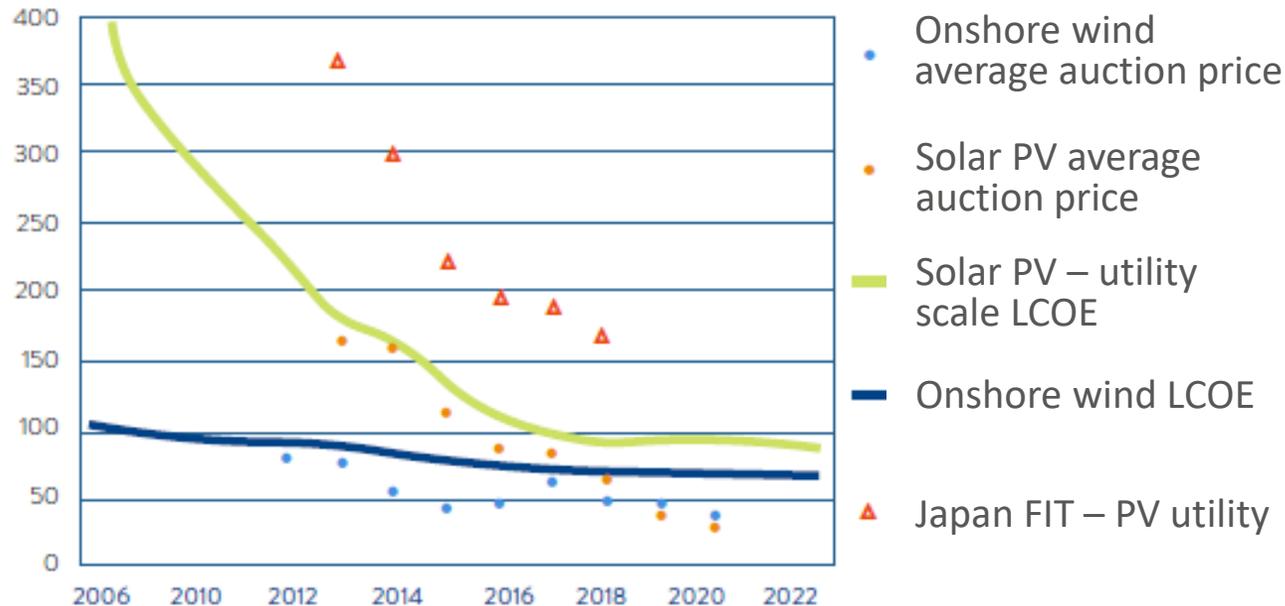


The rise of a broader social impacts agenda in all regions

COSTS GO DOWN



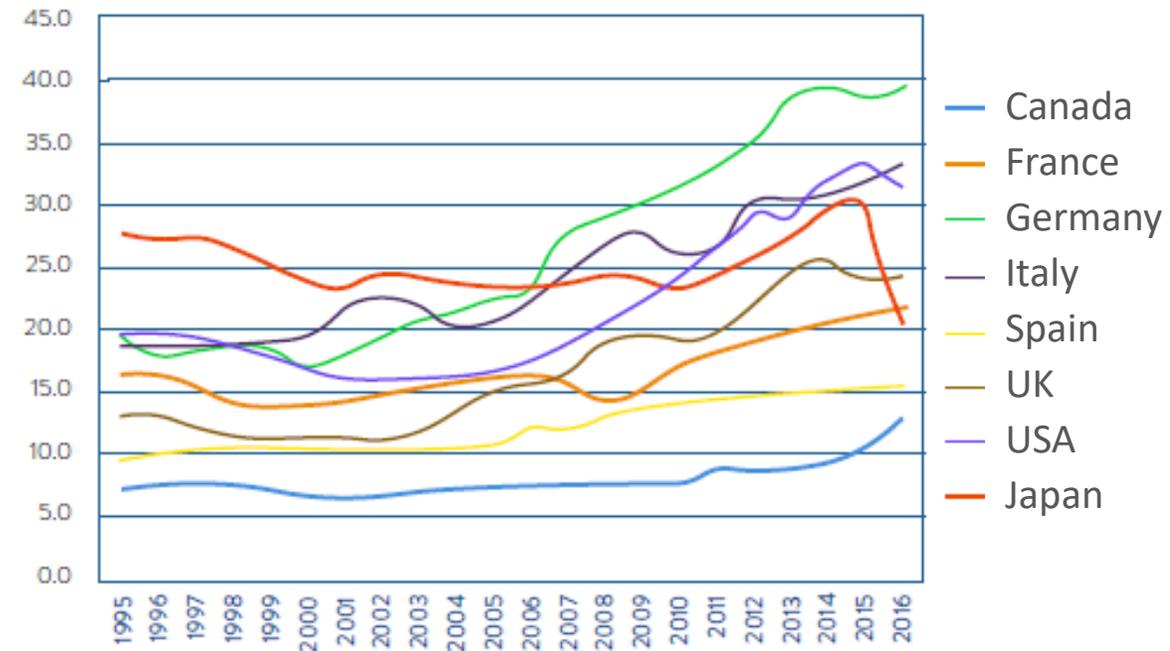
LCOE of renewables (\$/MWh)



PRICES GO UP



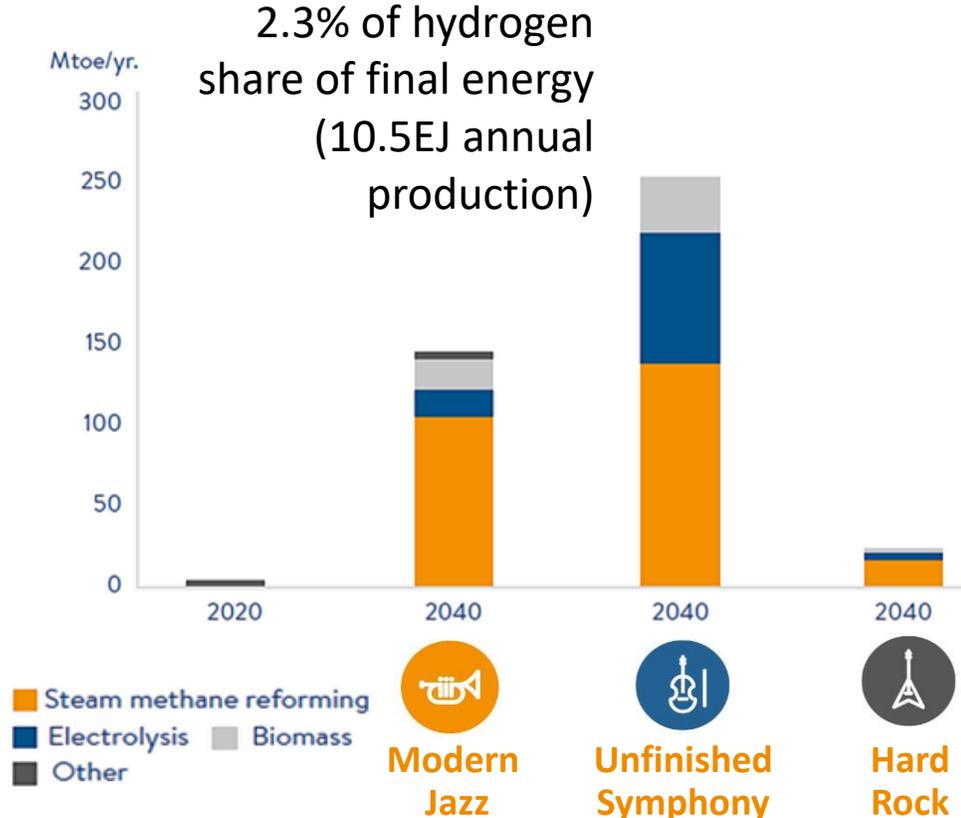
Electricity prices trends (Cent/MWh)



Source: World Energy Council Japanese Member Committee, METI, IEA

The renewable electrification revolution needs friends 😊

Better understanding hydrogen

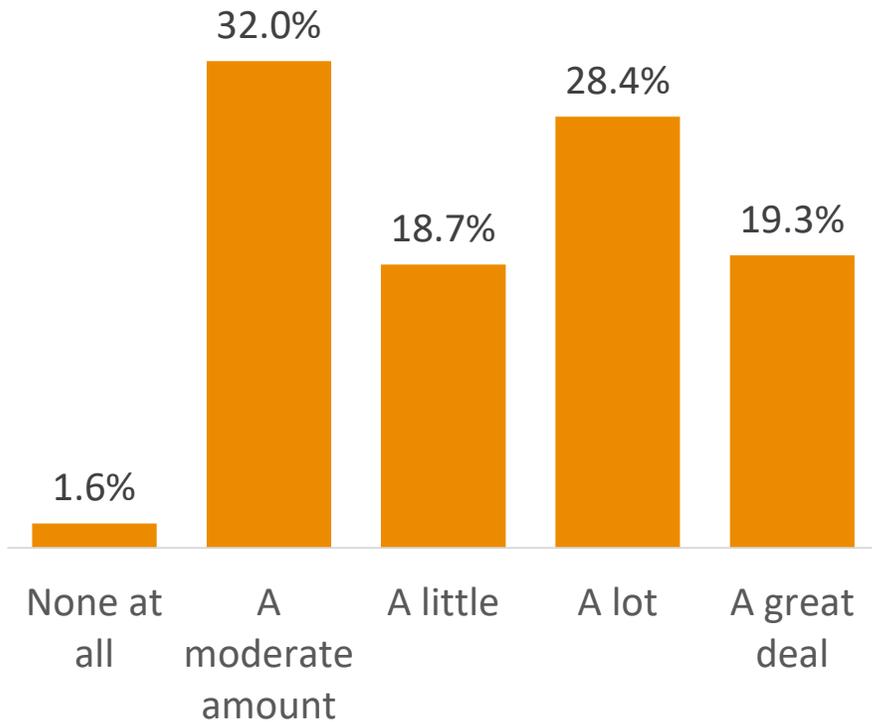


Enabling new pathways that accelerate uptake of hydrogen

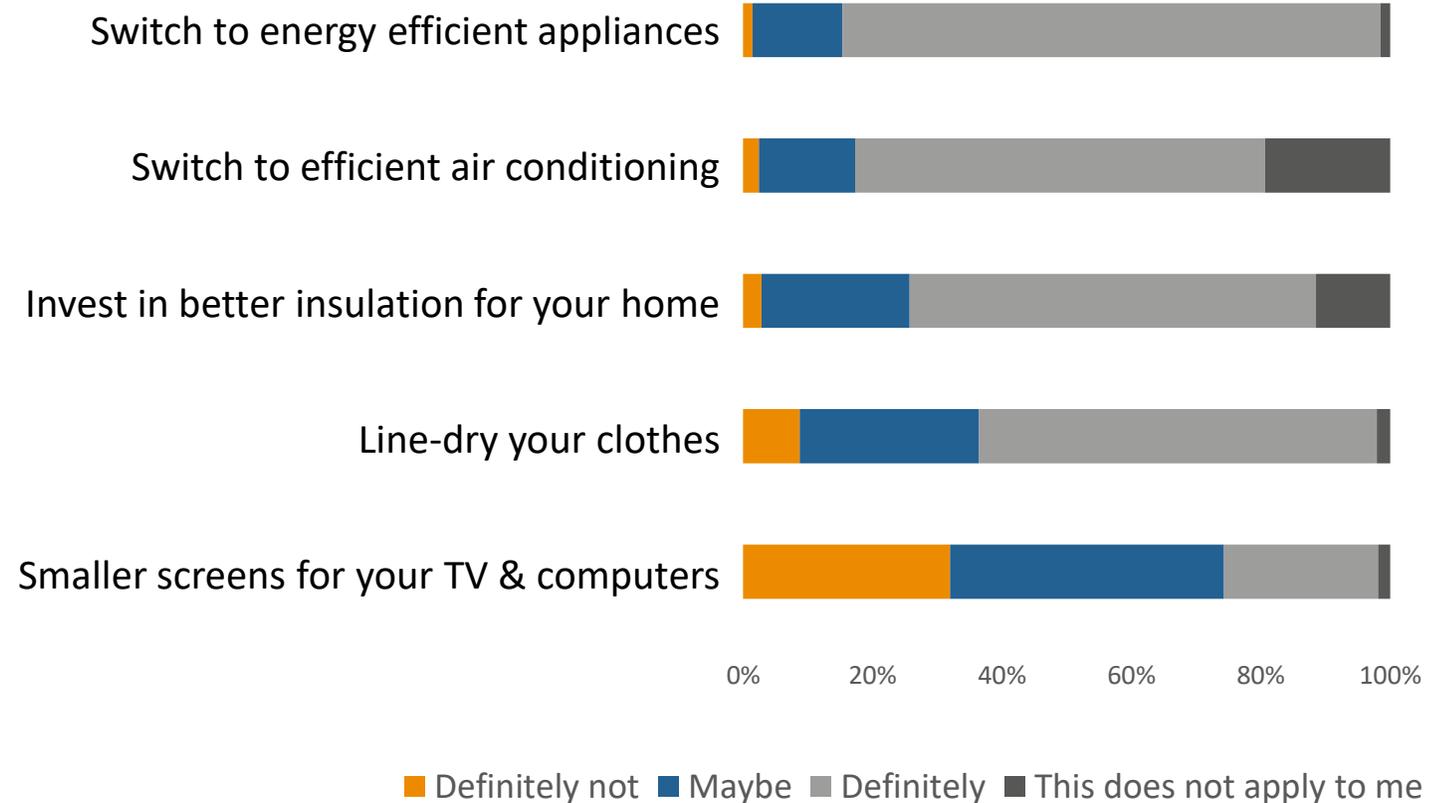


Active customers need to be engaged in closing the gap!

How much do you think your actions can help reduce emissions from energy?



What steps are you willing to take to help decrease your emissions?



HUMANISING ENERGY TRANSITION

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