

**KEYNOTE SESSION** 14:00-15:00

## EUROPE'S GLOBAL RESPONSIBILITY IN COMBATTING CLIMATE CHANGE



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#EEAC30 #CriticalDecade











# Aligning global energy investment with the Paris Agreement

Tim Gould, Chief Energy Economist 30<sup>th</sup> anniversary EEAC Annual Conference, 14 September 2022

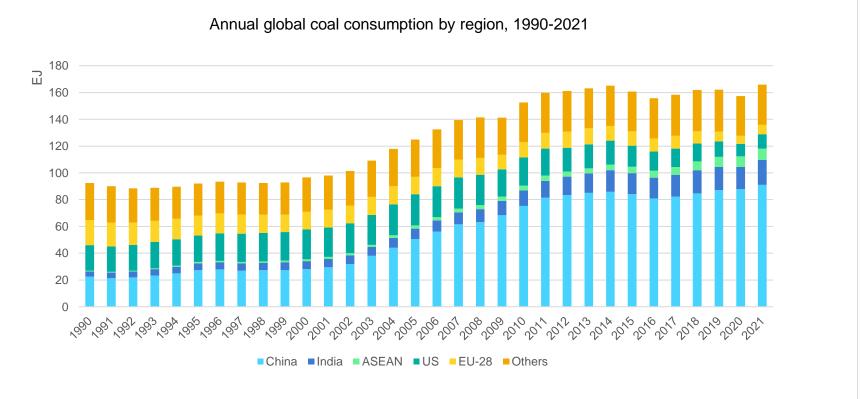
## Gas markets at the centre of the global energy crisis





## Global CO<sub>2</sub> emissions underpinned by robust coal demand

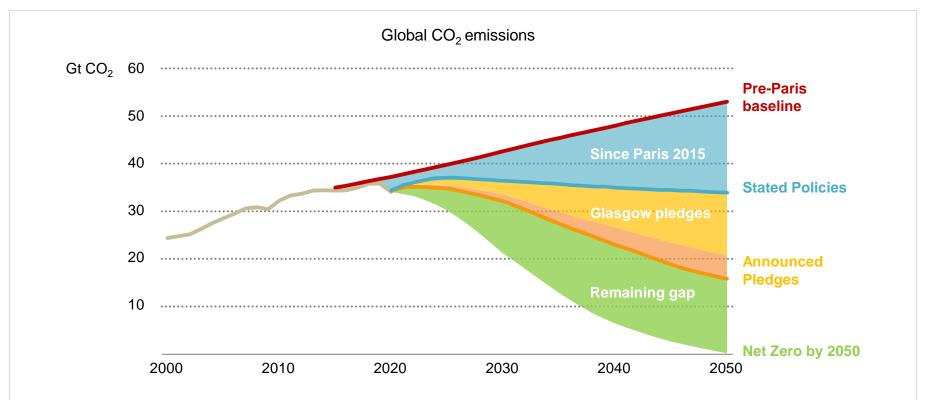




Despite the narrative of the imminent end of coal, global demand has been quite stable for over a decade at historical high levels, putting a floor under global CO<sub>2</sub> emissions

#### Where are we along the road to Net Zero?

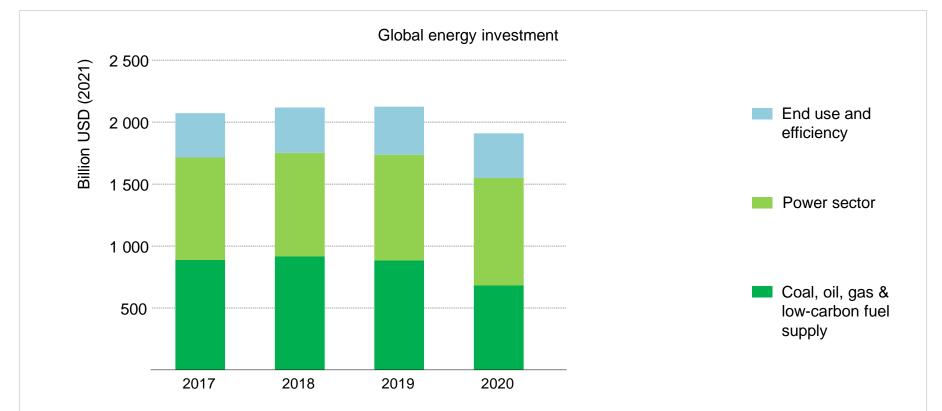




For the first time, today's pledges – if implemented on time and in full – would keep the rise in global average temperatures in 2100 to below 2°C, but there's still a large gap to 1.5°C

## Global energy investment is picking up

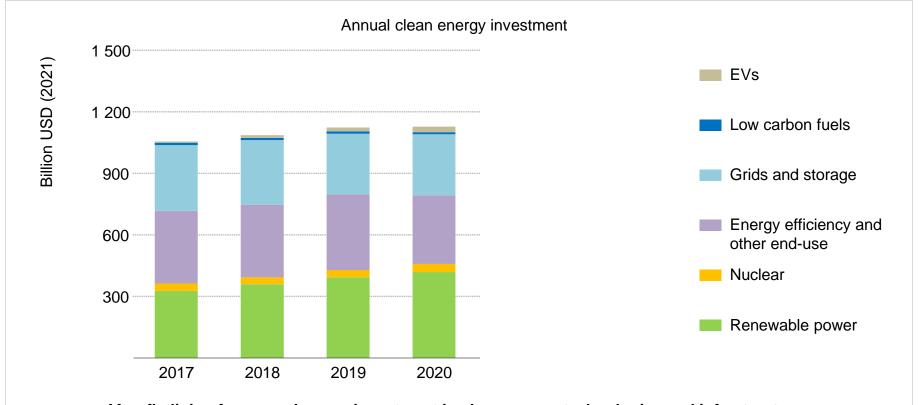




Energy investment is set to rise by 8% in 2022 to reach \$2.4 trillion against the backdrop of the global energy crisis, although almost half of the increase in capital spending is linked to higher costs

#### Investment in energy transitions is – finally – gaining momentum

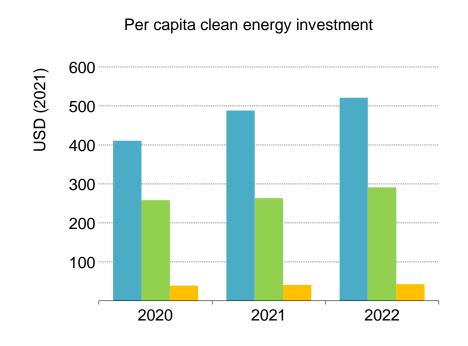




After flatlining for several years, investment in clean energy technologies and infrastructure is stepping up, with renewable power, efficiency and EVs leading the way

## A risk of new dividing lines on energy and climate





**Advanced economies** 

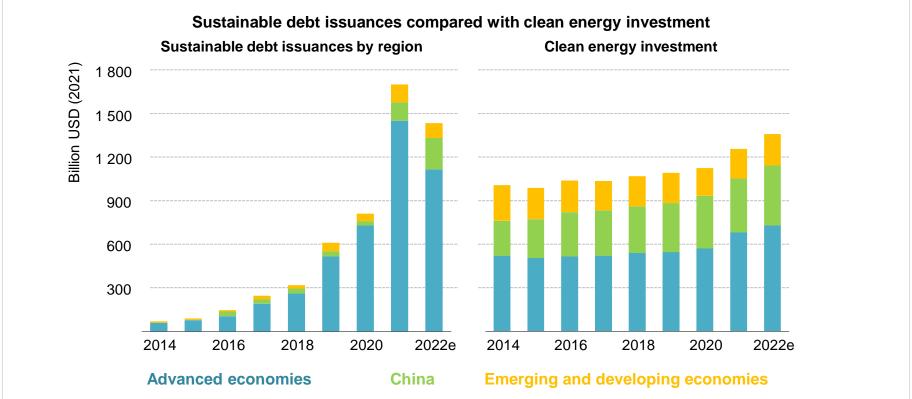
China

**Emerging and developing economies** 

The rise in clean energy spending is concentrated in advanced economies and China: despite some bright spots, like solar in India, in other emerging and developing economies this investment remains stuck at 2015 levels

#### Sustainable finance has boomed... in advanced economies



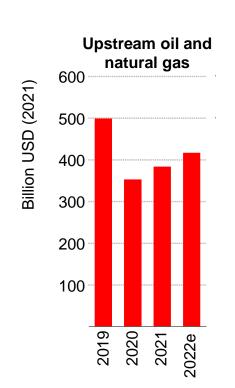


The sustainable debt market more than doubled over 2021, presenting a major opportunity to fund energy transitions, but the effects are concentrated in advanced economies

#### Investments in fuel supply are responding to higher prices...



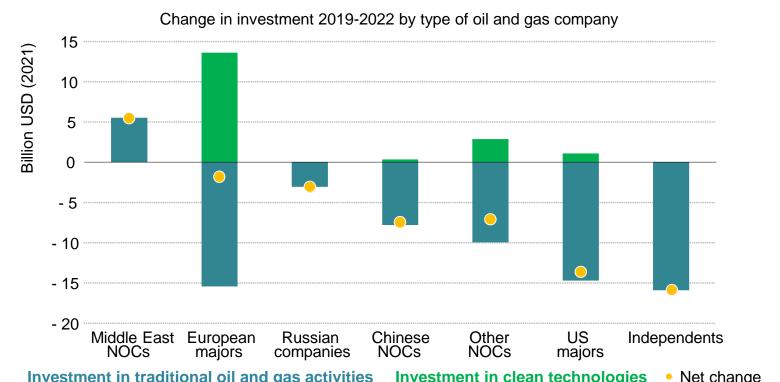
Change in fuel supply investment 2019-22



The energy crisis is spurring new investments in fuels, including an expansion of coal supply in emerging Asia, commitments to new LNG infrastructure, a rise in upstream spending, and new momentum behind low-carbon fuels

#### ...but with a wide range of responses from oil and gas companies





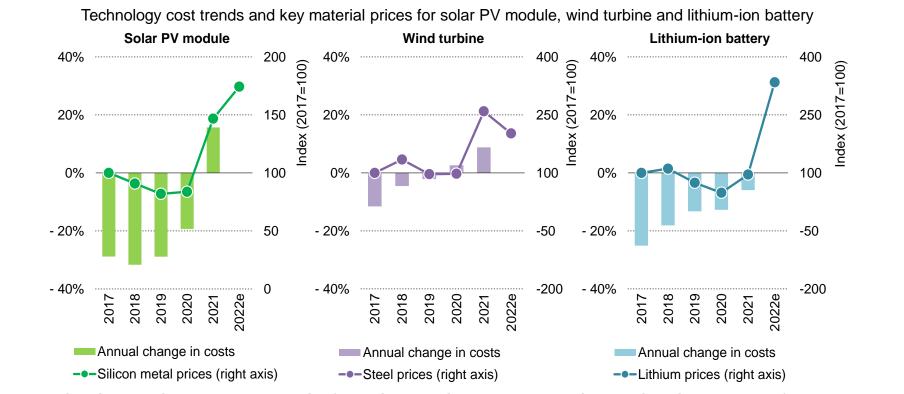
Investment in traditional oil and gas activities 

Investment in clean technologies • Net change

Today's high prices have generated an unprecedented \$2 trillion windfall for oil and gas producers, generating a range of strategic responses from different types of company, only Middle East NOCs are spending more than in 2019

#### Investment in critical minerals is central to successful transitions

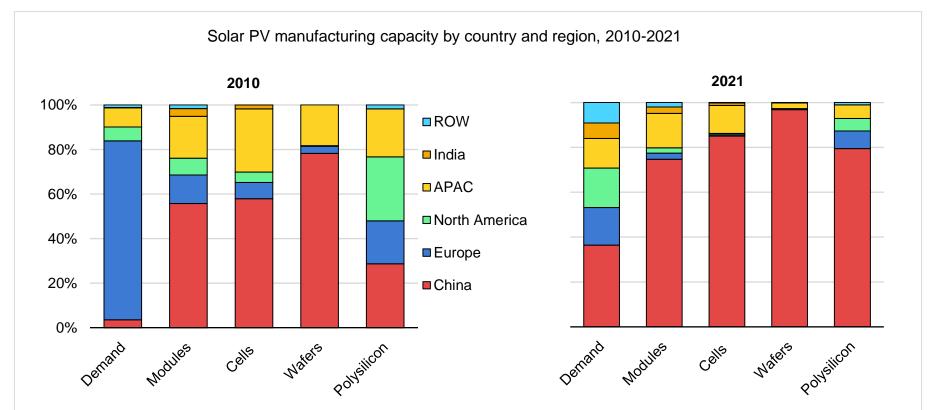




A surge in mineral prices has been a major factor in reversing the longstanding declines in the costs of clean energy, but upticks in investment offer hope for increased and more diversified supply in the years ahead

## China currently dominates global solar PV supply chains

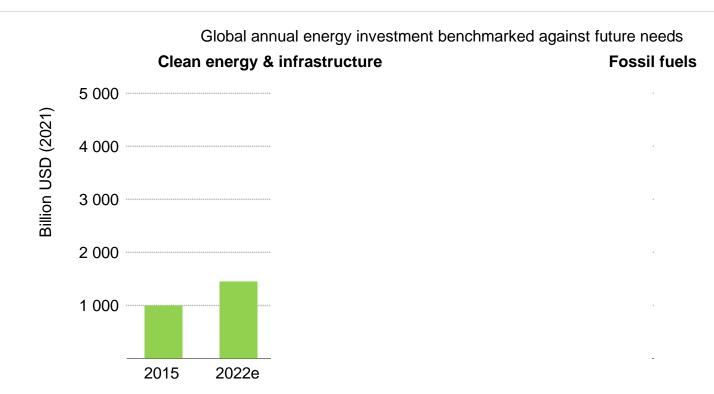




Chinese supply and demand policies have enabled economies of scale and cost reductions in all manufacturing stages. Polysilicon production is currently a bottleneck in an otherwise oversupplied PV manufacturing value chain.

#### Investment trends don't yet answer the energy & climate crises





Investment to bring more clean and affordable energy into the system is rising, but not yet quickly enough to forge a path out of today's crisis or to bring emissions down to net zero by mid-century.



