# We can't burn it all We won't burn it all

**Columbia Center on Sustainable Investment** 

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#### Carbon Tracker in a nutshell

Climate science; finite limits to carbon emissions for any given warming outcome

Carbon budget

Far more fossil fuel is available – thus higher cost assets have greater risk of destroying value in the energy transition

Stranded assets

Falling renewable costs, air pollution and import dependency drives an Inevitable Policy Response & emerging markets leapfrog

**Energy disruption** 

Investors lose money at the peak, not when the system has changed. Refocus, engage and divest company or management

Investors need to act



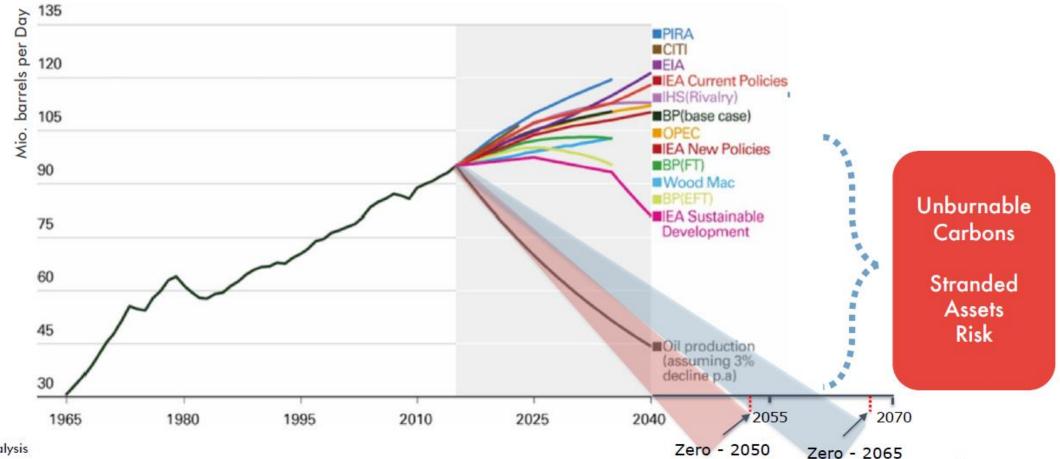
### Fossil fuel sector plans for climate failure

The range of various oil production scenarios.

IPCC emissions scenarios (from all sources) consistent with Paris goals.

Medium-change 1.5C pathways

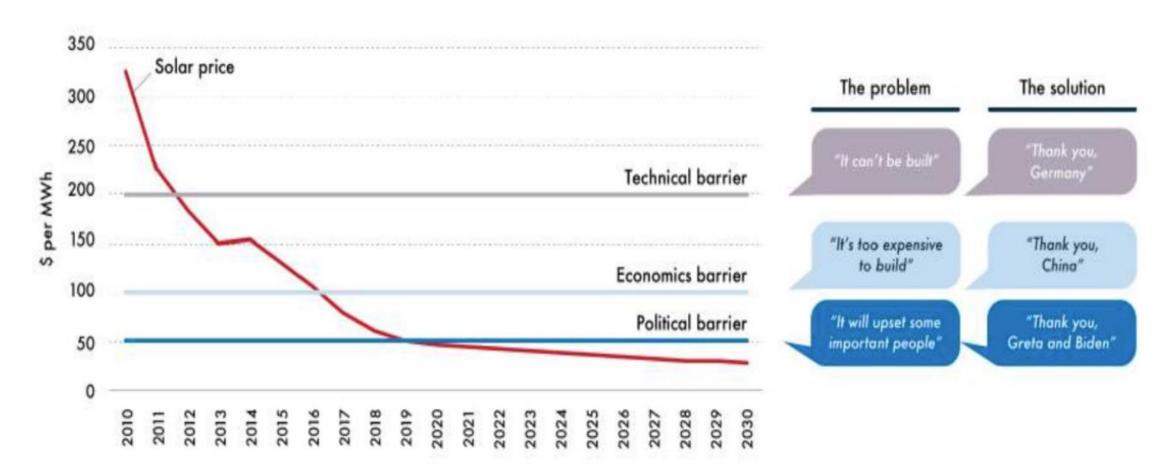
> Likely 2C pathways

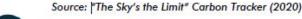


Source: BP, IPCC, CTI analysis



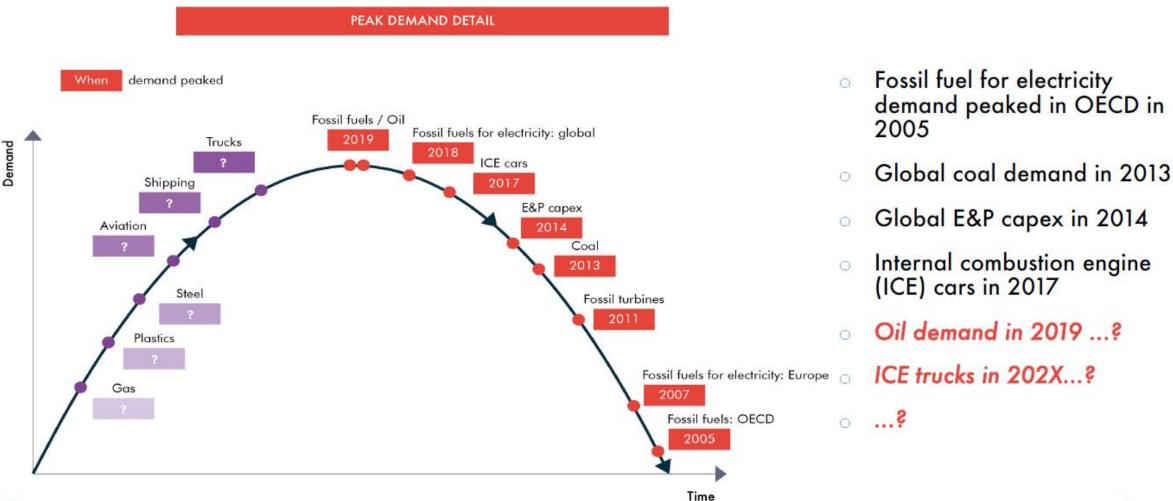
### Energy disruption breaks barriers





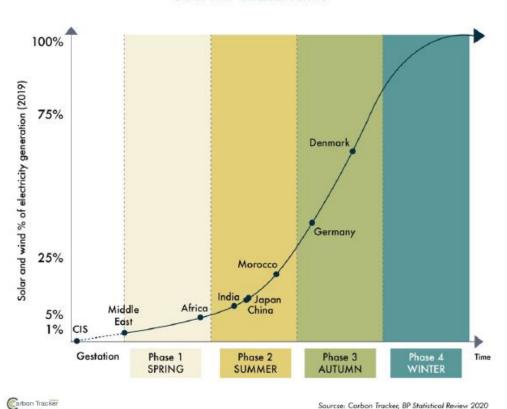


### New world of peak fossil fuel demand

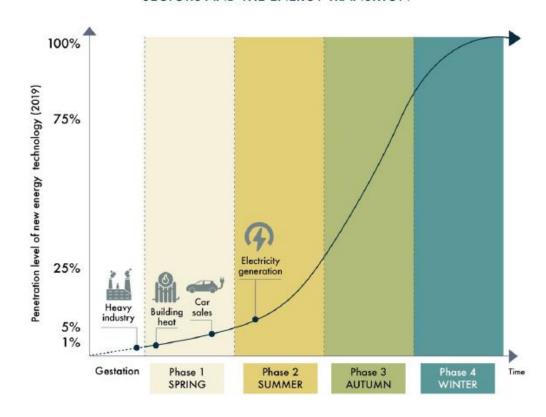


### It will not happen all at once ...

#### COUNTRY SEQUENCING



#### SECTORS AND THE ENERGY TRANSITION



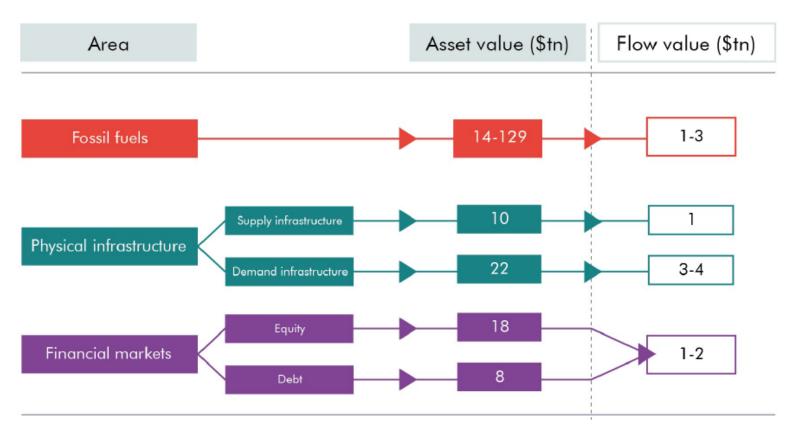
Source: CTI analysis



Sourcse: Carbon Tracker, BP Statistical Review 2020

## Fossil fuel system – a financial juggernaut

#### THE FOSSIL FUEL SYSTEM IN NUMBERS



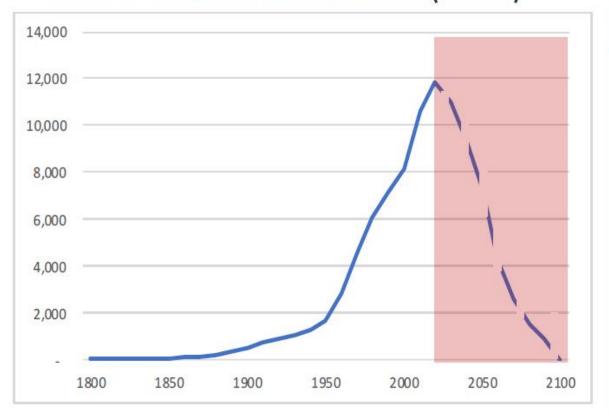
- \$32 to worth of assets in physical infrastructure
- \$26 tn in equity & bonds direct or indirect
- 25% of listed equities
- 50% of non-financial fixed income

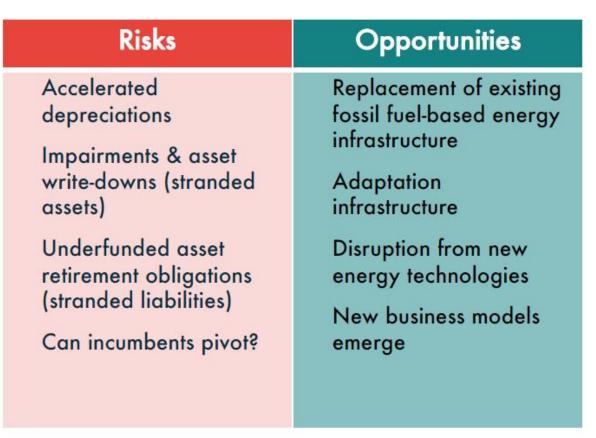
Source: 'Decline and Fall', Carbon Tracker (2020)



### Energy transition - risks & opportunities

#### Global fossil fuel demand (mtoe)





Source: Smil, BP, DNV, Carbon Tracker



### COP26 change focus: Gain not Pain

What has changed since Paris in 2015

Mitigating climate change is no longer an expensive collective action problem ... It's a technology revolution with enormous wealth-generating and retributive potential

2015

2020

- By 2040, cost of electricity from solar will still be higher than from fossil fuels IEA)
- 360 GW cumulative solar by 2020 (IEA)
- Batteries are too expensive
- People scared of >2% renewable on grid

- 90% of new electricity generation from renewables was cheaper than fossil fuels (BNEF)
- 710 GW was deployed globally (BNEF)
- Battery costs halved and deployment up 4x
- Denmark >50%



#### Disclaimer

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