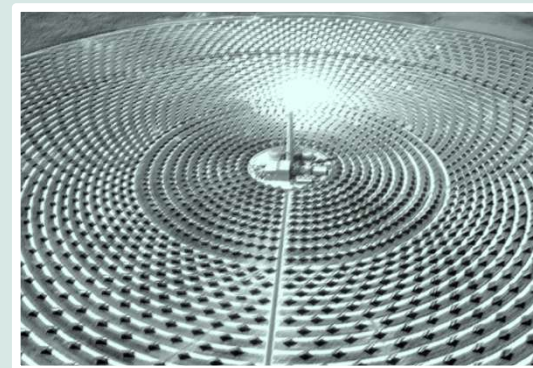


# Cosa Significa Crisi Climatica Per Voi?

Lord Gregory Barker, Chairman (Quercus Group)



Bologna – 10 May 2019

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# Extinction Rebellion – Sorry For The Delay?



# Extinction Rebellion – Ends Justify The Means?



# Extinction Rebellion – Active Across Borders



# School Children Join The Fight Against Climate Change



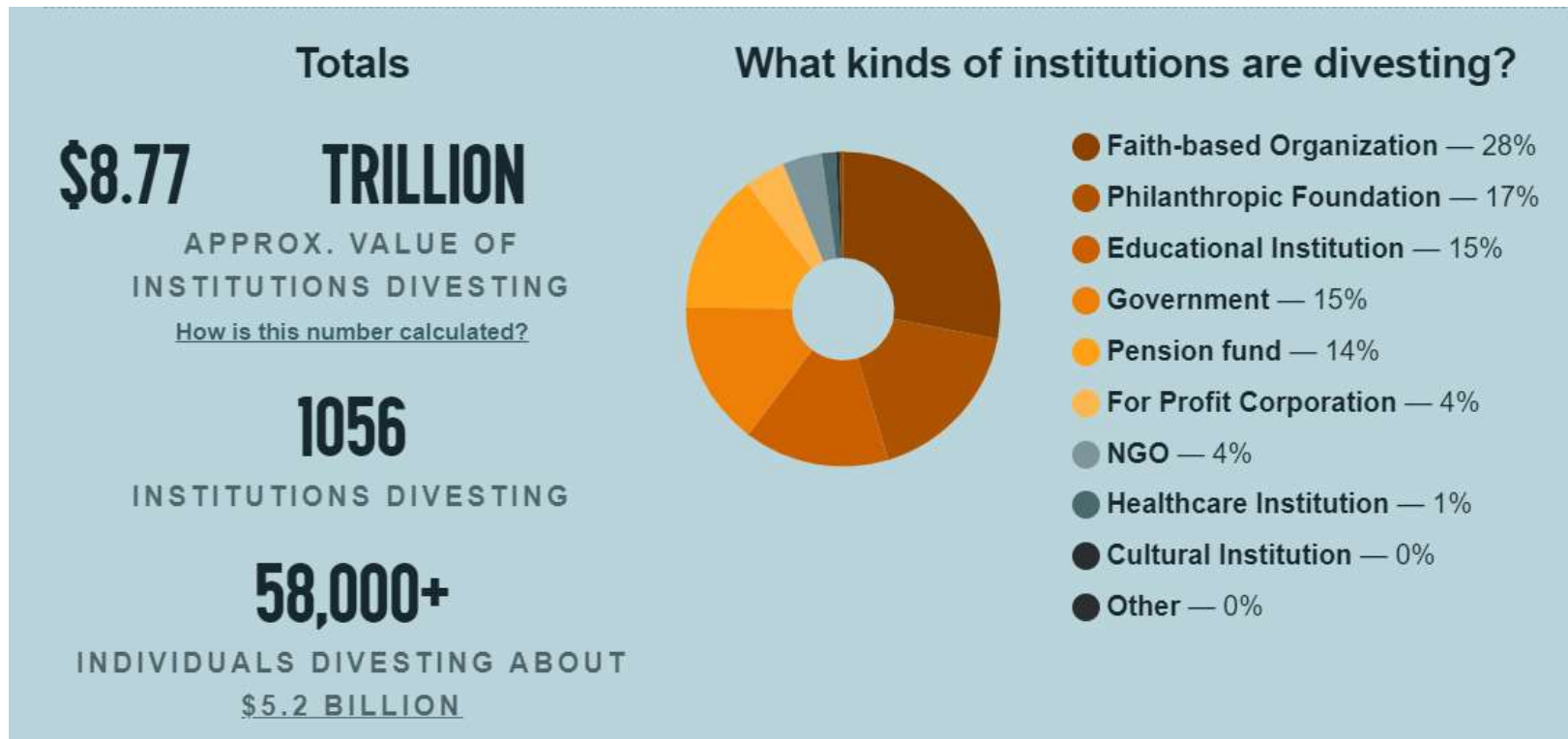
# UN Climate Action Summit – New York September 2019



- Leaders should come with “concrete, realistic plans to enhance their nationally determined contribution by 2020...” - Antonio Guterres (UN Secretary-General)
- “Full and Rapid implementation of the Paris Accord crucial to protect the Arctic” – Patricia Espinosa (UN’s top Climate change official)
- What happens in the Arctic, does not stay in the Arctic.....



# Almost \$9tn Worth Of Funds No Longer Invest in Fossil Fuels



Norwegian  
Sovereign  
Wealth  
Fund



World Council  
of Churches



**BMA**  
British Medical Association



CITY OF  
OSLO

Guardian Media Group  
**gmg**



LEONARDO  
DICAPRIO  
FOUNDATION



THE  
LUTHERAN  
WORLD  
FEDERATION



Rockefeller  
Brothers Fund



University  
of Glasgow

# Sustainable Investing Pursued by Investors and Lobby Groups



- Portfolios with a high ESG component tend to perform better over the long term



- Environmental, Social and Governance factors now expected to form part of investment process



- Standardisation of criteria and measurement is required



# Carbon Based Companies Are Changing and Re-Inventing Themselves



GLENCORE

- Will limit Coal Production to 2018 levels

BHP

- Severs ties with World Coal Association over Climate Change



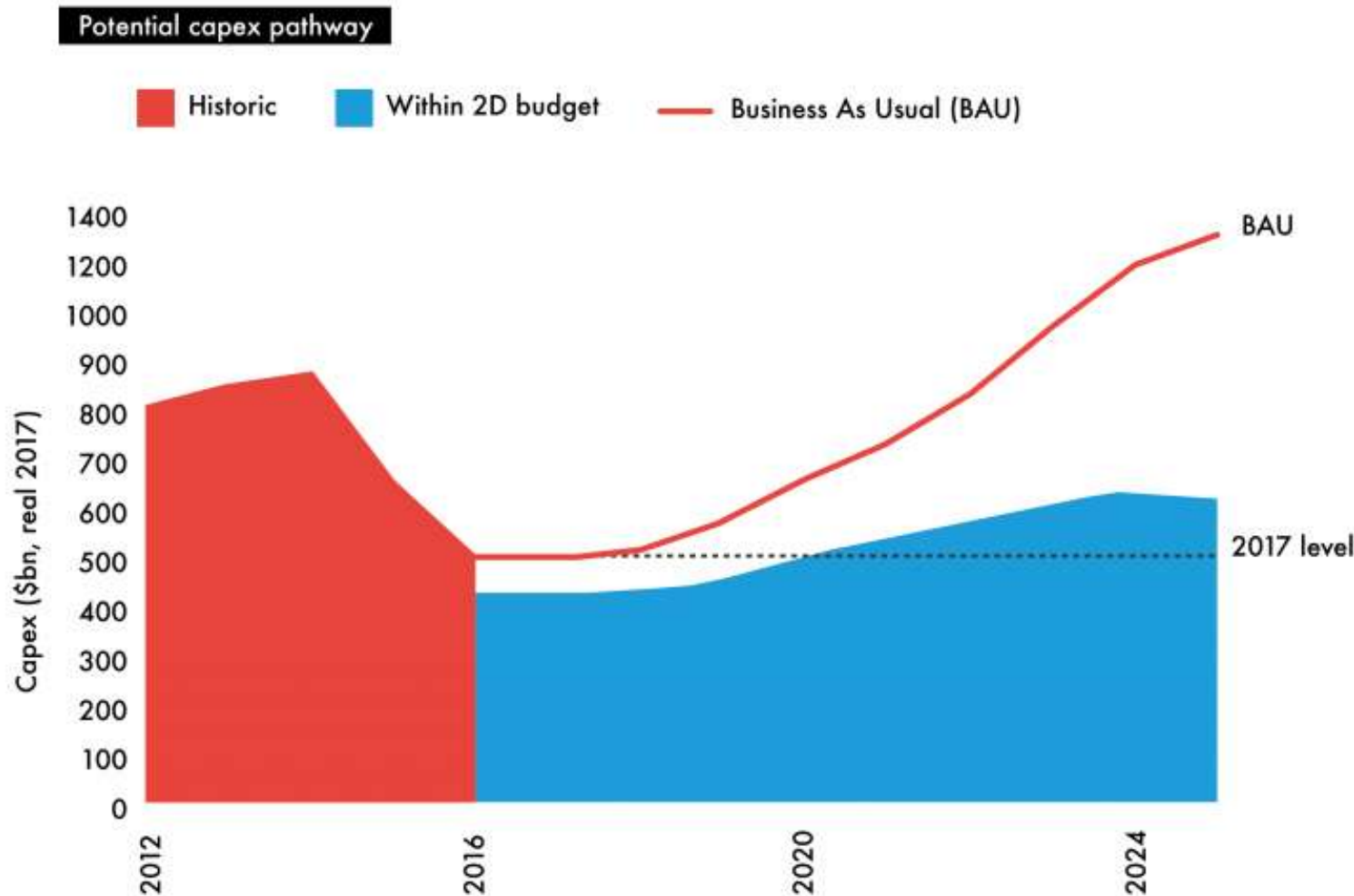
- Big Oil is moving aggressively into the clean economy

Ørsted

uniper e-on

equinor

# How Will Exposure to Carbon Assets Impact Your Portfolio?



- €2.1tn oil/gas capex is not needed in a 2Degrees scenario
- These risk becoming "Stranded Carbon Assets" which have no market

# How Should Investors Position Themselves in A Changing Market Place?

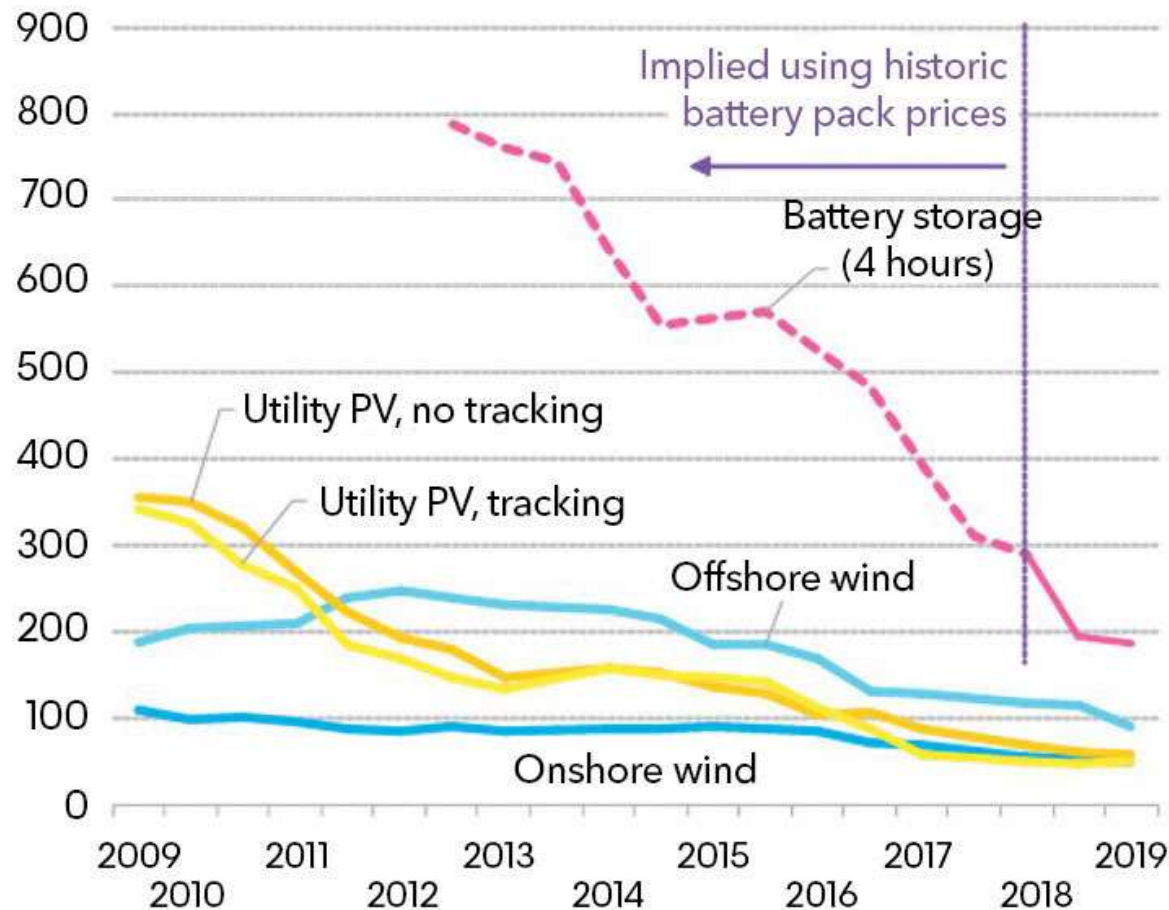


# Technology Costs Have Fallen Dramatically.....But Have Further To Go



## Global benchmarks - PV, wind and batteries

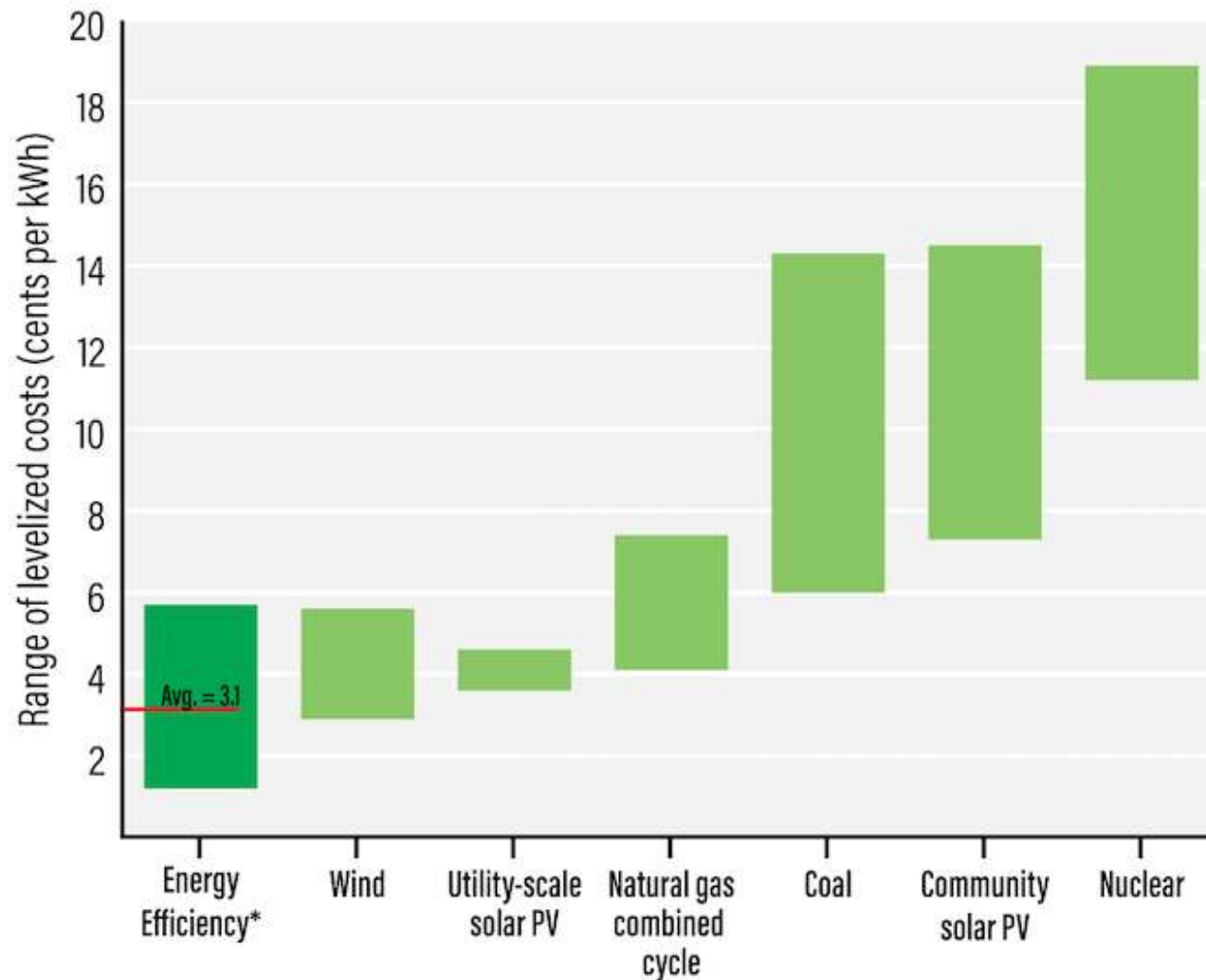
LCOE (\$/MWh, 2018 real)



Source: BloombergNEF. Note: The global benchmark is a country weighted-average using the latest annual capacity additions. The storage LCOE is reflective of a utility-scale Li-ion battery storage system running at a daily cycle and includes charging costs assumed to be 60% of whole sale base power price in each country.

- Storage expected to experience fastest declines
- Wind and solar can still be optimised
- Disruptive technologies exist in solar but have not yet commercialised

# Renewables Now Cheaper than Thermal Plant



\*Notes: Energy efficiency program portfolio data from Molina and Relf 2018. Represents costs to utilities or program administrators only, including shareholder performance incentives if applicable. All other data from Lazard 2018 Unsubsidized Levelized Cost of Energy Comparison.

- Onshore wind and utility scale PV are cheapest form of generation
- Grid parity projects are already being built in Southern Europe
- Technology choice is site and location specific

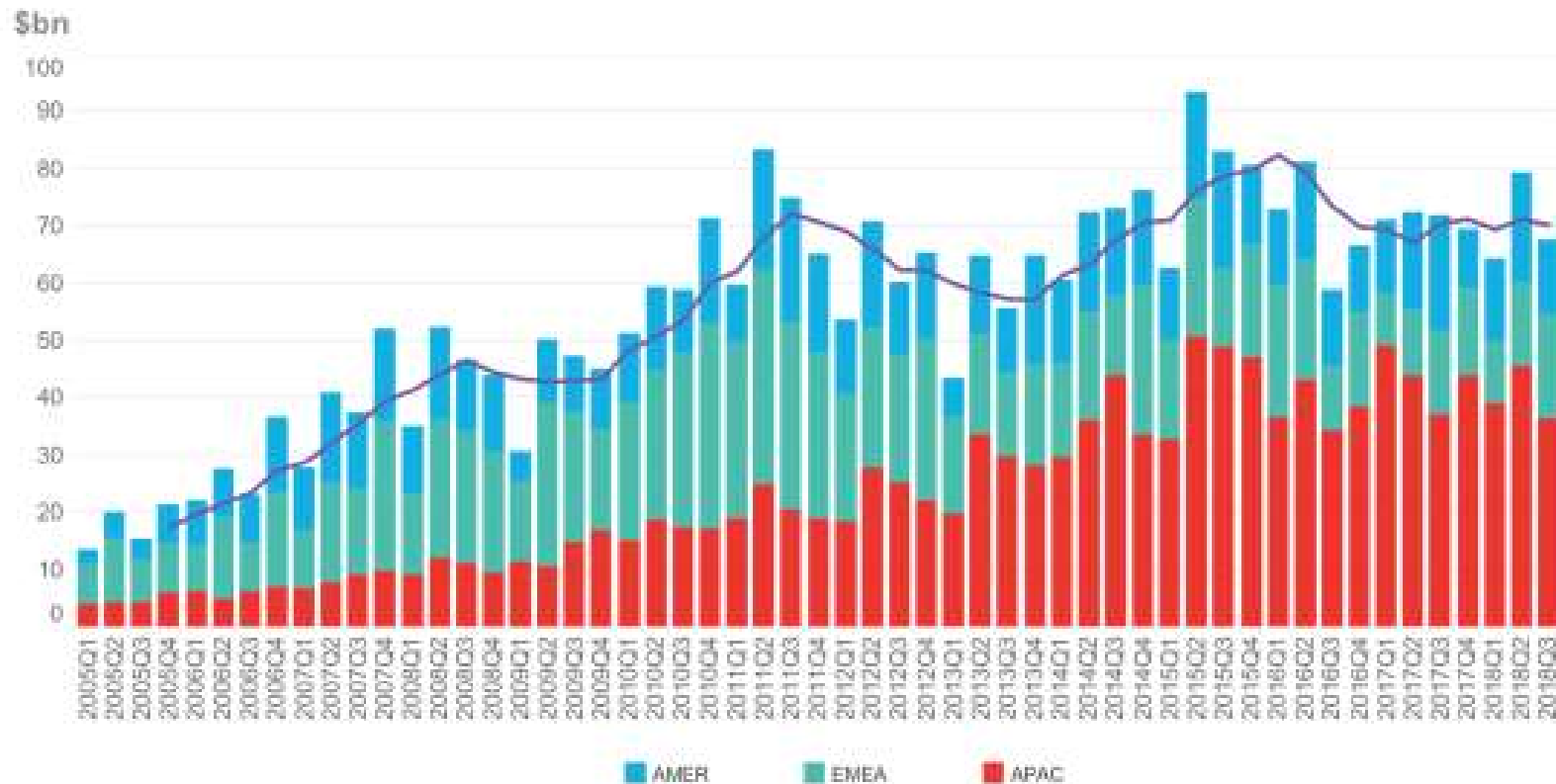
# Europe Remains the Leader in Investment (ex-China)



Quarterly Trends, New Investment

## Global New Investment in Clean Energy, by Region

1Q 2005 - 3Q 2018





- Tangible action has to come now. 32% EU wide renewables target by 2030 creates a €60bn pa starting point
- Subsidy, incentive based and technological risks have been removed from the sector
- Merchant / PPA plants will drive the next renewable phase starting from Southern Europe and moving North

## Quercus Renewable Investment Outlook (2)



- Investing across the value chain helps returns in a competitive environment
- Combination of solar + storage will drive future base load generation
  - “Post 2020, there may never be another [gas] peaker built..... you will just be building energy storage instead” (Leading utility CEO)
- Quercus was created to achieve all social targets while delivering long term, stable and recurring yield



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## APPENDIX – Example of Melting Ice-Caps



Arctic Ocean 1915



Arctic Ocean 2018

