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# The Transition Zone

Hannah Mary Goodlad



60° North



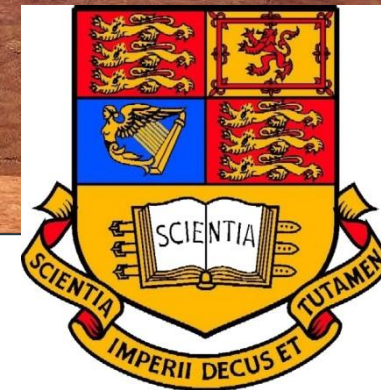




**Geology and Chemistry BSc,  
Glasgow University, 2012**



**Petroleum Geoscience MSc,  
Imperial College, 2013**



*Our purpose is turning natural resources into energy for people and progress for society*



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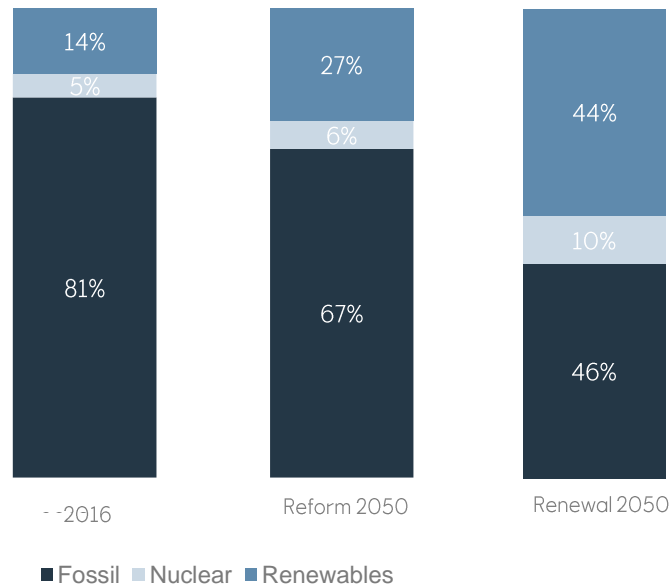


# The Energy Transition

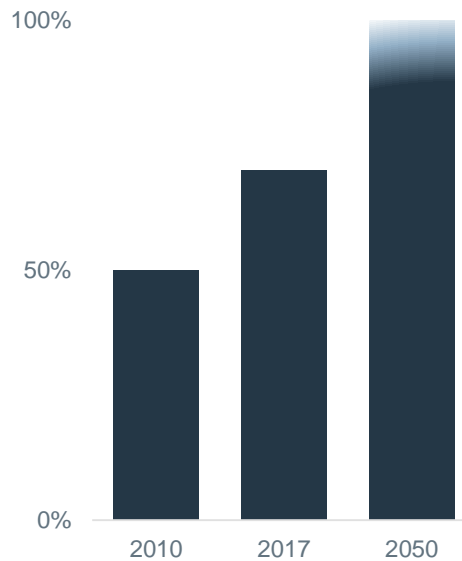


# Renewables Outlook – Decades of Growth Ahead

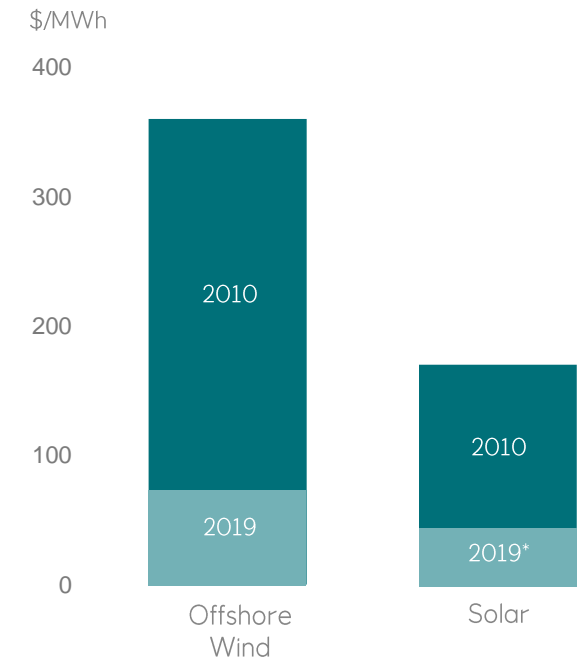
Global Energy Mix  
EEP 2019 scenarios



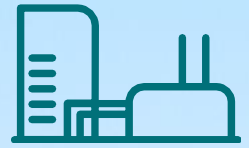
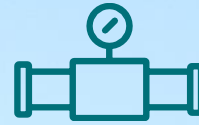
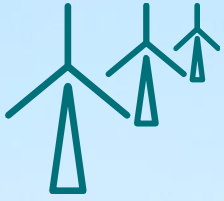
Power sector – renewables  
Net additions to global generating capacity



Cost development  
LCOE solar and wind



\* Based on European 2019 auction levels



# Geology in Transition

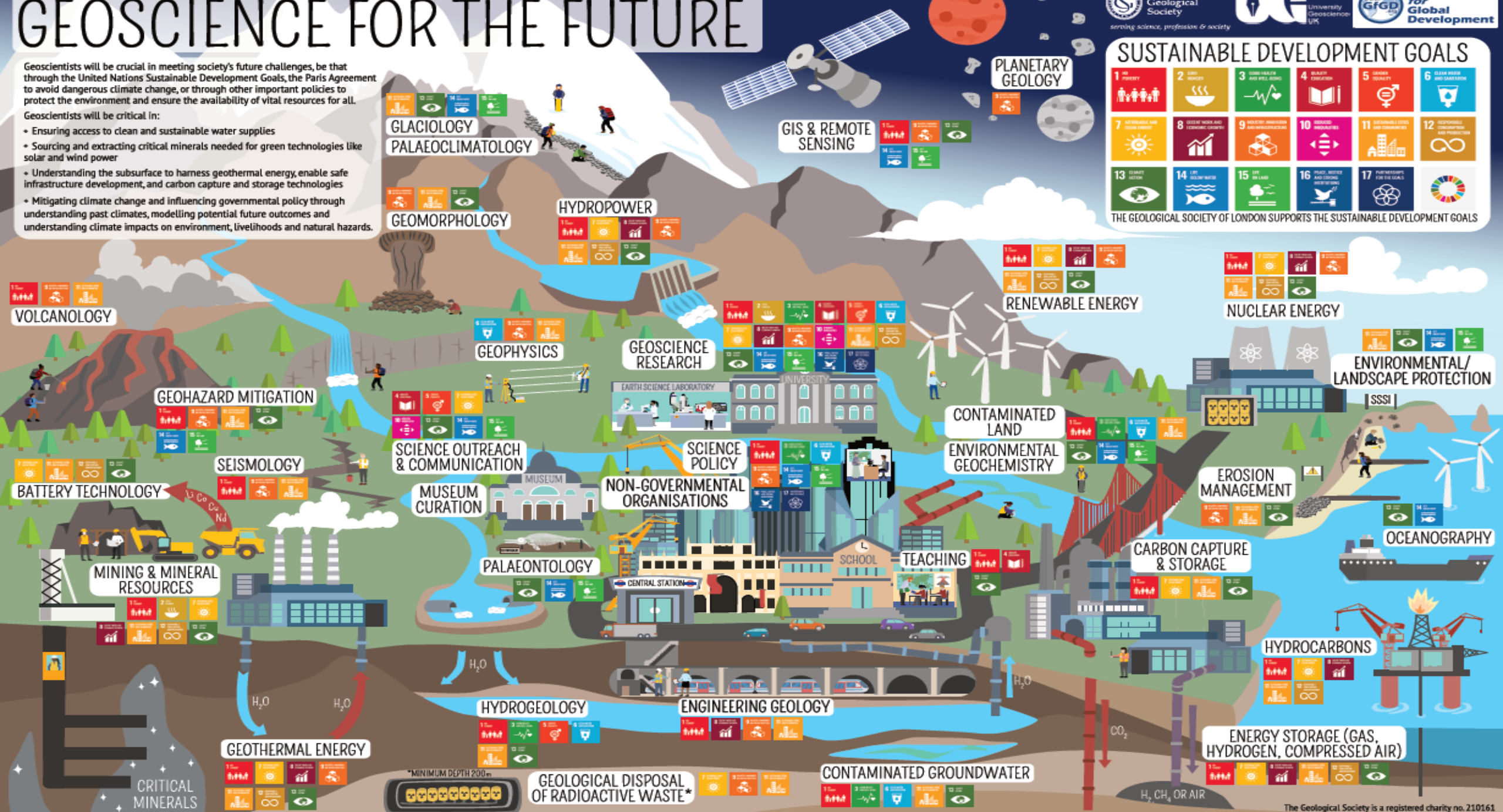


# GEOSCIENCE FOR THE FUTURE

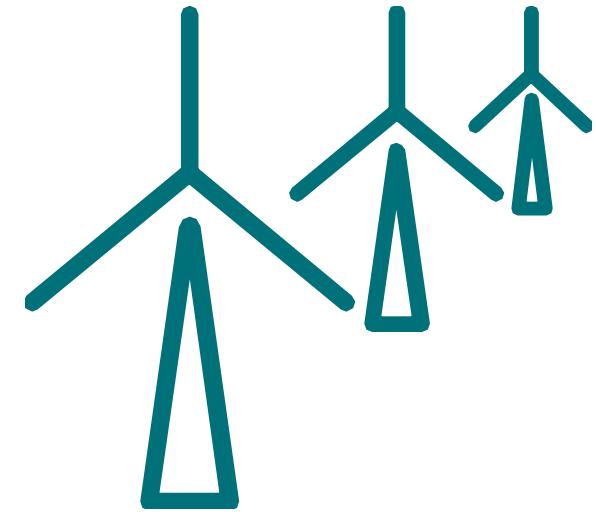
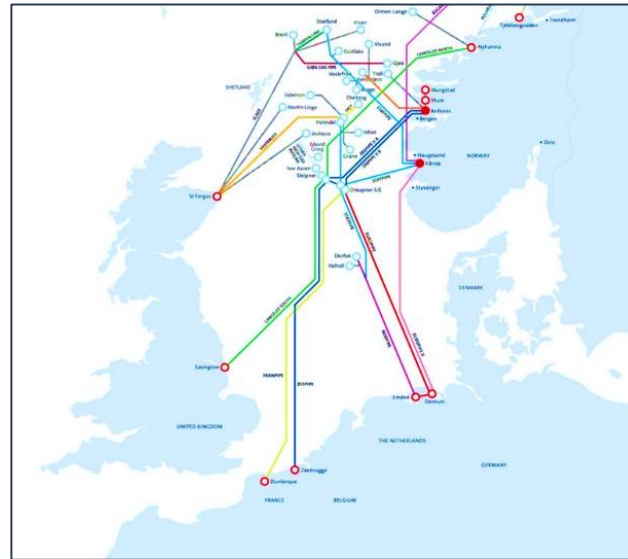
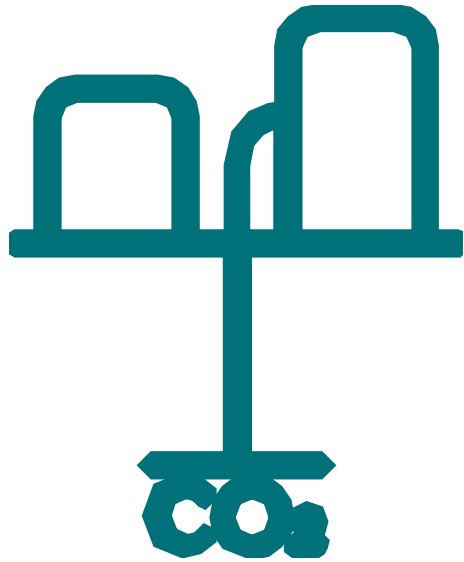
Geoscientists will be crucial in meeting society's future challenges, be that through the United Nations Sustainable Development Goals, the Paris Agreement to avoid dangerous climate change, or through other important policies to protect the environment and ensure the availability of vital resources for all.

- Geoscientists will be critical in:
- Ensuring access to clean and sustainable water supplies
  - Sourcing and extracting critical minerals needed for green technologies like solar and wind power
  - Understanding the subsurface to harness geothermal energy, enable safe infrastructure development, and carbon capture and storage technologies
  - Mitigating climate change and influencing governmental policy through understanding past climates, modelling potential future outcomes and understanding climate impacts on environment, livelihoods and natural hazards.

## SUSTAINABLE DEVELOPMENT GOALS



# The Energy Transition – a Geologist's Contribution?



CCS value chain

Hydrogen

Offshore Wind

# Earth Stewardship



