

# Designing Affordable and Clean Energy for a Resilient Energy System in ASEAN Communities: Perspectives from the UK

Isabelle de Lovinfosse, Head SEA COP26 Strategy, 29 October 2020  
ACE Think Tank Roundtable, Singapore International Energy Week



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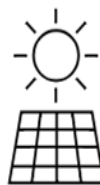
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# The Clean Energy Transition is now a global trend



- Every \$1 spent to advance the global energy transition **yields \$3-8 in return.**
- By 2022, 60% of all coal plants globally will be uncompetitive
- Solar and wind now **cheaper than new coal** in all ASEAN Member States & these prices will continue to fall
- Investments in renewable energy generate **3x more jobs** than investments in fossil fuels
- Renewables can boost the economy in SE Asia by more than 4.4%, **growing jobs by almost 50%**
- **Green recovery** can also build **resilience to shocks**

Technology cost-declines since 2010  
(Bloomberg NEF)



**85%**

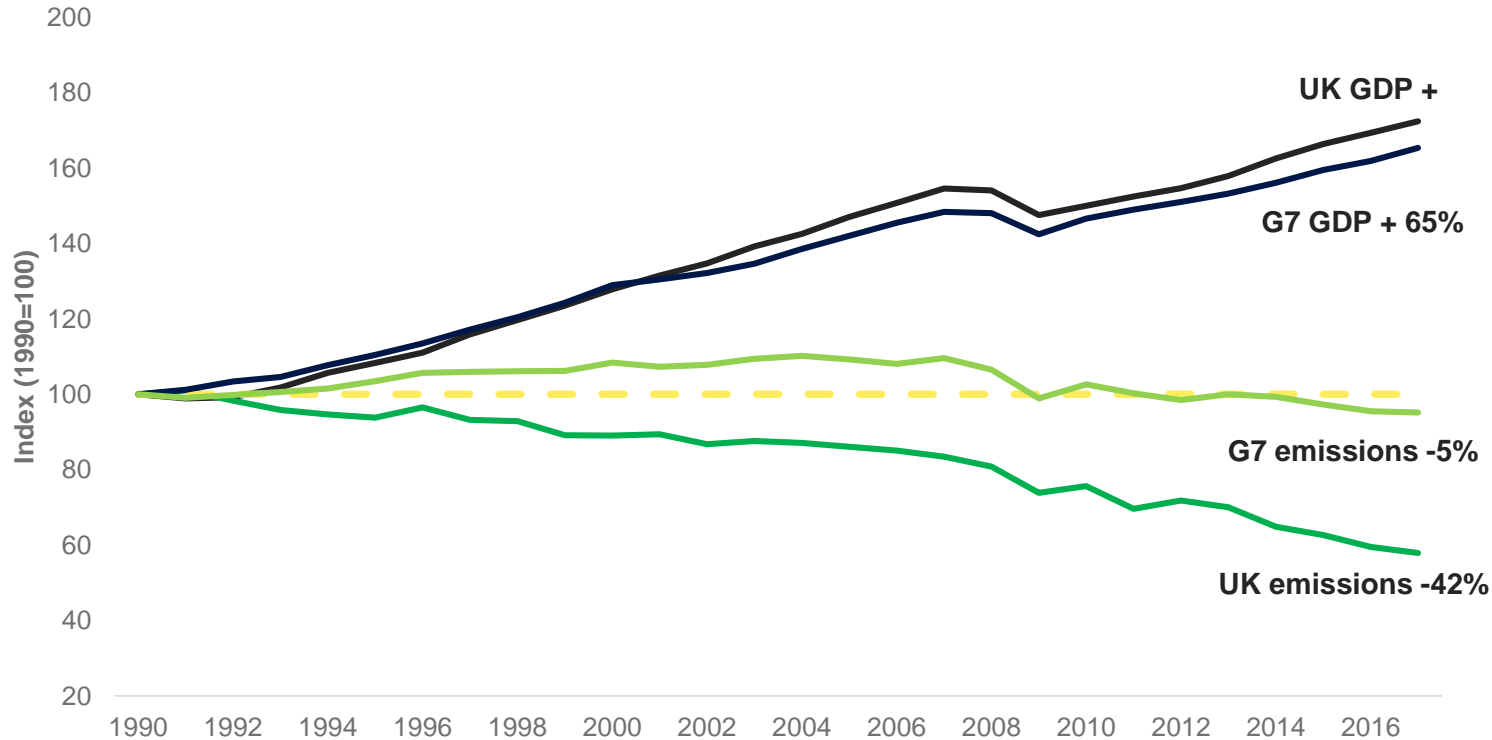


**49%**



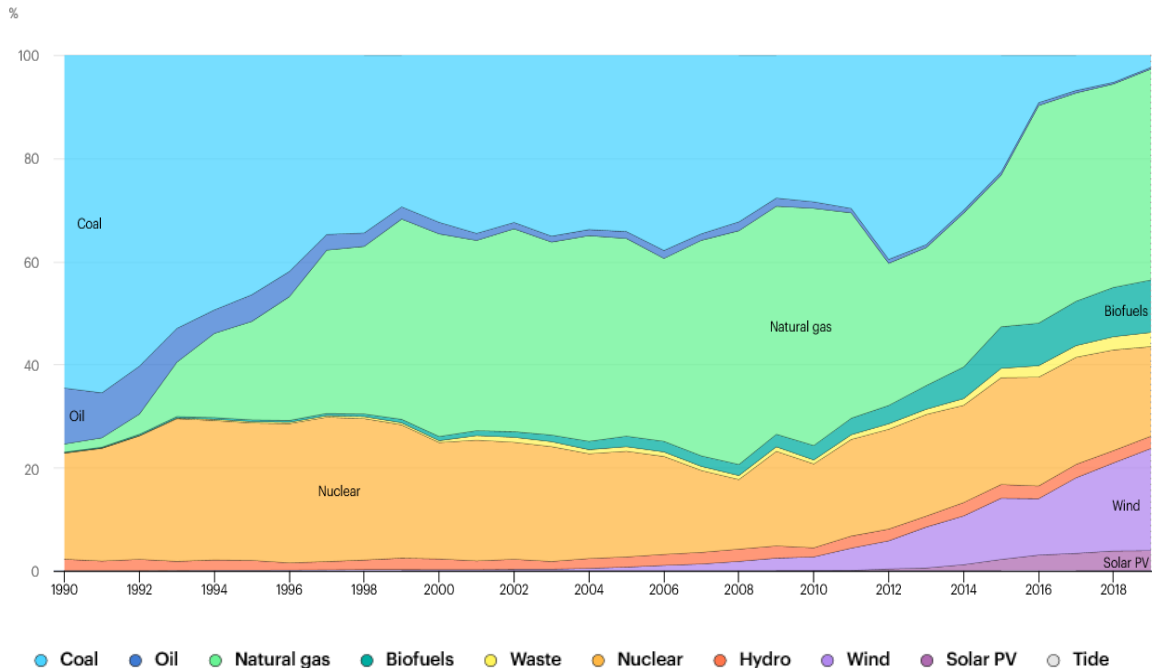
**85%**

# Decoupling of carbon emissions and economic growth in the UK



Source: World Bank. UNFCCC National Inventory Submissions. ONS.

# UK has been removing coal from the electricity system in ~ 5 years



Source: IEA



40%

Share of electricity from coal in 2012

2%

Share of electricity from coal in 2019

2025

Phase out date - under consultation to bring forward to 2024

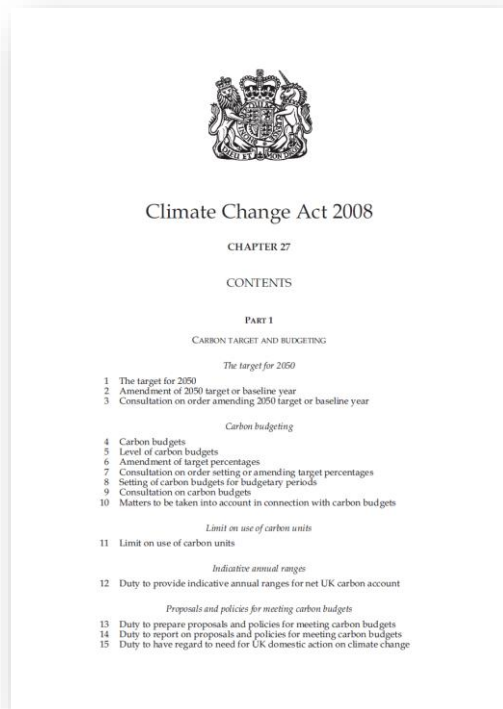
Supported by:

- UK Climate Change Act
- Carbon pricing
- Coal phase out date
- Renewable subsidies
- Air quality regulation

# Robust, long-term and legal climate policy frameworks in the UK



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# UK addressing the barriers to accelerate renewable deployment

## Policy and regulation



- Lack of confidence in feasibility of new system models by energy policy makers, regulators, utilities
- Policy and regulatory environments **not conducive to investment in new technologies** in many countries
- **Support for fossil fuels** continues through direct and indirect subsidies
- **Lack of capacity** at national level to undertake robust planning and analysis and to engage with investors

## Technology and systems



- Concerns around impact of **increased renewable variability on grid robustness and performance**
- Challenges of **increased flexibility** e.g. new grid infra, demand response, storage, baseload
- Challenges in moving to **cross-border trading** and **regional power pools**

## Finance and investment



- **Weak pipelines of investment grade projects** – limited opportunities for large scale investment
- **Lack of competitive large-scale procurement** in many countries, increasing transaction costs
- **Weakness in policy and governance increase return expectations**, requiring **concessional finance**
- Aggressive developer competition leads to **unrealistic bids increasing project failure risk**

## International coordination and support



International cooperation can **help overcome these barriers** through:

- Technical assistance
- Concessional finance
- Exchange of policy best practices

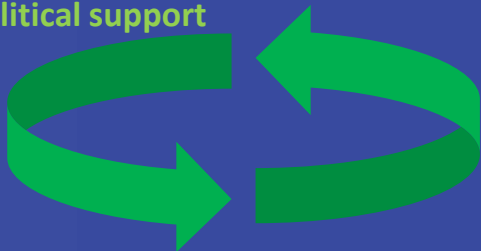
To make this support as effective as possible, we need a coordinated effort from development partners, focused on supporting national and regional plans for transition



# COP26 Energy Transition Council

- Objective: to **accelerate the transition from coal to clean** power as part of a green economic recovery, through enhanced international cooperation.
- Bring together the **global political, financial and technical leadership** in the power sector over the 13 months to COP26.
- Create an **effective dialogue** between countries with energy transition needs and the international actors who can support them, to achieve demonstrable progress by COP26.

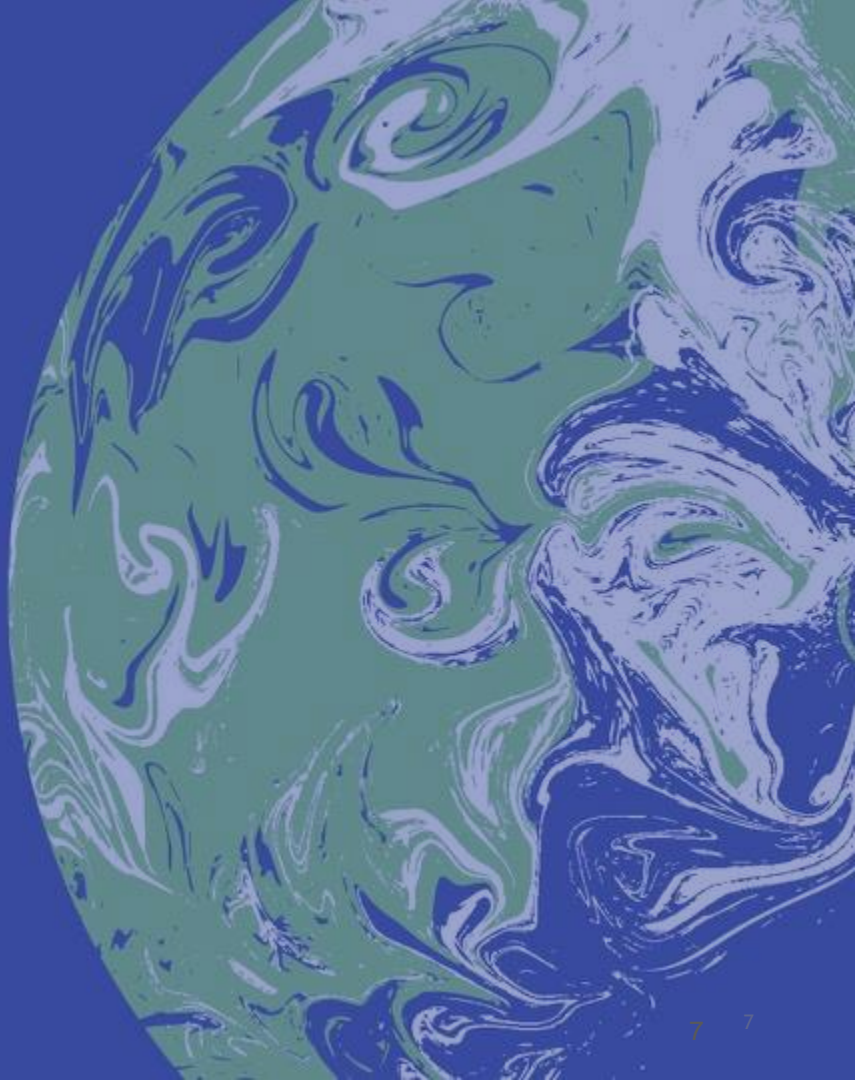
International technical,  
financial & political support  
package



Country  
commitments  
by COP26 to  
scale up clean  
power and  
scale back coal

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