

# APSE Energy Online Event: Developments in Wind Energy

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# Introduction

- Any discussion of the green agenda has to include wind energy
- But onshore wind has been absent from this debate for some years
- A new Government means time for another look!



# Background

- One of the main commercially proven forms
- Even better than solar farms
- Will help with Climate Emergency Action Plans and the UK targets
- But treated very differently



# National Policy

- National policy different in England to elsewhere
- Restrictive rules introduced to the NPPF in 2015
- Scotland better developed with the the Onshore Wind Policy Statement 2002 and the Onshore Wind Sector Deal 2023



# Wind Energy as part of a Strategy

- Climate change strategies & action plans
- Energy is an important part
- Councils need more projects



# Some Simple Facts About Wind Energy

- Wind availability is the best in Europe
- Wind speeds, load factor and installed capacity
- Intermittency not an issue



# The Science

- Movement of atmospheric air masses and heating of the earth's surface
- A basic turbine
- Requirements for a project
- If you have a site you are fortunate!



# Requirements

- What do you need for a project?
- Land with the right topography
- Also suitable for planning, with a potential grid connection, with suitable access and where public support can be gained



# Projects and the Business Case

- Financial returns will be based on average wind speeds, the size of the turbine and its power category
- Small, medium or large projects
- The business case for onshore wind is the best available from any renewable energy



# Key Objections

- Is there public support?
- Differences from solar farms
- Noise, flicker, shadows, landscape degradation, wildlife, tourism, property values etc
- What causes objections?



# Wind Power and Planning

- One of the key elements, with grid connectivity
- Capacity of the scheme
- Changed rules in England
- The new planning position



# How to Go About It

- Usual stages for a development on land
- How to check if you have land suitable
- Community engagement and community benefit
- Developing a robust strategy



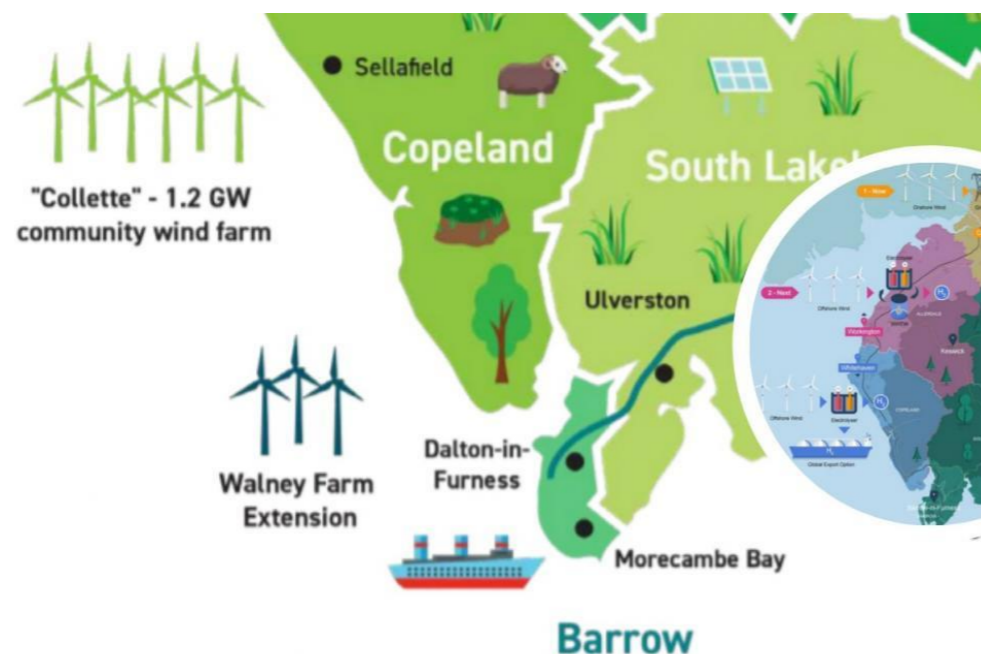
# Types of Project

- Traditional civic project
- Traditional civic project with some community benefit or ownership
- Community project



# INTRODUCING PROJECT COLLETTE

## – A Transformational Shared Prosperity Project



- Project Collette aims to be a **1.2 GW (with 80-100 turbines) community owned wind farm** off the coast of West Cumbria. Not only would it be **England's first community owned offshore wind farm**, but it would be **Cumbria's first offshore wind farm with its supply also 'landing' in Cumbria.**

- Collette's renewable energy would be used to decarbonise the local area, support **green hydrogen** projects at **Carlisle, Workington, and Whitehaven** and **green steel** opportunities in Workington (or its surrounds). This powerful multi-pronged approach (community owned offshore wind, green hydrogen and green steel) would help establish West Cumbria as a hub for renewable and green energy industrial production.



# Conclusions

- Many authorities are considering solar farms
- Has wind been overlooked?
- Key financial and non-financial benefits
- Achieving Climate Emergency pledges
- Don't miss out on the new opportunities!



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