

# How Development Frameworks for onshore wind farms can support a Just Transition

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All energy 2023

# Outline



- What is a Development Framework ?
- Why do we need them ?
- What are the benefits for communities ?
- Where can I get one ?!?

# What is a Development Framework ?



- Typically used for new settlements or regeneration projects
- A Framework to guide development, **not** a masterplan
- Co designed between communities, developers and agencies / planning authorities
- Place based approach – reflecting local priorities and needs



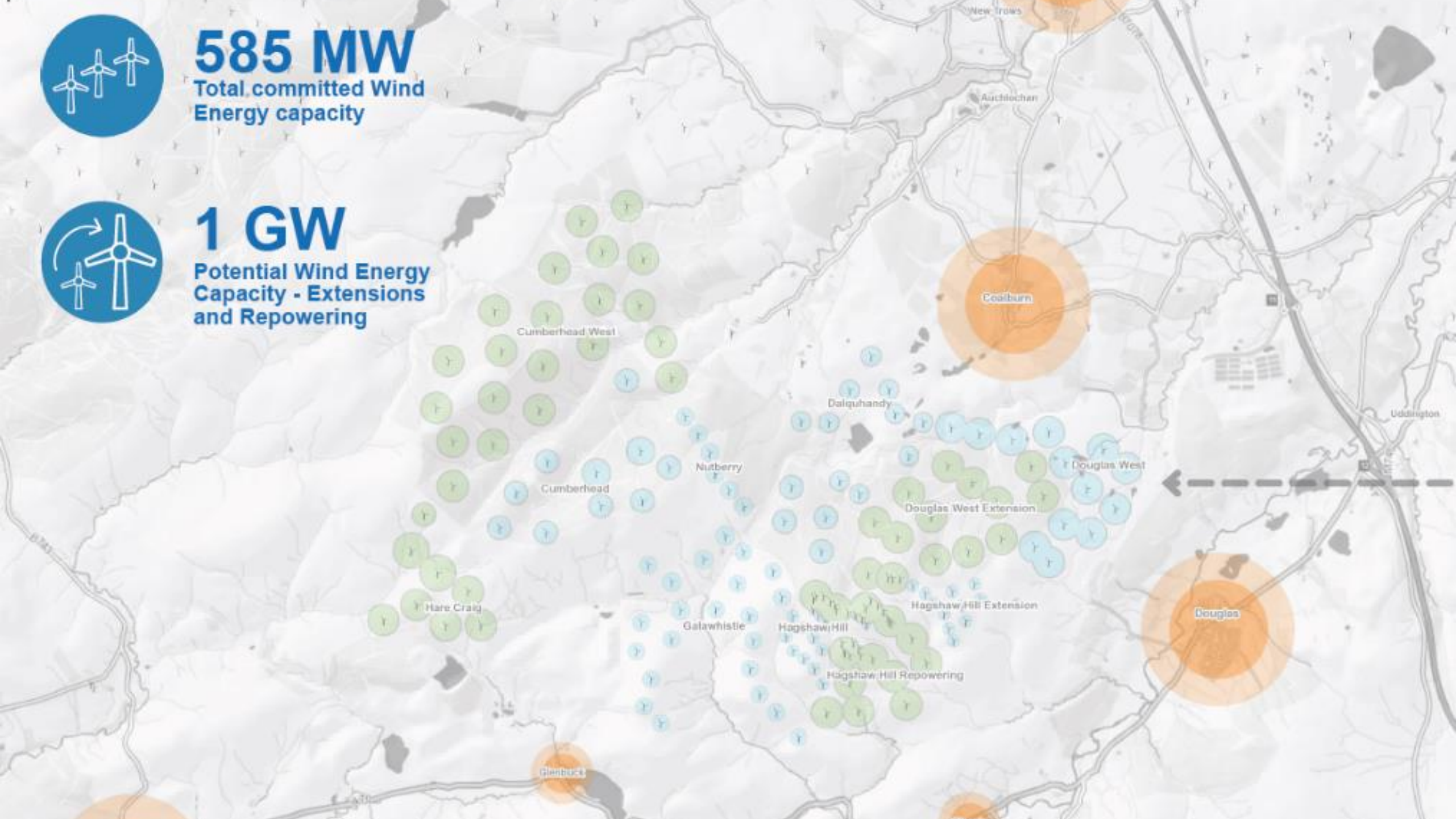
# 585 MW

Total committed Wind  
Energy capacity



# 1 GW

Potential Wind Energy  
Capacity - Extensions  
and Repowering



# Who is involved ?



**Architecture &  
Design Scotland**  
Ailtearachd is Dealbhadh na h-Alba

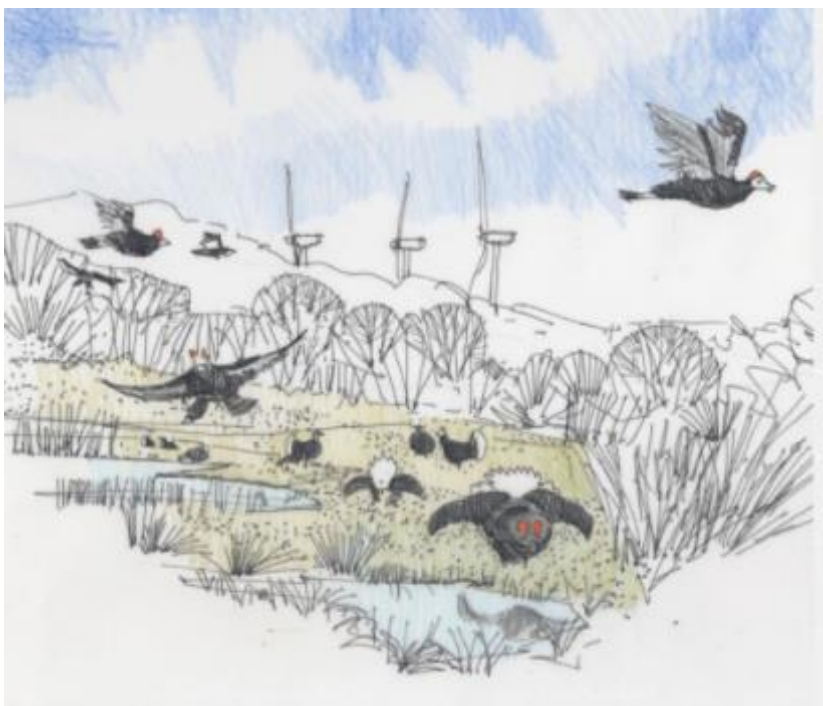
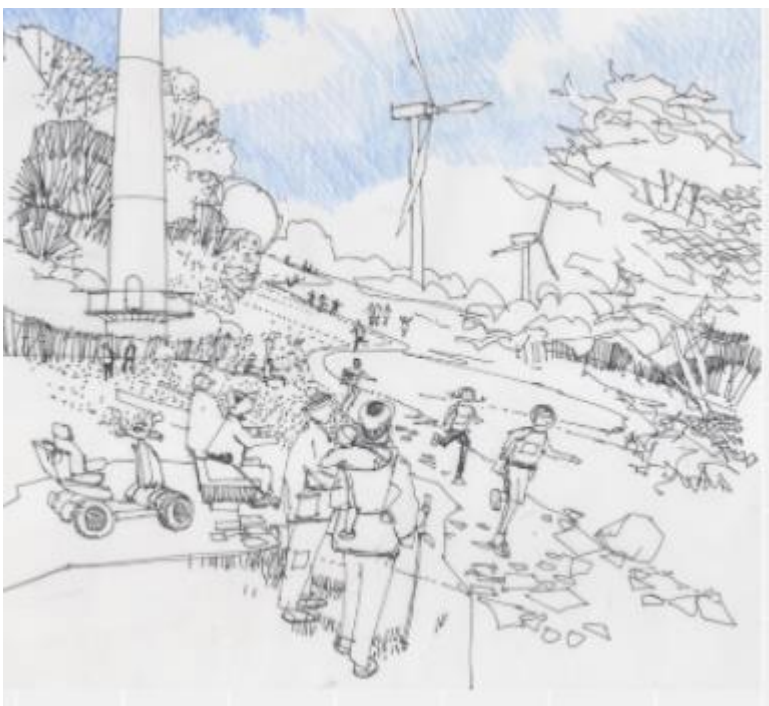


# The Development Framework – key aims

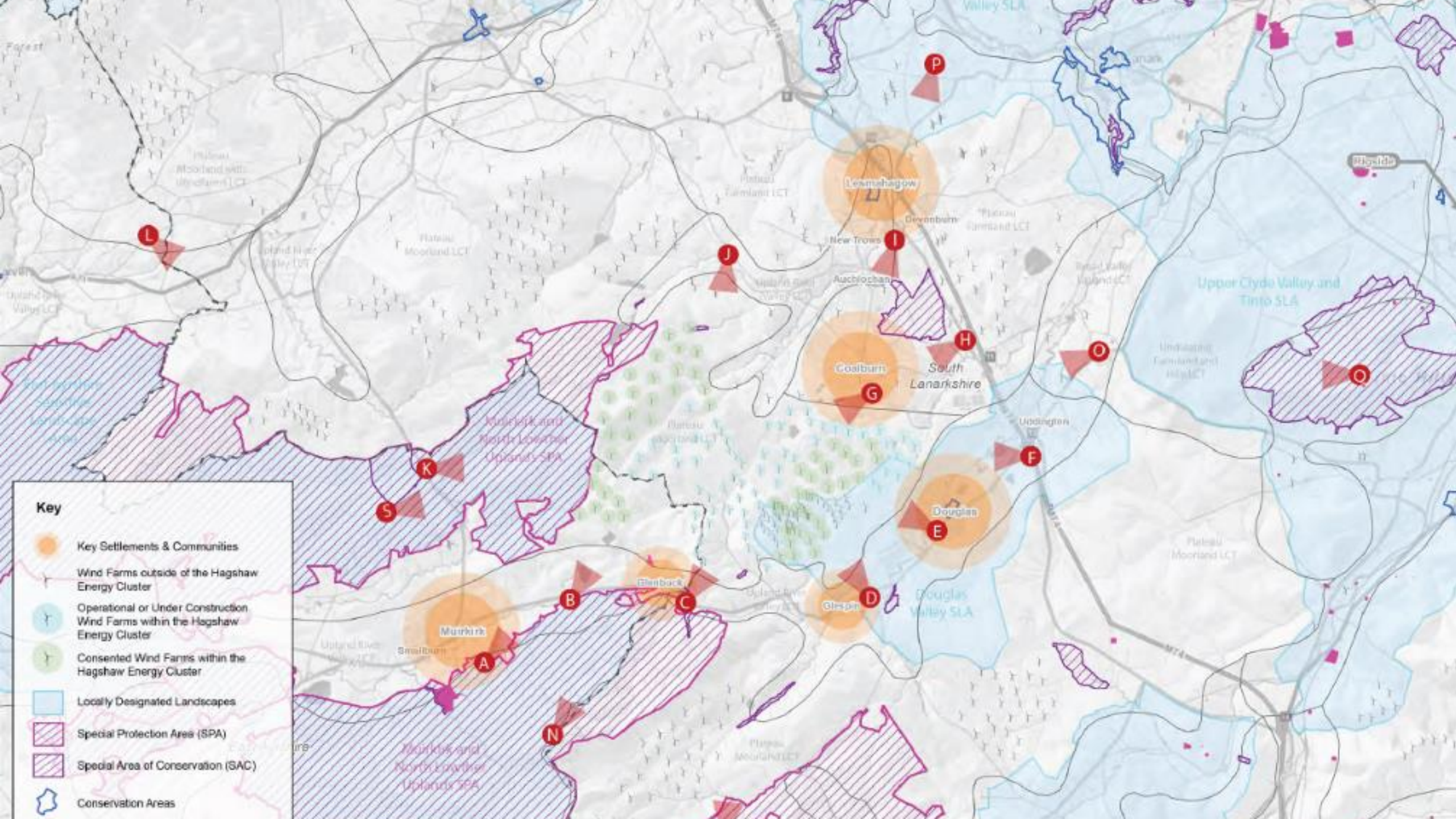


1. Support the **efficient delivery of the renewable energy potential of the cluster**, taking account of all appropriate technologies and the optimisation, extension and repowering of existing wind farms
2. **Maximise the social, economic and environment benefits** of renewable energy development within the cluster
3. Support the **Just Transition to a low carbon future** through a place-based approach
4. **Minimise adverse impacts of development** on the environment and local communities
5. Deliver **investment in nature** to enhance climate change and biodiversity resilience











# The journey towards certainty

**No certainty**

**Absolute certainty**

No plan....

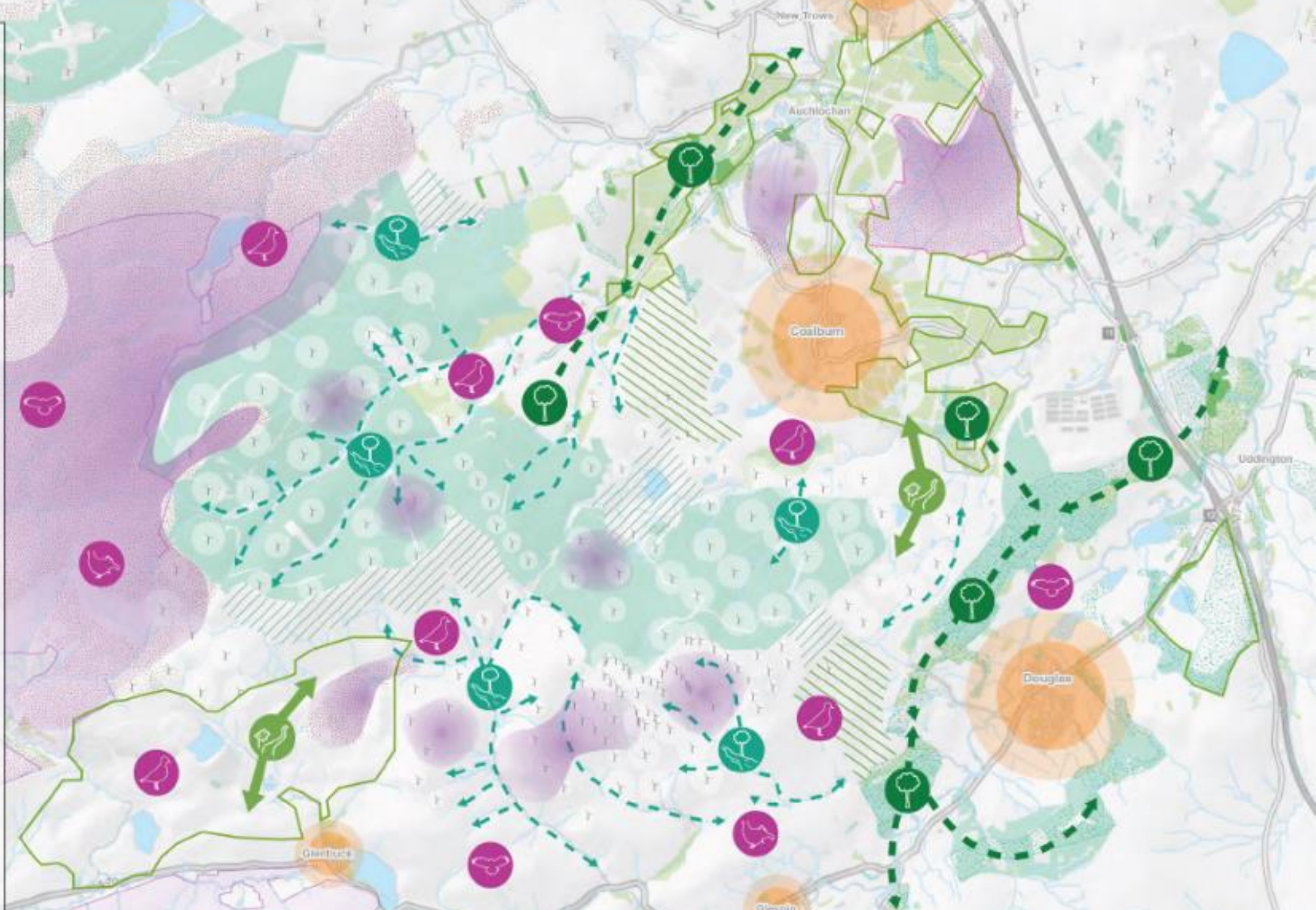
Development Framework –  
V1

Masterplan



# Key

-  Key Settlements & Communities
-  Wind Farms outside of the Hagshaw Energy Cluster
-  Wind Farms within the Hagshaw Energy Cluster
-  Site of Specific Scientific Interest and Special Protection Area
-  Site of Specific Scientific Interest and Special Area of Conservation
-  Coniferous Forest
-  Broadleaved Woodland
-  Mixed Woodland
-  Ancient Woodland
-  Category 1 Peatland
-  Forestry and Land Scotland Sites
-  Water Courses / Water Bodies
- Potential Nature Enhancement Opportunities**
  -  Opportunities for Peatland Restoration
  -  Opportunities for Riparian Woodland Corridors
  -  Ancient Woodland Network Enhancement
  -  Black Grouse Habitat Enhancement
  -  Raptor Habitat Enhancement
  -  Wading Bird Habitat Enhancement
  -  Access and Interpretation
  -  Potential Native Woodland Expansion





LUC



could be delivered, subject to further detailed survey and development.

### Key

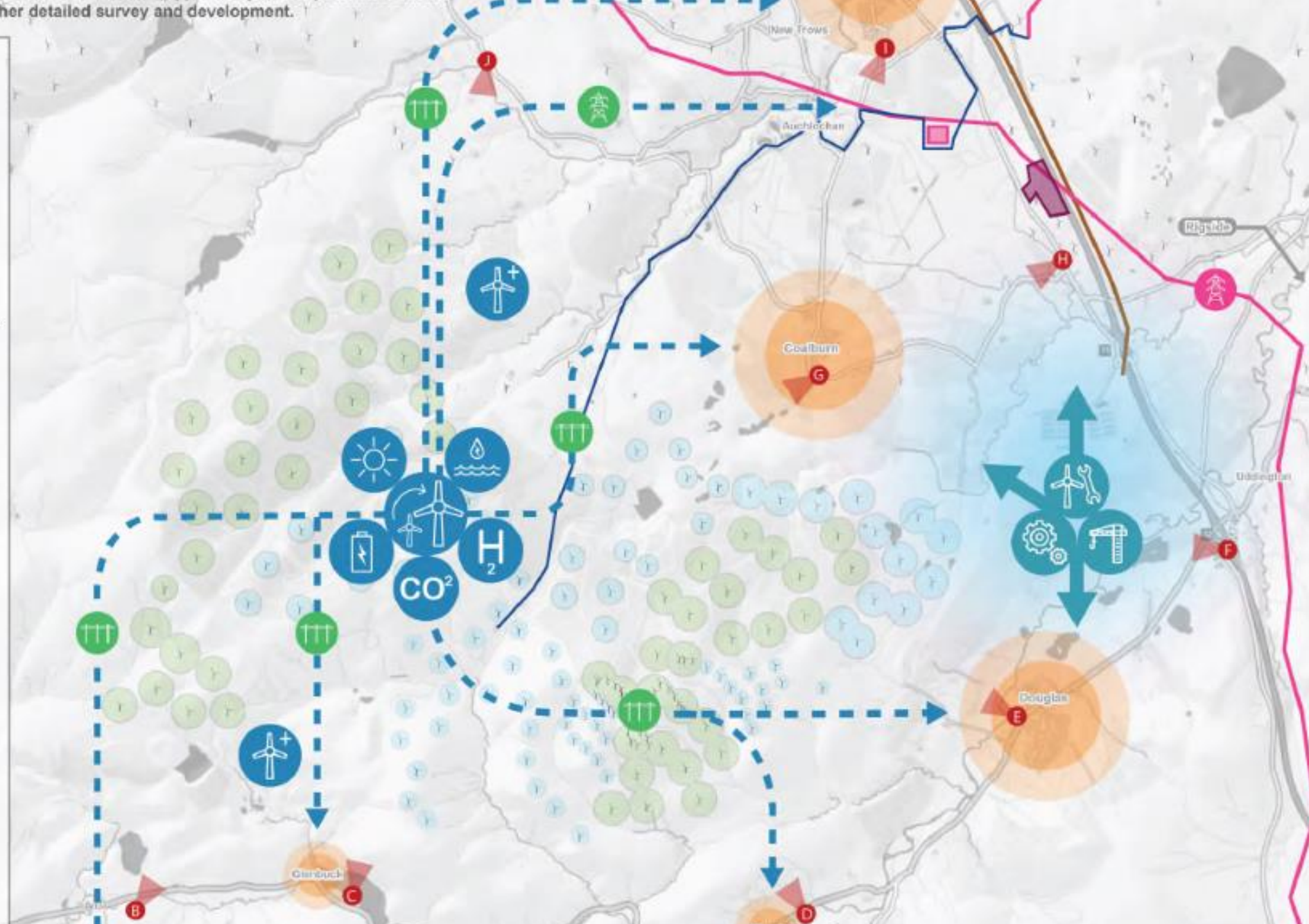
- Key Settlements & Communities
- Wind Farms outside of the Hagshaw Energy Cluster
- Operational or Under Construction Wind Farms within the Hagshaw Energy Cluster
- Consented Wind Farms within the Hagshaw Energy Cluster
- Overhead Transmission Lines
- Underground Transmission Line
- Potential Shared Abnormal Access Route
- Coalburn Substation
- Proposed Coalburn Energy Storage
- Potential Renewable Energy Hub
- Key Design and Assessment Viewpoints

### Potential Renewable Energy Opportunities

- Wind Energy
- Solar PV
- Hydropower
- Carbon Capture
- Energy Storage
- Green Hydrogen Production
- Green Energy from Cluster to Main Grid Network
- Green Energy from Cluster to Local Grid Network

### Potential Supply Chain & Employment Opportunities

- Development and Construction
- Servicing and Maintenance
- Manufacturing



**Hagshaw Hill Repowering** granted consent in February 2020 (200m to blade tip height). Replacing the original Hagshaw Hill, the fourteen 6MW turbines will deliver a fivefold increase in the green energy generated from the site.



Enhancement and creation of **local active travel routes** and networks to improving physical and mental wellbeing, and promote healthier lifestyles.



Construction of **c.325 MW of consented development by 2028**, including Hare Craig (230m) and Cumberhead West (200m) consolidating the existing cluster to almost **585 MW of green energy generation**.



Long-term enhancements to **nature and biodiversity**, and establishment of the cluster as a destination for **outdoor recreation and adventure**.



**2000**



**Further wind farm developments** are constructed within the cluster in the early 21st century, including Nutberry (115m) and Galawhistle (110-121m), whilst Dalquhandy, Douglas West (149.9m) and Cumberhead (180m) Wind Farms are currently under construction.

**2022**



**Adoption of the Development Framework** in 2022 with a 10-year delivery and review period, in which updates will be made to respond to changing baseline context and policy

**2030**



Establishment of potential **'Renewable Energy Hub'** delivering employment and other long term benefits to bring greater prosperity to the local and regional economy.



**Extension, life extension and repowering of existing wind farms** within the cluster delivering optimised generation and greater unity in wind farm design.

10 Year review

**2045**

Scotland to reach target of **Net Zero emissions** of all greenhouse gases by 2045. Opportunity for the cluster to contribute over 1GW of renewable energy generation towards the target.

# The benefits for communities



- c£5 million in investment per annum
- Potential to leverage additional public and private funding
- Long term vision for investment
- Resource – new economic development officer in post
- Streamlined engagement with developers
- Opportunities for shared ownership and other models



# The benefits for the local economy



- Visibility of development pipeline for supply chain
- Potential for colocation of other technologies
- Opportunity to attract new businesses: servicing, manufacturing
- Scope for investment through REF in jobs, skills and facilities
- Infrastructure – eg Conexus business park

# A Development Framework for the Hagshaw Energy Cluster

## Planning for Net Zero



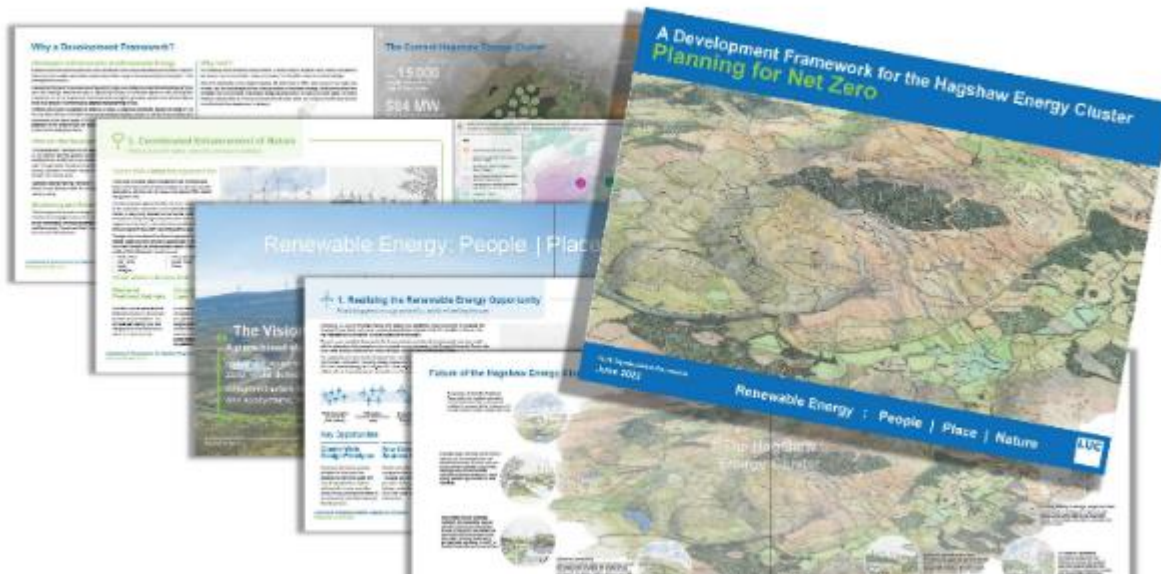
### What stage are we at?

The Development Framework will identify opportunities to enhance and invest in the local environment, communities and place. [LUC](#) has led the development of the Framework and the stakeholder engagement process to shape the document.

During Winter 2021-2022 we sought views from landowners, communities, local businesses and other important stakeholders to help shape the Development Framework and help identify opportunities and priorities for investment. We listened to what people contributed and are now incorporating the ideas and feedback into the draft Development Framework.

[www.thehagshawenergycluster.co.uk](http://www.thehagshawenergycluster.co.uk)

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# Where can I get one ?



- The Hagshaw model is available to replicate
- Limited resource in NatureScot and agencies to facilitate
- **But** – these projects can be self financing through:
  - Developer contributions
  - Community benefit funds
  - Community renewal funds and other sources

If you want one – contact me at [brendan.turvey@nature.scot](mailto:brendan.turvey@nature.scot)