

Piloting a Development Framework for onshore wind farms at the Hagshaw Energy Cluster

All Energy - May 2022

Outline



- 1) Why collaborate ?
- 2) Why Hagshaw Hill ?
- 3) Who is involved ?
- 4) What have we done so far ?
- 5) The Development Framework
- 6) What are the benefits for your industry ?
- 7) What are we doing next ?

Why collaborate ?



- Increased deployment of **onshore wind** and other technologies critical to net zero
- Increasing focus on **repowering** existing schemes (which could deliver ~ 5 GW by 2030)
- To reduce costs and length of time in planning and provide greater certainty
- Onshore wind policy statement (2017) encouraged more collaboration
- Opportunity to pilot a more **planned** and positive approach to repowering, with more benefits for nature

Why Hagshaw Hill ?



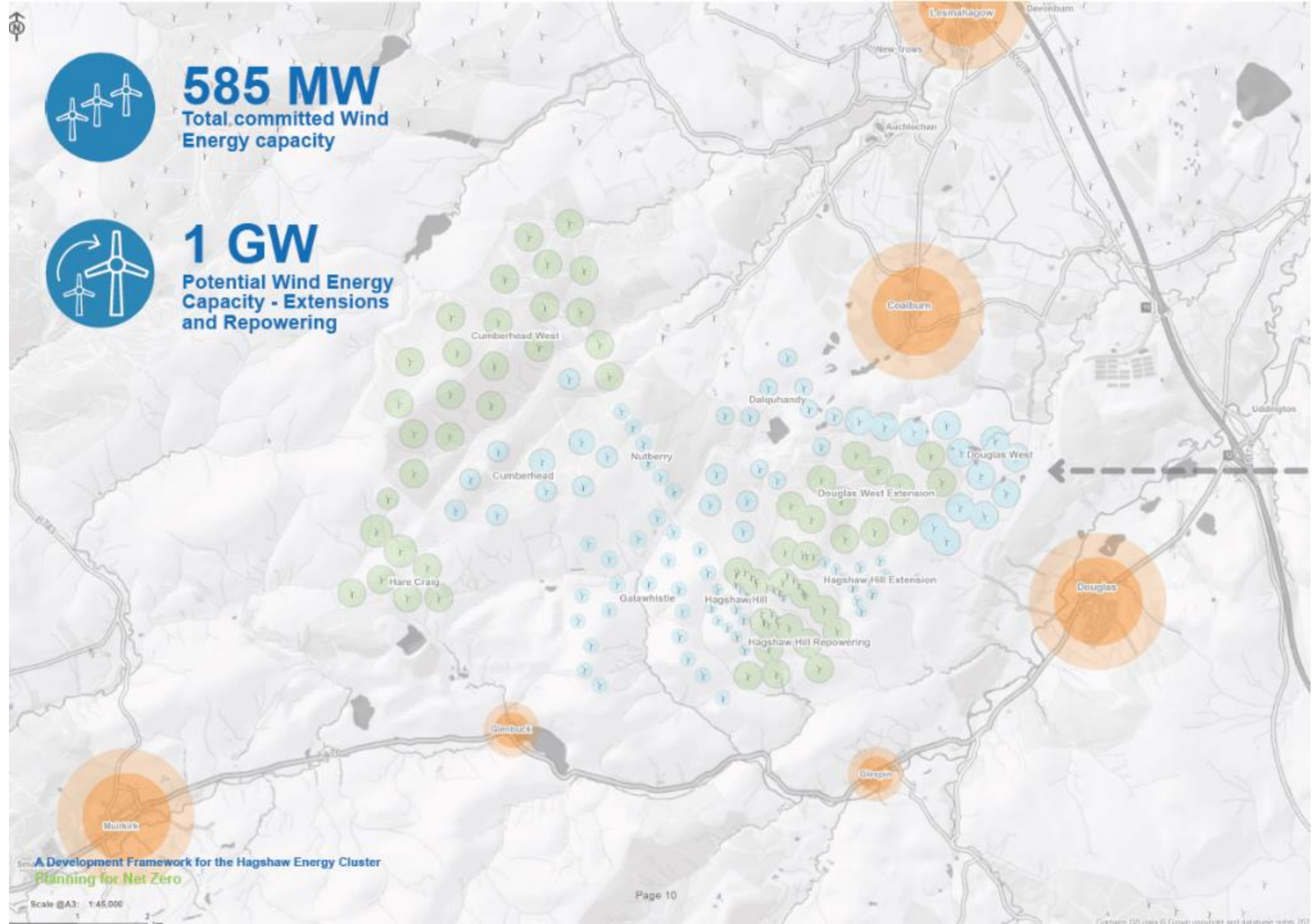
- One of Scotland's first wind farms, now going through the repowering process
- Mix of different schemes in the cluster (T&CPA, S36)
- Mix of turbine heights and layouts
- Ongoing development interest for extensions and new sites
- Appetite from S Lanarkshire and East Ayrshire Councils to try something different



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



HISTORIC
ENVIRONMENT
SCOTLAND

ÀRAINNEACHD
EACHDRAIDHEIL
ALBA



Scottish Environment
Protection Agency
Buidheann Dion
Àrainneachd na h-Alba



octopus renewables
A brighter way



What have we done so far ?



- Created a multi developer, agency and planning authority working group in 2019
- Scoped out areas of possible collaboration and developed a shared vision
- Agreed to produce a **Development Framework** for the cluster and appointed LUC in June 2021 to take this forward

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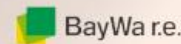
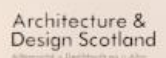
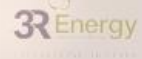
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A Development Framework for the Hagshaw Energy Cluster

Planning for Net Zero

Project Steering Group



Project Team

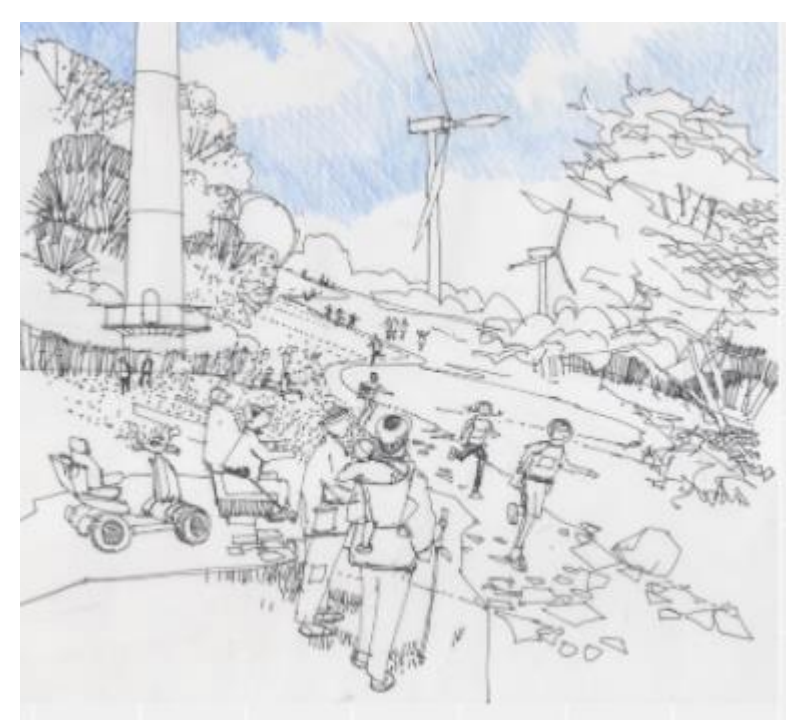


The Development Framework



Four key aims:

- deliver a **low carbon future** for the communities in the area.
- maximise the **social, economic and environmental benefits** of development within the cluster, by enhancing connectivity, building climate resilience and investing in natural capital
- maximise the **renewable energy potential** of the cluster, including from other technologies such as solar and energy storage and through the repowering of existing wind farms
- minimise the **impacts of development** on the environment and communities



The Development Framework



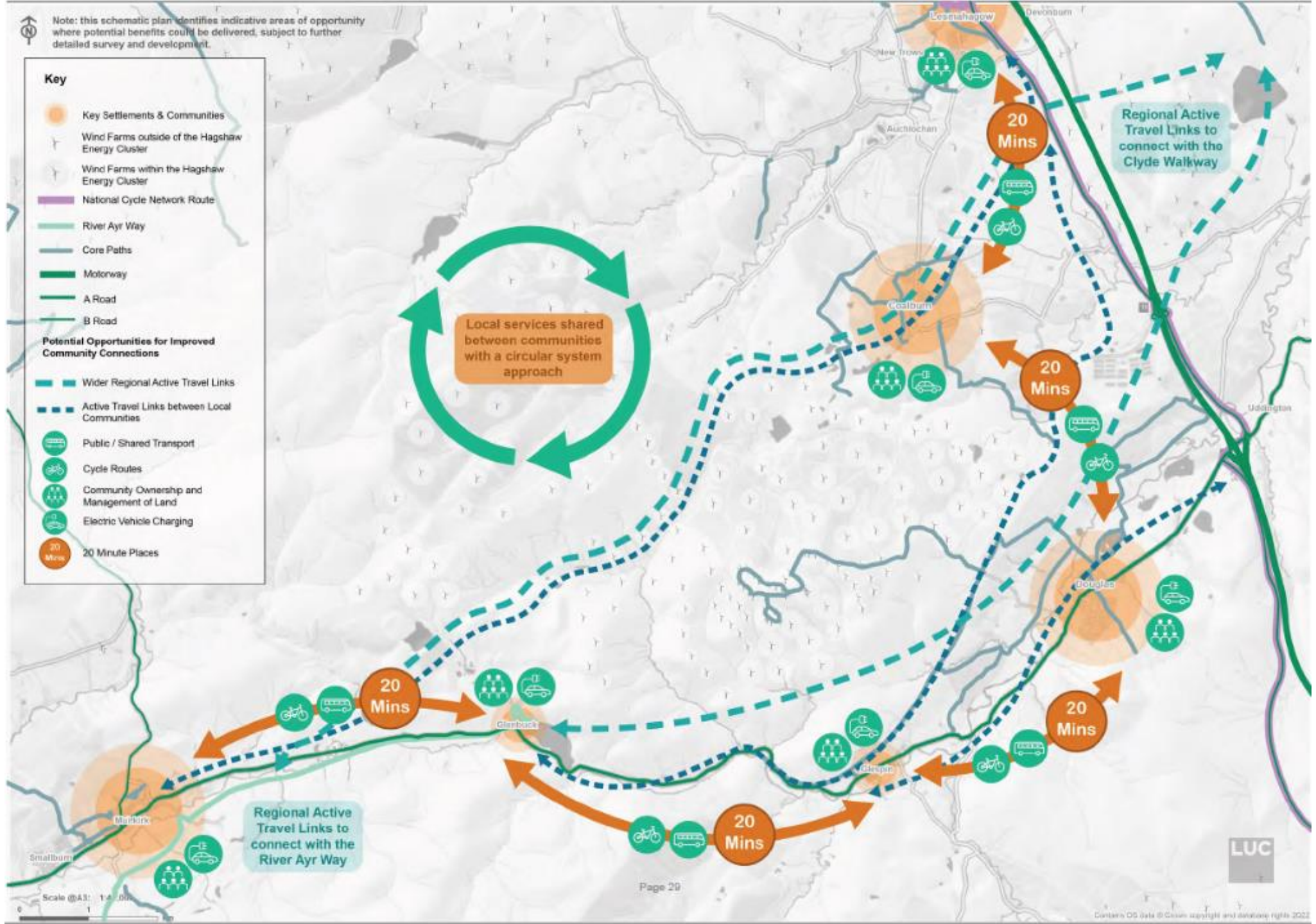
- A framework not a masterplan
- Aims to guide and facilitate development not to constrain it
- Shared approach to scoping and drafting (and budget!)
- Planning authorities to adopt as non statutory planning guidance, subject to HRA and SEA etc
- Material consideration alongside LDP, NPF etc



Note: this schematic plan identifies indicative areas of opportunity where potential benefits could be delivered, subject to further detailed survey and development.

Key

-  Key Settlements & Communities
-  Wind Farms outside of the Hagshaw Energy Cluster
-  Wind Farms within the Hagshaw Energy Cluster
-  National Cycle Network Route
-  River Ayr Way
-  Core Paths
-  Motorway
-  A Road
-  B Road
- Potential Opportunities for Improved Community Connections**
-  Wider Regional Active Travel Links
-  Active Travel Links between Local Communities
-  Public / Shared Transport
-  Cycle Routes
-  Community Ownership and Management of Land
-  Electric Vehicle Charging
-  20 Minute Places



Scale @A3: 1:4,000





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Key

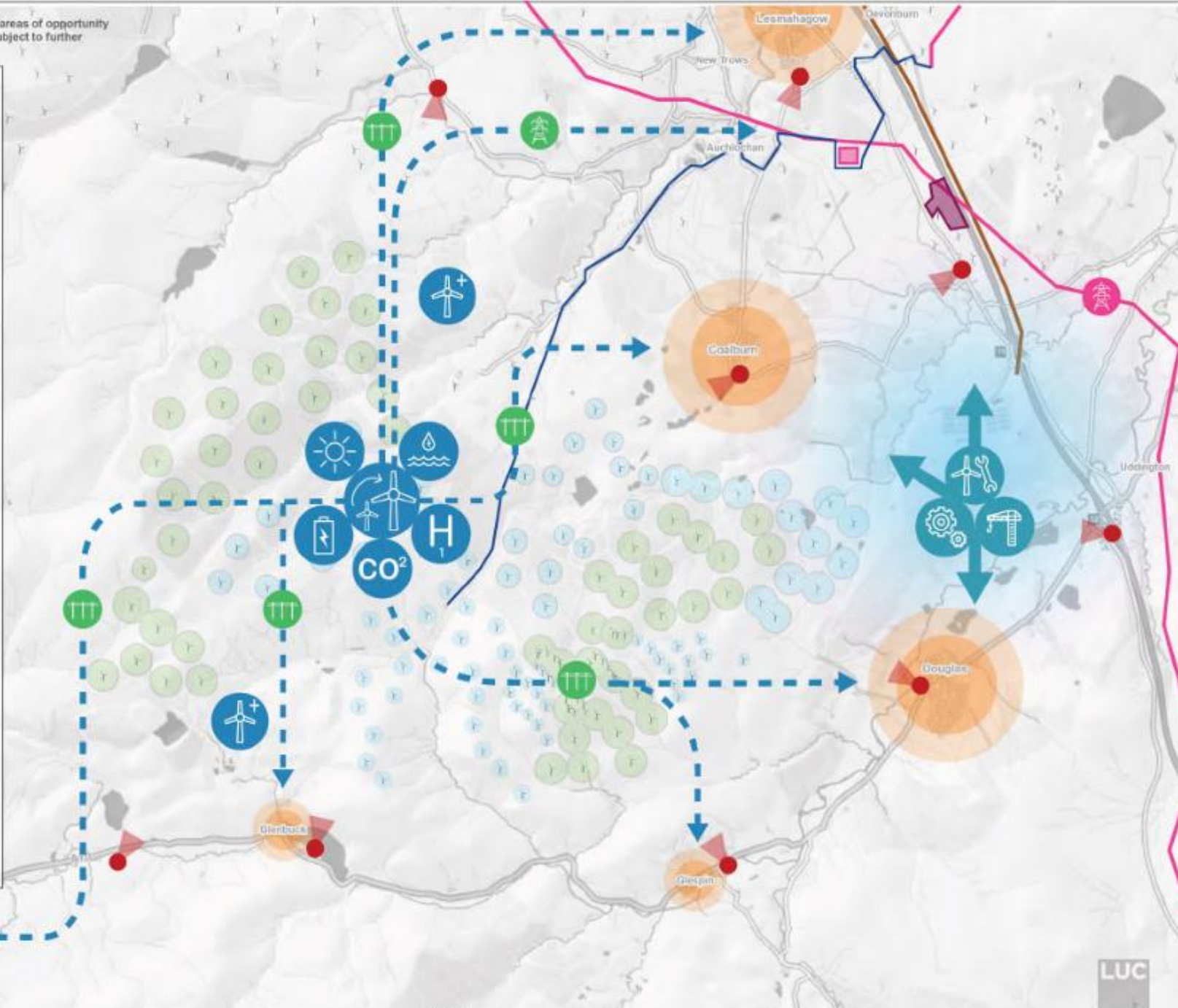
- Key Settlements & Communities
- Wind Farms outside of the Hagshaw Energy Cluster
- Operational or Under Construction Wind Farms within the Hagshaw Energy Cluster
- Consented Wind Farms within the Hagshaw Energy Cluster
- Overhead Transmission Lines
- Underground Transmission Line
- Potential Shared 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





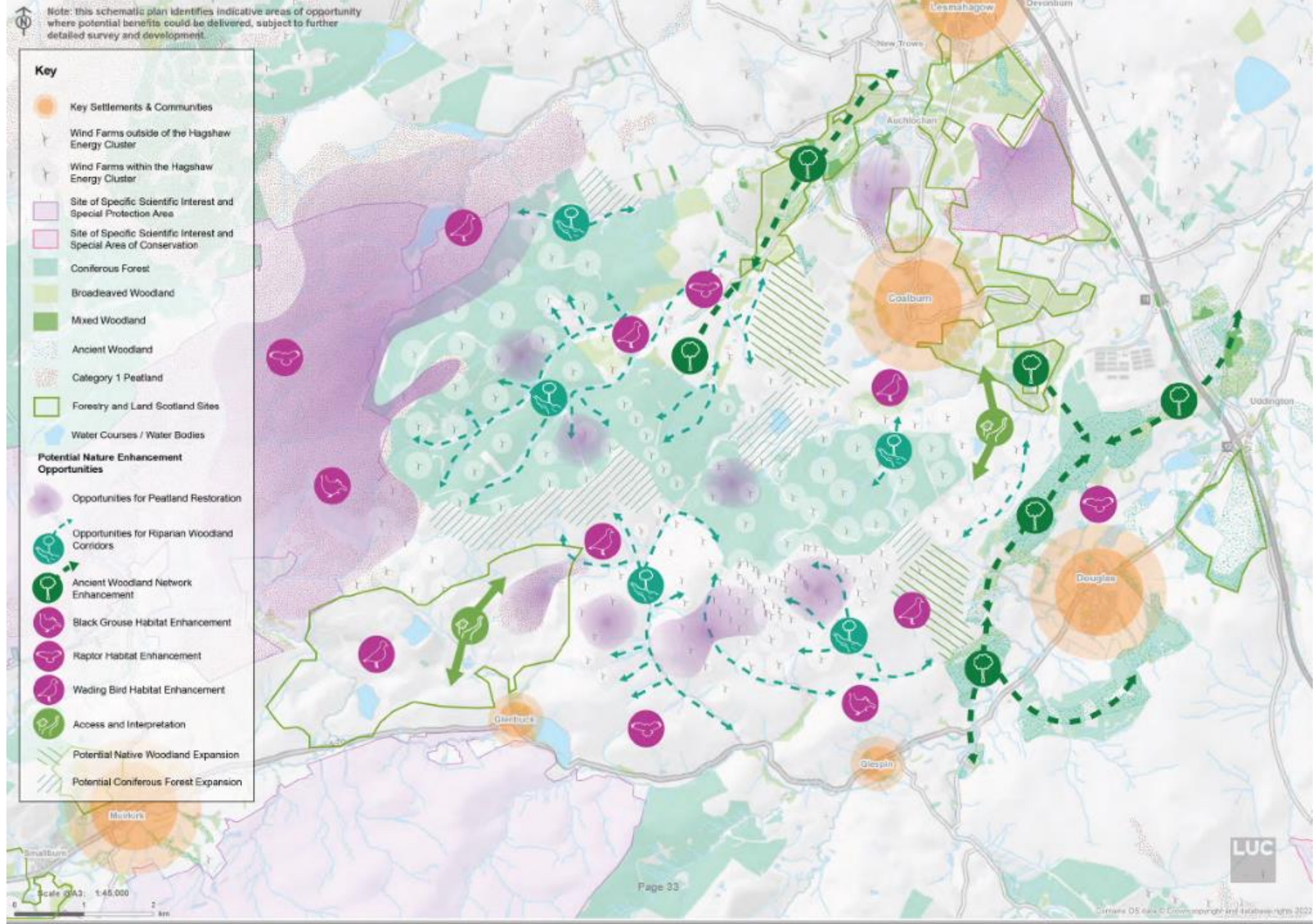
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Key

-  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
-  Potential Coniferous Forest Expansion



The benefits for your industry

- Increased certainty
- Reduced EIA and survey effort
- Reduced costs
- Data sharing
- Design principles across the cluster
- Maximising capacity
- Shared procurement and infrastructure

The benefits for your industry



- Deliver more benefit at no additional cost
- Leverage in public and private finance
- Maintain and build 'social license to operate'
- Closer links to local communities
- Collaborative working with agencies

What are we going to do next:



- Scoping the framework - completed
- Local stakeholder engagement – completed
- Draft framework – completed
- Consultation by Planning Authorities - Spring 2022
- Community development officer – starting this month
- Adoption – Sept 2022
- Keen to replicate elsewhere – contact Brendan.turvey@nature.scot