

UI	Primary strategic priority supported
0.1	<i>Cross-cutting</i>
1.1	Energy Efficiency
1.2	Energy Efficiency
1.3	Energy Efficiency
1.4	Energy Efficiency
1.5	Energy Efficiency
1.6	Energy Efficiency
1.7	Energy Efficiency

2.1	Electricity Generation
2.2	Electricity Generation
2.3	Electricity Generation
2.4	Electricity Generation
2.5	Electricity Generation
2.6	Electricity Generation
2.7	Electricity Generation
2.8	Electricity Generation
2.9	Electricity Generation
2.10	Electricity Generation
2.11	Electricity Generation

3.1	Smart and flexible systems
3.2	Smart and flexible systems
3.3	Smart and flexible systems
3.4	Smart and flexible systems
4.1	Decarbonise Heat
4.2	Decarbonise Heat
4.3	Decarbonise Heat
4.4	Decarbonise Heat
4.5	Decarbonise Heat
4.6	Decarbonise Heat
4.7	Decarbonise Heat

5.1	Decarbonise Transport
5.2	Decarbonise Transport
5.3	Decarbonise Transport
5.4	Decarbonise Transport
5.5	Decarbonise Transport
5.6	Decarbonise Transport
5.7	Decarbonise Transport
5.8	Decarbonise Transport
5.9	Decarbonise Transport
6.1	Regional Coordination
6.2	Regional Coordination
6.3	Regional Coordination

6.4	Regional Coordination
6.5	Regional Coordination
6.6	Regional Coordination
6.7	Regional Coordination
6.8	Regional Coordination
6.9	Regional Coordination
6.1	Regional Coordination
6.11	Regional Coordination
6.12	Regional Coordination
6.13	Regional Coordination
6.14	Regional Coordination

Strategic action description

Develop Local Area Energy Plans (LAEPs) within each local authority area to inform future regional and local development planning, taking a whole-system multi-vector approach.

-Use LAEP to explore opportunities for decentralised energy generation in the region and investigate effectiveness/feasibility of distributed electricity supply models (local flexibility markets).

Provide financial support to households (private and public sector owned) to enable uptake of low carbon measures:

- Support adoption of heat pumps and retrofits***
- Provide support for potential large disruptions associated with retrofits***

Increase accessibility of low carbon measures for households through clear guidance and information

- Improve communication of existing support, include easy-to-understand eligibility criteria, and use diverse channels of communication***

Regional stakeholders to raise concerns around the use of EPC as a measure for household efficiency, and to support the transition to a new measure

Set building regulations in line with minimum standards required to achieve decarbonisation objectives

- Monitor the performance of buildings against these standards and support action to address performance gaps***

Monitor the commercial and industrial sector and its progress to support efficient, evidence-based investment

Establish National capacity mechanisms for efficiency measures

Implement and enforce regulation to ensure that new buildings in the commercial and industrial sector are built to high enough standards

Investigate and analyse the roles for blue hydrogen and carbon shipping as stepping stones to a zero-carbon future within the region
Welsh Government to explore and lead a coordinated approach to attract turbine OEM to the region on the back of the FLOW development potential
Continue to matchmake industrial off-takers with renewable developers
De-risk and promote floating offshore wind (and other marine technologies)
Clear communication to the commercial and industrial sector on what is required and by when, and support these requirements through providing educational resources
Additional port infrastructure to be funded and built to unlock supply chain opportunities for floating offshore wind
Region to build on and implement learnings from the Welsh Government Future Energy Grids for Wales project (expected to conclude 2023)
Facilitate public investment in grid infrastructure (electricity and gas) upgrades, port infrastructure, and renewable energy generators for a return on investment
Continue to engage Universities in work around how the electricity grid capacity can be increased to accommodate the additional renewable electricity that we need for the transition
Standardisation of equipment and infrastructure
Encourage community buy-in at an earlier stage to support licencing processes

Support Homes as Power Stations objectives and initiatives to encourage ambition across the supply chain, including incentives for homeowners and developers
Carry out research to assess joint procurement options for EV and hydrogen
SWIC to continue exploring new technologies and transition opportunities
Explore the opportunity for small-scale generation linked to local storage across sectors
Explore new financing options to support the decarbonisation of homes
Support framework approaches to projects to bring supply chains together, avoiding fragmentation
Procure low carbon technologies (e.g. heat pumps) in bulk to facilitate a joined-up approach and work with supply chains
Work with WGES and CADW to improve and promote improved understanding of traditional and older buildings, alongside a retrofit programme for buildings pre-1919 construction
Support increased understanding of the impact of the transition on fuel poor households across the region. Research should inform messaging and communications to ensure low carbon measures are accessible to and appeal to households living in fuel poverty
Ensure that billing methodologies account for changes in the future energy system and do not disadvantage the region (gas billing)
Work with Wales & West Utilities to ensure that the required gas network investment is captured in time for the end of the current Ofgem price control period (2026). Work with Ofgem to ensure expectations are managed.

Public organisations, e.g. Local Authorities, to lead by example by setting targets and transitioning fleets
Include accessible hydrogen and EV charging at new bus depots
Support and enable a fast scale up of hydrogen filling stations/infrastructure and EV charging facilities across the region
Prioritise ease and convenience for users to facilitate multi-modal journeys e.g. South West Wales Metro
Continue to directly involve communities in identifying barriers and proposing solutions through the Local Transport Community Plans
Facilitate demand reduction for energy-intensive modes of transport
Ensure Welsh Transport Strategy feeds down to local level and that funding is provided to support this
Build the servicing of chargers into commercial deals for chargers for public car parks - ensuring that downtime is minimal
Carry out an assessment to explore the opportunity for road charging at popular tourist destinations
Review and assess existing funding streams to ensure it is coordinated and focused in the right places
Establish, clearly define and communicate the roles and responsibilities of different stakeholders to facilitate a collaborative, joined-up and aligned approach.
Provide an advice service for stakeholders across the supply chain. Review and assess resources that exist and identify gaps.

Carry out a public engagement campaign to support buy-in across sectors and encourage behaviour change from citizens
Recognise and build on ongoing work and consultations into financial support and incentives for businesses
Welsh Government to work with higher education and further education institutions to introduce a renewable or “net zero” curriculum from the top down
Identify high value targets and voids in the supply chain that represent the greatest opportunity for the region and target these for development, building on ongoing SWIC work
Continue to create a “buzz” that attracts (and grows) companies to the region, promoting the region and associated opportunities
Engage and utilise the SBCD Skills and Talent Programme to develop a skilled workforce that meets the needs of the transition across all sectors.
Welsh Government and BEIS to continue ongoing support for SWIC as some partners are already looking towards a Final Investment Decision (FID) in late 2022.
Act on the opportunity and ambition around the Port of Milford Haven
Mitigate investment risk through feasibility and demonstrations using whole system approaches
Obtain political buy-in regionally. Welsh and UK Governments to promote the potential of the region with a joined-up plan and clear priorities.
Create regional support for companies looking to develop and grow in the renewable energy sector

Related Strategic Priorities	Theme (Thematic Lead/Task and Finish Group)
1,2,3,4,5,6	N/A
4	Domestic Energy
4	Domestic Energy
	Domestic Energy
4	Domestic Energy
	Commercial and Industrial
	Commercial and Industrial
4	Commercial and Industrial

	Renewable Energy Generation, Commercial and Industrial
	Renewable Energy Generation
	Renewable Energy Generation, Commercial and Industrial
	Renewable Energy Generation, Commercial and Industrial
	Renewable Energy Generation, Commercial and Industrial
	Renewable Energy Generation, Commercial and Industrial
	Renewable Energy Generation
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	Renewable Energy Generation
	Renewable Energy Generation
	Renewable Energy Generation

	Domestic energy
	Transport and active travel
	Commercial and industrial
	Commercial and industrial
	Domestic Energy
	Domestic Energy, Commercial and Industrial
	Domestic Energy, Commercial and Industrial
	Domestic Energy
	Domestic Energy
	Domestic Energy, Commercial and Industrial
	Domestic Energy

	Transport and active travel
	Transport and active travel
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	Transport and active travel
	Cross-Cutting Commercial and Industrial
	Cross-Cutting Commercial and Industrial
	Cross-Cutting

	Cross-Cutting
	Cross-Cutting
	Cross-Cutting
	Cross-Cutting
	Cross-Cutting Commercial and Industrial
	Cross-Cutting
	Cross-Cutting
	Cross-Cutting
	Cross-Cutting
	Renewable energy generation
	Renewable energy generation

- 1 = idea
- 2 = strategic
- 3 = outline
- 4 = in development
- 5 = launch

Development stage	
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(Short-term=underway by 2023; Medium-term=underway by 2025; Long-term= underway by 2035)

Time-scale	Potential lead(s)
<i>Short-term</i>	<i>City Science</i>
Medium-term	
Short-term	
Short-term	
Medium-term	
Medium-term	
?	
Medium-term	WG Energy Policy

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Long-term	

Potential enabler(s)

Wales & West Utilities; SP Energy Networks; Western Power Distribution

*Welsh Government
UK Government
Local Authorities
RSLs*

*Welsh Government
UK Government
Local Authorities
RSLs HAPS/SBCD*

*UK Government
Welsh Government
ABC*

*Welsh Government
ABC
HAPS/SBCD
WSA*

*SWIC
Milford Haven Waterway Future Energy Cluster (MHWFECC)
CJC (TBC)*

*UK Government
Welsh Government
SWIC*

Welsh Government

SWIC MHWFEC CJC USW
Welsh Government CJC SWIC MEW
SWIC CJC Local Authorities
MEW MHWFEC Welsh Government UK Government (CfDs)
Welsh Government Local Authorities SWIC HE/FE
Welsh Government Port Authorities CJC UK Government
CJC WPD WWU
CJC WPD WWU
CJC SWIC HE
SWIC Local Authorities WPD WWU
Local Authorities CJC CEW WGES

<p><i>SBCD/HAPS</i> <i>Local Authorities</i></p>
<p><i>SWIC</i> <i>WPD</i> <i>WWU</i> <i>HE</i></p>
<p><i>SWIC</i> <i>HE</i></p>
<p><i>SWIC</i> <i>WPD</i> <i>Welsh Government</i></p>
<p><i>ABC</i> <i>Local Authorities</i> <i>RSLs</i></p>
<p><i>SBCD/HAPS</i> <i>SWIC</i> <i>CJC</i> <i>Local Authorities</i></p>
<p><i>Local Authorities</i> <i>RSLs</i> <i>NPS</i> <i>SBCD/HAPS</i></p>
<p><i>ABC</i> <i>CADW</i> <i>Local Authorities</i></p>
<p><i>RSLs</i> <i>Local Authorities</i> <i>Welsh Government</i> <i>WPD</i> <i>WWU</i></p>
<p><i>SWIC</i> <i>WWU</i> <i>Ofgem (requires further dialogue)</i> <i>Energy suppliers</i></p>
<p><i>Welsh Government</i> <i>WWU</i> <i>Ofgem</i></p>

<p><i>Local Authorities</i> <i>Public bodies</i></p>
<p><i>TfW</i> <i>Bus operators</i></p>
<p><i>Welsh Government</i> <i>Local Authorities</i> <i>CJC</i> <i>WPD</i></p>
<p><i>TfW</i> <i>Other transport operators</i> <i>Local Authorities</i> <i>SBCD</i></p>
<p><i>Local Authorities</i> <i>CEW</i></p>
<p><i>Welsh Government (Llwybr Newydd)</i> <i>Local Authorities</i></p>
<p><i>Welsh Government</i> <i>Local Authorities</i></p>
<p><i>Local Authorities (Planning)</i></p>
<p><i>Local Authorities</i> <i>Pembrokeshire Coast National Park Authority</i> <i>Brecon Beacons National Park Authority</i></p>
<p><i>CJC</i> <i>Welsh Government</i> <i>Local Authorities</i></p>
<p><i>Welsh Government</i> <i>Local Authorities</i> <i>CJC</i></p>
<p><i>Welsh Government</i> <i>Local Authorities</i> <i>NPS/CCS</i> <i>Actual supply chain</i></p>

<i>Welsh Government</i>
<i>SWIC</i> <i>SBCD</i> <i>CJC</i>
<i>Welsh Government</i> <i>HE/FE</i>
<i>SWIC</i>
<i>SWIC</i> <i>CJC</i> <i>SBCD</i>
<i>SBCD</i> <i>HE/FE</i>
<i>Welsh Government</i> <i>BEIS/UK Government</i> <i>SWIC</i>
<i>SWIC</i> <i>Welsh Government</i> <i>Port of Milford Haven</i> <i>MHWFEC</i> <i>Pembrokeshire CC</i>
<i>SWIC</i> <i>HE</i> <i>Local Authorities</i> <i>WPD</i>
<i>Welsh Government</i> <i>Local Authorities</i> <i>CJC</i> <i>SBCD</i>
<i>Welsh Government</i> <i>Local Authorities</i> <i>SBCD</i>

Is there budget available or available finance addressing the general policy area for this action?

Funding status (high level)
<i>Funding in place</i>

Status

The Energy Systems Catapult (ESC) has been appointed to deliver LAEPs for The objective is to have LAEPs completed for Neath Port Talbot, Swansea and Carmarthenshire local authorities by March 2024; City Science have been assigned as the consultants delivering the plans.

The Energy Systems Catapult has released technical guidance on developing LAEPs, which forms part of their appointment as the programme's technical advisors.

Both these measures are likely to require significant expenditure required. Heat pumps currently attract a £5,000-£6,000 subsidy, reducing costs of a new system by 30%-40%. Carmarthenshire and Pembrokeshire have high levels of oil heating systems - these should be targeted first due to their high carbon impact (versus natural gas).

The Welsh Government is currently being supported by Carbon Trust and Regen to develop the Welsh Heat Strategy; this will provide policy that the Welsh Government is implementing.

Capacity mechanism and renewable mechanism, there's a need for something similar to FIT (feed-in tariffs) to develop energy efficiency measures and to de-risk these projects. WG and SWIC have a role in lobbying as this sits outside the control of WG mandate.

Building standards and how do we achieve these standards; some of this might be driven by National Resources Wales (energy performance permits etc). Energy Policy seems t right home for this - consultation on new Part L regulations covers commercial.

Central funding is required to derisk. Port infrastructure in milford haven and a lot need to done in NPT. An enterprise zone could be supported to overcome challenges which money, grid and consents. Energy network and port infrastructure and no direct access.

Milford Haven - CX left and Chair MH Port Authority Leading these projects (leading on the MH

There's a need for transparency and clarity on what the Welsh Government expects from the Industrial sector. Exploring how knowledge sharing could be improved should be the main target in this area as there has been some barriers.

Bit of everybody - including WGES and everyone to work collaboratively. Small grid infrastructures

Progress update (RAG) <i>(Summarise progress based on interventions)</i>	Last updated
Green	20/12/22
Orange	21/12/22
Light Green	
Light Green	
Light Green	
Light Green	
Light Green	







