

# Carmarthenshire LAEP report

## Action Plan Overview



### Crosscutting Enabling Actions

Actions that foster a supportive environment and promote a holistic approach to addressing complex challenges. The actions enable Carmarthenshire to navigate energy transition challenges and embrace a low carbon future.



### Building Efficiency, Retrofit & Heat Actions

Actions that enable the delivery of building efficiency, retrofit and heating interventions. The actions address the decarbonisation of the building stock and position Carmarthenshire to facilitate decarbonisation benefits for residents.



### Transport Actions

Actions that support transport decarbonisation and the Sustainable Transport Hierarchy. The actions encourage the reduction dependence on personal motorised vehicles, fostering a greener and more accessible transportation landscape.











### Generation & Networks Actions


Actions that underscore a commitment to a future-proofed energy system. The county aims to leverage expertise and resources to fortify infrastructure, reduce peak demand and plan for a hydrogen future.



### Industry Actions

Actions that support the decarbonisation of industry. Carmarthenshire aims to advance energy-related opportunities, drive innovation, nurture growth, and accelerate the transition to a decarbonised industrial landscape.

- Action 1:** Establish a Regional LAEP Steering Group 
- Action 2:** Support Long-Term Green Skills Programme 
- Action 3:** Embed LAEP Learnings into Wider Processes & Communications 
- Action 4:** Create a Retrofit & Low Carbon Heating Behaviour Change Campaign 
- Action 5:** Implement a Retrofit & Heat Bulk Purchasing Scheme for Social Housing
- Action 6:** Development of a Retrofit and Low Carbon Heating Local Supply Chain
- Action 7:** Improve the Accessibility of EV Charging Infrastructure 
- Action 8:** Facilitate Low & Zero Carbon Vehicle Public Fleet Uptake
- Action 9:** Enhance Active Travel & Public Transport 
- Action 10:** Continue Collaboration with Electricity & Gas Network Operators 
- Action 11:** Address Future Needs of Hydrogen-Fuelled Vehicles
- Action 12:** Establish an Industry Engagement Forum 
- Action 13:** Support the Green Industries Investment Zone

----- Actions intended for regional implementation  Priority for mobilisation



Cyd-bwyllgor Corfforedig  
**De-orllewin Cymru**  
Corporate Joint Committee for  
**South West Wales**



## CARMARTHENSHIRE

3<sup>rd</sup> Largest County in Wales (2.365 square km's)

### Population

c.190,000 (44% of whom speak Welsh)

### Environment

Outstanding natural environment including Afon Tywi - longest river wholly within Wales

### Economy

Agricultural with pockets of heavy industry (esp. Llanelli)

### Schools

108 (95 Primary, 12 Secondary, 1 Special)

### Historical

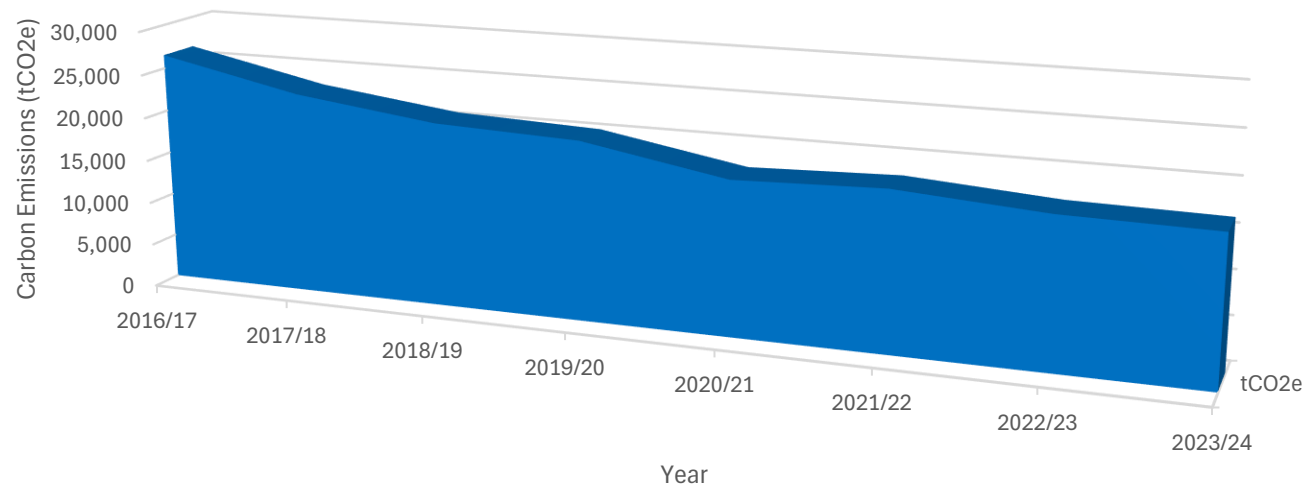
Carmarthen - Wales oldest town (with its own Roman amphitheatre)

### Interesting Fact

Caerfyrddin (Carmarthen) – reputed birthplace of Merlin



# Moving Towards Net Zero Carbon



**2016/17 – 2022/23**

**-37% tCO<sub>2</sub>e**

	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24
<b>kWh</b>	72,527,266	68,564,902	69,059,743	70,332,391	63,684,340	67,694,145	63,870,252	61,377,960
<b>Miles</b>	9,313,790	9,069,875	8,829,043	9,126,181	6,679,056	6,773,772	7,272,186	8,420,699
<b>tCO<sub>2</sub>e</b>	<b>26,542</b>	23,143	21,087	20,477	17,590	18,124	16,984	<b>16,741</b>



# Historical context – SALIX Funded Projects

- Completed 200+ projects prior to engagement with RE:Fit Cymru
- Multiple Energy efficiency measures : Lighting, Insulation, Swimming Pool Covers, Garage Speed Doors, Shut-down Software, TRV's etc. across the estate.
- Salix funding – 0% interest loan projects with < 8yr payback.
- Loan repaid by sites via project savings.
- Largest single project by value £0.75 million conversion of Town and Community Council Streetlamps to LED technology.
- For several years running, Carmarthenshire was top of the Wales Salix Investment 'league'.
- \* £2.8 M investment saving **44,800** tCO<sub>2</sub>e across technology lifetime.
  - \* Based on prevailing tariffs, carbon emission factors and anticipated technology lifetime at time of investment



# Re:Fit Cymru – Stepping up a Gear





# Re:fit Cymru – Stepping up a Gear ...

## Phase 1:

- Historically, energy projects had been undertaken in tranches on a single technology basis  
Procurement always a challenge: office time, 'sales push' with budget holders, managing contractors to ensure site satisfaction.
- Welsh Government appointment GEP Environmental to assist Welsh Public Sector engagement.  
Carmarthenshire were fortunate to be paired with GEP Director Glyn Mountford.
- Wholistic approach incorporating complimentary technologies across 30 sites.
- After 1<sup>st</sup> year (Aug21-22) total energy savings = **£336,261 & 673.9 tCO<sub>2</sub>e/yr.**
- Due to technological advancements some of the measures installed are second generation improvements, replacing measures previously installed under standalone SALIX schemes.
- Worked with Ameresco to engage with as many local / Welsh contractors as possible.
- Highly successful Phase 1 delivered against the backdrop of the COVID Pandemic ....



# The Final Challenge ? Decarbonisation of Heat

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# Decarbonisation of Heat ... Early Stages

- Awarded Low Carbon Heat Development Grant from Welsh Government.
- Provided 50% (£30k) of cost for feasibility sites for 6 sites.
- 6 sites scoped in effort to have shovel ready projects in anticipation of a follow-on Low Carbon Heat Grant.
- Additional electricity cost prohibitive – influenced our choice of sites.
- DNO advice - grid constraints should not be a significant issue.
- Need for a wholistic package of improvements to address building heat loss and offset increase in electricity consumption.
- Feasibility undertaken by already procured Re:Fit Service Provider, Ameresco.

# Low Carbon Heat Capital Grant

- Building on the results of the Feasibility Study, WGES approved our Round 1 application for c. £4 million to replace fossil fuel heating systems at 6 No. Primary Schools.
- Although some building fabric measures were included in the proposals, schools selected were of relatively modern construction.
- To allow for the increase in electrical consumption, we selected schools that were already used to spending high sums on fossil fuels.
- Funding was also set aside to provide complementary solar PV installations to help drive down electrical demand.
- Decarbonisation of heating at 6 primary schools completed during 2024.



# Low Carbon Heat Capital Grant / Re:Fit Phase 2

- Completion of Round 1 sites gave us the confidence to tackle a more challenging sites.
- Switched strategy to focus downwards from top energy consuming sites.
- Following the scoping of multiple sites applied for Round 3 funding to decarbonise Carmarthen Leisure Centre.
- Successful application - offered £3m grant by Welsh Government early February 2025.
- Intention to centre this within a much larger portfolio wide Re:Fit energy efficiency / renewables project.
- With aim to achieve a further 3,000 tCO<sub>2</sub>e per annum drop in carbon emissions.
- To hit a 50% drop in reported carbon emissions from our 1026/17 base year.





Diolch  
Thank you

<https://www.carmarthenshire.gov.wales/council-democracy/climate-action-carmarthenshire/>

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