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| Meeting of: | Cabinet |
| Date of Meeting: | Thursday, 08 January 2026 |
| Relevant Scrutiny Committee: | Resources Scrutiny Committee |
| Report Title: | Carbon Management Plan 2024-2030 – Year 1 Update |
| Purpose of Report: | Provide an update on the Council’s 2024/25 Net Zero Carbon data reported to Welsh Government. Provide an update on delivery against the Council’s Carbon Management Plan 2024-30 – Year 1 |
| Report Owner: | Executive Leader and Cabinet Member for Performance and Resources |
| Responsible Officer: | Director of Corporate Resources |
| Elected Member and Officer Consultation: | Committee Reports – Legal Head of Finance/S151 Officer Project Zero Board |
| Policy Framework: | This is a matter for Executive decision by Cabinet |
| <p>Executive Summary:</p> <ul style="list-style-type: none"> Our Carbon Management Plan 2024-2030 baselined the corporate carbon emissions for 2022/23 and activity required to ensure carbon emissions are reduced across all corporate Council activities. The plan was produced collaboratively with key Council Service areas and approved by Cabinet September 2024. This is the first update on progress made against the Carbon Management Plan and uses our 2024/25 corporate carbon emission data to evidence progress in the same 12 month period. This report is accompanied by an update of the Carbon Management Plan’s activity tracker as set out in Appendix B. | |

Recommendations

1. That Cabinet consider the progress detailed in this report and accompanying appendices in relation to the Carbon Management Plan 2024-2030.
2. That Cabinet note the 2024/25 Net Zero Carbon emissions data submitted to Welsh Government (provided as Appendix A).
3. That the Committee note the progress against the Carbon Management Plan (provided as Appendix B) .

Reasons for Recommendations

1. To enable Cabinet to consider how work to decarbonise the Council's corporate activity is being taken forward.
2. To ensure that Members are aware of the data being submitted to Welsh Government and delivery against the Carbon Management Plan 2024-2030.
3. In order that the Cabinet are aware of the progress made against the Carbon Management Plan during 2024/25.

1. Background

- 1.1 The first two iterations of the Carbon Management Plan were predominantly focused on reducing our building related carbon footprint. However, since this time, increased emphasis is now on reducing organisation wide carbon emissions (including supply chains known as scope 3 emissions).
- 1.2 Welsh Government have communicated ambitions for the public sector to be carbon neutral by 2030. This is ahead of the remaining sectors in Wales as the public sector is expected to take a leadership role in carbon reduction. The Council reports annually on our corporate carbon emissions in line with [Welsh Government's Public sector net zero reporting](#) requirements, methodology and guidelines.
- 1.3 The [Carbon Management Plan 2024-2030](#) aligns to the activities and reporting lines of the Welsh Government's reporting methodology and template. The plan was presented by the Deputy Leader to [Cabinet 5th September 2024](#), and subject to further discussion at [Corporate Performance and Resources Scrutiny Committee, 20th November 2024](#)
- 1.4 The Carbon Management Plan 2024-2030 was developed by the Decarbonisation and Energy section with input from key service areas. Due to its breadth, it is being delivered from services across the organisation with actions assigned to

different service areas. Actions will be monitored and reported twice yearly to Cabinet as part of the Project Zero regular updates.

1.5 This update provides two appendices:

- Appendix A - a pdf copy of our 2024/25 Net Zero Carbon Reporting spreadsheet.
- Appendix B - an update on 2024/25 delivery against the Carbon Management Plan 2024-2030.

2. Key Issues for Consideration

- 2.1** The Carbon Management Plan 2024-2030 sets out the contribution that will be made towards relevant aspects of the Council's Project Zero Challenge Plan (notably challenge C3.4) along with other challenges and steps.
- 2.2** The task of reducing our carbon emissions remains significant. There are considerable staff resourcing and funding pressures which will limit the pace of change however we utilise the resources available to us to deliver as many of the actions within the Plan period as we can. Data for 2024/25 indicates a 6% increase in carbon emissions when compared with 2023/24. This increase can largely be attributed to supply chain (Scope 3 emissions), the procurement of services and goods. Any changes to spend (including the impacts of inflation) therefore has a correlating impact to our carbon emissions.
- 2.3** In some areas it can be seen that progress is made and activity is being integrated as Business As Usual. Other actions are yet to be commenced, largely due to staffing resources, or funding to support a new area of work.

2.4 2024/25 Net Zero Carbon Reporting data

Following the Welsh Government's Public sector net zero reporting guide and methodology¹ the Council's 2024/25 data was submitted in August 2025.

This data collection exercise pulls data from across the Council and is co-ordinated by the Decarbonisation and Energy team, Property, Corporate Resources.

The total emissions for 2024/25 totalled 74.4 MT (megatonnes) of CO₂e. This is a 6% increase on 2023/24. The breakdown of activity is shown below in Figure 1 and follows the trends of previous years datasets.

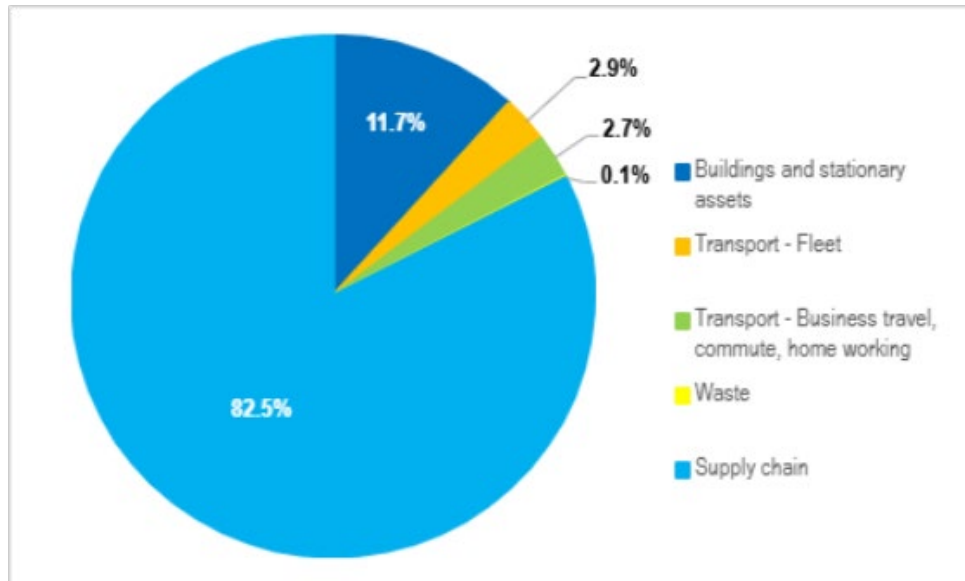


Figure 1 – Pie chart showing breakdown of 2024/25 emissions by activity

A significant proportion of emissions remain within the supply chain, further details on this are presented below.

To aid focusing on direct emissions activity, further analysis was carried out excluding supply chain data.

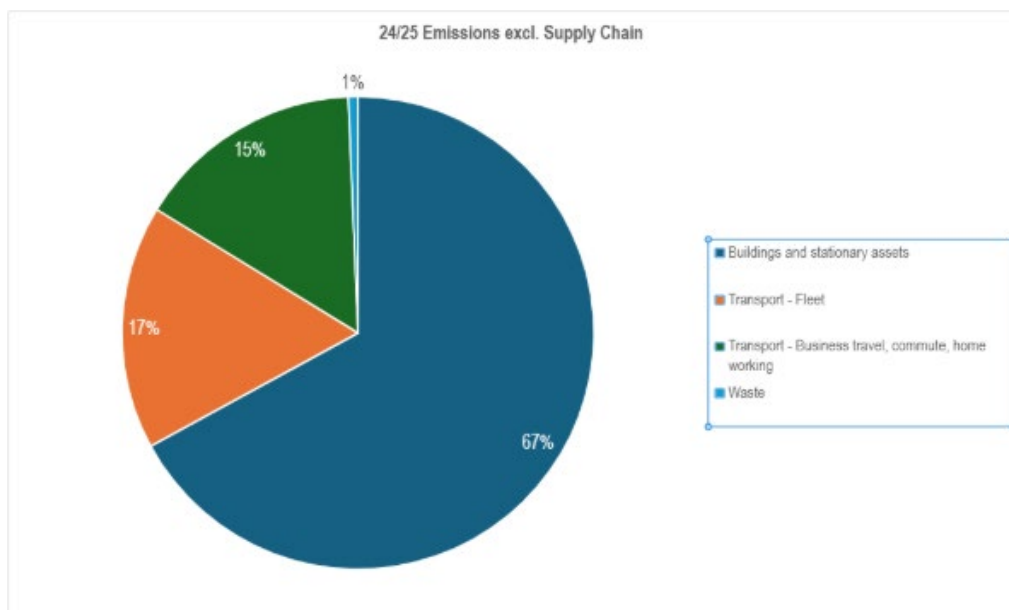


Figure 2 – Pie chart showing breakdown of 2024/25 excluding supply chain

For emissions associated with our buildings and transport (both fleet and business travel, commuting and home working) we have more direct control over this activity and carbon emissions and so further analysis of each dataset was carried out and discussed at Project Zero Board, 29th September 2025.

2.5 Buildings and Stationary Assets

The buildings and stationary assets activity accounts for 11.7% of our total carbon emissions reported for 2024/25. With supply chain excluded, this equates to 67% of the total and breakdown as follows:

- 27% grid electricity
- 33% fossil fuel heating (mains gas predominantly)
- <1% mains water and sewerage
- 7% street lighting

Over 500 electricity meters evidenced a small, 4%, increase when compared with 2023/24, this can be attributed to increased emergency housing provision (fully electric site), increased Sustainable Communities for Learning (SCfL) schools (fully electrically heated), one primary school retrofitted with an air source heat pump and now electrically heated. An increase can also anecdotally be attributed to the significant investment in digital pedagogy across all schools.

Over 140 gas meters evidenced a very slight decrease, 0.2% compared with 2023/24. Reducing our consumption of mains gas is key to decarbonising our buildings, its usage remains dependent on weather conditions, controls and the behaviour of our building users. The air source heat pump retrofitted at Ysgol Bro Morgannwg (Primary) heated the building for its first winter, and the primary school building's gas meter has been removed.

Whilst water accounts for a very small proportion of our carbon emissions, there was a 2% increase in consumption. We continue to monitor and report on water leaks for remedial works.

Streetlighting experienced a 9% increase in carbon emissions, attributable to increased road network coverage and a fault in the controls system during 2024/25.

2.6 Transport – Fleet and Mobile Equipment

Transport emissions associated with our Fleet and Mobile equipment contributes 2.9% of our total corporate emissions. When supply chain data is excluded, this activity accounts for 17%.

Of this 17% the fuel type splits (by kgCO₂) are:

- | | |
|--------------------|--------------------|
| • Diesel – 98.5% | • Petrol – 1.0% |
| ○ Pool Cars- 3.5% | ○ Pool cars- 0.6% |
| ○ Vans - 21.5% | ○ Van – 0.1% |
| ○ HGV – 70% | ○ Equipment – 0.3% |
| ○ Equipment – 3.5% | • Electric – 0.5% |
| | ○ Pool Car - 0.3% |
| | ○ Van – 0.2% |

Data to complete our return to Welsh Government is collected from our on-site diesel fuel tanks (the Alps), fuel cards, receipts for some third-party provision (for petrol) and for our EV fleet from the Clenergy portal.

By end March 2025, 11% of our vehicle fleet were electric vehicles utilising charging infrastructure at the Civic Offices and Alps Depot. This included two new electric, Romaquip kerbside recycling vehicles, coming online as part of our strategic plan, to transition to an all EV fleet, by 2030.

2.7 Transport – Business Travel, home working, staff commute

Transport emissions associated with our business travel, home working and staff commute, contributes 2.7% of our total corporate emissions. When supply chain data is excluded, this activity accounts for 15%.

The information collated to complete this section comprises of:

Business travel – staff mileage claims using own vehicles (grey fleet). In future years it is hoped that public transport data (e.g. miles travelled by train, bus, taxi) can be included, at present this dataset is not readily available to enable reporting.

Home working and staff commute – based on staff survey data. We have increasing confidence in this methodology and have seen a lowering of commuting-based emissions in 2024/25, with steady emissions from homeworking.

During 2024/25 changes to support this activity decarbonise included:

Year-round provision of salary sacrifice scheme to encourage staff cycling to work

Some EV charging provision was made available for staff to charge private vehicles at the Alps and Civic (with costs recouped)

We have delivered Teams Telephony across the organisation allowing users to access their phone from anywhere, including functionality such as hunt groups. This has also streamlined our IT estate and allowed us to decommission servers.

We have continued to stabilise our VPN connection, delivered a number of tools that reduce un-necessary trips to the office and implemented tools that monitor device health allowing our colleagues to keep a solid and safe connection to the office.

OneDrive utilisation has increased by over 22% as we approach a wider push to maximise our Microsoft investment and further facilitate effective hybrid work.

2.8 Waste

The Welsh Government 2024/25 reporting methodology removed emission factors for many waste streams in the 2024/25 reporting template. Emissions associated with our waste collection is therefore largely represented by the transport activity – fleet data and how our vehicles collect waste from our organisational sites and municipal waste streams from communities and businesses.

In 2024/25, waste accounted for 0.1% of our total carbon emissions, and just 1% when supply chain is excluded.

Because of the change in reporting calculations, it is not useful to compare carbon emissions with previous years, therefore focus is now on the waste stream trends. When comparing 2024/25 with 2023/24 waste stream data (tonnes collected) it can be noted:

- 202% Increase in reuse
- 7.17% Increase in total dry recycling
- 4.37% Increase in municipal waste
- 1.17% overall performance increase
- 12.60% decrease in total waste used to recover heat and power

The waste team are continuing to bring in-house waste streams from across the Council estate, including schools, project and construction waste (from the Alps Depot). During 2024/25 the team also implemented a successful trial for the kerbside collection of soft plastics across Penarth and surrounding areas.

With the change in 2024/25 reporting methodology the waste team remain keen that NZC reporting better aligns to the Waste Data Flow process undertaken by the WG Circular Economy team.

2.9 Supply Chain

Our supply chain emissions accounted for 82.5% of the total carbon emissions in 2024/25. Analysis has been carried out with support from Ardal and has included a review of the data by spend (£), carbon (tonnes) organised by Pro Class (classification codes used).

As with previous years, our 2024/25 supply chain data is based on pounds spent (£) at Tier 1 methodology. This groups expenditure by SIC code. The Tier 1 methodology has limitations and the Council is exploring more sophisticated Tier 2 and 3 approaches with Welsh Government through Ardal.

A Power BI platform of the 2024/25 supply chain data has been developed and can assist officers in reviewing purchases (£ spent) and by carbon (kgCO₂) by Directorate and activity code. This is being used to increase awareness and engagement of the direct correlation between spend and carbon emissions.

2.10 Other supporting data

In addition to the datasets set out above, Welsh Government are tracking the public sector's progress in deploying renewable energy and how land management may contribute to the agenda.

i) Renewable Energy

In 2024/25 our solar photovoltaic panels provided 6% of the electricity consumed by the estate. This is an increase on previous years, as our PV array portfolio continues to expand. During 2024/25 new PV arrays became available at:

- Ty Dewi Sant – 30kW (retrofit)
- Ty Dyfan – 30.75kW (as part of roof replacement works)
- St Joseph's Primary School (nursery block) - 36.49 kW (retrofit)
- Cogan Leisure Centre, Penarth – 46.64kW (as part of roof replacement works)
- Llangan Primary School – 17.8kW (retrofit)
- Flying Start Skomer Road – 8kW (installed March 2025 as part of roof replacement works)

ii) Land Use

We continue to report on our land use typology as requested by the Welsh Government methodology. This data was not included as an addition or omission to the total corporate carbon emissions. We continue to review all land disposals in the context of Carbon implications and include this aspect in our reporting to Strategic Insight Board as Asset related decisions are made.

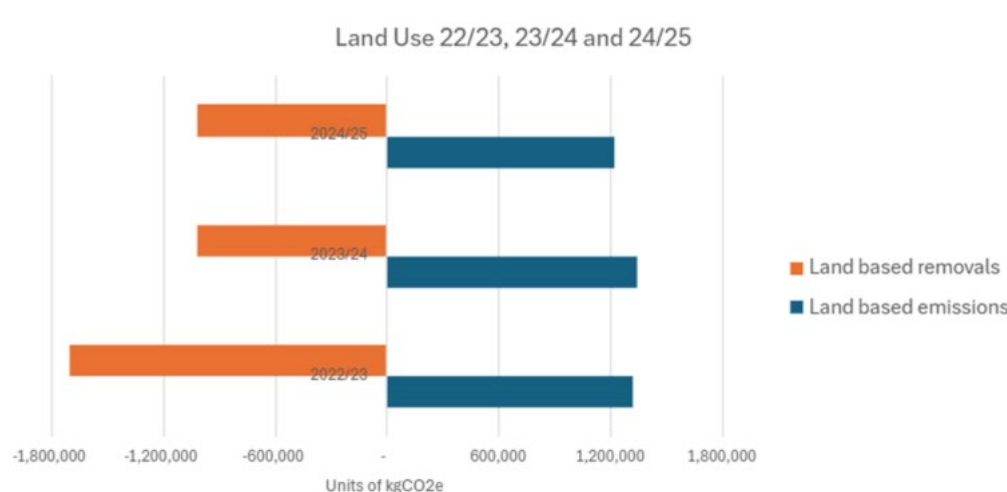


Figure 3 – Graph showing land-based removals and emissions for 2022/23, 2023/24 and 2024/25

2.11 Conclusion

Officers report greater understanding and confidence in the datasets being reported to Welsh Government for 2024/25. Datasets in the main can be compared with previous years enabling an element of tracking decarbonisation progress.

The Council's submission was made in August 2025; we understand an update from Welsh Government NZC team will be provided December 2025 and the data will then be published on Welsh public sector net zero reporting: interactive dashboard².

3. How do proposals evidence the Five Ways of Working and contribute to our Well-being Objectives?

3.1 The Carbon Management Plan aligns with the five ways of working:

- It sets out to embed **long term** and whole life thinking within all activity, **preventing** short term decision making. We are working to embed whole life and whole life carbon thinking.
- More **collaborative** approaches will ensure the plan is delivered efficiently; this plan has been written with contributions from all teams.
- **Integrated** within Project Zero challenges and established workstreams where possible; the activity for 24/25 has been aligned to the Project Zero Challenges and steps.
- Via the Project Zero Board and Project Zero learning café and other mechanisms we can ensure that all stakeholders can be **involved** and contribute to this agenda.

3.2 The Carbon Management Plan aligns to our wellbeing objectives and Vale 2030:

- **Creating great places to live, work and visit** – The plan includes activities to support our staff business travel and commute to decarbonise. Whilst the plan focuses on our corporate carbon emissions and a 2030 timeframe, many of the recommendations made will assist in reducing our community and county wide emissions ahead of 2050.

2. Respecting and celebrating the environment – The plan aligns directly to this objective; by reducing our carbon emissions we are protecting the environment for future generations.

3. Giving everyone a good start in life – The plan aligns with Sustainable Communities for Learning programmes delivery of new net zero school accommodation, ensuring they operate as designs intended. Our programme to retrofit solar panels and remove gas boilers for electric heating will also support our schools and community settings to decarbonise.

4. Supporting and protecting those who need us – as with the schools’ estate, our decarbonisation activity is also on the social services and corporate estates; from these facilities we provide our key services.

5. Being the best Council we can be – our plan provides a framework to encourage innovation in decarbonisation and sustainable practices. Providing staff with training and learning opportunities to support a low carbon economy and future for us and demonstrate community leadership. Through collaboration we share and learn, via networks such as the Vale Public Services Board, Ystadau Cymru and CLAW – Consortium of Local Authorities in Wales.

4. Climate Change and Nature Implications

- 4.1** The Carbon Management Plan directly relates to the climate change and nature emergencies. Our plan sets out how we seek to reduce our carbon emissions and improve biodiversity across the county by 2030.

5. Resources and Legal Considerations

Financial

- 5.1** At a continued time of financial constraint for the public sector frequently our decarbonisation work is dependent on securing grant (capital or revenue) to ensure delivery. However, we continue to seek internal capital opportunities annually as part of the capital bidding process.
- 5.2** In 2024/25 the following grants, were secured and projects delivered by the Decarbonisation and Energy team:
- Completion of project at Ysgol Bro Morgannwg which had utilised a Low Carbon Heat Grant from Welsh Government.
 - Ystadau Cymru – ACPW3 £125k capital grant supported LED lighting replacement at three community centres (Barry Island, Highlight Park and Lower Penarth) and
 - A Ystadau Cymru grant - £25k enabled biodiversity audits to be completed for our Community Centres and Community Libraries. Ten sites with higher biodiversity opportunities had individual audit reports developed by Ecology Consultants Soltys Brewster.

Employment

- 5.3** The Carbon Management Plan was co-ordinated and produced by the Decarbonisation and Energy team within the Property Section with input from all key service areas. However, significant staff and budget resources will be required right across the organisation if we are to meet our 2030 target as the

challenge remains huge. With limited staff and budgets available to us, we will seek out funding opportunities wherever they present themselves and pursue as many targets as we can within available resources.

- 5.4** The Decarbonisation and Energy team continue to work closely with the Project Zero Programme Manager and Project Zero Board to track progress for net zero carbon reporting and against the Carbon Management Plan 2024/30.

Legal (Including Equalities)

- 5.5** There are no direct equal opportunities or legal implications associated with this report.

6. Background Papers

- None.

Introduction and Organisation Data

This spreadsheet is the required format for Welsh public sector organisations reporting their carbon emissions for the **2024 - 2025 reporting period**. It is based on the Welsh Public Sector Net Zero Carbon Reporting Guide.

The following updates have been applied to this version of the template:

- Emission factors have been updated where appropriate
- Building level data, including building category, building type and floor area, can be submitted
- Number of vehicles can be submitted for fleet data
- Renewable tables have been split out and availability can be collected.

Please send the completed form to netzeroreporting@energyservice.wales by **1st September 2025**

Organisational information

| | | |
|----------------------------|--|-------------------------------|
| Organisational information | Organisation type | Local Authority |
| Organisational information | Organisation name | Vale of Glamorgan Council |
| Organisational information | Financial year period for reporting | Financial year 2024/25 |
| Organisational information | Date of report submission | 18/08/2025 |
| Organisational information | Person responsible for this report | Anne Sharp |
| Organisational information | Email address of person responsible for this report | asharp@valeofglamorgan.gov.uk |
| Organisational information | Total financial budget /spend/ turnover £ | £558,660,000 |
| Organisational information | Number of Full Time Equivalent employees | 4,205 |
| Organisational information | Building internal floor area equivalent to the energy data reported (sq m) | |
| Organisational information | Region of Wales | South East Wales |

| Cell colour codes | |
|-------------------|--|
| | Information cell or question |
| | Information entry. Some cells have drop down lists |
| | Activity data. Numeric data entry |
| | Calculated data |
| | Summary data |
| | Not used |

Boundary information

| | | | |
|------------------------------|--|---|---|
| Buildings in scope | Do you own buildings that you occupy? | Y | Please complete the table in the 'Site Information' tab and, as applicable, tables in the 'Buildings - Grid Electricity', 'Buildings - Heat & Fuels' and 'Buildings - Water' tabs. See section 7.2 of the guidance for further information. |
| Buildings in scope | Do you lease buildings that you occupy? | Y | Please complete the table in the 'Site Information' tab and, as applicable, tables in the 'Buildings - Grid Electricity', 'Buildings - Heat & Fuels' and 'Buildings - Water' tabs. See section 7.2 of the guidance for further information. |
| Buildings in scope | Do you lease out buildings that you own to organisations to deliver public services on your behalf? | Y | Please complete the table in the 'Site Information' tab and, as applicable, tables in the 'Buildings - Grid Electricity', 'Buildings - Heat & Fuels' and 'Buildings - Water' tabs. See section 7.2 of the guidance for further information. |
| Buildings in scope | Do you lease out buildings that you own to other public bodies? | N | |
| Buildings in scope | Do you lease out buildings that you own to private organisations for their own purposes? | Y | The majority of these emissions are out of scope. See section 7.2 of the guidance. |
| Streetlighting in scope | Do you own and operate streetlighting or signage | Y | Please complete the 'Streetlighting' table in the 'Buildings - Grid Electricity' tab. See section 7.3 of the guidance for further help. |
| Fleet and equipment in scope | Do you own or lease fleet and equipment? | Y | Please complete the 'Fleet and stationary assets' tab. See section 7.4 of the guidance for further help |
| Agriculture in scope | Do you have farms with livestock (not leased out)? | N | |
| F-gases in scope | Do you have air conditioning or refrigeration systems that require refrigerant gas top-ups, or do you use anaesthetic gases? | Y | Please complete the Other gases table in the 'Buildings - Grid Electricity' tab. See section 7.5 of the guidance for further help |
| Business travel in scope | Do staff travel for work using their own cars or other transport modes (not fleet vehicles) | Y | Please complete the Business travel table in 'Business travel, commute, home' tab. See section 8.2 of the guidance for further help |
| Commuting in scope | Do staff commute to offices or other sites? | Y | Please complete the Commuting table in 'Business travel, commute, home' tab. See section 8.3 of the guidance for further help. |
| Homeworking in scope | Do any staff work from home? | Y | Please complete the Homeworking table in the 'Business travel, commute, home' tab. See section 8.4 of the guidance for further help |
| Supply chain in scope | Do you purchase goods and services? | Y | Please complete the 'Supply chain' tab. See section 10 of the guidance for further help. |
| Land use in scope | Do you own and manage land for providing public services, with a total of more than 10 hectares? | Y | Please complete a Land-based emission table in the 'Lab use & agriculture' tab. See section 12 of the guidance for further information. |
| Waste in scope | Does your organisation produce waste from operations that is collected from your premises by a third party organisation? | Y | Please complete the Operational Waste table in the 'Waste' tab. See section 9.2 of the guidance for further information. |
| | Does your organisation produce waste from operations and also operate the collection service of this waste? | Y | Please complete the Operational Wast' table in the 'Waste' sheet. See section 9.2 of the guidance for further information. |
| | Do you run waste collection services that collect and dispose of municipal waste? | Y | Please complete the Municipal waste table in the 'Wast'e sheet. See section 9.3 of the guidance for further information. |
| | Do you contract out a waste collection service that collect and dispose of municipal waste? | Y | Please either complete the Municipal waste table in the 'Waste' sheet OR record your annual spend for this service in the supply chain sheet. See section 9.3 of the guidance for further information. |

Reporting comments

| | | |
|--------------------|---|---|
| Reporting comments | Please provide comments on scope and completeness of your report and any significant changes in methods compared to last year. This comment will be included in your individual organisation report output once data have been reviewed and compared across all organisations. If you wish for some of the comment to be excluded from that report please make that clear. | We have grouped our estate as per 2023/24 return to enable tracking. It has not been possible to report utilities at meter level. |
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Peer review (optional)

| | | |
|-------------|---|--|
| Peer review | Peer organisation that has reviewed the data and calculations | |
| | Date of last review | |
| | Name of reviewer | |
| | Brief comments of the review outcomes | |

Summary of results

This section provides a summary of the reported emissions for Vale of Glamorgan Council for Financial year 2024/25

You do not need to input any information into this sheet. Please note, 'Outside of scopes' emissions are not included in 'Total' emissions or 'High' and 'Low' estimates.

| Total emissions | Units of kgCO ₂ e | | | | | | |
|-----------------|------------------------------|-----------|------------|------------|-----------------|-----------------|-------------------|
| | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| | | | | | | | |
| Total emissions | 5,473,897 | 3,332,513 | 65,627,068 | 74,433,478 | 85,946,444 | 54,217,743 | 2,201,152 |

| Buildings & stationary assets | Units of kgCO ₂ e | | | | | | |
|-------------------------------------|------------------------------|-----------|-----------|-----------|-----------------|-----------------|-------------------|
| Categories | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| Buildings - Grid Electricity | - | 2,649,196 | 821,436 | 3,470,632 | 3,557,398 | 3,383,867 | 1,472,306 |
| Buildings - Heat & Fuels | 3,732,204 | - | 625,180 | 4,357,385 | | | |
| Buildings - Water | - | - | 56,451 | 56,451 | | | |
| Streetlighting | - | 675,815 | 209,550 | 885,365 | 907,499 | 863,231 | 375,588 |
| F gases | - | - | - | - | - | - | - |
| Medical gases | - | - | - | - | - | - | - |
| Buildings & stationary assets total | 3,732,204 | 3,325,011 | 1,712,618 | 8,769,833 | 4,464,897 | 4,247,098 | 1,847,894 |

| Transport | Units of kgCO ₂ e | | | | | | |
|---------------------|------------------------------|----------|-----------|-----------|-----------------|-----------------|-------------------|
| Categories | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| Fleet and equipment | 1,741,693 | 7,502 | 426,674 | 2,175,869 | 2,284,416 | 2,067,321 | 149,317 |
| Business travel | - | - | 141,489 | 141,489 | - | - | - |
| Commuting | - | - | 1,742,961 | 1,742,961 | 1,962,431 | 1,523,491 | - |
| Homeworking | - | - | 149,216 | 149,216 | 179,059 | 119,372 | - |
| Transport total | 1,741,693 | 7,502 | 2,460,339 | 4,209,534 | 4,425,906 | 3,710,185 | 149,317 |

| Waste | Units of kgCO ₂ e | | | | | | |
|----------------------|------------------------------|----------|----------|--------|-----------------|-----------------|-------------------|
| Categories | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| Organisational waste | - | - | 25 | 25 | 26 | 23 | - |
| Municipal waste | - | - | 7,060 | 7,060 | 7,413 | 6,707 | - |
| Project waste | - | - | 77,527 | 77,527 | 81,403 | 73,651 | - |
| Waste | - | - | 84,612 | 84,612 | 88,843 | 80,381 | - |

| Supply chain - Tier 1 and Tier 2 combined | Units of kgCO ₂ e | | | | | | |
|--|------------------------------|----------|---------------|---------------|-----------------|-----------------|-------------------|
| Categories | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| Agriculture, forestry and fishing | | | - | - | - | - | |
| Mining and quarrying | | | - | - | - | - | |
| Manufacturing | | | 6,158,923.69 | 6,158,923.69 | 7,698,654.62 | 4,619,192.77 | |
| Electricity, gas, steam and air conditioning supply | | | - | - | - | - | |
| Water supply; sewerage, waste management and remediation activities | | | - | - | - | - | |
| Construction | | | 16,163,099.40 | 16,163,099.40 | 20,203,874.25 | 12,122,324.55 | |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | | | - | - | - | - | |
| Transportation and storage | | | 8,613,018.02 | 8,613,018.02 | 10,766,272.52 | 6,459,763.51 | |
| Accommodation and food service activities | | | 2,209,105.80 | 2,209,105.80 | 2,761,382.25 | 1,656,829.35 | |
| Information and communication | | | 996,628.24 | 996,628.24 | 1,245,785.30 | 747,471.18 | |
| Financial and insurance activities | | | 925,991.38 | 925,991.38 | 1,157,489.22 | 694,493.53 | |
| Real estate activities | | | - | - | - | - | |
| Professional, scientific and technical activities | | | 3,647,376.38 | 3,647,376.38 | 4,559,220.47 | 2,735,532.28 | |
| Administrative and support service activities | | | 2,423,655.34 | 2,423,655.34 | 3,029,569.17 | 1,817,741.50 | |
| Public administration and defence; compulsory social security | | | - | - | - | - | |
| Education | | | 1,309,177.72 | 1,309,177.72 | 1,636,472.15 | 981,883.29 | |

| | | | | | | | |
|--|--|--|---------------|---------------|---------------|---------------|--|
| Human health and social work activities | | | 18,634,460.62 | 18,634,460.62 | 23,293,075.78 | 13,975,845.47 | |
| Arts, entertainment and recreation | | | 227,045.16 | 227,045.16 | 283,806.45 | 170,283.87 | |
| Other service activities | | | 61,016.77 | 61,016.77 | 76,270.97 | 45,762.58 | |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | | | - | - | - | - | |
| Supply chain - Tier 1 and Tier 2 combined | | | 61,369,499 | 61,369,499 | 76,711,873 | 46,027,124 | |

Land based and agriculture

| | Units of kgCO ₂ e | | | | | | |
|----------------------------------|------------------------------|----------|----------|-------|-----------------|-----------------|-------------------|
| Categories | Direct | Indirect | Indirect | Total | Estimated range | Estimated range | Outside of scopes |
| | Scope 1 | Scope 2 | Scope 3 | | High | Low | |
| Land based emissions | - | - | - | - | 1,526,758 | 916,055 | 1,221,407 |
| Land based removals | - | - | - | - | 1,271,833 | - | 763,100 |
| Agriculture | - | - | - | - | - | - | - |
| Total land based and agriculture | - | - | - | - | 254,925 | 152,955 | 203,940 |

Renewables

| | Units of kWh | |
|------------------------------------|-----------------|----------------|
| Categories | Total generated | Total exported |
| | Scope 1 | Scope 2 |
| Onsite renewables - electricity | 1,052,117 | 154,785 |
| Offsite renewables - electricity | - | - |
| Onsite renewables - heat | - | - |
| Offsite renewables - heat | - | - |
| Onsite renewables - CHP | - | - |
| Offsite renewables - CHP | - | - |
| Purchased renewables - heat | - | |
| Purchased renewables - electricity | - | |
| Renewables | - | - |

Building Information

Guidance for users

This sheet contains one table - Site Information (buildings and standalone renewable energy assets).

Please see **Section 7** of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

Instructions for users

- Input information into the orange and blue cells.
- For a building, please fill in all five columns.
- For a standalone renewable energy asset, please fill in the **first two columns only** (site name and site type).
- Activity data entered in the 'Floor area (m2)' column should only be in m2. If your data is not in m2, you must convert it before entering it into this sheet.
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.

Site Information (buildings and standalone renewable energy assets)

[illegible]

Buildings - Grid Electricity

Guidance for users

This sheet contains two tables - Buildings - Grid Electricity and Streetlighting.

Please see Section 7 of the Welsh Net Zero Public Sector Reporting Guide for further guidance

Instructions for users

- Use the [+] symbols to the left of column A to show/hide the data tables for entry.
- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet.
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.

Cell colour codes: Information cell or question Activity data. Numeric data entry

| Information entry. Some cells have | Calculated data |
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| 87 | 88 |
| 89 | 90 |
| 91 | 92 |
| 93 | 94 |
| 95 | 96 |
| 97 | 98 |
| 99 | 100 |

Buildings - Grid Electricity

No errors in this table

Emission data breakdown (kg CO₂e)

| Site name | Unique Reference Number (e.g. MPAN) | Fuel/emission source | Category 1 | Methodology | RSD | Data | Units | Converted data | Standard units | Total EF (kgCO ₂ e/unit) | Total emissions (kgCO ₂ e) | Notes | Ease of collection | Direct | Indirect generation | Indirect service | Indirect T&D | Indirect WTT | High | Low | Outside of scopes | |
|---|-------------------------------------|----------------------|------------------|----------------|--------|-----------|---------|----------------|----------------|-------------------------------------|---------------------------------------|--|--------------------|-----------------|---------------------|------------------|--------------|--------------|--------------|------------|-------------------|-----------|
| Car Charging | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 2,424 | kWh | 2,424 | kWh | 0.3863 | 657.51 | EVCI not part of Cleenergy corporate account | Data complete b | - | 501.89 | - | 44.36 | 111.26 | 673.95 | 641.07 | 278.93 | |
| Changing Rooms | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 259,950 | kWh | 259,950 | kWh | 0.3863 | 70,511.44 | Data complete a | - | 53,823.65 | - | 4,757.09 | 11,931.71 | 72,274.22 | 68,748.65 | 29,912.25 | | |
| Community Buildings | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 213,924 | kWh | 213,924 | kWh | 0.3863 | 58,026.89 | Data complete a | - | 44,292.96 | - | 3,914.81 | 9,819.11 | 59,477.56 | 56,576.21 | 24,616.07 | | |
| Construction Supplies | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 57,759 | kWh | 57,759 | kWh | 0.3863 | 15,667.13 | Data complete a | - | 11,959.00 | - | 1,056.99 | 2,651.14 | 16,058.81 | 15,275.45 | 6,646.28 | | |
| Day Centres | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 81,282 | kWh | 81,282 | kWh | 0.3863 | 22,047.74 | Data complete a | - | 16,829.44 | - | 1,487.46 | 3,730.84 | 22,598.94 | 21,496.55 | 9,353.06 | | |
| Emergency Housing | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 404,141 | kWh | 404,141 | kWh | 0.3863 | 109,623.25 | Data complete a | - | 83,677.39 | - | 7,395.78 | 18,550.07 | 112,363.83 | 106,882.67 | 46,504.20 | | |
| EPH/Shelterd/Hostels | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 491,314 | kWh | 491,314 | kWh | 0.3863 | 133,268.92 | Data complete a | - | 101,726.56 | - | 8,991.05 | 22,551.31 | 136,600.65 | 129,937.20 | 56,535.13 | | |
| Atlantic Trading Estate | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 430,607 | kWh | 430,607 | kWh | 0.3863 | 116,802.15 | Data complete a | - | 89,157.18 | - | 7,880.11 | 19,764.86 | 119,722.20 | 113,882.10 | 49,549.62 | | |
| Landlords Lighting | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 213,084 | kWh | 213,084 | kWh | 0.3863 | 57,799.04 | Data complete a | - | 44,119.04 | - | 3,899.44 | 9,780.56 | 59,244.01 | 56,354.06 | 24,519.41 | | |
| Library / Art Gallery | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 283,749 | kWh | 283,749 | kWh | 0.3863 | 76,966.92 | Data complete a | - | 58,750.23 | - | 5,192.61 | 13,024.08 | 78,891.09 | 75,042.74 | 32,650.78 | | |
| Leisure Centres | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 757,799 | kWh | 757,799 | kWh | 0.3863 | 205,552.98 | Data complete a | - | 156,902.28 | - | 13,867.72 | 34,782.97 | 210,691.80 | 200,414.15 | 87,199.11 | | |
| Lifeguard Stations | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 21,979 | kWh | 21,979 | kWh | 0.3863 | 5,961.80 | Data complete a | - | 4,550.75 | - | 402.22 | 1,008.84 | 6,110.85 | 5,812.76 | 2,529.11 | | |
| Metered Lighting (Public realm) | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 63,165 | kWh | 63,165 | kWh | 0.3863 | 17,133.51 | Data complete a | - | 13,078.31 | - | 1,155.92 | 2,899.27 | 17,561.84 | 16,705.17 | 7,268.35 | | |
| Miscellaneous | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 231,876 | kWh | 231,876 | kWh | 0.3863 | 62,896.37 | Data complete a | - | 48,009.93 | - | 4,243.33 | 10,643.11 | 64,468.77 | 61,323.96 | 26,681.80 | | |
| Nursery School | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 117,786 | kWh | 117,786 | kWh | 0.3863 | 31,949.45 | Data complete a | - | 24,387.59 | - | 2,155.48 | 5,406.38 | 32,748.19 | 31,150.72 | 13,553.55 | | |
| Offices | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 1,516,788 | kWh | 1,516,788 | kWh | 0.3863 | 411,428.75 | Data complete a | - | 314,050.96 | - | 27,757.22 | 69,620.57 | 421,714.46 | 401,143.03 | 174,535.64 | | |
| Primary Schools | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 3,181,083 | kWh | 3,181,083 | kWh | 0.3863 | 862,868.76 | Data complete a | - | 658,643.24 | - | 58,213.82 | 146,011.71 | 884,440.48 | 841,297.04 | 366,044.81 | | |
| Public Conveniences | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 75,052 | kWh | 75,052 | kWh | 0.3863 | 20,357.86 | Data complete a | - | 15,539.52 | - | 1,373.45 | 3,444.89 | 20,866.80 | 19,848.91 | 8,636.18 | | |
| School Canteens | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 162,336 | kWh | 162,336 | kWh | 0.3863 | 44,033.64 | Data complete a | - | 33,611.67 | - | 2,970.75 | 7,451.22 | 45,134.48 | 42,932.80 | 18,679.88 | | |
| Secondary Schools | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 3,914,519 | kWh | 3,914,519 | kWh | 0.3863 | 1,061,813.28 | Data complete a | - | 810,501.16 | - | 71,635.70 | 179,676.42 | 1,088,358.61 | 1,035,267.95 | 450,440.73 | | |
| Un Metered Supplies (CCTV,Security,Redline care,Fire) | | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 16,808 | kWh | 16,808 | kWh | 0.3863 | 4,559.17 | | Data complete a | - | 3,480.10 | - | 307.59 | 771.49 | 4,673.15 | 4,445.19 | 1,934.08 |
| Zero Carbon Schools | | | Grid electricity | Consumption ba | Tier 3 | 2.5% | 297,533 | kWh | 297,533 | kWh | 0.3863 | 80,705.83 | | Data complete a | - | 61,604.21 | - | 5,444.85 | 13,656.76 | 82,723.47 | 78,688.18 | 34,236.90 |
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Cell colour codes: Information cell or question Activity data. Numeric data entered

Information entry. Some cells hav Calculated data

Buildings - Heat & Fuels

Guidance for users

This sheet contains two tables - Buildings - Heat & Fuels and Other Gases.

Please see Section 7 of the Welsh Net Zero Public Sector Reporting Guide for further guidance

Instructions for users

- Use the [x] symbols to the left of column A to show/hide the data tables for entry.
- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet.
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.

Buildings - Heat & Fuels

No errors in this table

Emission data breakdown (kg CO₂e)

| Site name | Unique Reference (e.g. MPRN) | Ownership structure | Fuel/emission source | Category 1 | Methodology | RSD | Data | Units | Converted data | Standard units | Total EF (kgCO ₂ e/unit) | Total emissions (kgCO ₂ e) | Notes | Ease of collection | Direct | Indirect generation | Indirect service | Indirect T&D | Indirect WTT | High | Low | Outside of scopes | |
|-----------------------|------------------------------|----------------------------|----------------------|-----------------|-------------|------|-----------|--------|----------------|----------------|-------------------------------------|---------------------------------------|-------|--------------------|--------------|---------------------|------------------|--------------|--------------|------------|--------------|-------------------|-------|
| Changing Rooms | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 53,480 | kWh | 53,480 | kWh | 0.2131 | 11,397.12 | | Data complete a | 9,781.49 | - | - | - | - | 1,615.63 | 11,682.05 | 11,112.19 | - |
| Community Buildings | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 328,887 | kWh | 328,887 | kWh | 0.2131 | 70,089.11 | | Data complete a | 60,153.43 | - | - | - | - | 9,935.68 | 71,841.34 | 68,336.88 | - |
| Day Centres | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 287,304 | kWh | 287,304 | kWh | 0.2131 | 61,227.36 | | Data complete a | 52,547.90 | - | - | - | - | 8,679.45 | 62,758.04 | 59,696.67 | - |
| Emergency Housing | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 224,291 | kWh | 224,291 | kWh | 0.2131 | 47,798.66 | | Data complete a | 41,022.82 | - | - | - | - | 6,775.83 | 48,993.62 | 46,603.69 | - |
| EPH/Shelterd/Hostels | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 2,949,983 | kWh | 2,949,983 | kWh | 0.2131 | 628,670.88 | | Data complete a | 539,551.89 | - | - | - | - | 89,118.99 | 644,387.65 | 612,954.11 | - |
| Leisure Centres | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 4,040,952 | kWh | 4,040,952 | kWh | 0.2131 | 861,167.28 | | Data complete a | 739,090.12 | - | - | - | - | 122,077.16 | 882,696.46 | 839,638.10 | - |
| Library / Art Gallery | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 345,248 | kWh | 345,248 | kWh | 0.2131 | 73,575.80 | | Data complete a | 63,145.86 | - | - | - | - | 10,429.94 | 75,415.20 | 71,736.41 | - |
| Miscellaneous | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 14,228 | kWh | 14,228 | kWh | 0.2131 | 3,032.13 | | Data complete a | 2,602.30 | - | - | - | - | 429.83 | 3,107.93 | 2,956.33 | - |
| Nursery School | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 123,172 | kWh | 123,172 | kWh | 0.2131 | 26,249.18 | | Data complete a | 22,528.16 | - | - | - | - | 3,721.03 | 26,905.41 | 25,592.96 | - |
| Offices | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 1,192,601 | kWh | 1,192,601 | kWh | 0.2131 | 254,155.20 | | Data complete a | 218,126.72 | - | - | - | - | 36,028.48 | 260,509.08 | 247,801.32 | - |
| Primary Schools | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 4,167,790 | kWh | 4,167,790 | kWh | 0.2131 | 888,197.73 | | Data complete a | 762,288.79 | - | - | - | - | 125,908.94 | 910,402.67 | 865,992.78 | - |
| School Canteens | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 47,116 | kWh | 47,116 | kWh | 0.2131 | 10,040.89 | | Data complete a | 8,617.52 | - | - | - | - | 1,423.37 | 10,291.91 | 9,789.87 | - |
| Secondary Schools | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 6,218,816 | kWh | 6,218,816 | kWh | 0.2131 | 1,325,291.88 | | Data complete a | 1,137,421.45 | - | - | - | - | 187,870.43 | 1,358,424.17 | 1,292,159.58 | - |
| Primary Schools | | Buildings - all our estate | LPG | All LPG | Tier 3 | 5.0% | 87,898 | kWh | 87,898 | kWh | 0.2400 | 21,093.76 | | Data complete a | 18,854.12 | - | - | - | - | 2,239.64 | 22,148.45 | 20,039.07 | - |
| Offices | Dock Office | Buildings - all our estate | Bioenergy | Wood pellets | Tier 3 | 5.0% | 170,262 | kWh | 170,262 | kWh | 0.3988 | 8,301.98 | | Data complete a | 1,927.37 | - | - | - | - | 6,374.61 | 8,717.07 | 7,886.88 | ##### |
| Miscellaneous | | Buildings - all our estate | LPG | All LPG | Tier 3 | 5.0% | 182,388 | kWh | 182,388 | kWh | 0.2400 | 43,769.47 | | Data complete a | 39,122.23 | - | - | - | - | 4,647.25 | 45,957.95 | 41,581.00 | - |
| Primary Schools | Pendoylan Primary | Buildings - all our estate | Bioenergy | Wood pellets | Tier 3 | 5.0% | 29 | tonnes | 150,597 | kWh | 0.3988 | 7,343.11 | | Data complete a | 1,704.76 | - | - | - | - | 5,638.35 | 7,710.27 | 6,975.95 | ##### |
| | | | | | | | | | | | | | | Data complete a | | | | | | | | | |
| Changing Rooms | | Buildings - all our estate | Natural gas | All natural gas | Tier 3 | 2.5% | 75,000 | kWh | 75,000 | kWh | 0.2131 | 15,983.25 | | Data complete a | 13,717.50 | - | - | - | - | 2,265.75 | 16,382.83 | 15,583.67 | - |
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Buildings - Water

Guidance for users

This sheet contains one table - Buildings - Water.

Please see Section 7 of the Welsh Net Zero Public Sector Reporting Guide for further guidance

Instructions for users

- Use the [±] symbols to the left of column A to show/hide the data tables for entry.
- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet.
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- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.

Buildings - Water

| Site name | Unique Reference Number | Ownership structure | Fuel/emission source | Category 1 | Methodology | RSD | Data | Units | Converted data | Standard units | Total EF (kgCO ₂ e/unit) | Total emissions (kgCO ₂ e) | Notes | Ease of collection | Direct | Indirect generation | Indirect service | Indirect T&D | Indirect WTT | High | Low | Outside of scopes |
|-------------------------|-------------------------|----------------------------|----------------------|-----------------|-------------|------|--------|-------|----------------|----------------|-------------------------------------|---------------------------------------|---|--------------------|--------|---------------------|------------------|--------------|--------------|----------|----------|-------------------|
| Atlantic Trading Estate | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 213 | m3 | 213 | m3 | 0.1531 | 32.61 | | Data complete b | - | - | 32.61 | - | - | 34.24 | 30.98 | - |
| Atlantic Trading Estate | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 202 | m3 | 202 | m3 | 0.1857 | 37.52 | | Data complete b | - | - | 37.52 | - | - | 39.40 | 35.64 | - |
| Changing Rooms | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 1,367 | m3 | 1,367 | m3 | 0.1531 | 209.30 | | Data complete b | - | - | 209.30 | - | - | 219.77 | 198.84 | - |
| Changing Rooms | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 1,261 | m3 | 1,261 | m3 | 0.1857 | 234.22 | | Data complete b | - | - | 234.22 | - | - | 245.93 | 222.51 | - |
| Community Buildings | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 5,393 | m3 | 5,393 | m3 | 0.1531 | 825.72 | | Data complete b | - | - | 825.72 | - | - | 867.01 | 784.44 | - |
| Community Buildings | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 3,522 | m3 | 3,522 | m3 | 0.1857 | 654.18 | | Data complete b | - | - | 654.18 | - | - | 686.89 | 621.47 | - |
| Day Centres | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 1,293 | m3 | 1,293 | m3 | 0.1531 | 197.97 | | Data complete b | - | - | 197.97 | - | - | 207.87 | 188.07 | - |
| Day Centres | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 1,037 | m3 | 1,037 | m3 | 0.1857 | 192.61 | | Data complete b | - | - | 192.61 | - | - | 202.24 | 182.98 | - |
| Emergency Housing | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 10,935 | m3 | 10,935 | m3 | 0.1531 | 1,674.26 | | Data complete b | - | - | 1,674.26 | - | - | 1,757.97 | 1,590.54 | - |
| Emergency Housing | | | | | | | 837 | | | | | | Sewerage lower than consumption due to leak | | - | - | 155.46 | - | - | 163.24 | 147.69 | - |
| | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | | m3 | 837 | m3 | 0.1857 | 155.46 | | Data complete b | - | - | | - | - | | | |
| EPH/Shelterd/Hostels | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 6,586 | m3 | 6,586 | m3 | 0.1531 | 1,008.38 | | Data complete b | - | - | 1,008.38 | - | - | 1,058.80 | 957.96 | - |
| EPH/Shelterd/Hostels | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 6,257 | m3 | 6,257 | m3 | 0.1857 | 1,162.18 | | Data complete b | - | - | 1,162.18 | - | - | 1,220.28 | 1,104.07 | - |
| Fire Mains | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 39 | m3 | 39 | m3 | 0.1531 | 5.97 | | Data complete b | - | - | 5.97 | - | - | 6.27 | 5.67 | - |
| Fire Mains | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 16 | m3 | 16 | m3 | 0.1857 | 2.97 | | Data complete b | - | - | 2.97 | - | - | 3.12 | 2.82 | - |
| Library / Art Gallery | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 1,705 | m3 | 1,705 | m3 | 0.1531 | 261.05 | | Data complete b | - | - | 261.05 | - | - | 274.11 | 248.00 | - |
| Library / Art Gallery | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 1,620 | m3 | 1,620 | m3 | 0.1857 | 300.90 | | Data complete b | - | - | 300.90 | - | - | 315.94 | 285.85 | - |
| Lifeguard Stations | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 314 | m3 | 314 | m3 | 0.1531 | 48.08 | | Data complete b | - | - | 48.08 | - | - | 50.48 | 45.67 | - |
| Lifeguard Stations | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 298 | m3 | 298 | m3 | 0.1857 | 55.35 | | Data complete b | - | - | 55.35 | - | - | 58.12 | 52.58 | - |
| Miscellaneous | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 7,331 | m3 | 7,331 | m3 | 0.1531 | 1,122.45 | | Data complete b | - | - | 1,122.45 | - | - | 1,178.57 | 1,066.33 | - |
| Miscellaneous | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 6,153 | m3 | 6,153 | m3 | 0.1857 | 1,142.86 | | Data complete b | - | - | 1,142.86 | - | - | 1,200.00 | 1,085.72 | - |
| Nursery School | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 2,459 | m3 | 2,459 | m3 | 0.1531 | 376.50 | | Data complete b | - | - | 376.50 | - | - | 395.32 | 357.67 | - |
| Nursery School | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 2,336 | m3 | 2,336 | m3 | 0.1857 | 433.89 | | Data complete b | - | - | 433.89 | - | - | 455.58 | 412.19 | - |
| Offices | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 16,954 | m3 | 16,954 | m3 | 0.1531 | 2,595.83 | | Data complete b | - | - | 2,595.83 | - | - | 2,725.62 | 2,466.04 | - |
| Offices | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 15,751 | m3 | 15,751 | m3 | 0.1857 | 2,925.59 | | Data complete b | - | - | 2,925.59 | - | - | 3,071.87 | 2,779.31 | - |
| Parks and Gardens | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 4,748 | m3 | 4,748 | m3 | 0.1531 | 726.97 | | Data complete b | - | - | 726.97 | - | - | 763.31 | 690.62 | - |
| Parks and Gardens | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 2,192 | m3 | 2,192 | m3 | 0.1857 | 407.14 | | Data complete b | - | - | 407.14 | - | - | 427.50 | 386.78 | - |
| Primary Schools | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 53,589 | m3 | 53,589 | m3 | 0.1531 | 8,205.01 | | Data complete b | - | - | 8,205.01 | - | - | 8,615.26 | 7,794.76 | - |
| Primary Schools | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 40,779 | m3 | 40,779 | m3 | 0.1857 | 7,574.29 | | Data complete b | - | - | 7,574.29 | - | - | 7,953.01 | 7,195.58 | - |
| Public Conveniences | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 9,755 | m3 | 9,755 | m3 | 0.1531 | 1,493.59 | | Data complete b | - | - | 1,493.59 | - | - | 1,568.27 | 1,418.91 | - |
| Public Conveniences | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 8,669 | m3 | 8,669 | m3 | 0.1857 | 1,610.18 | | Data complete b | - | - | 1,610.18 | - | - | 1,690.69 | 1,529.67 | - |
| School Canteens | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 610 | m3 | 610 | m3 | 0.1531 | 93.40 | | Data complete b | - | - | 93.40 | - | - | 98.07 | 88.73 | - |
| School Canteens | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 579 | m3 | 579 | m3 | 0.1857 | 107.54 | | Data complete b | - | - | 107.54 | - | - | 112.92 | 102.17 | - |
| Secondary Schools | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 40,360 | m3 | 40,360 | m3 | 0.1531 | 6,179.52 | | Data complete b | - | - | 6,179.52 | - | - | 6,488.50 | 5,870.54 | - |
| Secondary Schools | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 30,410 | m3 | 30,410 | m3 | 0.1857 | 5,648.35 | | Data complete b | - | - | 5,648.35 | - | - | 5,930.77 | 5,365.94 | - |
| Zero Carbon Schools | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 1,408 | m3 | 1,408 | m3 | 0.1531 | 215.58 | | Data complete b | - | - | 215.58 | - | - | 226.36 | 204.80 | - |
| Zero Carbon Schools | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 1,068 | m3 | 1,068 | m3 | 0.1857 | 198.37 | | Data complete b | - | - | 198.37 | - | - | 208.29 | 188.45 | - |
| Allotments | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 7,542 | m3 | 7,542 | m3 | 0.1531 | 1,154.76 | | Data complete b | - | - | 1,154.76 | - | - | 1,212.49 | 1,097.02 | - |
| Allotments | | Buildings - all our estate | Water | Mains treatment | Tier 3 | 5.0% | 0 | m3 | 0 | m3 | 0.1857 | 0.02 | | Data complete b | - | - | 0.02 | - | - | 0.02 | 0.02 | - |
| Leisure Centres | | Buildings - all our estate | Water | Mains supply | Tier 3 | 5.0% | 21,605 | m3 | 21,605 | m3 | 0.1531 | 3,307.94 | | Data complete b | - | - | 3,307.94 | - | - | 3,473.34 | 3,142.54 | - |
| Leisure Centres | | Buildings - all our estate | Water | Mains treatmen | Tier 3 | 5.0% | 20,850 | m3 | 20,850 | m3 | 0.1857 | 3,872.68 | | Data complete b | - | - | 3,872.68 | - | - | 4,066.31 | 3,679.05 | - |
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Medical gases (NHS only)

Guidance for users

This sheet contains one table - medical gases.

Please see Section 7 of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

Instructions for users

- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet.
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.

| | | |
|--------------------|--|-----------------------------------|
| Cell colour codes: | Information cell or question | Activity data. Numeric data entry |
| | Information entry. Some cells have drop down lists | Calculated data |

Medical gases

[illegible]

Fleet & Equipment

Guidance for users

This sheet contains two tables - fleet and equipment (fuel) and fleet (distance).

Please see Section 7 of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

Instructions for users

- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet (see conversion sheet).
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.
- Update: You can now enter how many fleet vehicles make up your organisation's fuel usage and fleet distance. Gathering data on fleet vehicle numbers will help the wider WGES with fleet decarbonisation projects.

Fleet and equipment - fuel

| Fleet and equipment - fuel | | | | | | | No errors in this table | Emission data breakdown (kg CO ₂ e) | | | | | | | | | | | | | | | |
|----------------------------|------------------|-----------------------|--------------------|-------------|-----|----------|-------------------------|--|----------------|----------------|-------------------------------------|---------------------------------------|---|--------------------|-----------|---------------------|------------------|--------------|--------------|------------|------------|-------------------|----------|
| Type | Fuel | Category 1 | Number of vehicles | Methodology | RSD | Not used | Data | Units | Converted data | Standard units | Total EF (kgCO ₂ e/unit) | Total emissions (kgCO ₂ e) | Notes | Ease of collection | Direct | Indirect generation | Indirect service | Indirect T&D | Indirect WTT | High | Low | Outside of scopes | |
| Pool car | Diesel | Average biofuel blend | 41 | Tier 3 | 5% | | 23,804 | litres | 250,081 | kWh | 0.3172 | 74,318.96 | Data complete | 59,774.27 | - | - | - | - | 14,544.69 | 78,034.91 | 70,603.01 | 5,001.61 | |
| Van | Diesel | Average biofuel blend | 117 | Tier 3 | 5% | | 147,929 | litres | 1,554,142 | kWh | 0.3172 | 461,860.04 | Data complete | 371,471.11 | - | - | - | - | 90,388.92 | 484,953.04 | 438,767.03 | | |
| HGV | Diesel | Average biofuel blend | 85 | Tier 3 | 5% | | 487,366 | litres | 5,120,264 | kWh | 0.3172 | 1,521,640.07 | Data complete | 1,223,845.51 | - | - | - | - | 297,794.56 | ##### | ##### | ##### | |
| Equipment | Diesel | Average biofuel blend | | Tier 3 | 5% | | 6,632 | litres | 69,678 | kWh | 0.3172 | 20,706.91 | unable to confirm number . | Data complete | 16,654.44 | - | - | - | - | 4,052.47 | 21,742.25 | 19,671.56 | 1,393.56 |
| | | | | | | | 1,402 | | | | | | litres | | | | | | | | | | |
| Generator | Diesel | Average biofuel blend | | Tier 3 | 5% | | 737 | litres | | | | | Plant use - unable to confirm number of vehicles. | | 1,850.76 | - | - | - | - | 450.34 | 2,416.16 | 2,186.05 | 154.86 |
| Equipment | Diesel | Average biofuel blend | | Tier 3 | 5% | | 18,186 | kWh | 7,743 | kWh | 0.3172 | 2,301.10 | Data complete | - | - | 3,765.32 | - | 332.80 | 834.72 | 5,056.16 | 4,809.51 | 2,092.60 | |
| Pool car | Grid electricity | Consumption based | 12 | Tier 3 | 3% | | 18,045 | kWh | 18,045 | kWh | | 0.3863 | 4,932.83 | Data complete | - | 3,736.27 | - | 330.23 | 828.28 | 5,017.15 | 4,772.41 | 2,076.46 | |
| Van | Grid electricity | Consumption based | 20 | Tier 3 | 3% | | 2,595 | kWh | 18,045 | kWh | 0.3863 | 4,894.78 | Van & Romaquip | Data complete | - | | - | | | | | | |
| Pool car | Petrol | Average biofuel blend | 9 | Tier 3 | 5% | | 2,595 | litres | 24,554 | kWh | 0.2915 | 6,912.66 | SRS fleet | Data complete | 5,405.05 | - | - | - | 1,507.61 | 7,258.29 | 6,567.02 | 245.54 | |
| Van | Petrol | Average biofuel blend | 2 | Tier 3 | 5% | | 597 | litres | 5,644 | kWh | 0.2915 | 1,588.98 | SRS fleet | Data complete | 1,242.43 | - | - | - | 346.55 | 1,668.43 | 1,509.53 | 56.44 | |
| Pool car | Diesel | Average biofuel blend | 4 | Tier 3 | 5% | | 2,570 | litres | 27,000 | kWh | 0.3172 | 8,023.98 | SRS fleet | Data complete | 6,425.18 | - | - | - | 1,570.34 | 8,425.18 | 7,622.79 | 540.01 | |
| Van | Diesel | Average biofuel blend | 1 | Tier 3 | 5% | | 87 | litres | 916 | kWh | 0.3172 | 272.16 | SRS fleet | Data complete | 218.90 | - | - | - | - | 53.26 | 285.77 | 258.55 | 18.32 |
| Equipment | Diesel | Average biofuel blend | | Tier 3 | 5% | | 517 | litres | 5,429 | kWh | 0.3172 | 1,613.48 | CS fleet - unable to confirm number of equipment | Data complete | 1,297.71 | - | - | - | - | 315.77 | 1,694.15 | 1,532.80 | 108.59 |
| | | | | | | | 1,621 | | | | | | litres | | | | | | | | | | |
| Van | Diesel | Average biofuel blend | 4 | Tier 3 | 5% | | 782 | litres | | | | | CS fleet - unable to confirm number of equipment | | 1,628.91 | - | - | - | - | 454.35 | 2,187.42 | 1,979.09 | 74.00 |
| Equipment | Petrol | Average biofuel blend | | Tier 3 | 5% | | 14,800 | litres | 7,400 | kWh | 0.2915 | 2,083.25 | ARC vehicles (plant) | Data complete | 37,164.93 | - | - | - | - | 9,043.23 | 48,518.57 | 43,897.75 | 3,109.78 |
| Equipment | Diesel | Average biofuel blend | | Tier 3 | 5% | | 1,282 | litres | 12,129 | kWh | 0.2915 | 3,414.72 | P&G equipment - unable to confirm number of equipment | Data complete | 2,669.99 | - | - | - | - | 744.73 | 3,585.46 | 3,243.98 | 121.29 |
| | | | | | | | 2,125 | | | | | | litres | | | | | | | | | | |
| Pool car | Petrol | Average biofuel blend | 1 | Tier 3 | 5% | | | | | | | | | | | | | | | | | | |
| HGV | | | | | | | | | | | | | | | | | | | | | | | |

Fleet - distance

[illegible]

Business travel, commuting and homeworking

Guidance for users

This sheet contains three tables - business travel, commuting and homeworking

Please see Section 8 of the Welsh Net Zero Public Sector Reporting Guide for further guidance

Instructions for users

- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data entered in the 'data' column should only be in units specified in the 'units' column drop down list. If your data is in units that are not included in this drop down list, you will need to convert it before entering it into this sheet (see conversion sheet).
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used for each row.
- Please note that the 'Outside of scopes' emissions are not included in the 'Total emissions'.

Note for fossil fuel vehicles:

- Small Car = up to 1.4 litre for Petrol and up to 1.7 litre for Diesel

- Medium Car = 1.4-2.0 litre for Petrol and 1.7-2.0 litre for Diesel (if

Largo Car – about 2.0 litres for both Petrol and Diesel

- Large Car = above 2.0 lit
- Average = size unknown

Business travel

No errors in this table

Emission data breakdown (kg CO2e)

[illegible]

Commuting

No errors in this table

Emission data breakdown (kg CO2e)

[illegible]

Homeworking

No error

No errors in this table

Emission data breakdown (kg CO2e)

[illegible]

Activity data. Numeric data entry

Renewables

Guidance for users

This sheet allows users to provide information about any renewable energy that an organisation generates or purchases. It has two tables, one for renewables generated onsite/offsite by your organisation, and one for any renewable electricity or heat that your organisation purchases.

If your organisation purchases renewable electricity (e.g. through a green tariff) which is reported in this sheet, the activity data should also be included in the 'Buildings' table in the 'Buildings, fleet & other assets' sheet. This is because the Welsh Public Sector has agreed to use a locational based approach to accounting; all the renewable electricity in the grid is already accounted for in the average grid factor. If individual organisations account for this green electricity as zero carbon and the grid average also includes it as a zero carbon component, the benefit is being double counted.

Please see Section 12 of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

Instructions for users

- Input information into the orange and blue cells. Grey cells should not be edited.
- Activity data should only be in kWh unit. If your data is in other units, you will need to convert it before entering it into this sheet (see conversion sheet).
- When completing a row, fill in the columns from left to right. The drop down lists in later columns will change to provide valid combinations based on your previous selections.
- You can copy and paste between rows but please avoid copying data from one column to another, as this is likely to break the drop down lists.
- Fill in the notes column with a description of the method and data source used.
- Note that we now ask for Total capacity to be submitted in kW. Previously we asked for submission in MW.

Onsite and offsite electricity

[illegible]

Onsite heat

[illegible]

Offsite heat

[illegible]

| | | | |
|--|--------------------|---|-----------------------------------|
| Indirect emissions from the supply chain | Cell colour codes: | Information cell or question | Activity data. Numeric data entry |
| | | Information entry. Some cells are highlighted | Calculated data |

Guidance for users

This sheet contains two tables: Tier 1 supply chain spend based estimates and Tier 2 supply chain more accurate estimates based on reported carbon.

Please see Section 11 of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

The Tier 1 table is based on the Defra source 'Conversion factors KgCO2 per £ spent, by SIC code 2021', rounded to 3 d.p.

www.gov.uk/government/statistics/uks-carbon-footprint

This table only covers indirect emissions from the supply chain and is an estimate of the indirect GHG emissions resulting from expenditure on procuring goods and services. The emission factors were calculated by the University of Leeds as an update to the dataset used previously which were factors for 2011.

This table also includes a number of activities that are likely to be covered in your operational emissions, such as fuel use and transmission and distribution, travel and water. If you have captured that activity in the Operational emissions tab, you should remove the related expenditure from this table as otherwise you will be double counting your emissions. However, the information in this table may still be useful for a rough initial calculation of the relative importance of these activities in the first instance.

- Instructions for users:
- Input information into the orange and blue cells. Grey cells should not be edited. Fill in the notes column describing the data source used and any data exclusions.
 - Identify the amount spent on different product and service groups (in actual prices in £s, including VAT).
 - Categories that are likely to be accounted for elsewhere in this data collection form have been highlighted with an orange box.
 - In Tier 1, the amount of spend is automatically multiplied by the conversion factor to get total emissions in kilograms of carbon dioxide equivalent (kg CO₂e).
 - If you wish to use a higher tier (Tier 2) method for part of your supply chain emissions, you can record these in the second table below. Please include notes about your method and the amount of spend that these emissions account for. Please **DO NOT** subtract this spend from the data reported in the Tier 1 table (i.e any emissions reported in the Tier 2 table should also be included in the total spend for that category in the Tier 1 table). Any emissions calculated by Tier 2 methods are included in column J of the Tier 1 table to provide an overall total without double counting.

Supply chain - tier 1 methodology

| | | | | | | | | No errors in this table | | | | | | | | | | |
|-----------------------------------|---------------------|---|-------------|-----|--------------------------------------|-------|---|----------------------------|-------------------------------------|--------------------|--------|---------------------|------------------|--------------|--------------|-----------|-----------|-------------------|
| Supply chain group | SIC code (SIC 2007) | Product category | Methodology | RSD | Amount spent by product category (£) | Units | Emission factor (kgCO ₂ e per £ spent) | Total kg CO ₂ e | Notes on data source and exclusions | Ease of collection | Direct | Indirect generation | Indirect service | Indirect T&D | Indirect WTT | High | Low | Outside of scopes |
| Agriculture, forestry and fishing | 01 | Products of agriculture, hunting and related services | Tier 1 | 25% | | £ | 2.315 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agriculture, forestry and fishing | 02 | Products of forestry, logging and related services | Tier 1 | 25% | | £ | 0.328 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Agriculture, forestry and fishing | 03 | Fish and other fishing products; aquaculture products; support services to fishing | Tier 1 | 25% | | £ | 0.760 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mining and quarrying | 05 | Coal and lignite | Tier 1 | 25% | | £ | 1.598 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mining and quarrying | 06 | Crude petroleum and natural gas | Tier 1 | 25% | | £ | 1.471 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mining and quarrying | 08 | Other mining and quarrying products | Tier 1 | 25% | | £ | 0.756 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mining and quarrying | 09 | Mining support services | Tier 1 | 25% | | £ | 1.905 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.1 | Preserved meat and meat products | Tier 1 | 25% | | £ | 0.817 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.2 -3 | Processed and preserved fish, crustaceans, molluscs, fruit and vegetables | Tier 1 | 25% | | £ | 0.745 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.4 | Vegetable and animal oils and fats | Tier 1 | 25% | | £ | 0.960 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.5 | Dairy products | Tier 1 | 25% | £16,411.46 | £ | 0.969 | 15,902.1 | | | 0.0 | 0.0 | 15902.1 | 0.0 | 0.0 | 19877.6 | 11926.6 | 0.0 |
| Manufacturing | 10.6 | Grain mill products, starches and starch products | Tier 1 | 25% | | £ | 0.939 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.7 | Bakery and farinaceous products | Tier 1 | 25% | | £ | 0.567 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 10.8 | Other food products | Tier 1 | 25% | £113,855.60 | £ | 0.725 | 82,586.6 | | | 0.0 | 0.0 | 82586.6 | 0.0 | 0.0 | 103233.2 | 61939.9 | 0.0 |
| Manufacturing | 10.9 | Prepared animal feeds | Tier 1 | 25% | | £ | 0.925 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 11.01-6 | Alcoholic beverages | Tier 1 | 25% | | £ | 0.728 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 11.07 | Soft drinks | Tier 1 | 25% | | £ | 0.421 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 12 | Tobacco products | Tier 1 | 25% | | £ | 1.036 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 13 | Textiles | Tier 1 | 25% | £1,369.82 | £ | 0.805 | 1,102.6 | | | 0.0 | 0.0 | 1102.6 | 0.0 | 0.0 | 1378.3 | 827.0 | 0.0 |
| Manufacturing | 14 | Wearing apparel | Tier 1 | 25% | £32,435.15 | £ | 0.738 | 23,952.5 | | | 0.0 | 0.0 | 23952.5 | 0.0 | 0.0 | 29940.6 | 17964.3 | 0.0 |
| Manufacturing | 15 | Leather and related products | Tier 1 | 25% | | £ | 0.712 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 16 | Wood and of products of wood and cork, except furniture; articles of straw and plaiting materials | Tier 1 | 25% | £34,654.91 | £ | 0.545 | 18,870.6 | | | 0.0 | 0.0 | 18870.6 | 0.0 | 0.0 | 23588.2 | 14152.9 | 0.0 |
| Manufacturing | 17 | Paper and paper products | Tier 1 | 25% | £215,395.27 | £ | 0.756 | 162,748.3 | | | 0.0 | 0.0 | 162748.3 | 0.0 | 0.0 | 203435.3 | 122061.2 | 0.0 |
| Manufacturing | 18 | Printing and recording services | Tier 1 | 25% | £682,894.46 | £ | 0.434 | 296,180.0 | | | 0.0 | 0.0 | 296180.0 | 0.0 | 0.0 | 370225.0 | 222135.0 | 0.0 |
| Manufacturing | 19 | Coke and refined petroleum products | Tier 1 | 25% | | £ | 1.866 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 20.3 | Paints, varnishes and similar coatings, printing ink and mastics | Tier 1 | 25% | | £ | 1.048 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 20.4 | Soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations | Tier 1 | 25% | £2,220,423.95 | £ | 0.837 | 1,857,571.3 | | | 0.0 | 0.0 | 1857571.3 | 0.0 | 0.0 | 2321964.1 | 1393178.4 | 0.0 |
| Manufacturing | 20.5 | Other chemical products | Tier 1 | 25% | | £ | 1.338 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 20A | Industrial gases, inorganics and fertilisers (all inorganic chemicals) - 20.11/13/15 | Tier 1 | 25% | | £ | 1.391 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 20B | Petrochemicals - 20.14/16/17/60 | Tier 1 | 25% | | £ | 1.500 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 20C | Dyestuffs, agro-chemicals - 20.12/20 | Tier 1 | 25% | | £ | 1.232 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 21 | Basic pharmaceutical products and pharmaceutical preparations | Tier 1 | 25% | | £ | 0.581 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 22 | Rubber and plastic products | Tier 1 | 25% | | £ | 0.634 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 23.5-6 | Cement, lime, plaster and articles of concrete, cement and plaster | Tier 1 | 25% | | £ | 0.982 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 23OTHER | Glass, refractory, clay, other porcelain and ceramic, stone and abrasive products - 23.1-4/7-9 | Tier 1 | 25% | | £ | 1.310 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 24.1-3 | Basic iron and steel | Tier 1 | 25% | | £ | 1.792 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 24.4-5 | Other basic metals and casting | Tier 1 | 25% | | £ | 0.110 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 25.4 | Weapons and ammunition | Tier 1 | 25% | | £ | 0.469 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 25OTHER | Fabricated metal products, excl. machinery and equipment and weapons & ammunition - 25.1-3/25.5-9 | Tier 1 | 25% | £38,673.46 | £ | 0.575 | 22,250.6 | | | 0.0 | 0.0 | 22250.6 | 0.0 | 0.0 | 27813.2 | 16687.9 | 0.0 |
| Manufacturing | 26 | Computer, electronic and optical products | Tier 1 | 25% | £827,331.61 | £ | 0.404 | 334,095.2 | | | 0.0 | 0.0 | 334095.2 | 0.0 | 0.0 | 417619.0 | 250571.4 | 0.0 |
| Manufacturing | 27 | Electrical equipment | Tier 1 | 25% | £5,939.14 | £ | 0.438 | 2,600.2 | | | 0.0 | 0.0 | 2600.2 | 0.0 | 0.0 | 3250.3 | 1950.2 | 0.0 |
| Manufacturing | 28 | Machinery and equipment n.e.c. | Tier 1 | 25% | £115,764.94 | £ | 0.445 | 51,546.4 | | | 0.0 | 0.0 | 51546.4 | 0.0 | 0.0 | 64433.0 | 38659.8 | 0.0 |
| Manufacturing | 29 | Motor vehicles, trailers and semi-trailers | Tier 1 | 25% | £1,425,927.14 | £ | 0.416 | 593,757.4 | | | 0.0 | 0.0 | 593757.4 | 0.0 | 0.0 | 742196.8 | 445318.1 | 0.0 |
| Manufacturing | 30.1 | Ships and boats | Tier 1 | 25% | | £ | 0.303 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 30.3 | Air and spacecraft and related machinery | Tier 1 | 25% | | £ | 0.427 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 30OTHER | Other transport equipment - 30.2/4/9 | Tier 1 | 25% | | £ | 0.336 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 31 | Furniture | Tier 1 | 25% | £342,506.36 | £ | 0.457 | 156,455.6 | | | 0.0 | 0.0 | 156455.6 | 0.0 | 0.0 | 195569.5 | 117341.7 | 0.0 |
| Manufacturing | 32 | Other manufactured goods | Tier 1 | 25% | £4,115,624.60 | £ | 0.617 | 2,538,687.8 | | | 0.0 | 0.0 | 2538687.8 | 0.0 | 0.0 | 3173359.7 | 1904015.8 | 0.0 |
| Manufacturing | 33.15 | Repair and maintenance of ships and boats | Tier 1 | 25% | | £ | 0.300 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 33.16 | Repair and maintenance of aircraft and spacecraft | Tier 1 | 25% | | £ | 0.450 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Manufacturing | 33OTHER | Rest of repair; installation - 33.11-14/17/19/20 | Tier 1 | 25% | £3,001.40 | £ | 0.205 | 616.7 | | | 0.0 | 0.0 | 616.7 | 0.0 | 0.0 | 770.9 | 462.6 | 0.0 |

| | | | | | | | | | | | | | | | | | |
|--|---------|--|--------|-----|----------------|---|-------|--------------|--|--|-----|-----|------------|-----|-----|------------|------------|
| Electricity, gas, steam and air conditioning supply | 35.1 | Electricity, transmission and distribution | Tier 1 | 25% | | £ | 1.950 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Electricity, gas, steam and air conditioning supply | 35.2-3 | Gas; distribution of gaseous fuels through mains; steam and air conditioning supply | Tier 1 | 25% | | £ | 1.607 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water supply; sewerage, waste management and remediation activities | 36 | Natural water; water treatment and supply services | Tier 1 | 25% | | £ | 0.292 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water supply; sewerage, waste management and remediation activities | 37 | Sewerage services; sewage sludge | Tier 1 | 25% | | £ | 0.397 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water supply; sewerage, waste management and remediation activities | 38 | Waste collection, treatment and disposal services; materials recovery services | Tier 1 | 25% | | £ | 1.392 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Water supply; sewerage, waste management and remediation activities | 39 | Remediation services and other waste management services | Tier 1 | 25% | | £ | 3.443 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Construction | 41.2 | Buildings and building construction works | Tier 1 | 25% | £45,451,605.57 | £ | 0.324 | 14,711,723.6 | | | 0.0 | 0.0 | 14711723.6 | 0.0 | 0.0 | 18389654.5 | 11033792.7 |
| Construction | 42.1-2 | Constructions and construction works for civil engineering | Tier 1 | 25% | £4,090,718.33 | £ | 0.353 | 1,444,785.9 | | | 0.0 | 0.0 | 1444785.9 | 0.0 | 0.0 | 1805982.4 | 1083589.4 |
| Construction | 42.99 | Specialised construction works | Tier 1 | 25% | £21,098.42 | £ | 0.312 | 6,589.9 | | | 0.0 | 0.0 | 6589.9 | 0.0 | 0.0 | 8237.3 | 4942.4 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 45 | Wholesale and retail trade and repair services of motor vehicles and motorcycles | Tier 1 | 25% | | £ | 0.297 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 46 | Wholesale trade services, except of motor vehicles and motorcycles | Tier 1 | 25% | | £ | 0.022 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wholesale and retail trade; repair of motor vehicles and motorcycles | 47 | Retail trade services, except of motor vehicles and motorcycles | Tier 1 | 25% | | £ | 0.193 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Transportation and storage | 49.1-2 | Rail transport services | Tier 1 | 25% | £529.00 | £ | 0.794 | 420.2 | | | 0.0 | 0.0 | 420.2 | 0.0 | 0.0 | 525.2 | 315.1 |
| Transportation and storage | 49.3-5 | Land transport services and transport services via pipelines, excluding rail transport | Tier 1 | 25% | £13,714,008.87 | £ | 0.621 | 8,511,985.8 | | | 0.0 | 0.0 | 8511985.8 | 0.0 | 0.0 | 10639982.3 | 6383989.4 |
| Transportation and storage | 50 | Water transport services | Tier 1 | 25% | | £ | 2.407 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Transportation and storage | 51 | Air transport services | Tier 1 | 25% | | £ | 1.497 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Transportation and storage | 52 | Warehousing and support services for transportation | Tier 1 | 25% | | £ | 0.339 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Transportation and storage | 53 | Postal and courier services | Tier 1 | 25% | £381,444.68 | £ | 0.264 | 100,612.0 | | | 0.0 | 0.0 | 100612.0 | 0.0 | 0.0 | 125765.0 | 75459.0 |
| Accommodation and food service activities | 55 | Accommodation services | Tier 1 | 25% | £6,466,614.48 | £ | 0.341 | 2,202,780.2 | | | 0.0 | 0.0 | 2202780.2 | 0.0 | 0.0 | 2753475.2 | 1652085.1 |
| Accommodation and food service activities | 56 | Food and beverage serving services | Tier 1 | 25% | £20,012.71 | £ | 0.316 | 6,325.6 | | | 0.0 | 0.0 | 6325.6 | 0.0 | 0.0 | 7907.0 | 4744.2 |
| Information and communication | 58 | Publishing services | Tier 1 | 25% | | £ | 0.102 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Information and communication | 59 | Motion picture, video and TV programme production services, sound recording & music publishing | Tier 1 | 25% | £7,982.34 | £ | 0.135 | 1,078.3 | | | 0.0 | 0.0 | 1078.3 | 0.0 | 0.0 | 1347.9 | 808.7 |
| Information and communication | 60 | Programming and broadcasting services | Tier 1 | 25% | | £ | 0.201 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Information and communication | 61 | Telecommunications services | Tier 1 | 25% | £1,193,527.88 | £ | 0.173 | 206,730.6 | | | 0.0 | 0.0 | 206730.6 | 0.0 | 0.0 | 258413.3 | 155048.0 |
| Information and communication | 62 | Computer programming, consultancy and related services | Tier 1 | 25% | £5,145,940.15 | £ | 0.153 | 788,819.3 | | | 0.0 | 0.0 | 788819.3 | 0.0 | 0.0 | 986024.1 | 591614.5 |
| Information and communication | 63 | Information services | Tier 1 | 25% | | £ | 0.200 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Financial and insurance activities | 64 | Financial services, except insurance and pension funding | Tier 1 | 25% | £6,201,745.29 | £ | 0.119 | 739,757.1 | | | 0.0 | 0.0 | 739757.1 | 0.0 | 0.0 | 924696.4 | 554817.9 |
| Financial and insurance activities | 65.1-2 | Insurance and reinsurance services, except compulsory social security | Tier 1 | 25% | £2,111,661.55 | £ | 0.088 | 186,234.2 | | | 0.0 | 0.0 | 186234.2 | 0.0 | 0.0 | 232792.8 | 139675.7 |
| Financial and insurance activities | 66 | Services auxiliary to financial services and insurance services | Tier 1 | 25% | | £ | 0.097 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Real estate activities | 68.12 | Real estate services, excluding on a fee or contract basis and imputed rent | Tier 1 | 25% | | £ | 0.151 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Real estate activities | 68.2IMP | Owner-Occupiers' Housing Services | Tier 1 | 25% | | £ | 0.044 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Real estate activities | 68.3 | Real estate services on a fee or contract basis | Tier 1 | 25% | | £ | 0.104 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Professional, scientific and technical activities | 69.1 | Legal services | Tier 1 | 25% | £2,966,181.65 | £ | 0.068 | 201,865.7 | | | 0.0 | 0.0 | 201865.7 | 0.0 | 0.0 | 252332.1 | 151399.3 |
| Professional, scientific and technical activities | 69.2 | Accounting, bookkeeping and auditing services; tax consulting services | Tier 1 | 25% | £143,811.98 | £ | 0.137 | 19,773.9 | | | 0.0 | 0.0 | 19773.9 | 0.0 | 0.0 | 24717.4 | 14830.4 |
| Professional, scientific and technical activities | 70 | Services of head offices; management consulting services | Tier 1 | 25% | £904,502.24 | £ | 0.161 | 145,282.9 | | | 0.0 | 0.0 | 145282.9 | 0.0 | 0.0 | 181603.6 | 108962.2 |
| Professional, scientific and technical activities | 71 | Architectural and engineering services; technical testing and analysis services | Tier 1 | 25% | £13,609.04 | £ | 0.198 | 2,690.2 | | | 0.0 | 0.0 | 2690.2 | 0.0 | 0.0 | 3362.7 | 2017.6 |
| Professional, scientific and technical activities | 72 | Scientific research and development services | Tier 1 | 25% | | £ | 0.222 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Professional, scientific and technical activities | 73 | Advertising and market research services | Tier 1 | 25% | £444,882.56 | £ | 0.124 | 55,229.1 | | | 0.0 | 0.0 | 55229.1 | 0.0 | 0.0 | 69036.4 | 41421.9 |
| Professional, scientific and technical activities | 74 | Other professional, scientific and technical services | Tier 1 | 25% | £19,733,740.55 | £ | 0.163 | 3,216,860.5 | | | 0.0 | 0.0 | 3216860.5 | 0.0 | 0.0 | 4021075.6 | 2412645.4 |
| Professional, scientific and technical activities | 75 | Veterinary services | Tier 1 | 25% | £53,069.70 | £ | 0.107 | 5,674.1 | | | 0.0 | 0.0 | 5674.1 | 0.0 | 0.0 | 7092.6 | 4255.6 |
| Administrative and support service activities | 77 | Rental and leasing services | Tier 1 | 25% | £425,311.65 | £ | 0.177 | 75,469.1 | | | 0.0 | 0.0 | 75469.1 | 0.0 | 0.0 | 94336.4 | 56601.9 |
| Administrative and support service activities | 78 | Employment services | Tier 1 | 25% | £18,089,604.01 | £ | 0.126 | 2,285,719.5 | | | 0.0 | 0.0 | 2285719.5 | 0.0 | 0.0 | 2857149.3 | 1714289.6 |
| Administrative and support service activities | 79 | Travel agency, tour operator and other reservation services and related services | Tier 1 | 25% | | £ | 0.172 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Administrative and support service activities | 80 | Security and investigation services | Tier 1 | 25% | £82,100.41 | £ | 0.112 | 9,202.8 | | | 0.0 | 0.0 | 9202.8 | 0.0 | 0.0 | 11503.5 | 6902.1 |
| Administrative and support service activities | 81 | Services to buildings and landscape | Tier 1 | 25% | £10,200.00 | £ | 0.193 | 1,967.8 | | | 0.0 | 0.0 | 1967.8 | 0.0 | 0.0 | 2459.8 | 1475.9 |
| Administrative and support service activities | 82 | Office administrative, office support and other business support services | Tier 1 | 25% | £271,118.26 | £ | 0.189 | 51,296.1 | | | 0.0 | 0.0 | 51296.1 | 0.0 | 0.0 | 64120.2 | 38472.1 |
| Public administration and defence; compulsory social security | 84 | Public administration and defence services; compulsory social security services | Tier 1 | 25% | | £ | 0.250 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Education | 85 | Education services | Tier 1 | 25% | £6,949,664.97 | £ | 0.188 | 1,309,177.7 | | | 0.0 | 0.0 | 1309177.7 | 0.0 | 0.0 | 1636472.2 | 981883.3 |
| Human health and social work activities | 86 | Human health services | Tier 1 | 25% | £536,444.80 | £ | 0.320 | 171,827.4 | | | 0.0 | 0.0 | 171827.4 | 0.0 | 0.0 | 214784.3 | 128870.6 |
| Human health and social work activities | 87 | Residential care services | Tier 1 | 25% | £45,990,510.25 | £ | 0.214 | 9,838,764.0 | | | 0.0 | 0.0 | 9838764.0 | 0.0 | 0.0 | 12298455.0 | 7379073.0 |
| Human health and social work activities | 88 | Social work services without accommodation | Tier 1 | 25% | £37,768,315.95 | £ | 0.228 | 8,623,869.2 | | | 0.0 | 0.0 | 8623869.2 | 0.0 | 0.0 | 10779836.5 | 6467901.9 |

Land-based emissions, sequestration and agriculture

Guidance for users

This sheet contains three tables - Land emissions (tier 1), land emissions (tier 2) and agriculture

The organisational boundary should be defined as assets and operations under your organisation's operational control. This equates to emissions and sequestration in the vegetation and soils of land managed by your organisation for the delivery of public services, whether owned or leased.

Please see Sections 7 & 10 of the Welsh Net Zero Public Sector Reporting Guide for further guidance.

Instructions for users:

- Input information into the orange and blue cells. Grey cells should not be edited. Please fill in the notes column with a description of the method and data source used.
- Find out the extent of land holdings that are under the operational control of your organisation.
- Complete the scoping table below to determine whether Tier 1 methodology is required.

If so,

- Complete the Tier 1 table below with available information and notes about sources of data

OR

If you want to use a Tier 2 method to report your emissions, complete the Tier 2 table below, providing notes about data sources and methods used.

Land-based scoping questions

| Land area | Land area in hectares (ha) |
|--|----------------------------|
| Land owned and managed by your organisation | 1432.00 |
| Land owned by your organisation and leased to a private organisation or individual but still used for delivering public services | 106.00 |
| Land owned by your organisation and leased to another public sector body, where your organisation is responsible for management of the asset | 0.00 |
| Land leased by your organisation from a private organisation or individual and used for delivering public services, | 0.16 |
| Land leased from another public sector body, where your organisation is responsible for management of the asset | 0.00 |
| Total | 1538.16 |

Scoping result

Complete table below

Tier 1 methodology for land-based emissions

No errors in this table

[illegible]

[illegible]

If you wish to use a higher tier method to report your land use emissions, record these in the table below.

Tier 2 methodology for land-based emissions

[illegible]

Agriculture

[illegible]

| PZ challenge (Step) | CMP 2024 | Activities | Directorate leading activity | RAG | Progress made 2024/25 |
|---|----------|---|---|-------------------------------|---|
| Buildings & Street Lighting | | | | | |
| PZC15.1 | 1.1 | All new school developments will include the maximum PV panels for the roof design and layout, consideration to the building orientation is also included to ensure this is achievable. (Provision of battery storage will also be considered as part of the base build). | Learning & Skills | No planned action | |
| PZC15.1 | 1.2 | Inclusion of alternative heat sources such as heat pumps within the new school developments to remove the requirement of fossil fuels for heating and domestic hot water. | Learning & Skills | No planned action | |
| PZC15.5 | 1.3 | Include Green Roof systems to all new buildings, where possible. Inclusion is dependant of the array of PV panels and ongoing maintenance cost considerations | Learning & Skills | No planned action | |
| PZC15.1 | 1.4 | All new school developments to comply with the carbon reduction targets set by the Welsh Government and Vale of Glamorgan Council, being met through considerate design and operational measures | Learning & Skills | No planned action | |
| PZC15.6 | 1.5 | Ensure all new school developments provide end users with the understanding and knowledge of the building design and how the building is to be managed, to ensure Point 4 is not impeded through use. | Learning & Skills | No planned action | |
| PZC16.3 | 1.6 | Develop policy to promote heat pump technologies and electric water heaters to replace end-of-life gas water heaters / gas fired boilers. | Corporate Resources | Slower than expected progress | A draft policy has been developed and will be reviewed by all Directorates. In 2024/25 the air source heat pump project completed at Ysgol Bro Morgannwg (primary) and projects commenced for gas fired boilers to be replaced at Ty Jenner and Oakfield Primary School. |
| PZC16.3 | 1.7 | Retrofit projects to develop consistent, robust approach, e.g. AECB CarbonLite, LETI. | Corporate Resources | Slower than expected progress | New policy is being developed and project types and thresholds being reviewed for where this new policy would be applied. Our corporate membership of UKGBC enables officers to upskill with new best practice and lessons learnt from innovative projects and working practices. |
| PZC11.3 | 1.8 | Continue to progress roll out of AMR water meters, monitoring out of hours usage and leak detection for resolution by asset holder. | Corporate Resources | On track | Rollout has progressed well, we have just 9% of our water meters left to monitor, some delay has been caused by Welsh Water meter swap delays. |
| PZC11.3 | 1.9 | Decarbonisation & Energy Team continue to undertake weekly checks on water consumption and report unusual consumption to designated building manager /site contact to perform initial checks. | Corporate Resources | On track | We are monitoring all sites for water leaks weekly. A report is sent to all sites showing a continuous flowrate. Engagement has improved through 2024/25 and action being taken to resolve leaks in a timely manner. |
| PZC11.3 | 1.10 | Develop Standing Operational Procedures (SOPs) for identifying and fixing leaks. | Corporate Resources | No progress | This activity is pending implementation of the Corporate Landlord Model, when budgets and management practices will ensure this can be developed and implemented. |
| PZC11.4 | 1.11 | Develop policy to promote rainwater harvesting for landscaping / vehicle washing / WC flushing reducing potable water consumption. | Corporate Resources / Neighbourhood Services | Slower than expected progress | Approach being tested in pilot projects 2025/26 |
| PZC11.3 | 1.12 | Develop process for void properties such that water is isolated and accounts paused to avoid incurring costs. Change meters to SMART and remove debt | Housing | Slower than expected progress | Staff have been slow to undertake the new process, more collaboration required |
| PZC11.4 | 1.13 | Water butts installed at Porthkerry workshop and Cosmeston Medieval Village to harvest water for associated gardens. Look to develop other solutions to minimise water usage on all site | Countryside Services | No planned action | No Planned Action |
| PZC11.4 | 1.14 | Consider opportunities to introduce rainwater harvesting when undertaking roof renewal works or replacement of rainwater goods. | Corporate Resources / Neighbourhood Services | On track | Considering options for two 2025/26 projects to determine viability for new policy. |
| PZC11.3 | 1.15 | Implement specification changes, particularly in relation to sanitary fittings that introduce water saving devices into projects which reduce water usage | Corporate Resources / Neighbourhood Services | Slower than expected progress | Under review following feedback from end users on value for money, robustness and technical issues. Alternative solutions being reviewed. |
| PZC11.4 | 1.16 | Consider options for recycling water / greywater systems to provide alternative sources of water when undertaking refurbishment projects and as part of new build developments. | Corporate Resources / | On track | Two projects being piloted 2025/26. |
| PZC1.2 | 1.17 | Discuss with our supply chain options for reducing water usage during on site construction works. Introduce these requirements in to contract documentation. | Corporate Resources / Learning & Skills | No progress | Internal discussions to review practicalities of this as a possible contract clause. May only be possible on larger SCfL schemes. |
| PZC11.3 | 1.18 | Utilise rainwater harvesting to water plants in our parks and public spaces, for vehicle washing, water bowser and other activities. | Neighbourhood Services | No planned action | |
| PZC16.3 | 1.19 | Monitor existing air condition systems, rationalise air conditioning units where possible and investigate a replacement programme to swap to lower Global Warming Potential (GWP) refrigerant gases. | Neighbourhood Services | No planned action | No Planned Action |
| PZC16.3 | 1.20 | Develop policy to promote passive cooling must be demonstrated first ahead of any air conditioning being installed. To include a sign-off process from Property Section and PZ Board and business case demonstrating need. | Corporate Resources | Slower than expected progress | Draft policy to be developed with Head of Digital. Sub-metering of school ICT server rooms is being monitored to inform work going forward. |
| PZC16.1 | 1.21 | Develop and implement infrastructure solutions for IT that reduce the on-site carbon consumption, i.e. existing Data Centre (and ensure robust carbon accounting for outsourcing this activity). | Corporate Resources | No planned action | |
| PZC15.1 | 1.22 | Plan server rooms in new school developments in a location to provide adequate passive cooling | Learning & Skills | No planned action | |
| Street Lighting | | | | | |
| PZC17.1 | 2.1 | 1.5% per annum to close off the outstanding 7% - 191 assets/units per year providing sufficient budget available. | Neighbourhood Services | On track | 47x non-lanterns on Bary Island have been converted to LED and fitted with Central Management System nodes to enable dimming profiles and reduce energy use. LED upgrades for Cowbridge High Street and Ffordd Y Milenwm are underway, with lanterns delivered and awaiting installation. In Penarth, 28x sign lanterns have been retrofitted with new LED lanterns, cutting energy consumption from 8W to 1W per unit. |
| | 2.2 | Strategic review of lighting levels for new developments (S278/38) whether requirements can be flexible to reduce lighting levels, areas remaining unlit for example. | Neighbourhood Services | Completed | Specification for all new developments include the use of the Central Management System which gives us the ability to dim down lanterns remotely. This allows us to reduce the light levels saving on costs and limiting light unnecessary light pollution. |
| PZC17.1 | 2.3 | Develop programme to transition the remaining assets onto CMS should budget be available. | Neighbourhood Services | Slower than expected progress | The street lighting team are installing/specifying CMS (Central Management System) enabled lanterns in the hopes to receive funding to purchase the nodes which allows us to manage the asset remotely. By doing this, we are future proofing the asset to convert to CMS when budgets permit. |
| Fleet and Mobile Equipment | | | | | |
| PZC17.1 | 3.1 | Centralise data collection of all datasets to a single team to enable analysis of fleet vehicle journey types and vehicle utilisation patterns, fuel split diesel, petrol and electric. | Neighbourhood Services | On track | Information collated centrally. |
| PZC17.1 | 3.2 | Develop fleet replacement strategy which incorporates whole life carbon approach to vehicle replacement, considers vehicle rotation amongst fleet user groups, and timeline to phase out fossil fuel fleet (using WGES April/May 2024 recommendations). | Neighbourhood Services | Slower than expected progress | Existing Fleet is reviewed at time of replacement and assessed against cost / availability of EV vehicle against nature of the work and due date for replacement. Cost exercise has been completed and issues raised with Finance |
| PZC17.1 | 3.3 | Develop new pool car recharging policy to use mileage (telemetry) or EV charging data to improve accuracy | Corporate Resources | No planned action | Costing exercise completed by finance. |
| PZC17.1 | 3.4 | EV fleet end of life policy developed confirming battery or vehicle replacement and age / mileage criteria. | Neighbourhood Services | No progress | Slowly transitioning across to EV fleet, in particular for vehicles less than 3.5T. New matrix is required for EV vehicles. |
| PZC17.1 | 3.5 | Promote efficient use of pool car hires and use of EV | Corporate Resources / Neighbourhood Services | Slower than expected progress | Discussions held with Transformation team to look at use of pool cars. At the Alps and Civic, EV vehicles are offered as first option. usage at Alps and Civic are approx. 50:50. Only diesel pool cars available at Docks office. |
| PZC17.1 | 3.6 | Develop findings of trial and EV infrastructure working group for staff and visitor use of EV charge points. | Corporate Resources / Neighbourhood Services | Completed | The Alps and Civic offices both have chargers available for staff and visitor use. We will look to expand provision to other locations through 2025/26. CCR continues to roll out community EV charging with ConnectedKerb across the county as well. |
| PZC17.1 | 3.7 | Implementation of a staff and public EV charging capability trial and subsequent wider rollout. | Corporate Resources / Neighbourhood Services | On track | Chargers at the Alps and Civic available to staff, public access is provided by ConnectedKerb (CCR) chargers. |
| PZC17.1 | 3.8 | Establish records of all mobile equipment held in Parks and Playing Fields and Countryside Services teams. Develop timeline for rationalisation / pooling and sharing of equipment. | Neighbourhood Services / Countryside Services | Slower than expected progress | Countryside have established lists of mobile equipment. However due to limited stock and machinery being in constant use, do not see it viable to share as this will leave sites short of working machinery. Not feasible to share, however waiting for a full list of equipment to be identified. |
| PZC17.1 | 3.9 | Building on March / April 2024 trials of battery generators – establish policy to hire / purchase in place of petrol and diesel generator. | | No planned action | Action yet to be allocated. |
| PZC17.1 | 3.10 | Pilot the use of electric bikes with wider workforce | | No planned action | Action yet to be allocated. |
| PZC17.1 | 3.11 | Annual records of fuel purchased for mobile equipment to be retained. | Neighbourhood Services / Countryside Services | Completed | Records collated by Countryside and Parks & Gardens and recorded by Fleet team. |
| PZC17.1 | 3.12 | Departments utilising fleet vehicles to review mileage and work patterns, and rationalisation of fleet to be considered by the relevant departments; outcome of decision then supported by Fleet team. | Neighbourhood Services | No planned action | No progress made to date, but as and when changing vehicles Fleet team are reviewing rationalisation opportunities. |
| Business travel, staff commute, working from home | | | | | |
| PZC17.1 | 4.1 | Develop travel policy refresh for communication to all staff. Include flight policy including no short haul, UK travel by plane etc (we have successful examples from our Public Services Board partners to use as a template | Corporate Resources | No planned action | |
| PZC17.1 | 4.2 | Develop new policy for staff on claiming business travel to reflect new ways of working, post-pandemic | Corporate Resources | No planned action | |
| PZC17.1 | 4.3 | Undertake a review of business travel to inform the travel policy refresh. Business travel appears very low and uncertainty remains on whether all business travel is being recorded | Corporate Resources | No planned action | |
| PZC17.2 | 4.4 | Ensure our policies reflect best practice for staff travel and hybrid working. That our staff embrace these new ways of working and take decisions which continue to support low carbon activity. | Corporate Resources | No planned action | |
| PZC17.1 | 4.5 | Develop fleet replacement strategy which incorporates whole life carbon approach to vehicle replacement, considers vehicle rotation amongst fleet user groups, and timeline to phase out fossil fuel fleet. | Neighbourhood Services | No planned action | |
| PZC17.2 | 4.6 | Continual improvement and participation in staff travel survey - Internal comms and Corporate Services team who complete staff survey to continue to refine survey, encourage higher participation return (aim for 30-40% minimum return) and feedback data to all staff. | Corporate Resources | On track | The staff travel survey has received more than 500 responses in the first three weeks of being live. The survey remains open at time of update. |

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| PZC17.2 | 4.7 | Data collection of hire car usage (for business mileage). | Corporate Resources / Neighbourhood Services | No planned action | |
| PZC17.2 | 4.8 | Implementation of a revised Print Strategy that reduces the utilisation of printing and where absolutely required, has the lowest carbon impact. | Corporate Resources | No planned action | |
| PZC17.2 | 4.9 | Pilot for e-bike use by social services staff through 2024/25 monitored and findings implemented 2025 onwards. | Social Services | Completed | Options appraisal and EIA developed February 25. Recommended option progressed to transfer assets to interested dom care agencies at the end of the pilot. Provider (Sustrans) supported with identification of agencies and transfer of 27 out of 34 assets. Remaining assets transferred to teams within the Council. Condition of transfer both internally and externally is quarterly mileage data and annual qualitative report, which will continue to be monitored for the life of the assets. Final report delivered by Provider in April 25. 25/26 funding applied for, but not successful, so no scope to expand the original pilot with resources currently available. Learning shared with WG and other local authorities. |
| Waste | | | | | |
| PZC10.1 | 5.1 | Analysis and alignment of waste stream data reported to WG waste submissions and for carbon emission reporting (for both organisational and municipal waste streams). | Neighbourhood Services | On track | Reports that are currently available can feed into our emissions reporting. It's more difficult with organisational waste as WM to not collect all of this material. |
| PZC10.1 | 5.2 | Identify key projects for which waste data will be reported (e.g. set by volume of material or £ invested) and develop methodology to enable reporting in future years. | Neighbourhood Services | No planned action | |
| PZC10.2 | 5.3 | Develop communication resources to support behaviour change for staff and visitors on new legislation leading to a reduction in waste volumes and improved segregation. | Neighbourhood Services / Corporate Resources | No planned action | |
| PZC10.5 | 5.4 | Support service sites, e.g. residential care, countryside parks and gardens, to improve waste segregation and compliance with new legislation. | Neighbourhood Services | On track | This came into force April 2024 and something that we will continue to do. |
| PZC13.1 | 5.5 | Develop methodology to record waste generated from projects and ensure relevant clauses are incorporated into all project contracts going forward. | Neighbourhood Services / Learning & Skills | Slower than expected progress | WM can only report on waste that is collected or managed by the service area. |
| PZC15.3 | 5.6 | Develop a process re=utilising old materials i.e. a building that is to be demolished, the existing foundations would be broken/crushed and transported to another site to use as blinding/hardcore, thus removing the need for the material to be taken to landfill. A review is currently underway on how achievable this is and the merits from the task within a SCFL project 2024/25. | Learning & Skills | No planned action | |
| Procurement | | | | | |
| PZC13.2 | 6.1 | Ardal and Senior management (Directors/Heads of Services/Operational Managers) to continue to raise the profile of new procurement practices to support and embed carbon reduction practices including "Carbon Reduction Procurement Guidance" | Corporate Resources | Slower than expected progress | Contract Procedure Rules updated to reflect Procurement Act with the Carbon Reduction section strengthened to mandate that Carbon Reduction Plans must be sought on all tenders above £6m (incl VAT). The consideration of carbon reduction is firmly embedded in the updated Ardal Buying Responsibly Guides. PowerBI reports provide Directorates with 'their' carbon footprint as a result of their procurement activity. |
| PZC13.2 | 6.2 | Governance arrangements to put in place to ensure buying responsibly and carbon reduction guidance has been considered at pre-tender stage. | Corporate Resources | Slower than expected progress | More comprehensive digital pre tender arrangements in place from 28 February 2025. Both the Pre Tender Notification for > £75K activity and Quotation Record Form for < £75K have specific carbon questions. |
| PZC13.1 | 6.3 | Awareness raising and behaviour change messaging to support this new guidance and deliver economic and carbon savings and where possible economic savings too for the Council. | Corporate Resources | Slower than expected progress | For new PTN and QRF were promoted as part of wider comms for the Procurement Act 2023 which went to all Vale Chief Officers and the dedicated Commissioners/Procurer email group on 28 February 2025. Two five-minute Contract Procedure Rules training videos have been made available on the Council's training website. The training highlights the importance of following the Ardal Buying Responsibly Guides, which have carbon reduction embedded as a key consideration. |
| PZC13.1 | 6.4 | Create case studies of best practice examples for staff. | Corporate Resources | Slower than expected progress | A 3-minute Carbon animation has been developed to increase awareness of the work Ardal is undertaking to reduce carbon emissions throughout the supply chain. This will be launched in May 2025. The Ardal website includes a case study on Llancarfan Primary School. Further case studies will be published in 2025/26. |
| PZC13.2 | 6.5 | Improve the accuracy of the Tier 1 (SIC) carbon footprint through the improved categorisation of spend data. Continual quarter by quarter improvement, initial action end of 2023/24. | Corporate Resources | Slower than expected progress | Carbon reporting is always aligned to Welsh Government Guidance. Work is ongoing to improve the categorisation of spend data, increased time to review the data and knowledge of previous years categorisation is helping improve the quality of the carbon reporting. The aim is to start reporting on Tier 2 data and that shift will be a priority for 2025/26. |
| PZC13.2 | 6.6 | Review 2023/24 datasets, SIC (standard industrial classification) codes used and identify opportunities for decarbonisation | Corporate Resources | Slower than expected progress | Procurement PowerBI reports are made available to Directorates and include each Directorates carbon footprint. High carbon contracts and spend areas are identifiable. An Ardal/WRAP carbon reduction workshop programme for 2024/25, supported by Innovate UK funding, was held between December 2024 and February 2025. The focus was on 3 high carbon spend areas Food & Catering, Highways and Social Care. A Workshop Programme Report was produced in February 2025 and the recommendations will be shaped into an Action Plan for 2025/26. The workshops brought together officers from across the Ardal Councils for 3 high carbon spend categories in 3 workshops. The methodology was: oAn online survey to be developed for key contractors/suppliers working in the 3 chosen categories exploring action taken / planned to be taken to reduce their carbon impact. •Introductory meeting to discuss information & data required, processes and contract structure with pipeline of future procurement activity and how this links sustainable procurement with low carbon impacts. •Outline on specific training and procurement categories with standardised processes, risk assessment and carbon literacy, data evaluation and interpretation •Areas of focus and impact with a strategic approach/prioritisation to be implemented and rolled out across the Ardal Procurement group. |
| PZC13.1 | 6.7 | Roll out the request for Carbon Reduction Plans from organisations tendering for contracts (Minimum Requirement in Procurement Policy & Strategy). Detailed wording will be set out rather than a simple pass/fail. | Corporate Resources | Slower than expected progress | This is now mandated on contracts above £6m. Ardal are working with the Southeast Wales Procurement Network to develop a common approach for requesting Carbon Reduction Plans on lower value tenders. The aim is to start piloting this in the summer of 2025. |
| PZC13.2 | 6.8 | Review Council Contract Terms and Conditions to ensure the appropriate data and commitments are fully reflected in both goods and services contracts. Partly dependent on timing of Welsh Government adopting PPN 01/24 | Corporate Resources | Slower than expected progress | Ardal are presently reviewing out T&Cs for under £100,000 but PPN01/24 is unlikely to apply to these. PPN01/24 will apply to the higher value contracts and your Legal Team would want to take account of PPN01/24 when developing these higher value contacts – likely to be construction and technology |
| PZC13.2 | 6.9 | Revised Procurement Policy & Strategy to have a greater focus on deforestation in Purchased Goods section to ensure the purchase of products from unsustainable sources is reduced. | Corporate Resources | Slower than expected progress | Revised Policy & Strategy still planned for June 2025 |
| PZC13.2 | 6.10 | Consider what categories of spend could have annual emission reduction targets set and report the outcome for the next annual update | Corporate Resources | Slower than expected progress | This will be kept under review, until we are able to start reporting on Tier 2 and Tier 3 data it will be difficult to set meaningful targets. The collection of Tier 2 and potentially Tier 3 data will start in 2025/26. |
| Renewable Energy | | | | | |
| PZC16.4 | 7.1 | Develop policy to identify prioritisation of renewable energy deployment and funding streams to enable increased generation across buildings estate. | Corporate Resources | Slower than expected progress | Deployment of solar arrays has continued and where viable roof replacement projects are incorporating solar panels as well. A more strategic approach to investment in renewable technology is still to be developed. |
| PZC16.4 | 7.2 | Develop procedure to review renewable energy potential of land is determined prior to disposal or acquisition, wherever possible. | Corporate Resources | Completed | Procedure is in place and all sites are reviewed ahead of Insight Board. |
| PZC16.4 | 7.3 | Continue to apply for Low Carbon Heat Grant (WG) annually whilst available and to seek out other funding opportunities to support renewable energy schemes. | Corporate Resources | Completed | Application was made for LCHG round for 2025/26 but we were unsuccessful. WG are yet to confirm the new low carbon grant process for April 2026. |
| PZC16.4 | 7.4 | Identify possible land mounted renewable energy opportunities within the Land Use Planning process to support developers and third-party collaborations. | LAEP | Slower than expected progress | Without a LAEP officer in post, this action has not been able to be progressed during 2024/25. Note: Officer appointed Q3 2025/26. |
| PZC12.1 | 7.5 | Continue to collaborate with all parties in implementing the LAEP | LAEP | Slower than expected progress | Without a LAEP officer in post, this action has not been able to be progressed during 2024/25. Note: Officer appointed Q3 2025/26. |
| Land Use | | | | | |
| PZC16.1 | 8.1 | Following WLGA training, investigate potential for land sequestration across estate portfolio. | Corporate Resources | Slower than expected progress | Policy update and new resources from WLGA and DataMapWales being reviewed for implementation. Various conflicting priorities for land uses. |
| PZC16.1 | 8.2 | Ensure that land sequestration value is considered when reporting surplus land opportunities to the Strategic Insight Board prior to disposal of land. | Corporate Resources | Completed | A new procedure has been developed, all sites are reviewed for renewable and biodiversity opportunities and recommendations given to Insight Board ahead of land disposals. |
| PZC5.1 | 8.3 | Adopt the Green Infrastructure Strategy, complete an action plan to implement its objectives, and progress work toward achieving these actions. | Countryside Services / Neighbourhood Services | No planned action | No green infrastructure plan in place or adopted. |
| PZC5.3 | 8.4 | Adopt the Tree Strategy, complete an action plan to implement its objectives, and progress work toward achieving these actions. | Countryside Services / Neighbourhood Services | No planned action | Countryside sites have adopted the Tree strategy and are working towards its objectives. Over 10,000 trees planted this year. |
| PZC5.3 | 8.5 | Feasibility and Business Plan for a local provenance tree and shrub nursery as a social enterprise | Countryside Services | No planned action | Draft feasibility survey completed. Resources required to progress. |