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| Enw y Grŵp/Is-Bwyllgor: Name of Group: | Decarbonisation Task Force Group (DTFG) |
| Cadeirydd y Grŵp/Is-Bwyllgor: Chair of Group: | Lee Davies, Executive Director of Strategy and Planning |
| Cyfnod Adrodd: Reporting Period: | June 2023 |
| Y Penderfyniadau a'r Materion a Ystyriodd y Grŵp/Is-Bwyllgor: Key Decisions and Matters Considered by the Group: | |
| <p>The accompanying PowerPoint Presentation, attached at Appendix 1, provides an update to the Sustainable Resources Committee (SRC) on progress made over the past 12 months and looking ahead to delivering the next steps for the Decarbonisation Programme.</p> <p>At the May 2023 DTFG meeting, the discussion was focussed on the acquisition of the Welsh Government (WG) building in Picton Terrace, Carmarthen. The Group agreed to form a Task & Finish Group to take forward this project and the relevant Group representatives have been identified. The first meeting took place on 12 June 2023 and will meet fortnightly to develop the content for the Business Justification Case. Best practice and lessons learned are being sought from the Glien House project by conducting an evaluation, which is currently underway and will be completed by the end of June 2023.</p> | |
| Materion y Mae Angen Ystyriaeth neu Gymeradwyaeth Lefel y Pwyllgor Adnoddau Cynaliadwy: Matters Requiring Sustainable Resources Committee Level Consideration or Approval: | |
| No matters requiring Committee level consideration or approval | |
| Risgiau Allweddol a Materion Pryder: Key Risks and Issues / Matters of Concern: | |
| <ul style="list-style-type: none"> - Structural Change/Resource: the need to influence the WG Decarbonisation Team to ensure that structural change is enabled for the Health Board that will fund and implement the appropriate internal structure so that Decarbonisation and Sustainable Healthcare is recognised as high a priority as it actually is. <u>It is unsustainable to rely on staff by adding onto existing roles.</u> - Prioritising: need to collect, analyse and use data to enable us to develop 'heat maps' identifying where to focus our energies that will create the most impactful change to our carbon footprint. - Funding: without adequate funding and investment, there is a significant risk that targets will not be achieved. - WG NHS carbon footprint: Emissions: Welsh Public Sector Net Zero Carbon Reporting - The national target is net zero emission by 2030 across the whole public sector. Our performance has steadily declined from March 2019. However, we continue to actively improve our performance in accordance with the WG ambition; this remains subject to ongoing review and ongoing change centrally. | |

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| Busnes Cynlluniedig y Grŵp/Is-Bwyllgor ar Gyfer y Cyfnod Adrodd Nesaf: Planned Group/Sub-Committee Business for the Next Reporting Period: |
| Adrodd yn y Dyfodol: Future Reporting: |
| Maintain regular updates to the Committee on Group progress. |
| Dyddiad y Cyfarfod Nesaf: Date of Next Meeting: |
| 20 July 2023 |

The Decarbonisation Programme

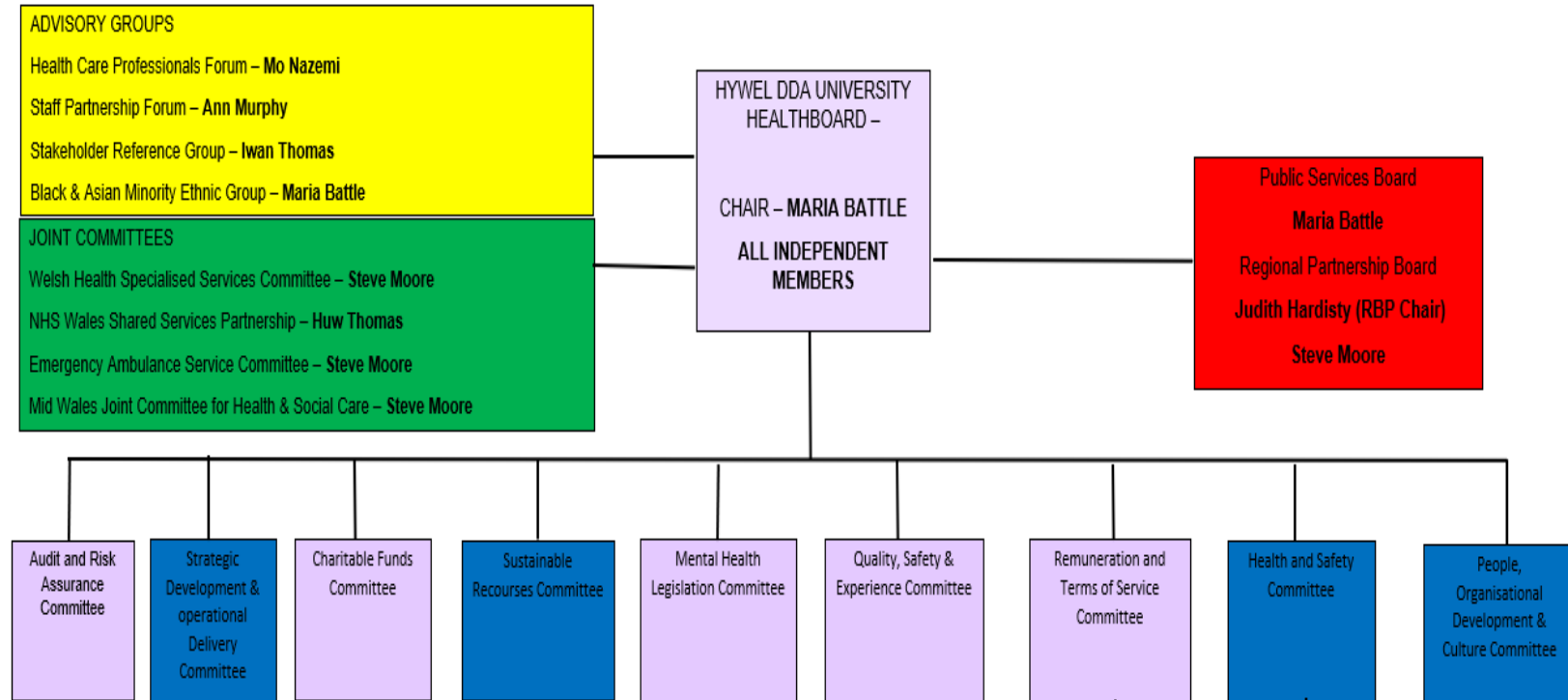
Hywel Dda's response to NHS Wales Decarbonisation Strategy 2021 and Welsh Public Sector Net Zero 2030

Update – 14 June 2023

HDdUHB Strategic Goal and Community Planning Objective

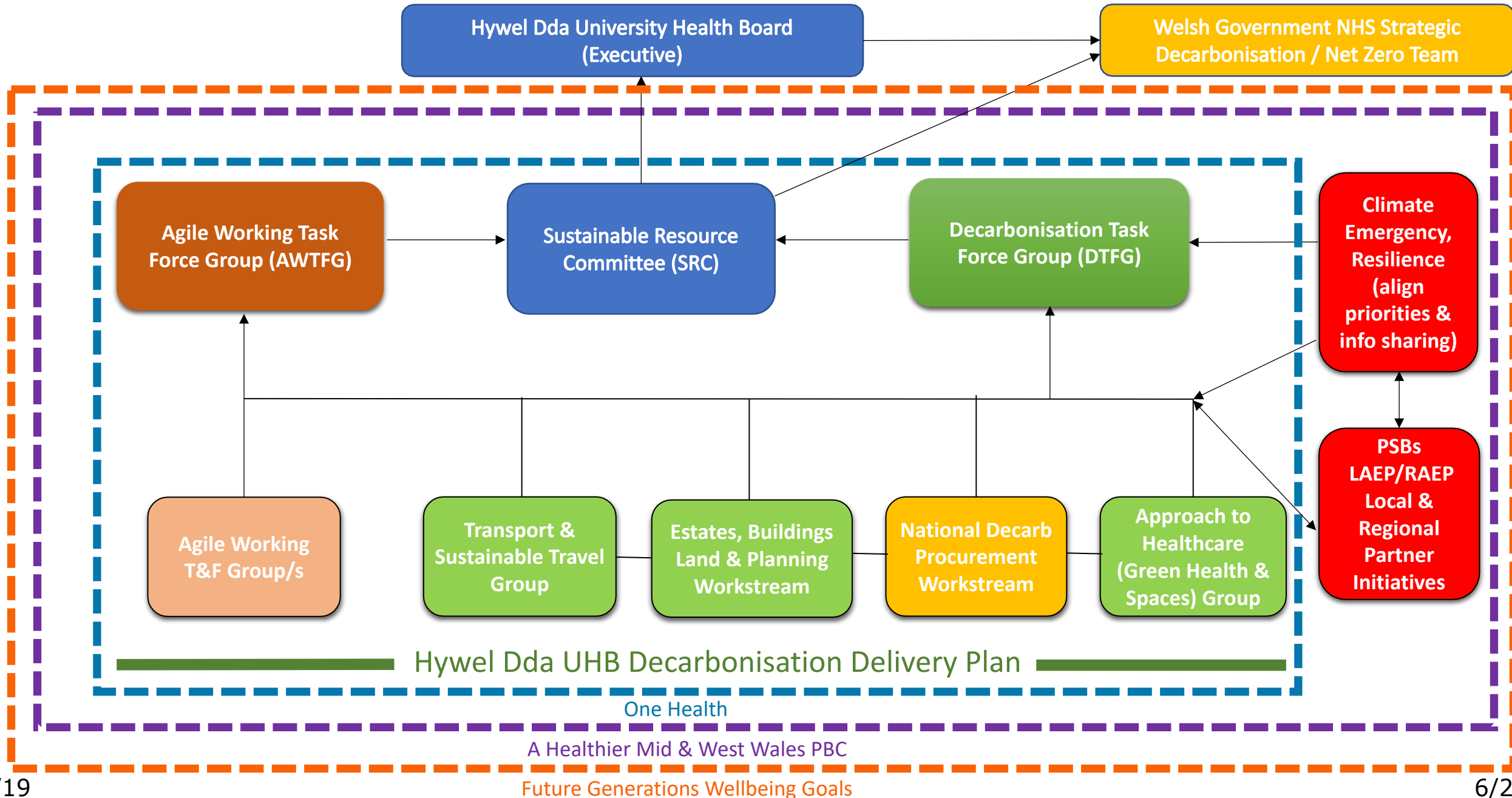
| Strategic Goal | Planning Objective |
|---|---|
| 8. Positive Impact Beyond Health | <p>Decarbonisation and Sustainability - Implement the Board-approved plan for Decarbonisation and support initiatives that promote environmental sustainability and One Health, with the ambition of making Hywel Dda a leading organisation in this area. This work will incorporate both large-scale schemes with a significant benefit to the environment and the development of a 'green' culture which encourages teams and individuals to make changes within their services in support of this ambition.</p> |

IM Committee Structure as of April 2023



Governance

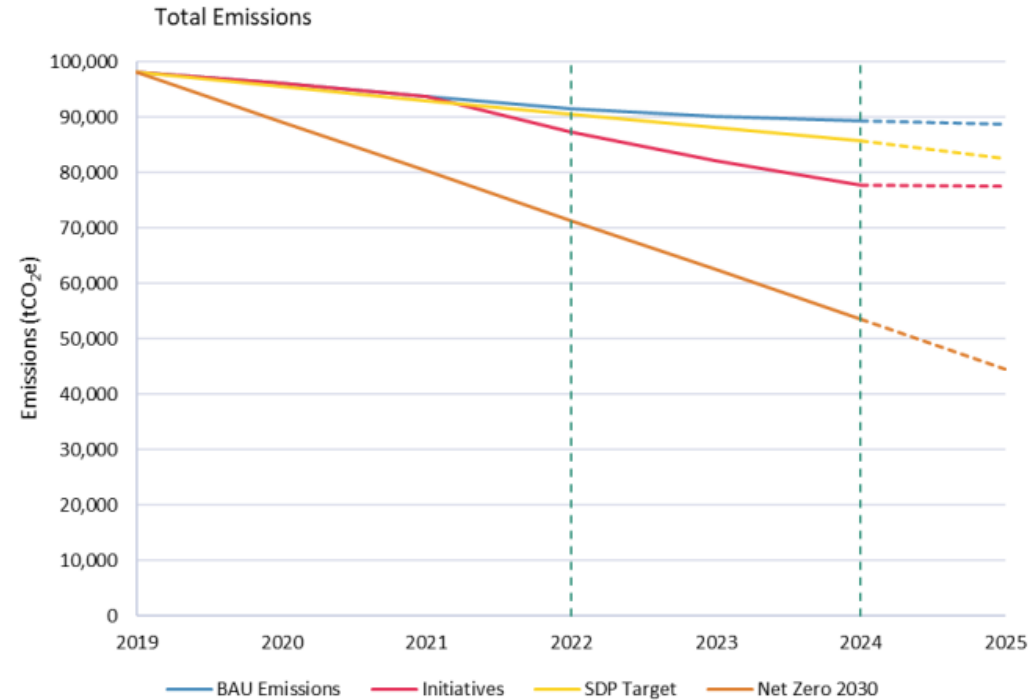
Decarbonisation Programme Governance Structure



Decarbonisation Delivery Action Plan

- Board approved Delivery Plan (2022 - 2025) timeline aligns with the Integrated Medium Term Plan (IMTP).
- Taskforce monitors progress against the plan along with completing bi-annual qualitative returns (soon to be quarterly returns) for Welsh Government.
- Sets out a summary of the impact (where quantifiable) of the Decarbonisation actions that will be implemented by HDdUHB – **an initial £8.7 million funding pot identified to support the HB with Feasibility, design and early win projects** (reflecting this will need to substantially increased to achieve longer term targets).

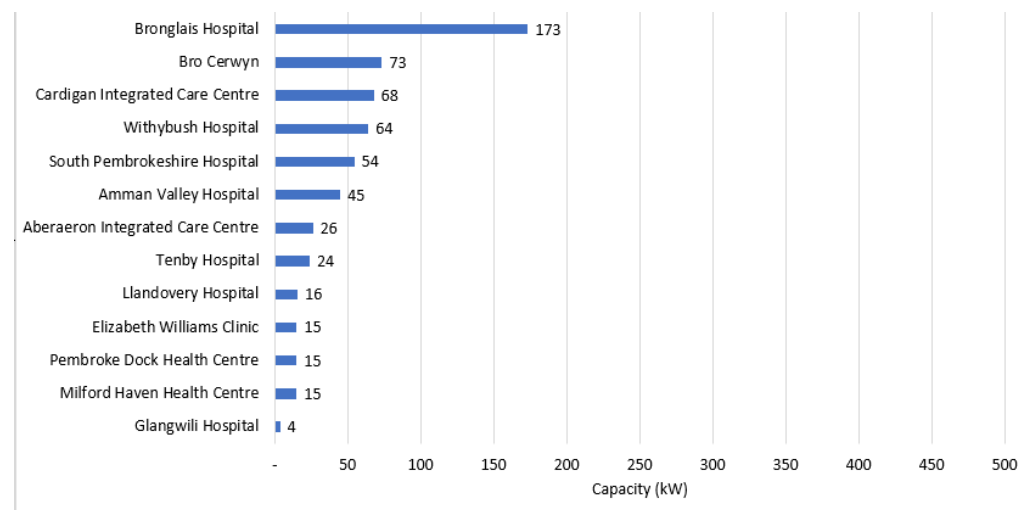
Decarbonisation Delivery Plan (Cont.)



The Plan includes a calculation called the “Gap to Target”, which is the gap that will require offsetting measures. **A gap to target has been estimated in 2025 as 33,873 tCO₂e. This represents HDdUHB’s estimated residual carbon emissions in 2025, plus the initiatives that were unquantifiable at this point in terms of carbon savings.** HDdUHB will need to offset the remaining carbon emissions using the correct and approved methods.

The Health Board has delivered a number of schemes since 2020/21 to date. Examples include;

- Roof mounted Solar PV on the following sites;



- Air Source Heat Pumps (ASHP) on Cardigan Integrated Care Centre (ICC)
- Development of a 0.45MW solar farm at Hafan Derwen
- Low Carbon Heat grant projects (Design only) on three sites; Brynmair, Wellfield and Elizabeth Williams Clinic
- Installation of Building Energy Management systems controls on Bronglais Hospital and 5 Community sites.

Estates, Facilities & Land Use update

Buildings (Projects Update):

Hafan Derwen Site



0.45MW Solar Farm -

- **Completed March 2023:**
 - Delivery of 120KW Battery / Electrical works;
 - Planting and Biodiversity / Staff area plans;
 - Car Charging – ducting in place;



Buildings (Cont):

Cardigan Integrated Care Centre 68KW



Air Source Heat Pump at Cardigan

- WG Energy Service conducted low carbon heat feasibility assessment for Cardigan ICC.
- 100kW air source heat pump and upgrade of air handling unit and heater batteries installed April 2022
- WG £325,000 grant
- Carbon savings of 39 tCO₂e.



Buildings (Cont):

Photovoltaic (PV) Projects in 2021/22



Bronglais General Hospital 173.3KW



South Pembrokeshire Hospital roof 54.4 KW

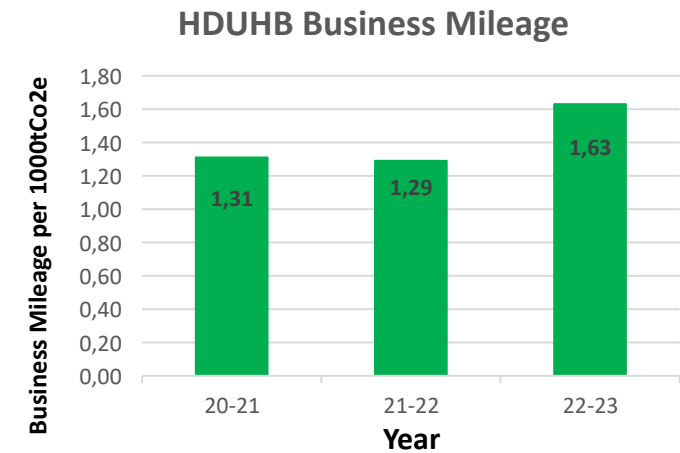
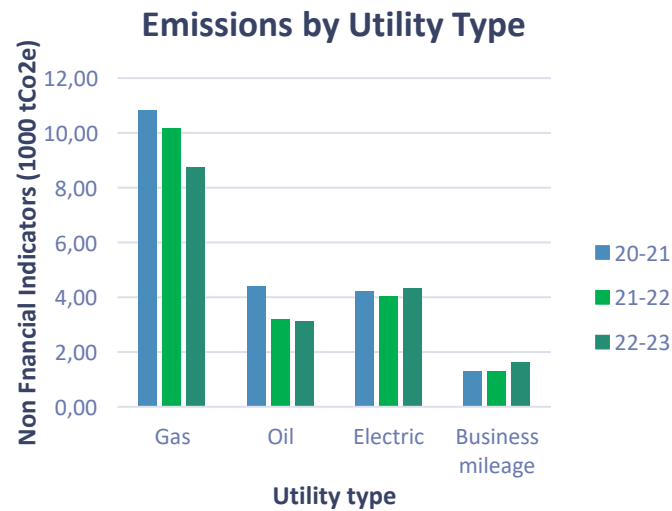
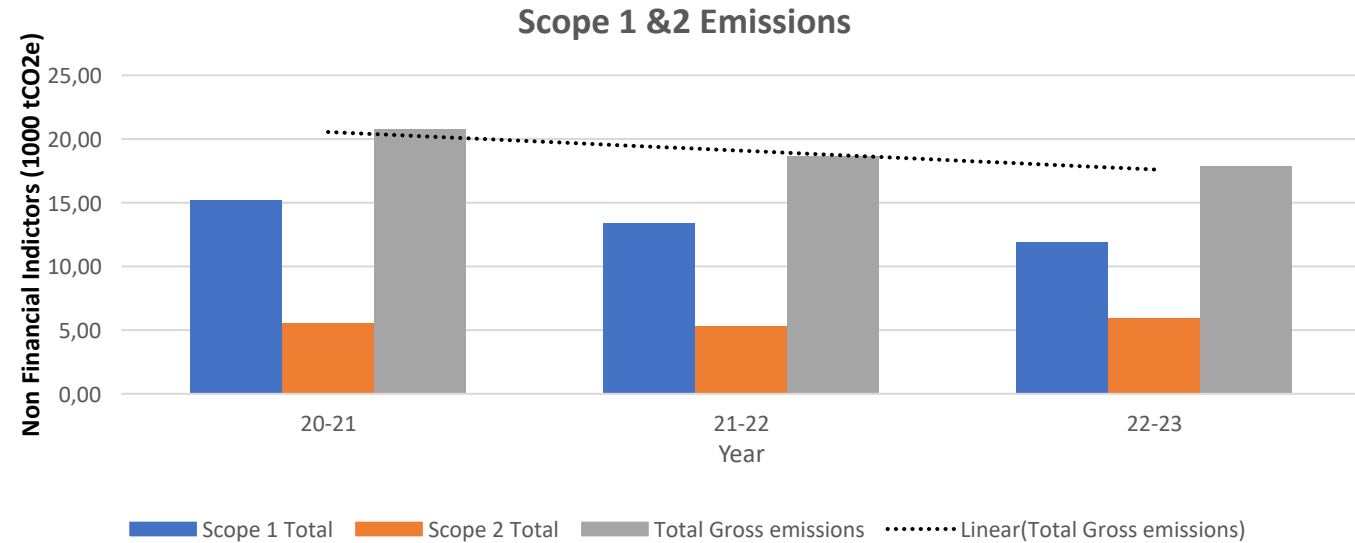
Estates, Facilities & Land Use: Pipeline Activities

The Estates team is currently exploring;

- The opportunity to deliver a further Energy Performance Contract (EPC) via the Re:Fit 4 Wales Framework route. The current EPC contract with Centrica is due to end 31st March 2025.
- A Public Sector Low Carbon District Heat Project in Aberystwyth in collaboration with the University and Ceredigion County Council
- Solar Farm projects at Prince Philip Hospital (private wire), scoping opportunities at Withybush (Local Authority scheme) and 1 community site (Cardigan Integrated Care Centre).
- Onsite treatment opportunities for clinical waste and progressing pilot to divert nappy waste from land fill to recycling.
- Roof Mounted PV on another 2 properties, Brynmair/79 Bro Myrddin
- Solar carport installation at South Pembrokeshire Hospital
- LPG to replace 70% of oil consumption by main Glangwili General Hospital boilers, reducing emissions by 300 tonnes CO₂e per year

Scope 1 & 2 Emissions

The graph below shows Scope 1 (Gas) and Scope 2 (Electricity & Business Mileage) over the last 3 years.



Procurement

Procurement

- Procurement have developed their Sustainable Procurement Policy to take full account of environmental, social and economic sustainability and have embedded these considerations with its Standard Operating Procedures (SOPs).
- Social Value, decarbonisation and sustainability are included within all tender exercises with a minimum weighting of 10%, which is increased where appropriate on an event-by-event basis.
- Winners of the Green Teams award, with an entry focussed on carbon reduction within our supply base

Next Steps

- Continue to promote leadership in sustainable procurement, working with suppliers of goods and services in the area of sustainability as set out in the Well-being of Future Generations (Wales) Act 2015.
- Continue to progress sustainability for the longer term e.g. aligning accommodation strategy with an agile workforce, greener energy in fleet management.

Transport

- Implementation of an electric vehicle (EV) awareness campaign and lease scheme promotion. 183 electric vehicles have been leased in 2022/23
- Roll out of the telematics tracking scheme to include all HDdUHB vehicles to capture fleet activity, CO₂ emissions levels and driver behaviour;
- Introduction of a new fleet management system 'Knowles Fleet FM' to support the monitoring and administration of Health Board vehicles;
- Establishment of new annual reporting process to enable the monitoring of CO₂ emissions across the Health Board's fleet to include grey fleet, lease vehicles and vehicles owned by HDdUHB.
- Placed its first order for Hybrid pool vehicles as we begin our transition to an Ultra-low emission vehicle (ULEV) fleet.
- Undertaken a scoping exercise to establish the infrastructure required for our transition to and ULEV fleet
- Development of an initial draft Transport and Accessibility Strategy to support the A Healthier Mid and West Wales (AHMWW) programme, with decarbonisation a key theme in the strategy.
- A staff travel survey is underway. The results of the survey will provide information on the current situation in terms of staff travel and a 'base-line' for the strategy.

Next Steps

- Procurement and subsequent physical installation of the EV charging infrastructure. This process is planned for 2023/24, funding dependant
- Continued promotion of the partnership with our fleet providers who give significant financial incentives for staff to move EV from traditional internal combustion engine (ICE) vehicles.
- Continued promotion of the cycle to work scheme and the ongoing work with several of the local authorities to link cycle networks to the main hospital sites for staff, patient and visitor usage.
- Stakeholder engagement to guide the further development of the Transport and Accessibility Strategy.
- A patient and visitor travel survey is to be undertaken following the staff travel survey.
- Review and update of the sustainable travel plans for all of the Health Board's main sites.

Transport

Approach to Healthcare (Sustainable/ Green Healthcare)

Carbon awareness initiatives, examples include:

- 'Sustainability Awareness' video and Achieving Net Zero' e-learning module is complete and will be part of staff induction. National key performance indicators (KPIs) are being developed to capture engagement and measure outcomes...[link to the course](#). Ambition is to make it a mandatory e-learning module in ESR.
- 'Sustainability Hub' is live on the intranet and continues to be developed. There is a Comms plan in place to increase site traffic and signpost to resources.
- Green Teams Competition – 6 projects submitted and being delivered; from this, an annual Welsh National Sustainability Conference and Awards will be established, to include partners such as WG and Green Health Wales network. The focus will be on 'permission to act' and empowering staff to undertake sustainable quality improvement work, mapped against the Well-being of Future Generations (Wales) Act (WBFGA) (7 Wellbeing Goals and 5 Ways of Working)
- Green Health Groups established at Withybush General Hospital (WGH) , Bronglais General Hospital (BGH), South Pembrokeshire Hospital (SPH) and Prince Philip Hospital (PPH)
- Wildlife garden at WGH [see video here>>>](#)

Next Steps

- Roll-out of the nappy recycling project, which will divert such waste from landfill
- Launch of the 'Switch It Off' Campaign and video publication [here>>>](#)
- Welsh National Sustainability Conference and Award planning for 29 February 2024.
- 'Climate Cafes' - creating time/space for staff to learn about planetary health and climate change in a non-judgemental and inclusive way.
- 'Pillow Waste Reduction' project.

A photograph of a wildlife garden at Withybush General Hospital. The garden is filled with various green plants and shrubs. A paved path leads through the garden, and a wooden bench is visible in the foreground. In the background, a large white building with a grey roof is partially visible. The sky is clear and blue.

Wildlife Garden at Withybush General Hospital



Other Carbon Reduction Initiatives

- **Estate Rationalisation opportunities** – a key target area to deliver carbon performance / reduction:
 - **Agile Working Strategy and Toolkit;**
 - **Property Asset Strategy;**
 - **New capital development programme;**
- **Clinical Innovation** – a priority focus area to identify opportunity and deliver innovation. Projects are already ongoing i.e. Medicines Management team looking at Asthma Inhalers and Medical Gases;
- **Water management** – The Health Board partner with a company to manage and monitor water consumption. Estimated consumption and financial savings / cost avoidance in 2022-23 was c. £65k and 44,162M3 respectively. The consumption saving has saved 17.7 tCo2e;
- **Warp IT** -To date, since the scheme began in March 2019, 1412 staff have committed to reusing no longer needed items avoiding waste disposal of nearly 103 tonnes, prevented 337 tonnes of CO₂ emissions and saved circa £444K;

Risks/Barriers

- **Capital / Revenue funding**– uncertainty over targeted carbon investment in the estate up to 2030;
- **Implementation of the Delivery Plan** – Failure to meet initial targets set at 2025 (Resources - £ and People)
- **IMTP / 10 Year capital planning capital funding alignment;**
- Implications on **estate and clinical transformational changes** on our carbon footprint, e.g. New Hospital and repurposing existing buildings.
- **Changing Baseline** – A fixed and agreed baseline is required and targets reviewed
- **Reporting Boundary** – Unable to determine this therefore reporting accuracy is limited until baseline agreed
- **Technical guidance** – e.g. design of Cross Hands project;
- **Carbon infrastructure** is expensive and often doesn't provide financial payback
- **No structural change** – adding to the unsustainability of the current system and further reliance on staff to add onto their existing roles.

“Uncertainty that the ambition for a net zero public sector will be met, according to Auditor General”

Next Steps

- Work to align our carbon reporting systems and re-evaluate targets in line with WG aspiration;
- Be clear / realistic on our reporting boundary – i.e. what areas are we targeting to be 'Net Zero' by 2030
- To re-evaluate 'The Plan' to update baseline projections for 2025 and, set out the revised targets for 2030;
- Develop fully costed plan to meet the 2030 target;
- Think wider – creating a green 'movement', estate rationalisation, agile working, capital development programme, technology and innovation, collaboration, offsetting opportunities.