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Bwrdd Iechyd Prifysgol
Bae Abertawe
Swansea Bay University
Health Board



Meeting Date	29 th September 2022		Agenda Item	3.2
Report Title	Decarbonisation Action Plan: Welsh Government Reporting			
Report Author	Kerry Broadhead, Head of Strategy Hayley Beharrell, Sustainability Planning Manager			
Report Sponsor	Siân Harrop-Griffiths, Executive Director of Strategy			
Presented by	Siân Harrop-Griffiths, Executive Director of Strategy			
Freedom of Information	Open			
Purpose of the Report	To summarise key messages within two decarbonisation reports required by Welsh Government and seek approval for their submission in September 2022.			
Key Issues	<p>WG require the Health Board (HB) to report on decarbonisation for the NHS Wales Performance Framework 2022-2023.</p> <p>The HB made significant progress and is able to clearly identify achievements to be proud of. However, there are risks to delivery which require WG and HB action.</p> <p>Confidence in HB ability to meet the 16% carbon reduction by 2025 is rated RED due to: WG changes to emissions factors; actions required out of Health Board control; and the need for improved HB understanding of costs/savings. HB Decarbonisation Action Plan delivery is rated AMBER due to funding and lack of data to prioritise actions.</p> <p>Management Board will consider funding external expertise in Q4, subject to delivery of financial plan and cost improvements, to assess cost/savings opportunities.</p>			
Specific Action Required <i>(please choose one only)</i>	Information	Discussion	Assurance	Approval
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recommendations	<p>Members are asked to:</p> <ul style="list-style-type: none"> • NOTE excellent progress to date • NOTE caveats to emissions performance position • NOTE consideration, in Q4, subject to financial plan to fund external expertise • NOTE the Public Sector Emissions Report 			

	<ul style="list-style-type: none">• NOTE the Decarbonisation Plan Progress Report
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DECARBONISATION ACTION PLAN

1. INTRODUCTION

This paper summarises the key messages from two decarbonisation reports submitted to Welsh Government (WG) in September 2022:

1. Annual Public Sector Carbon Emissions Report
2. Six monthly Decarbonisation Action Plan (DAP) Report

2. BACKGROUND

WG published the NHS Wales Decarbonisation Strategic Delivery Plan (2021-2030) (DSDP) in March 2021. It set out the collective emissions reduction target for a net zero public sector by 2030, to be supported by a 16% decrease in Health Board (HB) emissions by 2025, reaching a 34% reduction by 2030 (based on 2018/19 data).

The WG format for emissions data collection has been enhanced since publication of the DSDP and January 2022 submission of the HB DAP, including changes to the emissions factors used to calculate an activity's CO₂ emission and collection processes.

2.1 Public Sector Carbon Emissions Reporting

Confidence in fully delivering the 16% emissions reduction by 2025 is rated in the report as **RED** due to the scale of change outside HB control including:

- Significant WG changes to emission data calculations and emissions factors impeding understanding of where actions are driving reductions.
- Data inaccuracies associated with WG changes to data collection processes
- High likelihood of increases to procurement emissions due to continued improvements in non-pay data capture, inflation and increasing NHS spend
- Inadequate national infrastructure to meet electric vehicle targets
- Unavailability of national capital funding

Summarised at Table 1 is the comparison of HB emissions data 2021/22 and 2019/20. Due to WG changes to emissions factors the majority of de/increases are highly likely due to data capture changes. The emissions position suggests:

- 13.2% reduction driven by HB activities in natural gas, gas oil, fleet vehicles & equipment, grid electricity and business travel
- 118% increase driven by changes to data collection and/or emissions factors in waste, procurement and water

Table 1 Health Board Emissions Data Summary

Aspect	2021-22 Total (tonnes CO ₂ e)	Variance to 2019/20 (%)	Driver
Natural gas	13,837.72	-5.44	Decrease <ul style="list-style-type: none">• Efficiency savings from Re:Fit

Aspect	2021-22 Total (tonnes CO ₂ e)	Variance to 2019/20 (%)	Driver
			<ul style="list-style-type: none"> Onsite renewables and solar farm
Gas oil	736.25	-49.58	Decrease <ul style="list-style-type: none"> In the main due to laundry services transfer to NWSSP,
Fleet vehicles & equipment	300.84	-37.69	Decrease <ul style="list-style-type: none"> 26.3% decrease in miles driven Inclusion of more accurate categories e.g. electric and different size vehicles
Grid electricity	9,997.19	-15.45	Decrease <ul style="list-style-type: none"> Efficiency savings from Re:Fit Onsite renewables and solar farm
Procurement	98,455.40	+116.81	Increase <ul style="list-style-type: none"> Increase in % of non-pay spend cross-referenced to WG categories NOTE: Increase likely year on year as currently the tool captures £326,431,000 of the £631,000,000 of non-pay expenditure
Employee commuting	6,692.21	-10.33	Decrease <ul style="list-style-type: none"> Baseline used number of people employed tool uses FTE Baseline didn't account for deduction of Bank Holidays and average annual leave
Business travel - grey fleet	1,645.04	-25.58	Decrease <ul style="list-style-type: none"> Pandemic resulted in significant drop in 2020-21 from baseline activity increased by 50% on this in 2021-22
Water	112.63	-62.34	Decrease <ul style="list-style-type: none"> Slight reduction in volume supplied and treated (cause unknown) Change to emissions factors
Waste	1,376.82	+1,197.58	Increase <ul style="list-style-type: none"> Tool providing more waste categories, with significantly higher emissions conversion factors e.g. 2020/21 tool was 60kg CO₂e to 2021/22 tool using 1074kg CO₂e for the same waste disposal method
Land sequestration	153.95	+57.34	Increase: <ul style="list-style-type: none"> More land categories added therefore changing emissions conversion factors
Total (with procurement)	132,432.92	+58.7	
Total (minus procurement)	33,977.52	-9.6	
Note: As data accuracy improves there are likely to be further increases/decreases not related to HB performance			

2.2 Progress against the Health Board Decarbonisation Action Plan

The DAP progress report (Appendix 1) rates HB progress as **AMBER** against DAP actions for 2021-23 period, this is based on a number of actions requiring funding and or WG related action. In respect of the HB '**Route to Green Assessment**', full details can be seen at Appendix 1, key points for HB consideration include:

- Assessment of financial costs/savings and carbon reductions of DAP actions
- Maintain governance and rigorous delivery tracking through milestone plan
- Identify further collaboration opportunities and funding sources

Summarised at Table 2 are some key achievements to date.

Table 2 DAP Delivery Achievements

DAP section	Achievements
Our Culture and Ways of Working	<ul style="list-style-type: none"> • Sustainability staff survey released, developed by the Staff Green Group, due to close mid-September • Delivery of Communication and Engagement Plan
Our Buildings and Estate	<ul style="list-style-type: none"> • HB funding secured & 30 audits commenced on reducing carbon emissions in smaller clinical and community sites • Draft Estates Strategy embeds decarbonisation approaches
Our Travel	<ul style="list-style-type: none"> • Electric vehicle charging infrastructure feasibility study • WG funding for bike tool stations, active travel & wellbeing maps and Dr Bike sessions • SB Healthy Travel Charter signed up to, baseline report submitted • Bike Week events; breakfasts for cyclists, bike buddies, facilities info e.g. showers, lockers, bike racks etc. • 'Sustainable Travel Project Group' launched • Tender issued for a sustainable travel strategy
Our Procurement	<ul style="list-style-type: none"> • Decarbonisation requirements included as part of the 15% Social Values award criteria • WG funding for materials to support staff and SMEs in sustainable procurement – links to foundational economy
Our Approach to Healthcare	<ul style="list-style-type: none"> • WG funding for Green Teams competition with QI Team • WG funding for Green Laboratories Project • Investigation into NOx use commenced with Estates, Pharmacy and Anaesthetists teams • WG funding for pilot inhaler recycling scheme • Pharmacy Decarbonisation network initiated • ScriptSwitch promoting lower Global Warming Potential (GWP) inhalers and education for healthcare staff • Staff Green Group engagement in Waste management contract negotiations

The overarching risks to delivery are set out at Table 3.

Table 3 DAP risks

DAP section	Risks
Our Culture and Ways of Working	<ul style="list-style-type: none"> • No nationally agreed mandatory training • Lack of costing/emissions data analysis • Lack of medium to long term financial plan • Reliance on alternative, typically in-year, non-recurrent funding
Our Buildings and Estate	<ul style="list-style-type: none"> • Multi-million-pound estate, with aging building stock, and back-log maintenance issues/costs. • Retrofitting green technology can be costly, highlighting a major capital ask, with significant Welsh capital requirements
Our Travel	<ul style="list-style-type: none"> • Electric vehicles: <ul style="list-style-type: none"> ○ Electrical infrastructure/capacity across Wales ○ Capital development costs ○ Supply chain issues with vehicles ○ Pay back in emissions reduction • Public transport infrastructure is insufficient as a viable alternative.
Our Procurement	<ul style="list-style-type: none"> • On-going increases due to WG data capture changes • HB control and influence / inflation / NHS spend increases
Our Approach to Healthcare	<ul style="list-style-type: none"> • Welsh guidance on hospital recyclable waste streams delayed • Paperless prescriptions & electronic transfer in community setting at an All Wales level

2.3 Support Requirements of Welsh Government;

WG ask that UHBs identify the support they require. SBUHB key messages cover:

- A clear recognition that UHBs are unlikely to be able to deliver the 16% reduction by 2025 based on;
 - Changes to WG reporting arrangements for the emissions data
 - Inclusion of unavailable and exclusion of available data categories
 - Inconsistent coding, inflation, increasing NHS spend, partial / inaccurate data capture for procurement emissions
- Availability of technical support to UHBs to undertake financial cost/savings and emissions reduction analysis to inform local and national planning;
- Clarity of plans to provide financial support in respect of mandated NHS Wales Decarbonisation Strategic Delivery Plan 2021-2030 actions;
- Leadership and review of position on electric vehicles, to include resolving issues with national and local electrical capacity/infrastructure, supply chain limitations, capital costs and the position on alternative fuels e.g. hydrogen;
- Increased opportunities for collaboration including between UHBs to share questions/solutions/ideas and build a collaborative narrative including a Future NHS Collaborative Platform; and
- An all Wales approach to consistently embedding decarbonisation into future NHS planning and delivery, including healthcare pathways

3. GOVERNANCE AND RISK ISSUES

Assurance of 16% reduction in emissions by 2025

Challenges with identifying actions that deliver the greatest carbon and financial savings may impede HB ability to prioritise those actions with greatest benefit;

- *Mitigation:* Management Board to consider in Q4 funding external expertise
- *Mitigation:* Strategy mapping external funding sources (continuous) and supporting staff to bid for these

4. FINANCIAL IMPLICATIONS

Consideration will be given to commissioning external expertise, in Q4 subject to delivery of the financial plan and cost improvement programme. The cost (£31k) is currently part of the financial plan for 2022/23, but is being held back due to non-delivery of savings plans.

5. RECOMMENDATION

It is recommended that the Board:

- **NOTE** excellent progress to date
- **NOTE** caveats to emissions performance position
- **NOTE** consideration, in Q4, subject to financial plan to fund external expertise
- **NOTE** the Public Sector Emissions Report
- **NOTE** the Decarbonisation Plan Progress Report

Governance and Assurance		
Link to Enabling Objectives (please choose)	Supporting better health and wellbeing by actively promoting and empowering people to live well in resilient communities	
	Partnerships for Improving Health and Wellbeing	<input checked="" type="checkbox"/>
	Co-Production and Health Literacy	<input type="checkbox"/>
	Digitally Enabled Health and Wellbeing	<input checked="" type="checkbox"/>
	Deliver better care through excellent health and care services achieving the outcomes that matter most to people	
	Best Value Outcomes and High Quality Care	<input checked="" type="checkbox"/>
	Partnerships for Care	<input checked="" type="checkbox"/>
	Excellent Staff	<input checked="" type="checkbox"/>
	Digitally Enabled Care	<input checked="" type="checkbox"/>
	Outstanding Research, Innovation, Education and Learning	<input checked="" type="checkbox"/>
Health and Care Standards		
(please choose)	Staying Healthy	<input type="checkbox"/>
	Safe Care	<input type="checkbox"/>
	Effective Care	<input type="checkbox"/>
	Dignified Care	<input type="checkbox"/>
	Timely Care	<input type="checkbox"/>
	Individual Care	<input type="checkbox"/>
	Staff and Resources	<input checked="" type="checkbox"/>
Quality, Safety and Patient Experience		
Collaboration with the Quality Improvement Team, in the Approach to Healthcare section.		
Financial Implications		
To secure an emissions and financial savings/cost assessment to inform 2023-24 R&S plan and 2022-24 DAP and improve confidence in delivery is estimated at £31k.		
Legal Implications (including equality and diversity assessment)		
NHS Wales Performance Framework 2022-2023, performance measures: 74.Public Sector Carbon Emissions Reporting 75.Progress against the Health Board's Decarbonisation Action Plan (DAP)		
Staffing Implications		
Innovative projects, particularly connected with the Approach to Healthcare, are being undertaken by staff in their own time. Other Health Boards, including Cwm Taf and Cardiff and Vale are buying staff time to facilitate sustainability projects across clinical practice.		
Long Term Implications (including the impact of the Well-being of Future Generations (Wales) Act 2015)		
Decarbonisation Action Plan actively seeks to support both the five ways of working at the seven goals of The Well-being of Future Generations (Wales) Act 2015. This includes:		
<ul style="list-style-type: none"> • Long Term: Decarbonisation and wider climate change issues are long term, with goals set for 2030 and beyond • Prevention: ADD 		

<ul style="list-style-type: none"> • Integration: CW02 seeks to 'Further embed decarbonisation into decision making processes, across the Health Board to support the implementation of the DAP' • Collaboration: Working both across Wales with regular session with the other Health Boards and groups in NHS Wales, as well as across the region • Involvement: Close collaboration with the Green Group, supporting and incorporating their ideas into the decarbonisation and sustainability agendas 	
Report History	N/A
Appendices	<ul style="list-style-type: none"> • Appendix 1: Critical path v3.1 • Appendix 2: SBUHB DAP Progress Report • Appendix 3: Financial Assurance

Health & Social Care Climate Emergency National Programme – NHS Wales Decarbonisation Action Plans

Organisation	Swansea Bay University Health Board	Date of Report	14-Sept-22	Report Prepared By	Kerry Broadhead, Head of Strategy Hayley Beharrell, Sustainability Planning Manager
DAP Senior Sponsor	Siân Harrop-Griffiths, Executive Director of Strategy	Finance Allocated to Support Delivery (£s)	£227,518	FTE Resource allocated to support delivery	

Aims and objectives: Wales has legally binding targets to deliver the goal of Net Zero emissions by 2050 this target is underpinned by an ambition for the Public Sector to be collectively Net Zero by 2030. There is a significant opportunity for Wales' health and social care system to lead the way on reducing carbon emissions. Action is needed not only because NHS Wales is the biggest public sector emitter (with a carbon footprint of around 1.00 MtCO₂e which represents approximately 2.6% of Wales's total greenhouse gas emissions) but also because the health and social care system are at the forefront of responding to the impact of the climate and nature emergency on health outcomes. In response the Health and Social Care Climate Emergency National Programme has been established to support both National and Local action across the sector including the delivery of the *NHS Decarbonisation Strategic Delivery Plan 2021-2030*. A key enabling action within the Delivery Plan is the requirement for NHS Organisations to produce Decarbonisation Action Plans (DAP) which form the basis of how organisations are implementing Delivery Plan initiatives and more generally demonstrate the organisation's contribution to the collective ambition and target. This qualitative monitoring return supports the implementation of DAPs and the aims of the National Programme by providing a mechanism for reporting on progress and improvements.

NHS Wales Organisations are asked to report detailing the progress of their contribution to the Climate and Nature Emergency and associated targets as outlined in the organisation's plan (Priority Measure 31).

Reporting Schedule: Progress is to be reported bi-annually. This form is to be submitted on:

- 14 September 2022 (covering the period 1 April 2022 to 31 August 2022)
- 14 April 2023 (covering the period 1 September 2022 to 31 March 2023)

Completed form to be returned to: hss.performance@gov.wales

Please attach a copy of your organisation's Decarbonisation Action Plan which should form the basis of how your organisation is implementing initiatives within the NHS Wales Decarbonisation Strategic Delivery Plan and more generally demonstrate the organisation's contribution to the ambition for the Public Sector in Wales to be collectively Net Zero by 2030 (for NHS Wales this means collectively reducing emissions by at least 34% by 2030) and achieving Net Zero by 2050.

Alongside this qualitative reporting organisations should also report quantitative, organisation level emissions in line with the Welsh Public Sector Net Zero Carbon Reporting Approach and timeline (Priority Measure 30).

Please provide an update on the actions implemented during the current operational year. Reporting should focus on providing evidence of progress and improvement along with key risks to delivery. Reporting can also be provided using the organisation's own reporting dashboard or equivalent if agreed with the Programme Team in advance.

Executive summary of progress to date:
All action owners have commenced work on DAP delivery, facilitated through the Decarbonisation Implementation Group (DIG), chaired by the Head of Strategy, and reporting to the Sustainable Swansea Bay Steering Group (SSBSG), chaired by the Executive Director of Strategy and Management Board, chaired by the CEO. Current performance against agreed actions shows good progress and high levels of commitment from the leads and teams involved. Where progress is impeded or at risk this in the main relates to securing additional resources. Monitoring and data capture processes are in place and working well. The programme has been highly successful in securing internal and external resources to support delivery, establishing a proactive and well attended Staff Green Group and implementing an approved Communications and Engagement Plan.

Summarised at Table 1 is the comparison between **HB emissions data** for 2021/22 and the 2019/20 HB baseline. Due to changes to the baseline emissions factors the majority of the emission reductions and increases are assessed to be highly likely due to data capture changes, including the overall 11.9% emissions reduction. There is a significant increase in procurement emissions (117%) reflecting improvement in non-pay data capture, however changing HB procurement emissions from 53% to 75% of our total emissions. This is likely to increase further going forward as currently only 50% of non-pay spend is captured. Demonstrating a 16% reduction by 2025 through delivery of the DAP will therefore be a significant challenge.

Table 1 Health Board Emissions Data Summary

Aspect	2021-22 Total (tonnes CO ₂ e)	Variance to 2019/20 (%)	Driver
Natural gas	13,837.72	-5.44	Decrease <ul style="list-style-type: none"> Efficiency savings from Re:Fit Onsite renewables and solar farm
Gas oil	736.25	-49.58	Decrease <ul style="list-style-type: none"> In the main due to laundry services transfer to NWSSP,
Fleet vehicles & equipment	300.84	-37.69	Decrease <ul style="list-style-type: none"> 26.3% decrease in miles driven Inclusion of more accurate categories e.g. electric and different size vehicles
Grid electricity	9,997.19	-15.45	Decrease <ul style="list-style-type: none"> Efficiency savings from Re:Fit Onsite renewables and solar farm
Procurement	98,455.40	+116.81	Increase <ul style="list-style-type: none"> Increase in % of non-pay spend cross-referenced to WG categories <p>NOTE: Increase likely year on year as currently the tool captures £326,431,000 of the £631,000,000 of non-pay expenditure</p>
Employee commuting	6,692.21	-10.33	Decrease <ul style="list-style-type: none"> Baseline used number of people employed tool uses FTE Baseline didn't account for deduction of Bank Holidays and average annual leave

Business travel - grey fleet	1,645.04	-25.58	Decrease <ul style="list-style-type: none"> Pandemic resulted in significant drop in 2020-21 from baseline activity increased by 50% on this in 2021-22
Water	112.63	-62.34	Decrease <ul style="list-style-type: none"> Slight reduction in volume supplied and treated (cause unknown) Change to emissions factors
Waste	1,376.82	+1,197.58	Increase <ul style="list-style-type: none"> Tool providing more waste categories, with significantly higher emissions conversion factors e.g. 2020/21 tool was 60kg CO2e to 2021/22 tool using 1074kg CO2e for the same waste disposal method
Land sequestration	153.95	+57.34	Increase: <ul style="list-style-type: none"> More land categories added therefore changing emissions conversion factors
Total (with procurement)	132,432.92	+58.7	
Total (minus procurement)	33,977.52	-9.6	

The **Staff Green Group** launched on 31st March 2022 and holds monthly meetings with representation from clinical and non-clinical roles. Supported by the Health Board the group has launched a staff Sustainability Survey, currently live, and will utilise the results in the SSBSG's future work. The Green Group have also developed four themed sub-groups on:

- Waste & Recycling – linked to actions in 'Our Approach to Healthcare' and working with Estates
- Greener Theatres – supporting the 'Our Approach to Healthcare' section, assessing nitrous oxide with Estates and introducing recycling into theatres
- Sustainable Travel including a Cycle Users Group – supporting the 'Our Travel' section and the Sustainable Travel Project Group, chaired by the Head of Support Services
- Sustainable Food – supporting the 'Our Approach to Healthcare' section and working with Catering and Procurement

Internal funding of £167k has been allocated against five DAP actions:

- CW01: Management Board Training
- TR01: EV Charging Feasibility study
- BU02/BU08: Decarbonisation audits 29 sites

- BU01/EP03: Business case next Phase Re:fit
- TR14/TR15/TR16/TR17/TR18: Sustainable travel strategy

£58,618 of **WG funding** has been secured by the team to deliver staff driven projects linked to the DAP on travel, green teams, green labs, procurement and inhaler recycling.

Significant work has been targeted at our **communications approach** of engaging, encouraging and enabling staff to be agents of change, further building the Health Board narrative on the sustainability and sharing innovation. Recently released communications include:

- Launch of the Swansea Bay Green Group & follow ups
- Re-allocation of non-hospital beds to local families and refugee camps & follow ups
- Launch and promote engagement in delivering the Swansea Bay Healthy Travel Charter
- Bike week events & follow ups
- Hospital's new-look garden a blooming success with patients - new courtyard space for patients at Garngoch
- Building awareness of external funding from Welsh Government
- Release of the sustainability survey to all Health Board Staff
- Promotion of the Green Teams competition for applications and people to join
- Green News article in the First Health Board staff newspaper

	Current RAG Status	Previous RAG Status
Progress RAG: Provide the RAG status of delivery against DAP	Amber to Green	N/A
Delivery confidence RAG: Provide the RAG status of the organisations overall confidence of delivering a minimum of 16% reduction in emissions by 2025	Red	N/A
Route to green including asks of WG		
Health Board		

In order for the Health Board to create a route to 'Green' will require an assessment of each projects potential carbon savings and associated financial costs to improve understanding of the areas with the greatest potential and the costs associated with these. This information would assist with financial planning, identifying appropriate external sources of funding and collaboration opportunities. The Health Board has already:

- Asked all Action Owners to identify where funding is likely to be required, and estimated costs where these are known
- Collaborated with UHBs where DAP costing has been attempted (x 2) to better understand how this has been achieved
- Started exploring options available to secure local emissions and costing data

Additionally, the route to 'Green' will require assessment of larger scale collaboration opportunities across the healthcare sector and with local government and in some instances business and third sector providers. Mapping of external groups and networks the Health Board is engaged in has been undertaken and initial work on possible collaborations in the early stages.

The Health Board is undertaking decarbonisation audits across 30 Health Board's sites which will identify opportunities to reduce carbon and support the route to 'Green', however funding will need to be made available to support such schemes. The Health Board is working to ensure that business cases assess the sustainability case for change and emissions reductions achievable.

Asks of Welsh Government

In summary;

- Development and availability of technical support to UHBs to undertake financial cost/savings and emissions reduction analysis to inform local and national planning
- Clarity of plans to provide financial support in respect of mandated NHS Wales Decarbonisation Strategic Delivery Plan 2021-2030 actions
- Leadership and review of actions on electric vehicles including resolving challenges associated with national and local electrical capacity/infrastructure, supply chain limitations, capital costs and the position in respect of alternative fuels e.g. hydrogen
- Increased opportunities for collaboration including between UHBs to share questions/solutions/ideas and build a collaborative narrative including a Future NHS Collaborative Platform
- An all Wales approach to consistently embedding decarbonisation into future NHS planning and delivery, including healthcare pathways

In Detail;

Technical Support: Development and availability of technical support to UHBs to undertake financial cost/savings and emissions reduction analysis to inform local and national planning

Financial support: Clarity of plans to provide financial support in respect of mandated NHS Wales Decarbonisation Strategic Delivery Plan 2021-2030 actions. Funding for building retrofit and upgrades will be key to SBUHB as the building stock is older, and whilst some efficiency works have occurred there is further scope for improvement subject to available funding. These will be identified in the decarbonisation audits currently taking place.

Leadership: Review of national actions where further clarity is needed to resolve issues for example electric vehicles and charging on NHS sites to resolve challenges associated with national and local electrical capacity/infrastructure, supply chain limitations, capital costs and the position in respect of alternative fuels e.g. hydrogen. Local SBUHB issues include;

- Insufficient electrical infrastructure to install charging facilities e.g. Morriston Hospital substation is at full capacity and requires a [£16 million upgrade](#) (recently developed business case)
- A recent feasibility study identified 140 EV charging spots would be required across nine of our sites, costing £780,000 + VAT to install, this would not include any upgrades to power supplies required at those sites

This, in the context of <1% of total emissions (minus procurement).

Collaboration: Increased opportunities for collaboration including between UHBs to share questions/solutions/ideas and build a collaborative narrative including a Future NHS Collaborative Platform. Assessment of larger scale collaboration opportunities across the healthcare sector and with local government and support for shaping and bringing these to fruition.

All Wales Approach: Facilitate consistent embedding of decarbonisation into future NHS planning and delivery, including healthcare pathways. Some aspects of the DAP require All Wales approaches and are not controlled by UHBs, examples include alterations to business travel expenses, decarbonisation as mandatory training, integration into All Wales projects through alignment of guidance on clinical pathways and Value Based Healthcare.

	Achievements	Risks to delivery
Procurement initiatives	<ul style="list-style-type: none"> • PR01: Standard decarbonisation requirements are included as part of the 15% Social Values award criteria. • PR07: Complete - these criteria are mandated as part of our tender award criteria process. Suppliers are provided with guidance and WG links to provide further information on WBFGA, Social Value and Foundation Economy information • £6,384 funding from Welsh Government for development of materials to support staff and SMEs in sustainable procurement – links to foundational economy 	<ul style="list-style-type: none"> • Increased data capture of carbon emissions associated with increasing trend in procurement emissions • Understanding what the HB can actually control, influence and unable to affect in procurement
Buildings, estates planning and land use initiatives	<ul style="list-style-type: none"> • BU01/EP03: Re:Fit business case completed • BU02/BU08: Funding secured and project awarded for 30 decarbonisation audits to explore opportunities to reduce carbon emissions from our smaller clinical and community sites; including those which are considered as hard to treat. Audits have commenced and are to be completed in the next reporting period • BU11/BU12: Inclusion in Capital Planning business case • EP01: First draft of Estates Strategy complete • EO04/EP05/EP06: Six facet survey considered space utilisation 	<ul style="list-style-type: none"> • The HB has a multi-million-pound estate, with aging building stock, and back-log maintenance • Retrofitting green technology can be costly, highlighting a major capital ask, with significant Welsh capital requirements • BU01: Awaiting funding decision from WG assuming submission by the end of July we will not get a decision on funding before October, now working on detail of what could be delivered this financial year based on approval in October • BU03, BU04, BU05, BU06, BU07, RL01: tentative funding for September – dependent on wider Health Board performance.

		<p>Alternative funding streams are being investigated by the action owner</p> <ul style="list-style-type: none"> • BU10: Deleted as forms part of BU11
Transport initiatives	<ul style="list-style-type: none"> • TR01: Completion of electric vehicle charging infrastructure feasibility study by PodPoint • TR03: Sustainable Travel lead met with the All Wales EV Lead on 5th August 2022 • TR08: Raised with WAST, resulting in a meeting with their EV lead • TR14, TR15, TR16, TR17, TR18 <ul style="list-style-type: none"> ○ £8,664 funding from Welsh Government for tool stations, maps and Dr Bike session ○ Signing the Swansea Bay Healthy Travel Charter and baseline report submitted ○ First Bike Week arranged with events including free breakfasts for cyclists, bike buddies and sharing facility information e.g. showers, lockers, bike racks etc. ○ Creation of a 'Sustainable Travel Project Group' that works with the Green Group and Cycle Users Group ○ Tender issued for a sustainable travel strategy to be developed, decision to be made next quarter 	<ul style="list-style-type: none"> • Electric Vehicles: <ul style="list-style-type: none"> ○ Electrical infrastructure/capacity across Wales ○ Supply chain issues with vehicles ○ Pay back in emissions reduction • Public transport infrastructure is not sufficient to be a viable alternative for staff, patients and visitors. Public transport is largely controlled by private firms and limited by their staff issues, routes, connections between different councils etc. • TR01: Financial investment required, for installation of EV charging points, and ensuring the electrical capacity is sufficient e.g. Morriston Hospital • TR04: Delay to the Electric Vehicle fleet tender, put back one year. Impacts TR05, TR06 and TR07
Approach to health care (service design/models of care, medicines, waste)	<ul style="list-style-type: none"> • AH02: Digital poverty raised with public sector partners and best practice sought to support future projects 	<ul style="list-style-type: none"> • Welsh guidance for recyclable waste streams in hospitals has been delayed • AH01: resources not available to assess the level of homeworking that is feasible in the

	<ul style="list-style-type: none"> • AH03: Agile working guidelines developed, to be published shortly • AH05: £24,600 funding from Welsh Government to run Green Teams competition, recruitment has launched. Collaborative work with Quality Improvement and the Green Group. • AH10: Investigation into NOx use commenced between Estates, Pharmacy and the Anaesthetists team • AH11: £16,570 funding from Welsh Government to support a pilot inhaler recycling scheme initiated by the Upper Valleys Cluster. Creation of a Pharmacy Decarbonisation network that covers Primary Care too. Progress on ScriptSwitch for moving to lower GWP inhalers. Provision of training on GWP of inhalers and how to manage. • AH13: Discussions held with Theatres and awaiting further advice from Welsh Government on waste streams • AH16: Training review initiated (see CW07 in further initiatives) as well as discussions on integrating the Environmental Management System and Decarbonisation Action Plan. Discussions with the Green Group and sharing materials that could be recycled, with Veolia (our waste contractor) 	<p>Health Board – over 13,000 staff with more than 7,000 job descriptions</p> <ul style="list-style-type: none"> • AH12: Waste and recycling services is a national tender let through NWSSP, this has been delayed going to market due to resource issues. Additional delay caused by delay to release of new Welsh Government guidance on recycling, no date for publication by Welsh Government. However, exercise has started to scope costs and logistics for 5 or 7 waste recycling streams • AH01: Deleted as being led nationally
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	<ul style="list-style-type: none"> • £2,400 funding from Welsh Government for Green Labs, supporting Approach to Healthcare in an area not previously considered 	
Further initiatives	<ul style="list-style-type: none"> • CW01: Management Board training booked with Centre for Sustainable Healthcare, to be conducted 24 October 2022 • CW02: Sustainability workshop, including decarbonisation, undertaken during the Strategy Team Time out – over 40 attendees. • CW06: Map of external groups and those attending the sessions • CW07: Training review commenced, including understand the national approach • CW08 & CW09: Approval of Communication and Engagement Plan for sustainability. 10 articles/bulletins and inclusion in the first SBUHB newspaper, regular 250 words for sustainability. Development of the new intranet site for staff, in collaboration with the Green Group, to be published in the next reporting period • Sustainability staff survey released, developed by the Green Group, due to close mid-September 	<ul style="list-style-type: none"> • No comprehensive, mandatory, agreed awareness raising/training programme • Training: competing training modules, and unlikely to be able to make mandatory unless at a national level. Capacity to deliver in-person training and financial constraints in out-sourcing. This will be better understood when CW07 completed. • Training: Risk of duplication across Wales and a need to understand wider Wales projects, including: <ul style="list-style-type: none"> ○ Hywel Dda's introductory video ○ Cwm Taf's e-learning induction module with University of South Wales ○ HEIW developing the Sustainable Healthcare Faculty ○ PHW training review ○ Powys carbon literacy • Financial and workforce capacity constraints to provision of in-house training • Identifying and chasing alternative funding is time consuming, tends to have a tight turnaround, is for in-year, and non-recurrent

Relevant Strategies and Guidance

- [Net Zero Wales](#) sets out the actions needed to meet Wales's second carbon budget (2021-2025).

- [Prosperity for All; A Climate Conscious Wales](#) is the climate change Adaptation Plan for Wales. This plan provides the overarching framework for Adaptation Planning within Health and Social Care.
- [NHS Wales Decarbonisation Strategic Delivery Plan](#) provides an ambitious mandate for National and Local action across NHS Wales including the requirement for NHS organisations to produce Decarbonisation Actions Plans.
- The requirement for NHS Wales to develop plans in response to the Climate Emergency is referenced in the [NHS Wales Planning Framework 2022-2025](#). NHS Wales Chairs have also been briefed on the need for plans to reflect the milestones that need to be achieved to respond to climate change and achieve the goal of the Public Sector being collectively carbon neutral by 2030.
- Best practice and case studies from NHS Organisations can be found:
 - [Home | Green Health Wales | Iechyd Gwyrdd Cymru | Sustainable Healthcare Network](#)
 - [How NHS Wales is responding to the climate emergency | NHS Confederation](#)
- The [Public sector net zero reporting guide](#) provides a guide and reporting requirements for the public sector in Wales to estimate their net carbon footprint, including direct and indirect emissions.