

Board of Directors (in Public)

Item 3.1

Subject: Sustainable Development Management Plan (Green Plan)
Date of Meeting: Tuesday 24th November 2020
Prepared by: Jon Develing, Director of Strategic Partnerships
Presented by: Jon Develing, Director of Strategic Partnerships
Purpose of Report: To Note

BAF Ref	Impact on BAF
IV6	Update on progress against the Sustainability Development Management Plan (Green Plan)

1. Executive Summary

The purpose of this report is to provide an update on the development of the Green Plan with consideration to the impact of Covid-19 and the recently published NHS England commitments as described in 'Delivering a Net Zero National Health Service'. October 2020.

2. Background

The impact of Coronavirus has been brought fresh attention to health inequalities, life chances and economic sustainability. Whilst quite rightly, the immediate focus for Covid-19 is on the management of the pandemic, there remains a responsibility on NHS Trusts and partner organisations to continue a response to the climate emergency, which is also considered as a health emergency.

The challenge of COVID-19 and the peak in demand for personal protective equipment (PPE) has put significant demand on supply with exceptionally high volumes of PPE generating significant amount of single use waste products, plastics and increased carbon consumption.

However not addressing the climate emergency will further exacerbate health inequalities and poor environmental health.

Poor environmental health is a major contributor to cardiac problems, asthma and cancer. There is an interrelationship between the coronavirus pandemic and the environment, which reinforces the need to minimise our impact on the environment and be prepared for climate change

It is the context that the NHS England had published 'Delivering a Net Zero National Health Service' October 2020.

3. Delivering a `Net Zero` National Health Service

Since 2008, the NHS has tracked and reported its carbon footprint, regularly improving its methods and monitoring of progress towards meeting the commitments of the Climate Change Act (2008). Considerable progress has already been made in reducing the NHS Carbon Footprint with meaningful improvements on the 1990 baseline. (62%).

This has been achieved by improvements in the medicines and supply chain, transport and travel, digital innovation, heating and lightning, and will in future be supported by the construction of 40 new `net zero hospitals`.

4. Liverpool Heart and Chest Hospital

The Trust has in place a Sustainability Development Plan (Green Plan) which has considered the following key areas as having achievable outcomes. (Appendix A)

- Energy
- Recyclables
- Procurement
- Travel
- Community Engagement
- Green Culture

Progress against each of these areas are summarised below

Energy – Significant approved capital investments

- The Catheter Laboratory redevelopment
- The Catheter Laboratory roof insulations
- The Electrical infrastructure
- LED lighting
- Staff Health and Wellbeing Hub

Recyclables

The intent to reduce single use items has not been possible due to the high use of PPE and disposables during the covid-19 pandemic.

However improved sharp disposal, itemised bagging in theatres and the introduction of bag to bed systems will have a significant contribution.

The bag to bed system includes specifically designed procedures, education tools and products to ensure optimisation of waste disposal processes at point of care. This provides cost effective, compliant and safe management of healthcare waste whilst contributing to a cleaner patient environment.

The system has now been now trialled in both the Out Patients department and Elm ward and widely accepted by staff in both areas, and the diversion of infectious waste to offensive was 70%.

Proposals for further roll out together with indicative costs are now being developed, early indications from the trial indicate that whilst there would be an initial cost there would be an overall saving on waste costs. Proposals will be brought forward in December.

Procurement

Procurement of PPE has become a priority during the covid pandemic. However respective procurement teams across the specialised trust alliance are now developing approaches to procure goods and services locally to aid economic recovery, and local growth development. In addition, procurement teams are prioritising green products at the forefront of purchasing policy making decisions.

Eco Travel

Electric car technology has advanced rapidly during the last few years. The introduction of reduced personal car tax liability by the government has been implemented in to the fleet car schemes which staff are now able to access.

There is limited opportunity for staff to access charging points for vehicles on the hospital site. In collaboration with other providers on the Broadgreen site a full site survey is being undertaken to explore the viability and benefit of installing additional charging points. This will be completed during December 2020.

Community Engagement

The inclusion of the veteran's covenant, access to Trust apprenticeships have been taken into account within the response to the People Plan.

Go Green Culture

Developing a green culture to waste has been taken into account within the People Plan.

Greater opportunities to recycle will be provided across the Trust with ground works being prepared for recycle stations (Paper, Waster and Glass) in December 2020.

Further Opportunity

In order to accelerate progress the Trust will be making a submission, both independently and in partnership with Liverpool University Hospital, where there are Broadgreen site interdependencies, to a new grant based fund known as the Public Sector Decarbonisation Scheme

The Grant Scheme, run by Salix on behalf of the Department for Business, Energy and Industrial Strategy (BEIS) offers £1bn of grant funding for applications which aligns with BEIS' new mission and priorities:

- fighting coronavirus,
- backing business,
- unleashing innovation
- And tackling climate change.

The scheme also encourages green investment, supporting the Government's net zero and clean growth goals.

The scheme is available for capital energy efficiency and heat decarbonisation projects within public sector non-domestic buildings, including central government departments and non-departmental public bodies in England only.

In addition a new Public Sector Low Carbon Skills Fund (LCSF) has been launched alongside the £1 billion Public Sector Decarbonisation Scheme to provide complementary funding across three activities relevant to the Grant Scheme.

LCSF funding supports the engagement of specialist and expert advice to identify and develop energy efficiency and low carbon heat upgrade projects.

On examination of the criteria and specification, compliant bids would indicate the following as being the most appropriate opportunities for the Trust.

- Full roll out of LED lighting across the Trust
- Replacement of oil fire boilers and transformer upgrades (Combined heat and power)
- Ventilation and Insulations

5. Conclusion

The development of the Catheter Laboratory business case, electrical infrastructure, roof insulation, health and wellbeing hub and LED lighting are some of the largest capital investments in the history of the Trust.

In addition to the strategic significance of delivering world class care with world class facilities these investments will also be a major contributor in improving efficiency and carbon emissions.

As utilisation rates are monitored, it will be essential that any potential increase in usage be offset by efficiency measures elsewhere (for example green energy suppliers). It is therefore essential that every opportunity is taken to install new technologies such as smart metres to fully understand and track energy utilisation.

Whilst progress is being made, our approach to achieving a reduction in carbon emission requires an adaptive approach as changes technology evolves, the regulatory environment changes, fully electric vehicle transportation become more common place and better data (evidence) becomes more available.

This is also recognised by NHS England and indicated in a refreshed National framework "Health and Social Care Sector Climate Change Adaption Report" which will be published in the New Year.

6. Recommendation

The Board of Directors are asked to:

- Note the interdependencies of the Green Plan with the approved business case and associated timescales.
- Note the impact of the Covid-19 pandemic on single use items.

- Note progress to date and the iterative nature of the approach.
- Note the application in development to the Public Sector Decarbonisation Scheme

			Status RAG	Impact	Further Work	Impact	Timetable
 ENERGY	DM	Additional Low Energy Lighting		65%	Replace lighting on an ongoing basis and explore funding opportunities	85%	2020/21
	DM	Reduction in Energy Usage		10%	Obtain funding for installation of energy meters	90%	2020/21
	DM	Reduction of Site Footprint		10%	Identify surplus building and land and prioritise redevelopments	50%	2020/21
	AH	Improvements to Building Management Systems		10%	Boiler replacements have already made significant contributions. Reporting of such benefit needs to be established	20%	2020/21
	DM	Green Energy Systems		75%	Replacement of boiler serving nucleus plantroom (Elm Ward and Birch Ward)	100%	2020/21
	GH	Personal Accountability	NEW	0%	Digital System to implement process and group PC's for shutdown overnight	75%	2020/21
		Energy Alternatives	NEW	0%	Work with partner organisations	50%	2020/21
		Energy Alternatives	NEW	100%	Work with partner organisations	150%	2020/22
 RECYCLE	SH	New Waste Streams to ensure compliance		30%	Implementation of the bag to bed system in all ward areas	100%	2020/21
	SH	Recycling Initiative		60%	Awareness of what is recycled by Waste companies - Introduce local (site wide) recycling initiative "Follow the waste" awareness engage with staff to developed waste champions	90%	2020/21
	SD	Waste Reduction - in line with procurement	NEW		Seek to install new recycling points	25%	2020/21
	SH	Re- use scheme	NEW	0%	Sustainability day attended by Facilities staff - Networking with other Trusts	50%	2020/21
	Steve Doran	Intranet Based eBay system – more sustainable use of current resources	NEW	0%	WARP IT profile, pilot		2020/22
 PROCUREMENT	Steve Doran	Secondary Approvals	NEW	0%	New Policy		2020/22
	Steve Doran	Procurement	NEW	0%	New Policy		2020/22
 Eco Travel	SHOD	Travel	NEW	0%	New initiative required to review - Cycling buying scheme, bus routes walking into work Matt Back Comms, OD	50%	2020/21
	SHOD	Patient transport	NEW	0%	Engage LUHFT and SABA to explore opportunity	50%	2020/21
 GO GREEN	SHOD	Community Engagement/Model Employer		0%	Link with the Trust People strategy and apprenticeship opportunities		2020/22
	SHOD	Veterans Covenant Accreditation		0%	Will liaise with OD - We currently have a Veterans group within the Trust that has been relaunched - SH to link in with OD		2020/21
 Go Green CULTURE	SHOD	Personal Accountability	NEW	0%	Raising awareness campaign will include personal accountability	50%	2020/21
	SHOD	Sponsors	NEW	0%	Raising awareness campaign will include promotion for climate champions	100%	2020/21
	SHOD	Opportunity	NEW	0%	Raising awareness campaign will and engagement with Waste providers will identify opportunities	50%	2020/21
	SHOD	Awareness	NEW	0%	Issue regular communications	100%	2020/21
	SH	Recycle	NEW	0%	Raising awareness campaign will and engagement with Waste providers will identify opportunities	100%	2020/21