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<p>PAPER BOD 135/2011 (Agenda Item: 16)</p>

**Report to the Meeting of the Oxford Health NHS Foundation Trust
Board of Directors**

For Information

28 September 2011

Carbon Management Programme Update

Executive Summary

The carbon reduction programme is on target to achieve a carbon emissions reduction of 600 tonnes by the end of 2011. This has come from reduced energy and some estate rationalisation.

Remaining on target for the years leading up to 2015 will require strong management of heating and room temperatures particularly in non patient areas. Lowering energy consumption is required to make a significant contribution to reducing carbon emissions.

The Green Steps Group continues to be the 'engine room' for innovation and promoting awareness. Additional 'Green Champions' have joined the group which is important because increased staff awareness and the sharing of good practice are another area required to make a significant contribution.

During October the Warneford and Littlemore sites will be surveyed to assess how the buildings and the activities within impact on the environment. This will sign post the way to introducing changes to mitigate the impact these sites have on the environment.

Recommendation

This paper is to inform the Board and to record progress with the Carbon Management Programme.

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1. *A risk assessment has been undertaken around the legal issues that this paper presents and there are no issues that need to be referred to the Trust Solicitors.*

Carbon Management Programme Update

There are five streams to the carbon reduction plan:

- *Ensuring that the major capital investment planned in estate re-provision takes maximum cost effective advantage of the latest technology to reduce carbon emissions.*

The new Highfield development at Warneford Hospital has started and is scheduled to finish by November 2012. The new building is designed to achieve a BREEAM (Building Research Establishment's Environmental Assessment Method) rating of excellent. The rating is assessed using a method that award points for the different elements of the development that mitigate the life cycle impacts of the new building on the environment. It is independently assessed by an accredited assessor and will be monitored at key stages of construction.

The new Manor House development is currently awaiting planning consent. The design of this development is also intended to achieve a BREEAM rating of excellent.

To measure success in both these cases the carbon emissions will be benchmarked to compare old with new.

- *Ensuring that the re-provision in community provision maximises cost effective utilisation of space and minimises carbon emissions.*

Improved space utilisation has enabled the trust to reduce floor space by 850 m² reducing carbon emissions by 60 tonnes. A further 400 m² reduction will be gained by the end of 2011 reducing carbon emissions by a further 40 tonnes. Before 2015 closure of the Tindal Centre and the John Hampden Unit will net a further 5361m² reducing carbon emissions by 622 tonnes.

- *Ensuring that the involvement and engagement of staff initially in representative pilot sites and then in the subsequent roll out across OBMH deploys proven engaging, cost-effective strategies developed by and for staff.*

The Green Steps Group met in August and welcomed new 'Green Champions.'

The work of the staff at Mandalay, one of the pilot sites, provides an excellent example of what can be achieved and this will be shared with other sites. The local champion, Lucia has excelled at making staff and patients aware of energy consumption resulting in reduced heating bills, estimated to have reduced carbon emissions by 5 tonnes during

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FY11. Another initiatives to secure patient awareness has been the development of an organic garden with local council involvement.

Green Steps Champions have asked for an approved energy policy to set out agreed work place room temperatures. A draft policy will be going to the Service and Estates Quality Improvement Committee on 3rd November for approval.

Green Steps has started preparation of an autumn into winter campaign with an emphasis on promoting a practical approach to energy conservation, encouraging staff to wear warmer cloths, avoid overheating, turn down radiator outputs, not using electric heaters, switching off appliances etc.

To underpin the campaign there will be regular publishing of league tables showing trust buildings' energy consumptions and carbon emissions to highlight to staff the effect of their actions.

- *All opportunities to install roof insulation and Voltage Optimisers that deliver a 3-5 year pay back are implemented.*

This work was completed during FY11. However with the much improved ability to monitor energy consumption, poor performing buildings will be more easily identified and assessed for the need of improved roof and cavity insulation. If there are other buildings that would benefit, bids will be submitted for FY13 funding.

Going forward

Staff engagement will continue by building on the achievements of the pilot schemes, increasing the number of champions and with continuous promotion and communication.

Informatics will join the Green Steps group to provide support with developing the opportunities of video conferencing; they will also assess software that will automatically close down computers that are inactive.

Procurement will roll out a new contract for replacement printers that will be high efficiency and have a default setting of 2 sided printing.

The combination of these initiatives is estimated to have the potential to reduce carbon emissions by 230 tonnes.

Accredited BREEAM assessors will complete surveys of the Warneford and Littlemore campus sites. These will provide tangible objectives to how activities and buildings can be adapted and changed to mitigate the impact on the environment at two of the trust's largest sites.

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