

<b>Committee(s):</b> Board of Governors of the Guildhall School of Music & Drama	<b>Date(s):</b> 23 September 2019	<b>Item no.</b>
<b>Subject:</b> Guildhall School Carbon Reduction KPI	<b>Public</b>	
<b>Report of:</b> Jonathon Poyner Director of Operations and Buildings	<b>For Information</b>	

### Summary

Note: this report covers the period 2017/18 where Guildhall School was required to maintain a Carbon Reduction Strategy under Higher Education Funding Council England (HEFCE) requirements. From 2018/19 these requirements will fall under Office for Students (OfS) although as of yet it is not known what requirements for the institutions to have and maintain a carbon reduction strategy will be going forward.

The Guildhall School's original Carbon Reduction Strategy was first approved and published in February 2011, updated in 2014 to include new figures incorporating Milton Court. It was a requirement of HEFCE, now closed, that each Higher Education Institution commits "to monitor progress towards targets regularly and to report publicly annually". This latest update, see table, shows the School's progress against its carbon reduction targets in respect of scopes 1&2.

Scope 1 refers to direct emissions that occur from sources that are owned or controlled by the organisation, e.g. boilers, furnaces and vehicles

Scope 2 accounts for emissions from the generation of purchased electricity

Scope 3 emissions are indirect emissions that organisations produce through their activities but occur from sources not owned or controlled by the organisation e.g. travel, water, waste.

### **Recommendation**

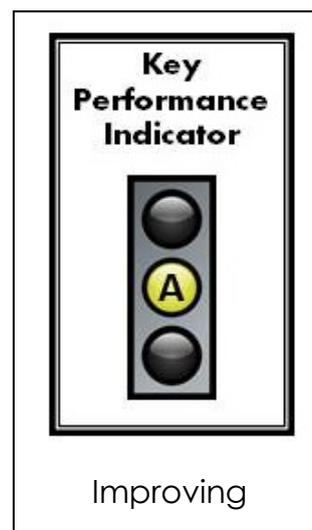
Members are asked to note the report.

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Operations & Buildings Director  
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## Main Report

1. We are pleased to report that activity undertaken in relation to the Carbon Reduction strategy has contributed to the School increasing its People and Planet University League rating by 60 places placing the School in the top half of the UK and first amongst specialist conservatoires and drama schools.
2. The School continues to work with colleagues from the City of London and has with their support undertaken a building energy management survey covering both Milton Court and Silk Street. We continue to review the recommendations and will action them accordingly.
3. We continue to work on our carbon and energy reduction plans, we now have better control and understanding of the systems and reporting data, our equipment has been serviced and repaired, addressing many historic issues. We continue to make improvements such as enhancing awareness activity, upgrading lighting in certain areas of Milton Court to LED and introduction of Computer Aided Facilities Management System (CAFM) to ensure Planned Preventative Maintenance (PPM) programmes.
4. We have reviewed and revised the carbon reduction strategy with many targets being revised, a summary of these changes is included in the main report.



Scope 1 & 2	2019/20 Target in 2014 strategy	Actual as at 2017/18	% Change against baseline	Baseline
Total tonnes CO <sub>2</sub> e for estate (excl Milton Court)	1,167.101	<b>1,002.530</b>	-51%	2,047.545 (2005)
Total tonnes CO <sub>2</sub> e for Milton Court	632.554	<b>830.411</b>	+31%	632.554 (2014)
<b>Total tonnes CO<sub>2</sub>e for enlarged estate</b>	1,799.655	<b>1832.941</b>	- 4%	1,902.032 (2014)
Approx. total area of estate (m <sup>2</sup> )	33,999	<b>33,999</b>		
<b>Tonnes CO<sub>2</sub>e per m<sup>2</sup> of estate</b>	0.053	<b>0.054</b>		

**Table Notes:**

- Milton Court 2014 Baseline is design projections from 2014 Carbon Reduction Strategy
- Total Site 2014 Baseline is against projected total site reduction from 2014 Carbon Reduction strategy

## **Scope 1 & 2 Commentary**

5. We are pleased to report that we have again delivered beyond our 2020 target of reducing scope 1 & 2 carbon emissions by 51% for the estate, excluding Milton Court. In light of this we have redrawn the 2019/20 target to be a 55% reduction against the baseline for the estate excluding Milton Court.
6. Milton Court is still to perform to target which was based on design estimates. These estimates would have made some assumptions regarding the use of the building. The use of the building (including utilisation and type of event) has evolved and the assumptions made would not have taken into account the increase and diversity of activity. We have therefore redrawn the target in line with known emissions, the new target being emissions not exceeding 761.909 Tonnes by 2019/20.
7. As a department of the City of London, the School is represented on the City's Energy Board. Our representatives, (who are working to our Common Platform/Operational Alliance), have been supporting the City in the recent City-wide energy procurement exercise. An important development in 2018 was the decision by the City of London to procure 100% renewable electricity from October 2018 onwards, this now being supplied to the Guildhall School. The Higher Education Statistics Agency (HESA) has advised that electricity supplied through "green tariffs" will not be considered zero carbon and the average grid electricity carbon factor will be applied. For the purposes of reporting and in the interests of consistency we will continue to use the average grid electricity carbon conversion factor.

## **Scope 3 emissions update**

### Waste & Water

8. Our previous targets for emissions from water, waste water and waste were a 30% reduction against 2010/11 levels. We have reviewed performance against these targets and in the latest revision of the Carbon Reduction Strategy have set new targets.
9. Prior to 2013 water use was mainly estimated against Barbican use, the Guildhall School Silk Street supply coming from the main Barbican supply. From 2013 we have metered data for Silk Street and from 2018 for Milton Court, where we have been estimating on a consumption per m2 basis against the Silk Street Supply. Due to the more accurate and increased data we have re-set the baseline year to be 2013/14 with a 15% reduction in emissions from water and waste water by 2019/20.
10. We have vastly exceeded the target for waste achieving a 93% reduction, this due to waste previously sent to landfill now going to energy recovery which entails a much lower carbon conversion factor. Waste weights up until recently were estimated by our contractor, we have now appointed a new contractor who has promised to provide us with actual weights, this may mean an increase in in the figures so we have set a conservative target of 90% reduction of emissions from waste by 2019/20 compared to the 2010/11 baseline.

11. As part of our ground-up review we are looking at source data which has identified inconsistencies in metering and readings for water. Waste weights are estimated by our contractor against the number of bins being taken off site. We are currently developing our monitoring and targeting systems to ensure consistency and accuracy. A review of baseline and targets currently 30% reduction against 2010 is planned to be carried out once accurate and verifiable data is available.

### Travel

12. The last analysis of carbon emissions from travel was undertaken in 2014 with the staff travel survey in 2015. A student travel survey was undertaken again in 2018 however the response rate was disappointing, not giving us a large enough data set to calculate the emissions. We will undertake student and staff travel surveys in 2019 with a robust communications plan.

### Conclusion

13. We continue to gain better control and understanding of the systems and reporting data. Results show the benefits of our change programme and alliance approach.

14. The School's current Carbon Reduction Strategy runs until 2020. Once any funding or other requirements are known a new long term strategy will be drawn up. We are currently working with our colleagues from the City of London to develop a consistent approach to measuring Scope 3 emissions which aren't included in the current strategy.

15. We are pleased also to report that activity undertaken in relation to the Carbon Reduction strategy has contributed to the School increasing its People and Planet University League rating by 60 places placing the School at 77<sup>th</sup> out of 154 institutions in the league table placing the School in the top half of the UK and first amongst specialist conservatoires and drama schools.

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