

Summary of key findings



Sustaining Great Art and Culture

Environmental Report 2018/19



1. Meeting funding requirements on environmental reporting, policies and action plans

There are 828 organisations (with a total of 841 funding agreements) in the 2018-22 portfolio, 20% more than in 2015-18, including 184 new organisations.. The level of reporting on environmental impacts in 2018-19 was the same as in 2017-18, even though 22% of organisations were new to environmental reporting.

Benefits of environmental action and engagement

- **833** (99%) signed up to the Creative Green reporting tools
 - **74** (9%) didn't report at all
 - **747** (89%) submitted environmental data
 - **19** (2%) were exempt from reporting for reasons such as building closure
 - **775** (92%) submitted an environmental policy
 - **738** (88%) submitted an environmental action plan
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2. What NPOs thought of the environmental programme

Based on 168 organisations or 20% responding to the annual environmental programme survey

Based on 168 organisations or 20% responding to the annual environmental programme survey

- **80%** say reporting helps to better understand impacts
 - **77%** say the programme can make or has made a positive difference to their organisation
 - **88%** say the programme can make or has made a positive difference to the sector as a whole
 - **75%** say it is very important for the Arts Council to continue to ensure environmental support for NPOs
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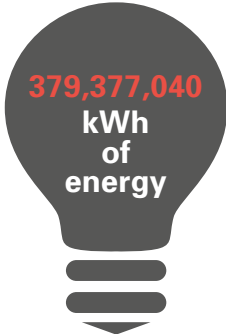
3. Environmental impacts 2018-19

747 NPOs or 89% reported on impacts across 646 venues, 508 offices, 105 events, 256 tours and 76 productions.

The total carbon footprint of 114,547 tonnes CO₂e is based on the most commonly reported impacts (energy, water, waste, business travel and touring).


21,005,741 km
business travel

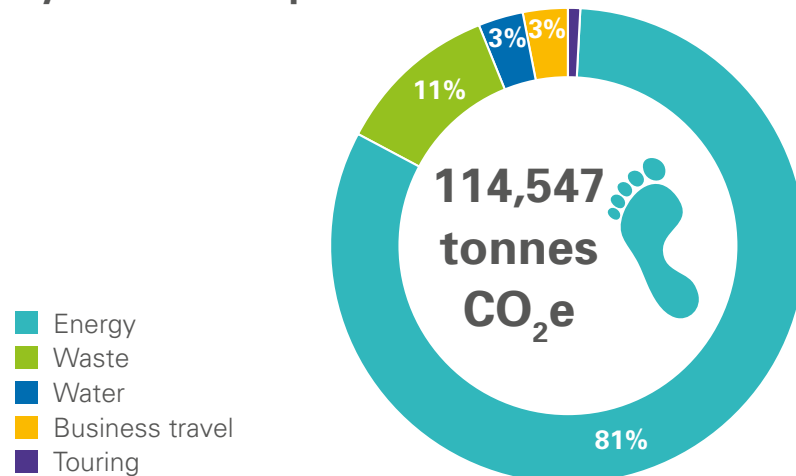

154,434
tonnes waste


379,377,040
kWh of energy

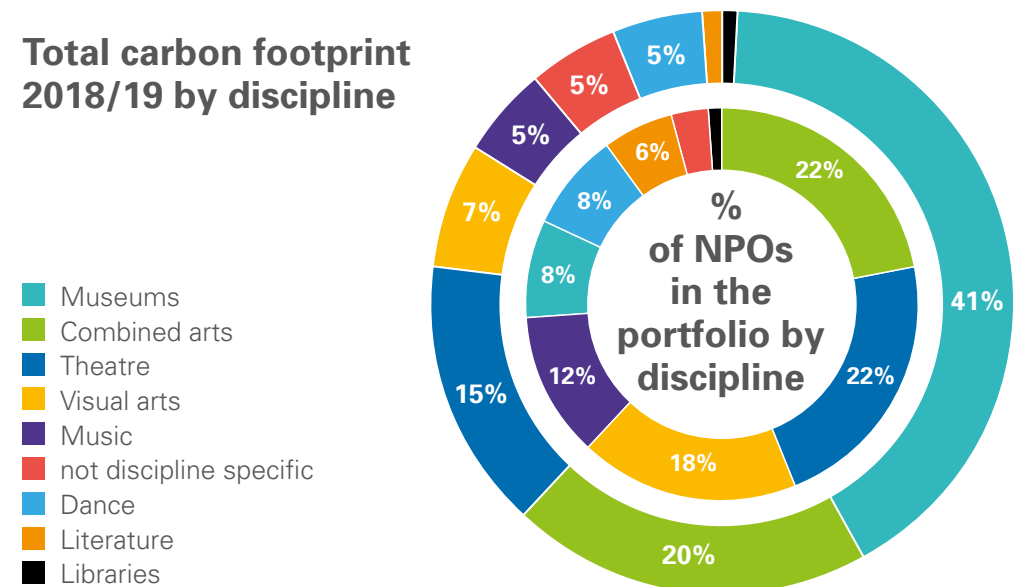

7.2
billion
litres water

5,905,333 km
touring travel
and transport


Total carbon footprint 2018/19
by source of impact



Total carbon footprint 2018/19
by discipline



Bottled gas, diesel (for generators), production materials and audience travel data were excluded as there was a very low level of reporting on these impacts. In addition, where audience travel is reported it is generally based on rough estimates.

ENERGY	kWh	% of total kWh	cost	tonnes CO2e	% of total tonnes CO2e
Electricity	192,419,000	51%	£21,166,090	59,111	63%
Gas	185,051,000	49%	£5,551,530.00	34,042	37%
On-site renewables	1,907,040	1%	NA	0	0%
TOTAL	379,377,040		£26,717,620	93,153	

WASTE	tonnes waste	% of total tonnes	tonnes CO2e	% of total tonnes CO2e
Landfill	16,921	11%	9,924	77%
Energy from waste	95,232	62%	2,036	16%
Recycling	40,127	26%	858	7%
Compost	2,153	1%	22	0.2%
TOTAL	154,434		12,841	

WATER	cubic metres	% of total cubic metres	tonnes CO2e	% of total tonnes CO2e
Water	3,828,420	53%	1,317	36%
Wastewater	3,341,590	47%	2,366	64%
TOTAL	7,170,010		3,683	

BUSINESS TRAVEL	km	% of total km	tonnes CO ₂ e	% of total tonnes CO ₂ e
Road	3,359,076	16%	607	18%
Rail	5,542,337	26%	245	7%
Plane*	12,104,328	58%	2,501	75%
TOTAL	21,005,741		3,353	

* BUSINESS TRAVEL PLANE	km	% of total km	tonnes CO ₂ e	% of total tonnes CO ₂ e
Domestic	306,744	3%	92	4%
Short-haul	1,957,174	16%	318	13%
Long-haul	9,840,410	81%	2,092	84%
TOTAL	12,104,328		2,501	

TOURING	km	% of total km	tonnes CO ₂ e	% of total tonnes CO ₂ e
Road	917,399	16%	166	11%
Rail	1,586,670	27%	70	5%
Plane*	2,388,214	40%	489	32%
FREIGHT	5,905,333		1,517	

*TOURING PLANE	km	% of total km	tonnes CO ₂ e	% of total tonnes CO ₂ e
Domestic	160,732	7%	48	10%
Short-haul	654,172	27%	106	22%
Long-haul	1,573,310	66%	334	68%
TOTAL	2,388,214		489	

4. Spotlight group results and targets

The Spotlight Programme is focused on energy management and carbon reduction and covers 30 organisations across 80 sites, some of the Art Council's portfolio's biggest buildings and energy users.

	kWh	% of total kWh	tonnes CO2e	% of total CO2	cost
Electricity	61,706,348	48%	18,956	61%	£6,787,698.00
Gas	64,447,862	50%	11,856	38%	£1,933,436.00
District heating	1,584,000	1.2%	297	1%	NA
On-site renewables	813,796	0.6%	0	0%	NA
Total cost £	128,552,006		31,109		£8,721,134.00

The cost is based on kWh of electricity and gas consumption, applying average tariffs of 11 pence per kWh of electricity and 3 pence per kWh gas, referencing the Department of Business, Energy and Industrial Strategy's '[Prices of fuels purchased by non-domestic consumers in the UK](#)'. The cost of onsite renewable energy and district heating was is not covered.

The Spotlight group makes up 33% of the total energy footprint of the whole reporting group – 747 organisations across approx. 1150 sites

	Spotlight group	Whole group
ENERGY FOOTPRINT	31,109 tonnes CO2e	93,153 tonnes CO2e
ENERGY SPEND	£8.7 million	£26.7 million
% OF ELECTRICITY PURCHASED ON A GREEN TARIFF	39%	32%

22 organisations had energy data going back to 2012-13 across 48 sites. An analysis of this data showed a 16% reduction in energy use, a 15% reduction in cost and an 41% reduction in emissions over six years. The emissions reductions is due in part to demand side changes i.e. energy saving and in part to supply side changes i.e. a reduction in the carbon intensity of the UK energy supply.

	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	Total reduction	Annual reduction
Total kWh	103,913,080	99,372,972	96,329,962	95,079,776	92,147,757	76,792,226	87,624,140	-16%	-3%
Total emissions tonnes CO₂e	37,073	35,276	36,366	33,411	29,863	22,712	21,794	-41%	-7%
Total cost £	£7,440,799.00	£7,255,015.00	£7,099,239.00	£6,872,219.00	£6,654,858.00	£5,727,093.00	£6,312,373.00	-15%	-3%

Comparing emissions over time under a business as usual (BAU) scenario i.e. no change in emissions with actual emissions based on the group of 22 organisations with data for 48 sites back to 2012-13 – 43,016 tonnes of CO₂e were avoided over six years.

	BAU emissions tonnes CO ₂ e	actual emissions tonnes CO ₂ e	avoided emissions tonnes CO ₂ e
2012/13	37,073	37,073	0
2013/14	37,073	35,276	-1,797
2014/15	37,073	36,366	-707
2015/16	37,073	33,411	-3,662
2016/17	37,073	29,863	-7,210
2017/18	37,073	22,712	-14,361
2018/19	37,073	21,794	-15,279
Total	259,511	216,495	-43,016

5. Potential avoided emissions and costs

Potential savings are expressed as avoided energy use emissions and costs over time starting from 2018-19 and estimated by calculating the difference between:

1) cumulative energy use emissions and spend over time based on purchased electricity and gas under a 'business as usual' scenario i.e. no change in energy use and the carbon intensity of UK grid energy, and

2) cumulative energy use emissions and spend over time based on purchased electricity and gas and the pathway to zero carbon cultural buildings by 2050 identified through the Spotlight programme assuming:

- a 2% annual reduction in energy use
- electrification of buildings i.e. conversion from gas heating to heat pumps
- continued decarbonisation of UK grid electricity

Both calculations assume constant electricity and gas prices of 11 pence per kWh and 3 pence per kWh respectively over time.

Potential avoided emissions and costs 2018-19 to 2021-22:

**Spotlight group:
12,300 tonnes CO₂e
and £0.5 million**

**Whole group:
36,500 tonnes CO₂e
and £1.5 million**

Potential avoided emissions and costs 2018-19 to 2029-30:

**Spotlight group:
122,100 tonnes CO₂e
and £6 million**

**Whole group:
364,300 tonnes CO₂e
and £18.9 million**

Spotlight group

	BAU emissions based on 2018-19 baseline – tonnes CO ₂ e	Emissions based on zero carbon pathway savings	BAU vs. zero carbon pathway emissions	BAU energy costs based on 2018-19 baseline	Costs based on zero carbon pathway	BAU vs. zero carbon pathway costs
2018/19	30,812	30,812	0	£8,721,134.00	£8,721,134.00	£0.00
2019/20	30,812	29,597	1,216	£8,721,134.00	£8,546,711.00	£174,423.00
2020/21	30,812	28,417	2,395	£8,721,134.00	£8,375,777.00	£345,357.00
2021/22	30,812	22,168	8,644	£8,721,134.00	£8,788,415.00	-£67,281.00
2022/23	30,812	20,949	9,863	£8,721,134.00	£8,612,647.00	£108,487.00
2023/24	30,812	19,770	11,042	£8,721,134.00	£8,440,394.00	£280,740.00
2024/25	30,812	18,629	12,183	£8,721,134.00	£8,271,586.00	£449,548.00
2025/26	30,812	17,526	13,286	£8,721,134.00	£8,106,155.00	£614,979.00
2026/27	30,812	16,460	14,352	£8,721,134.00	£7,944,031.00	£777,103.00
2027/28	30,812	15,430	15,382	£8,721,134.00	£7,785,151.00	£935,983.00
2028/29	30,812	14,434	16,378	£8,721,134.00	£7,629,448.00	£1,091,686.00
2029/30	30,812	13,472	17,341	£8,721,134.00	£7,476,859.00	£1,244,275.00
Avoided emissions 18-19 to 21-22			12,254	Avoided costs 18-19 to 21-22		£452,498.00
Avoided emissions 18-19 to 29-30			122,080	Avoided costs 18-19 to 29-30		£5,955,300.00

Whole group

	BAU emissions based on 2018-19 baseline – tonnes CO ₂ e	Emissions based on zero carbon pathway savings	BAU vs. zero carbon pathway emissions	BAU energy costs based on 2018-19 baseline	Costs based on zero carbon pathway	BAU vs. zero carbon pathway costs
2018/19	93,153	93,153	0	£26,717,620.00	£26,717,620.00	£0.00
2019/20	93,153	89,421	3,732	£26,717,620.00	£26,183,268.00	£534,352.00
2020/21	93,153	85,802	7,351	£26,717,620.00	£25,659,602.00	£1,058,018.00
2021/22	93,153	67,714	25,439	£26,717,620.00	£26,844,422.00	-£126,802.00
2022/23	93,153	63,990	29,163	£26,717,620.00	£26,307,534.00	£410,086.00
2023/24	93,153	60,387	32,766	£26,717,620.00	£25,781,383.00	£936,237.00
2024/25	93,153	56,904	36,249	£26,717,620.00	£25,265,755.00	£1,451,865.00
2025/26	93,153	53,535	39,618	£26,717,620.00	£24,760,440.00	£1,957,180.00
2026/27	93,153	50,278	42,875	£26,717,620.00	£24,265,231.00	£2,452,389.00
2027/28	93,153	47,130	46,023	£26,717,620.00	£23,779,927.00	£2,937,693.00
2028/29	93,153	44,088	49,065	£26,717,620.00	£23,304,328.00	£3,413,292.00
2029/30	93,153	41,149	52,004	£26,717,620.00	£22,838,242.00	£3,879,378.00
Avoided emissions 18-19 to 21-22			36,522	Avoided costs 18-19 to 21-22		£1,465,568.00
Avoided emissions 18-19 to 29-30			364,286	Avoided costs 18-19 to 29-30		£18,903,688.00

6. Type of environmental action and engagement NPOs are undertaking and what benefits this brings

Based on 352 organisations / 42% completing the 'Beyond carbon' section of the Creative Green Tools

Environmental action and engagement

- 28% offer environmental training and professional development to staff
- 38% have director/board level representatives with a specific environmental remit
- 35% undertaking environmental collaboration with peers
- 49% have produced, programmed or curated work exploring environmental themes
- 24% facilitating environmentally-themed activities and campaigns for local communities
- 64% taking steps to eliminate single-use plastics
- 29% committed to sustainable food sourcing
- 47% trialling sustainable production or exhibition methods
- 29% with an ethical sponsorship or partnerships policy

Benefits of environmental action and engagement

- 81% improved team morale
- 77% environmental policy useful for funding applications
- 66% financial benefits
- 50% reputational benefits
- 50% new creative or artistic opportunities

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BACK COVER – In Between Time. Fog Bridge, Fujiko Nakaya. Presented in partnership with Bristol2015, Green Capital. Photo © Max McClure