

CREATIVE



Live Theatre

CREATIVE GREEN REPORT
2016/17

Live Theatre

CREATIVE GREEN KEY RESULTS

Environmental assessment of:

COMMITMENT	34 / 40
UNDERSTANDING	17 / 25
IMPROVEMENT	10 / 35

TOTAL POINTS 61 / 100



COMMITMENT to the environment

- ✓ Policy
- ✓ Action plan
- ✓ Integration with core organisational development
- ✓ Staff roles and responsibilities
- ✓ Procurement policy
- ✓ Communication and engagement with key stakeholders



UNDERSTANDING of the following environmental impacts



energy



emissions



water



waste



travel



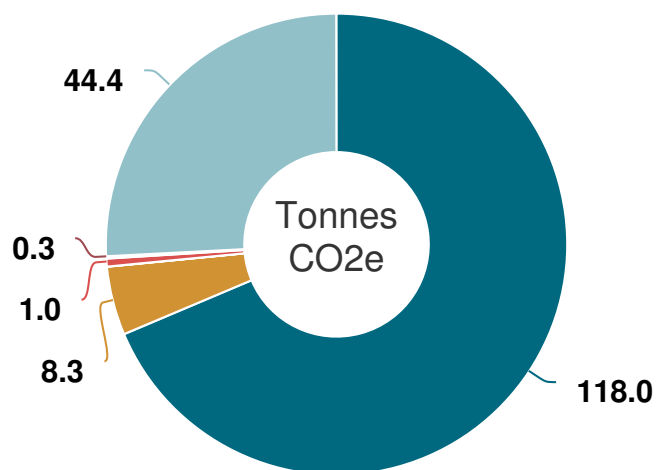
people



IMPROVEMENT towards reducing environmental impacts

RELATIVE REDUCTION	ENERGY	EMISSIONS	WATER	WASTE	TRAVEL
Current vs previous year	↑	↑	↓	↑	↑
Current vs baseline year	↓	↓	↓	↓	↑

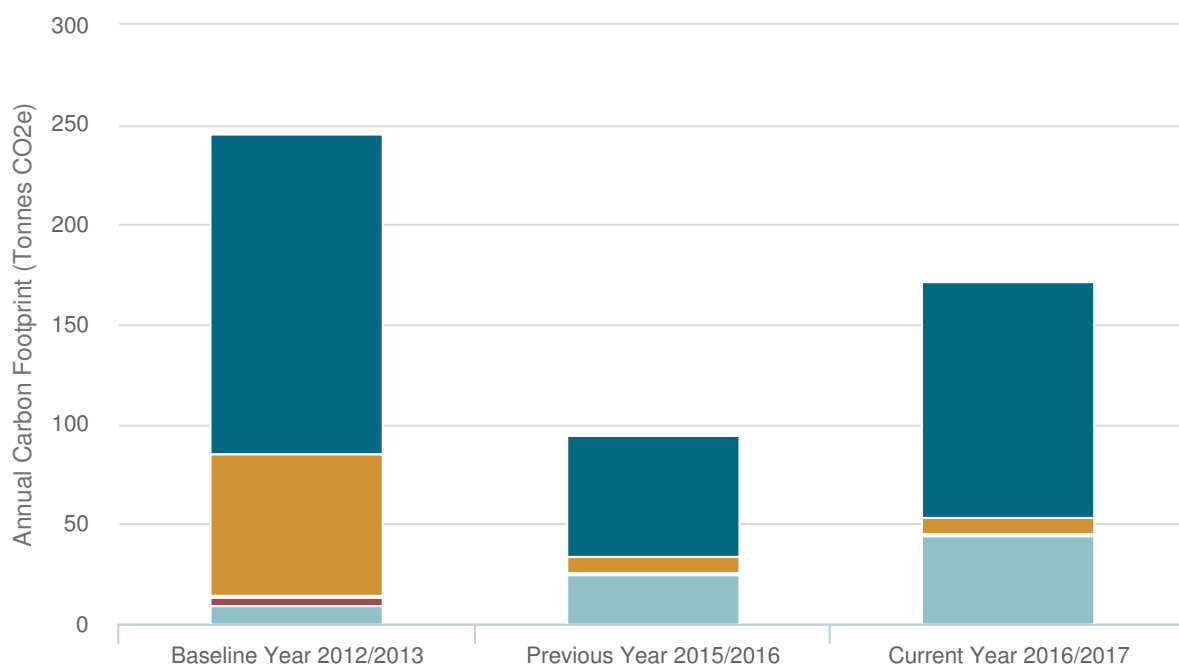
LIVE THEATRE		STATISTICS
Type		venue
Floor area		2,510
Tickets sold		29,880
Number of performances		1,501
Number of staff		25



Note: All figures are rounded

The total carbon footprint in 2016/2017 was 172 Tonnes CO2e

- Electricity
- Gas
- Total water use and waste water
- Waste
- Transport



HIGHLIGHTS



COMMITMENT to the environment

- Extensive Environmental Policy that includes a departmental breakdown with department specific goals.
- Environmental Action Plan which scopes goals for each action point and also includes resources needed, progress, and target completion dates.
- Live Theatre's new Corporate Plan is aligned with the environmental policy and action plan and environmental sustainability is embedded across all departments.
- Established Green Team in place with representatives from all departments who meet regularly to discuss Live Theatre's sustainability capabilities.
- Formal recognition of environmental responsibilities in all employees' job descriptions.
- Sourcing of fairtrade products for the in-house bar, local independent caterers and non-plastic refreshment packaging and serveware.
- Key suppliers and contractors chosen on the basis of their green credentials and in alignment with Live Theatre's Environmental Policy.
- Communication and engagement with the professional community on environmental sustainability through the NGCV network e.g. sharing best practice and pooling resources for bigger impacts etc.

UNDERSTANDING of the following environmental impacts

- In-depth understanding of energy use through weekly electricity and gas meter readings via Pilio energy management software.
- Monitoring of water use on a weekly basis using demeter and analysis conducted for any anomalous readings.
- Detailed reports of waste data with a commitment of zero waste-to-landfill from waste contractor.
- Monitoring of all staff travel, with work being done to increase the use of public transport and monitoring of audience travel through the NGCV audience travel survey.

ABOUT CERTIFICATION



Creative Green is more than a certification scheme - it's an international community of pioneering creative and cultural organisations, recognised for their ambition and action on environmental sustainability. With over 250 certificates awarded since its launch in 2009, Creative Green remains the only environmental certification designed specifically for the creative and cultural sector.

Creative Green offers venues, museums, galleries, festivals and offices a transparent, methodical and inspiring framework for achieving environmental best practice, as well as a forum for recognition and celebration. It supports organisations' environmental impact reductions through its three strands: Commitment, Understanding and Improvement. Points are accrued within each strand and a one to five star certification is awarded based on the total number gained.

The methodology of Creative Green follows best practice and international standards for measurement, reporting and reduction of environmental impacts and it has been designed in partnership with arts, cultural and entertainment organisations.

The continuing emphasis on carbon emissions reductions align the Creative Green community to the ambitions of the Paris Agreement, reached at COP21 in 2015, to keep global temperatures well below 2 degrees of warming.

ASSESSMENT AREAS

COMMITMENT

- Environmental policy and action plan
- Integration of environmental sustainability in broader business mission, strategy or planning
- Environmental responsibilities
- Environmental procurement and sourcing
- Stakeholder communications and engagement

UNDERSTANDING

- Breadth and depth of understanding of environmental impacts
- Extent to which environmental data is used inform action and track progress in reducing impacts

IMPROVEMENT

- Quantifiable reductions in direct environmental impacts, i.e. impacts over which an organisation has direct control such as energy use and waste generation, both total relative impacts
- Actions to address indirect environmental impacts, i.e. impacts over which an event has limited or no direct control, such as audience travel



ENVIRONMENTAL COMMITMENT

ASSESSMENT AREAS	POINTS AVAILABLE	POINTS AWARDED
Policy, strategy & responsibilities	12	12
Procurement	5	4
Communication and engagement	23	18
Total Points	40	34

HIGHLIGHTS

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RECOMMENDATIONS

- Align with Paris Agreement and the Sustainable Development Goals (SDGs) in Live Theatre's policy to place the theatre's commitment in the wider global context.
- State in the environmental policy why environmental sustainability is relevant to Live as an arts organisation.
- Ensure each area of activity in the Action Plan has a named individual responsible for each action point.
- Ensure the procurement policy and procedures are aligned with the environmental policy, including environmental clauses relating to products and services.
- Imbed green messaging in internal communication channels e.g staff newsletter, social media, email bulletins, green notice boards.
- Further engage with employees, artists and visitors on reducing environmental impacts through initiatives such e.g. behaviour change campaigns, creative projects, public campaigns (i.e Earth Day) etc.
- Develop environmental programming and contribute to [Season for Change 2018](#).

ENVIRONMENTAL UNDERSTANDING

ASSESSMENT AREAS	POINTS AVAILABLE	POINTS SCORED
Submission of energy, water, waste, transport, production	4	4
Attitudinal insights	4	1
In-depth understanding of energy, water and waste	8	8
Monitoring of other impact	3	2
Use of data for setting targets and Key Performance Indicators in policy and action plans	4	2
Evaluation of learning and outcomes	2	0
Total Points	25	17

HIGHLIGHTS

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RECOMMENDATIONS

- Use environmental impact data to set meaningful Key Performance Indicators (KPIs) for each environmental impact and include these in Live Theatre's Action Plan.
- Ensure weekly meter reading data for energy is being analysed and used to optimise energy efficiency opportunities onsite.
- Consider developing an Environmental Attitudes Survey for employees and/or audiences to develop an understanding of Live Theatre's stakeholder's engagement and interest in environmental sustainability.
- Consider monitoring other sources of environmental impact to increase understanding and identify further environmental measures e.g. take a thermal image survey to see where heat loss is occurring and if these areas can be sealed, recording the food miles of any locally-sourced products being sold and tracking paper usage for printing/marketing/publications etc.
- Investigate sustainable environmental practices for any touring connected to Live Theatre (read the Julie's Bicycle [Touring Guide](#)).

ENVIRONMENTAL IMPROVEMENT

HIGHLIGHTS

Current year: 2016/2017

Baseline: energy use 2012/2013, energy related emissions 2012/2013, water use 2011/2012, waste generation 2011/2012, and business travel 2013/2014

This tables present your percentage change in environmental impacts in absolute and relative terms against the previous and baseline years.

ABSOLUTE	CURRENT VS. BASELINE	CURRENT VS. PREVIOUS	POINTS AVAILABLE	POINTS AWARDED
Energy use	-53 %	10 %	3	0
Energy use related emissions	-49 %	83 %	3	0
Water	-2 %	-5 %	2	2
Waste	-59 %	18 %	2	0
Transport	374 %	81 %	2	0
Total Points			12	2

RELATIVE	RELATIVE METRIC	CURRENT VS. BASELINE	CURRENT VS. PREVIOUS	POINTS AVAILABLE	POINTS AWARDED
Energy use	per Performance	-69 %	14 %	5	2
Energy use related emissions	per Performance	-66 %	89 %	5	2
Water	per Visitor	-25 %	-3 %	4	2
Waste	per Visitor	-69 %	20 %	4	1
Transport	per Employee	355 %	89 %	4	0
Total Points				22	7



ENVIRONMENTAL IMPROVEMENT

RECOMMENDATIONS

Achievements

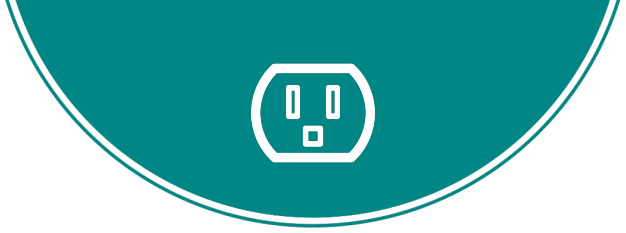
- Energy use per performance decreased by 69% between 2012/13 and 2016/17.
- All waste is recycled so that Live Theatre is now a zero waste-to-landfill organisation.

Next Steps: Onsite

- Advocate for an energy supplier that matches 100% of your usage with renewable energy. See [Julie's Bicycle Renewable Energy Factsheet](#).
- Look at the feasibility of installing renewable energy infrastructure onsite e.g. solar PV.
- Continue developing energy management good practice. See [ISO500001](#) for best practice advice.
- Continue developing water saving initiatives e.g. investigate mechanisms to recycle any left over water; work with catering concessions on reducing water use.
- Maintain zero waste-to-landfill policy while aiming to reduce total waste e.g. work towards paperless systems, provide tap water in glass jugs to discourage the use of plastic bottles.
- Investigate carbon offsetting options for transport related emissions which are unavoidable.

Next Steps: Communications and Engagement

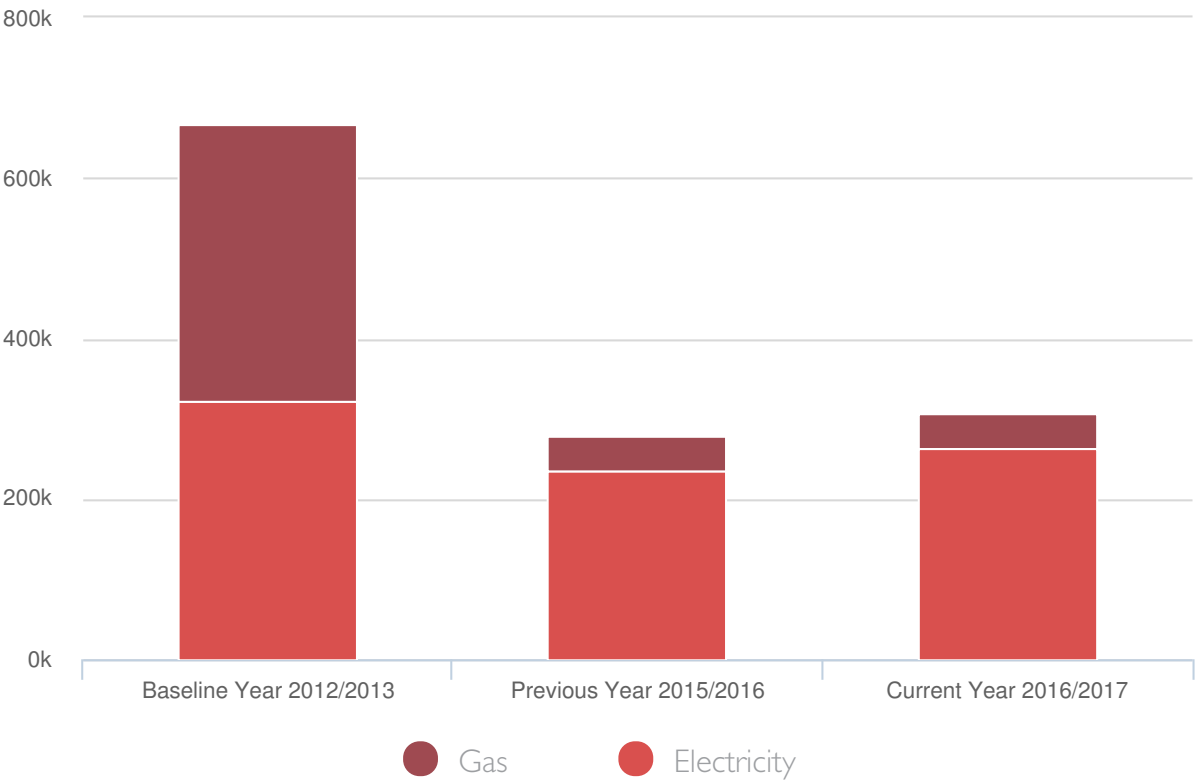
- Ensure all staff onsite have access to the Environmental Policy and are familiar with the environmental impacts and initiatives in place in their departments.
- Create a page on the new website which includes the environmental policy and states the ambitions and plans going forward and how audiences can get involved.
- Ensure to advocate and promote your environmental ambitions with all partners and tenants, including the creative writing workshop and the bars/restaurants.
- Remain an active contributor to the NGCV network to engage with the professional and local community, investigating opportunities for collaborations and shared learnings.
- Ensure there is join up between practical actions onsite and relevant programming/curation to reinforce and amplify one another. Sign up for [Season for Change 2018](#).



ENERGY USE

ENERGY USE	UNIT	BASELINE YEAR 2012/2013	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use (electricity and gas) -- absolute	kWh	667,280	277,392	307,767	10 %	-53 %
Electricity	kWh	321,477	234,635	262,676	11 %	-18 %
Gas (weather normalised)	kWh	345,803	42,757	45,091	5 %	-86 %
Energy use (electricity and gas) -- relative	kWh per Performance	3,133	833	956	14 %	-69 %
Electricity	kWh per Performance	1,509	705	816	15 %	-45 %
Gas (weather normalised)	kWh per Performance	1,623	128	140	9 %	-91 %
Mains electricity - absolute	kWh	321,477	234,635	262,676	11 %	-18 %
Mains gas - absolute	kWh	450,150	47,013	48,862	3 %	-89 %
Weather gas normalised - absolute	kWh	345,803	42,757	45,091	5 %	-86 %

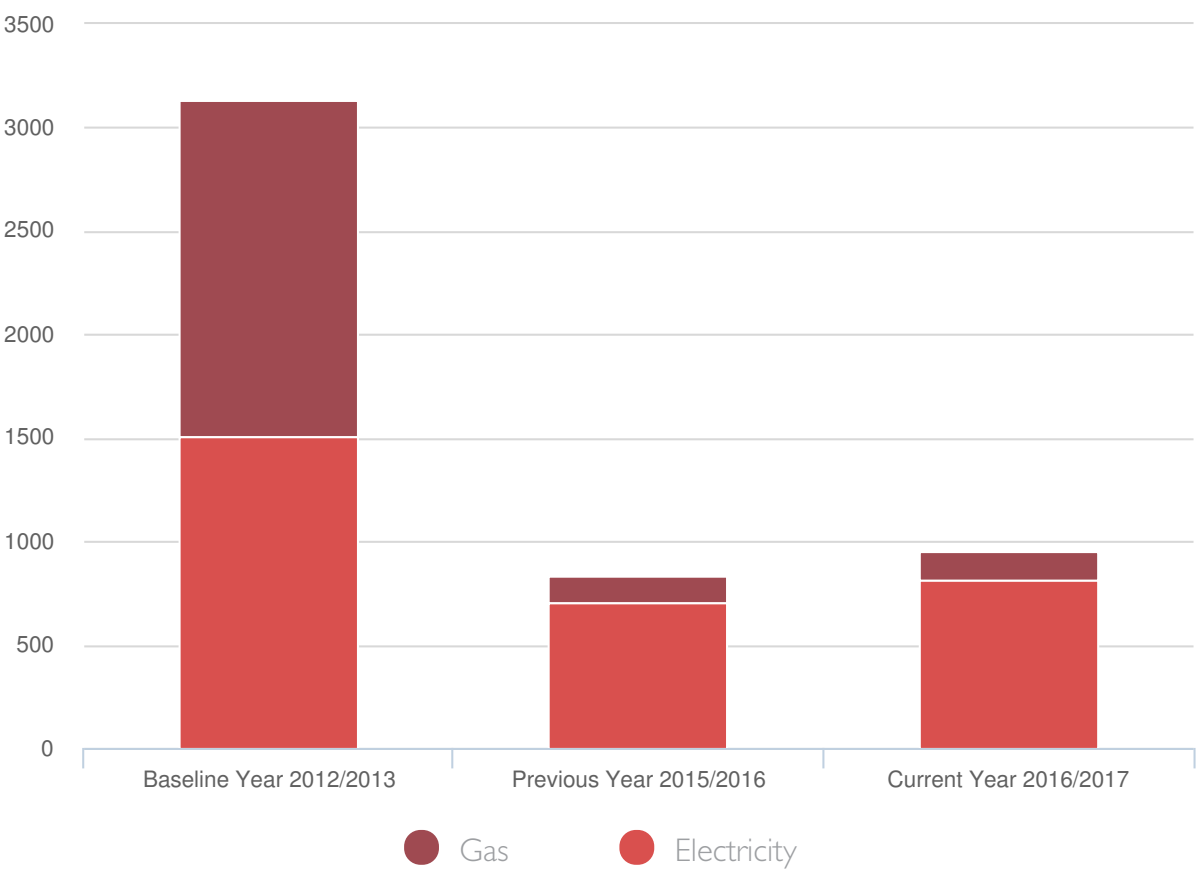
Energy consumption (kWh)





ENERGY USE

Energy consumption (kWh per performance)

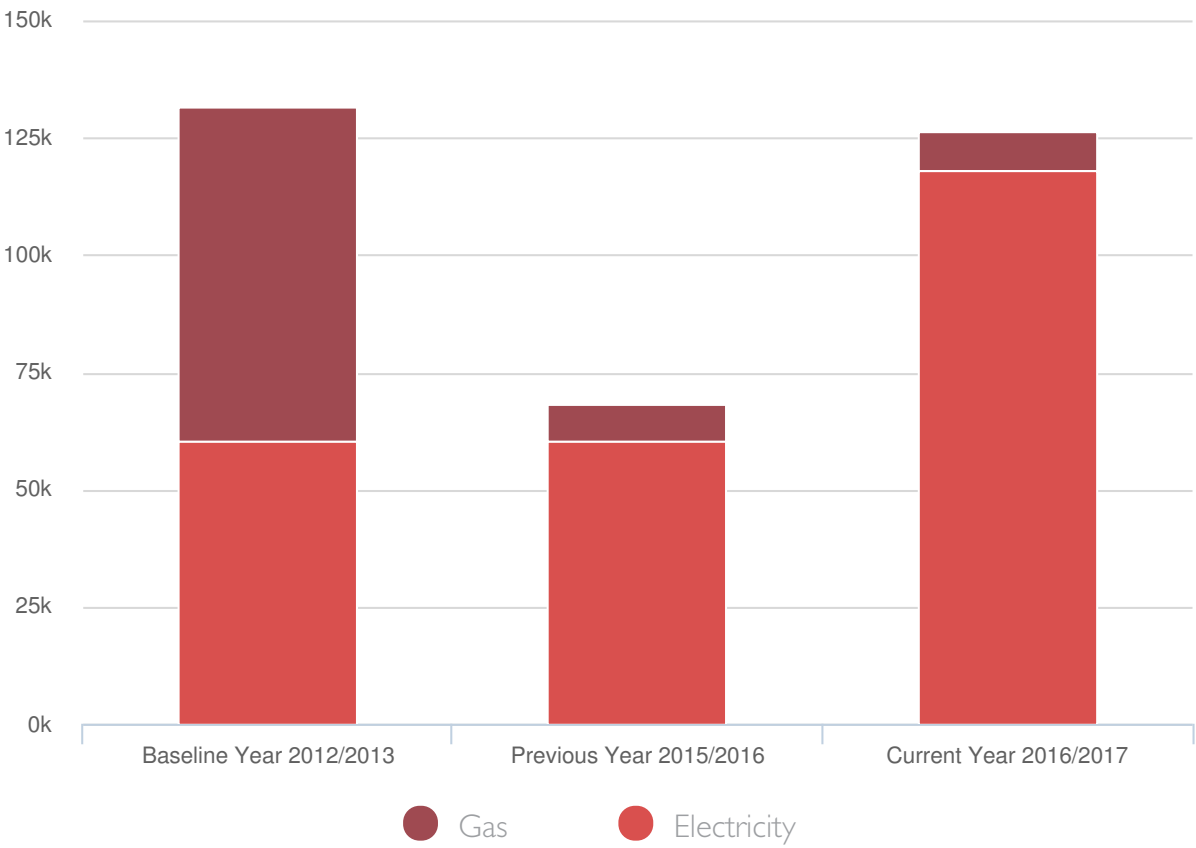




ENERGY USE RELATED EMISSIONS

ENERGY RELATED EMISSIONS	UNIT	BASELINE YEAR 2012/2013	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use emissions (all sources) - absolute	kg CO2e	252,074	69,207	127,016	83 %	-49 %
Energy use emissions (all sources) - relative	kg CO2e per Performance	1,183	208	394	89 %	-66 %
Electricity	kg CO2e	159,568	60,536	118,026	94 %	-26 %
Normalised gas	kg CO2e	71,063	7,886	8,297	5 %	-88 %

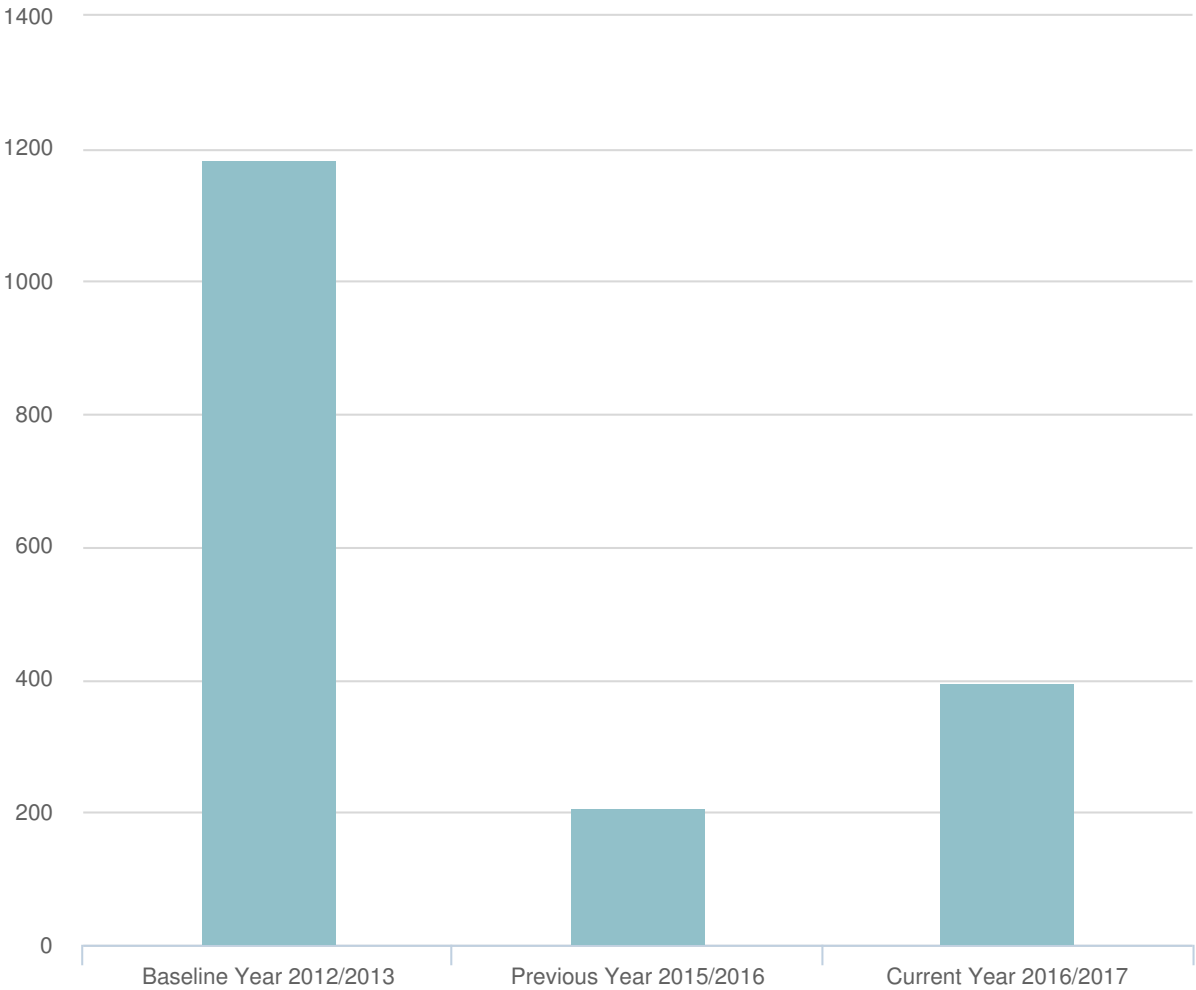
Energy use emissions (kg CO2e)





ENERGY USE RELATED EMISSIONS

Energy use emissions (kg CO2e per performance)



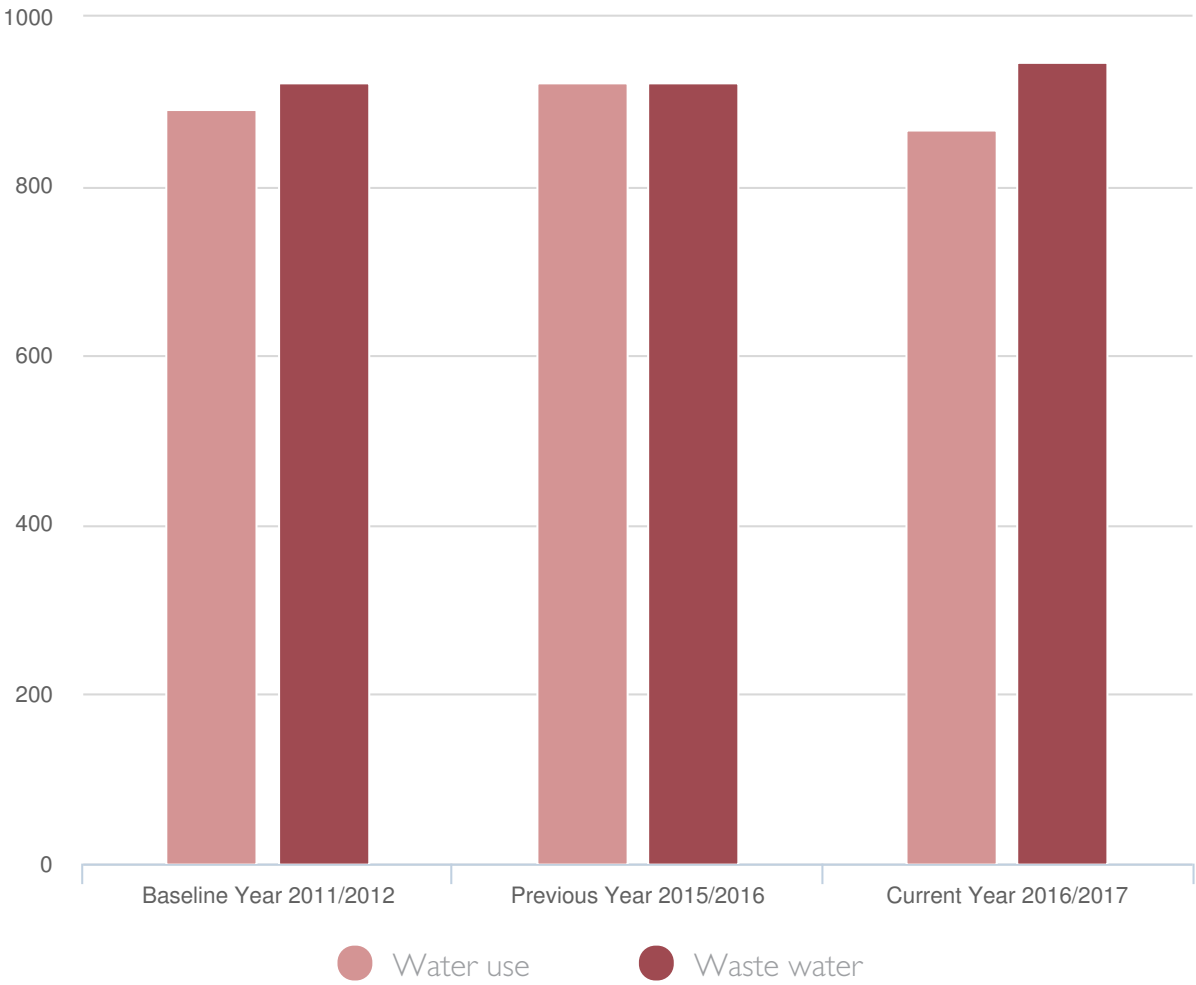


WATER USE

WATER USE	UNIT	BASELINE YEAR 2011/2012	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Total water use and waste water	m3	892	923	868	-5 %	-2 %
Relative water use and waste water	litres per Visitor	39	30	29	-3 %	-25 %
Water use	m3	892	923	868	-5 %	-2 %
Waste water	m3	892	923	946	2 %	6 %



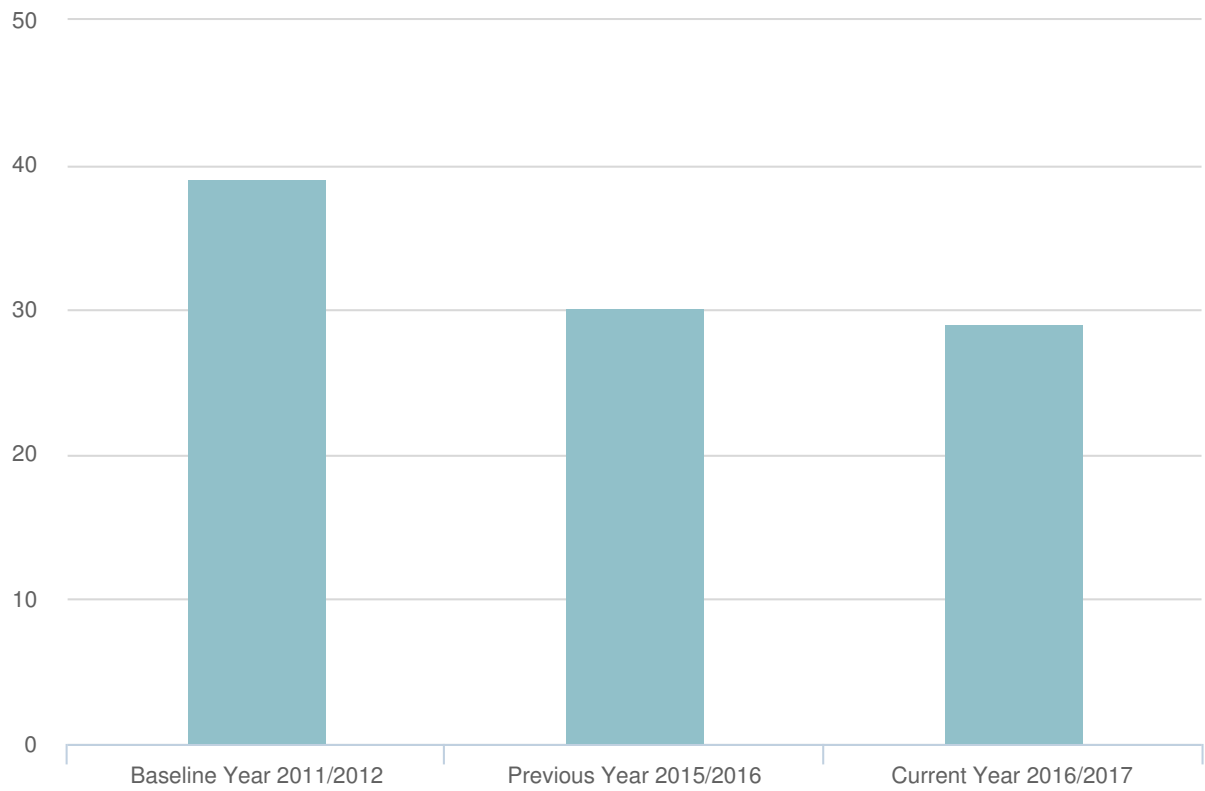
Water use (m3)





WATER USE

Water use (litres per visitor)

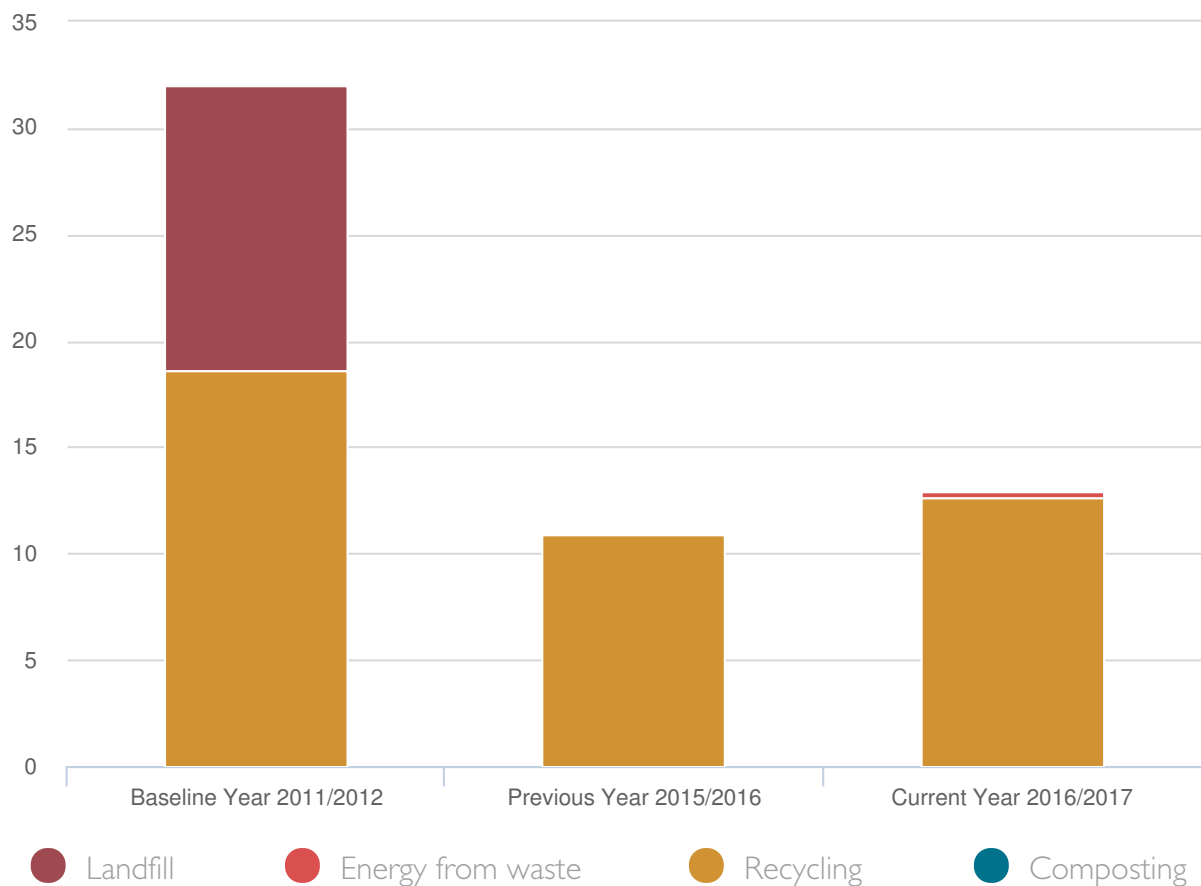


WASTE GENERATION



WASTE	UNIT	BASELINE YEAR 2011/2012	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Waste generation - absolute	tonnes	32	11	13	18 %	-59 %
Waste generation - relative	kg per Visitor	1	0.4	0.4	20 %	-69 %
Landfill waste	tonnes	13	0.0	0.0	No data	No data
Energy from waste	tonnes	0.0	0.0	0.3	No data	No data
Recycling	tonnes	19	11	13	15 %	-32 %
Composting	tonnes	0.0	0.0	0.0	No data	No data

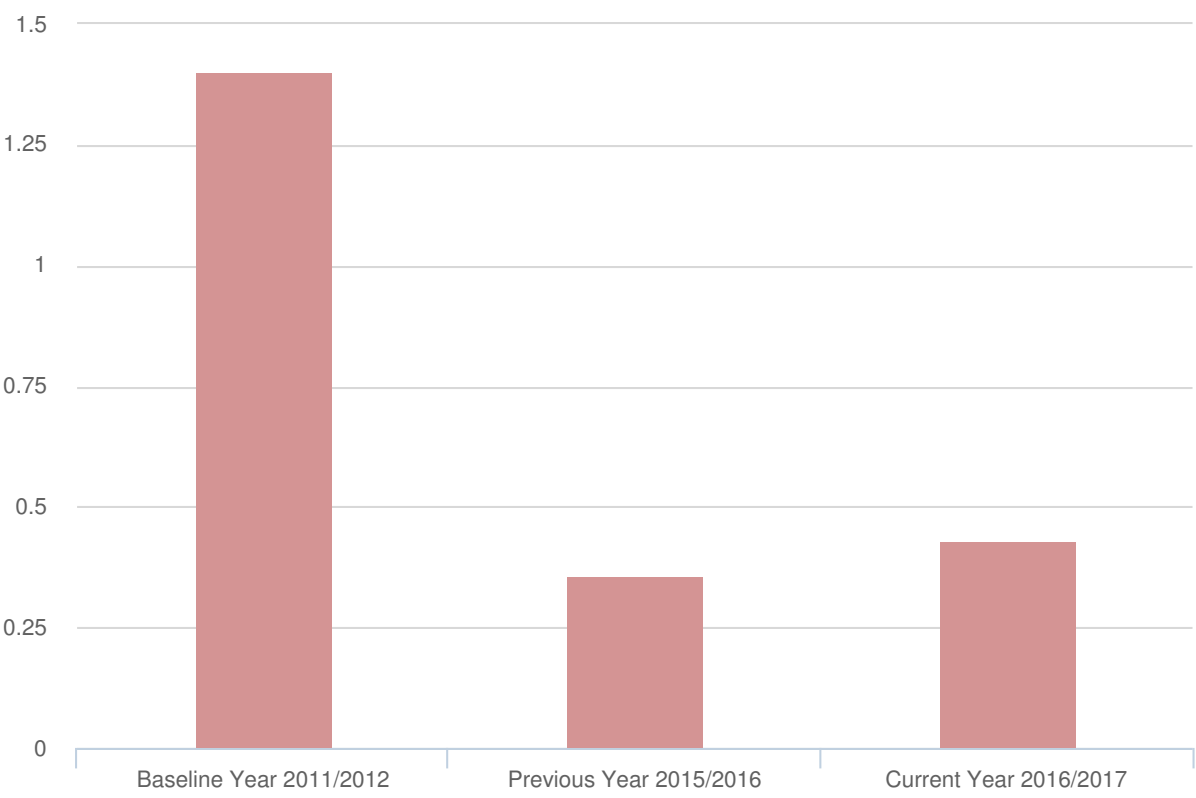
Waste (tonnes)





WASTE GENERATION

Waste (kg per visitor)

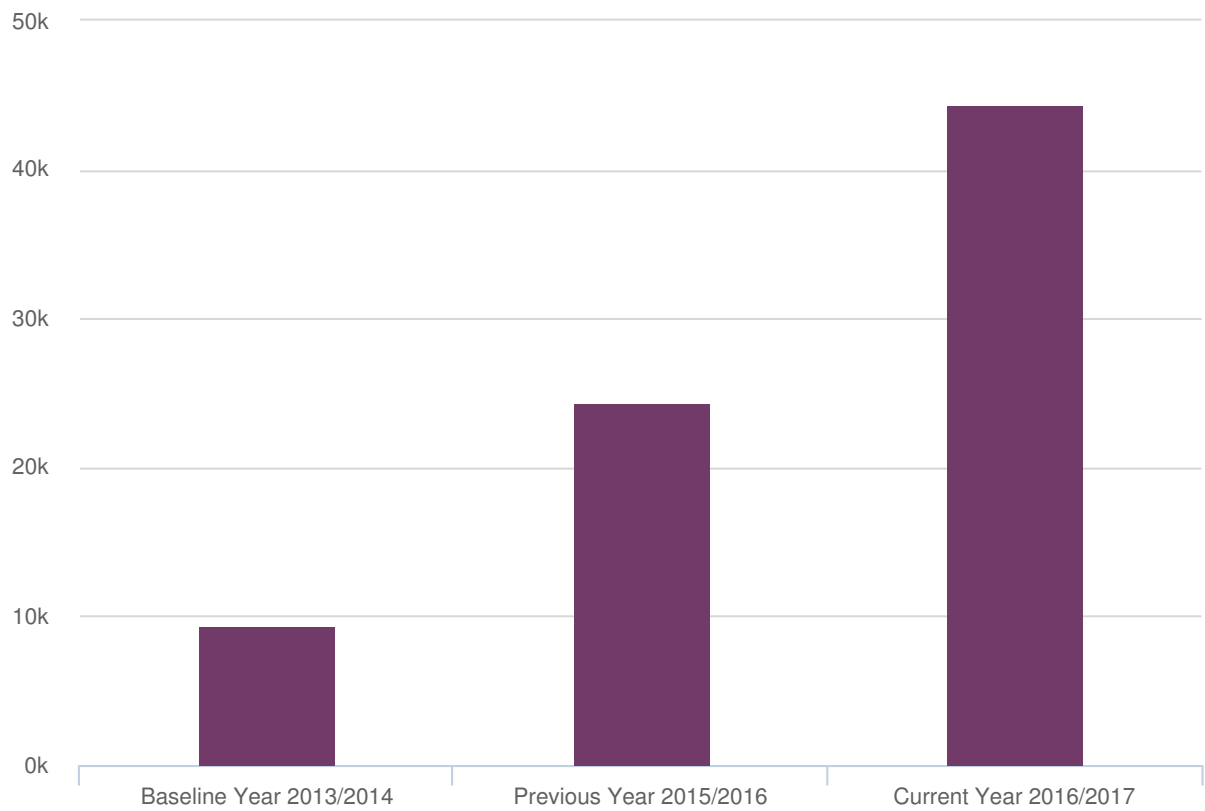




TRANSPORT RELATED EMISSIONS

TRANSPORT RELATED EMISSIONS	UNIT	BASELINE YEAR 2013/2014	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Total transport related emissions - absolute	kg CO2e	9,347	24,429	44,396	81 %	374 %
Total transport related emissions - relative	kg CO2e per Employee	389	940	1,776	89 %	355 %
Car service	km	0.0	386	1,018	163 %	No data
	kg CO2e	0.0	70	186	164 %	No data
Train - national	km	13,704	140,813	303,811	115 %	2116 %
	kg CO2e	672	6,345	14,595	130 %	2071 %
Taxi - regular	km	6,713	4,343	2,880	-33 %	-57 %
	kg CO2e	1,357	1,063	657	-38 %	-51 %
Flight - shorthaul	km	0.0	55,462	106,728	92 %	No data
	kg CO2e	0.0	9,226	17,619	90 %	No data
Flight - longhaul	km	27,662	50,877	77,251	51 %	179 %
	kg CO2e	7,319	7,721	11,339	46 %	54 %

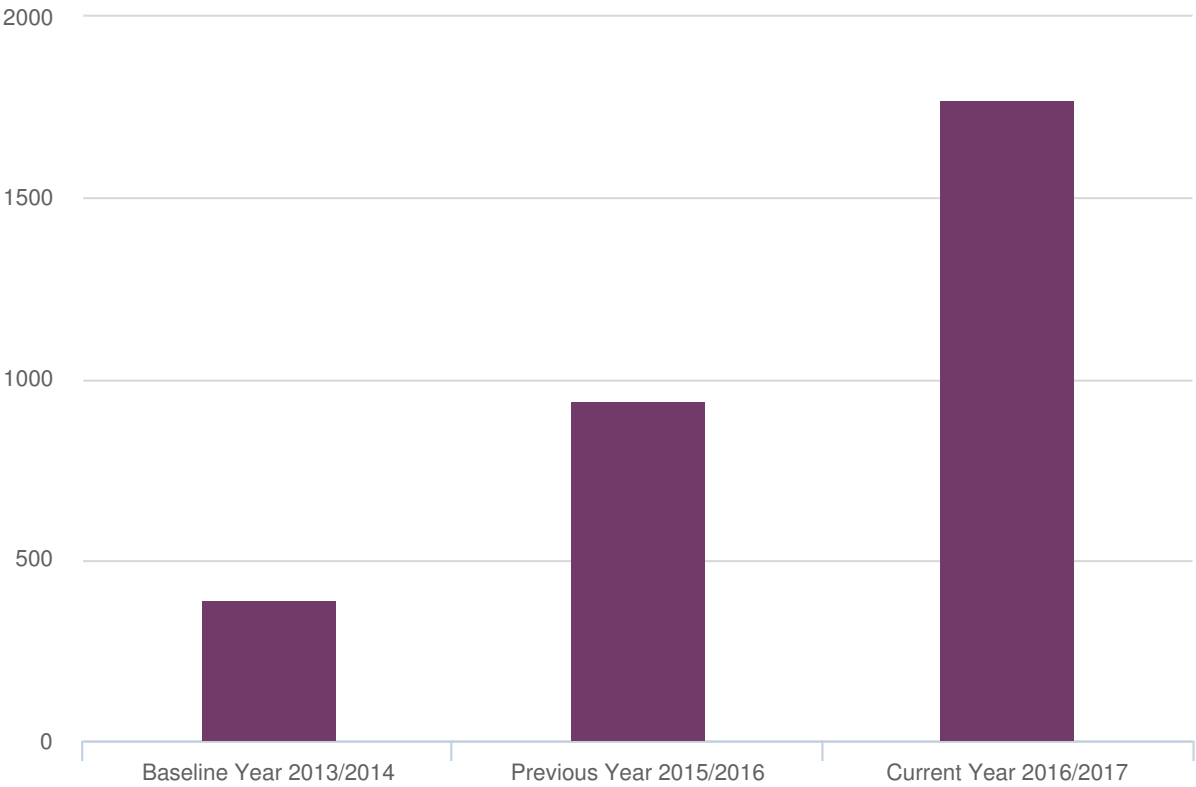
Transport emissions (kg CO2e)





TRANSPORT RELATED EMISSIONS

Transport emissions (kg CO2e per employee)





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