



CREATIVE



GREEN



Reading Festival

CREATIVE GREEN REPORT

2017

2017

Reading Festival
CREATIVE GREEN KEY RESULTS

Environmental assessment of:

COMMITMENT	28 / 40
UNDERSTANDING	23 / 25
IMPROVEMENT	15 / 35

TOTAL POINTS 66 / 100



COMMITMENT to the environment

- ✓ Policy
- ✓ Procurement policy

- ✓ Staff roles and responsibilities
- ✓ Communication and engagement with key stakeholders



UNDERSTANDING of the following environmental impacts



energy



emissions



water



waste



travel



people

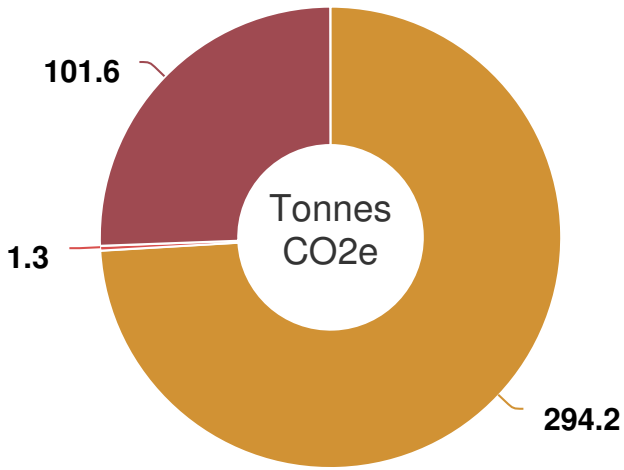


IMPROVEMENT towards reducing environmental impacts

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

PROFILE

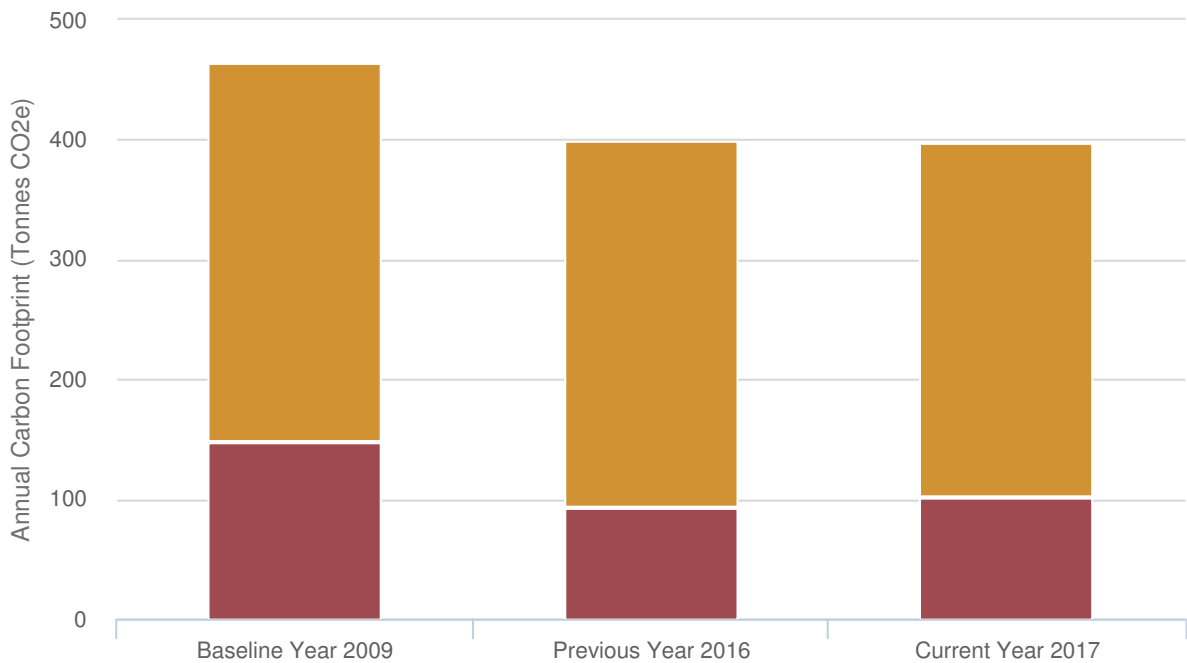
READING FESTIVAL	STATISTICS
Type	Festival/Event
Festival size	major
Visitors/Tickets/Attendees	94,999
Number of stages	12
Number of artists	367



The total carbon footprint in 2017 was 397 Tonnes CO2e

- Non-mains energy
- Total water use and waste water
- Waste

Note: All figures are rounded



CARBON FOOTPRINT

HIGHLIGHTS



COMMITMENT to the environment

- Festival Republic continues to take a leading role on sustainability within the events community winning 'Best Creative Group' at the 2017 Creative Green Awards.
- Festival Republic has a dedicated sustainability department, an extensive environmental policy and is a member of the Powerful Thinking steering group.
- Furthermore, Reading Festival has signed the Vision Festival 2025 pledge to aim to achieve a 50% reduction in festival-related annual GHG emissions by 2025.
- Strong display of due diligence on sourcing of biofuels after proposed HVO biofuel was scrutinised and changed to WVO due to uncertainties surrounding the fuels impact on deforestation in Sumatra.
- Environmental clauses included in all supplier contracts and food waste and diesel reduction targets set, with main contractors required to submit data.
- Continued strong engagement with audiences on sustainability e.g. working with Liftshare to promote car sharing, incentives to travel by coach including free ticket competitions, green section in the programme and local community involvement on the green team with WADRA and The Ark Trust.
- Partnerships with Huhtamaki, Simply Cups on a cup and bottle deposit return scheme.
- Participating in an Innovate UK funded project on tent waste with Comp-a-tent.

UNDERSTANDING of the following environmental impacts

- In-depth understanding of Reading Festival's key environmental impacts over the past 9 years with data used to set annual targets for energy, water, waste and audience travel.
- Reading's power supplier has invested in 100% LED tower and festoon lighting and has replaced 1000 out of 5000 flood lights with LEDs.
- Monitoring of diesel use for generators, concessions and vehicles with data collection for number, size and telemetry of generators across the site.
- Monitoring of audience, production and staff travel through the IG Tools.
- All main contractors are contractually obliged to submit their mileage. Festival Republic office staff use a travel management tool to record their travel.
- Attitudinal insights gained internally and externally through sustainability debriefs, a dedicated sustainability questionnaire for audiences and through debrief forms for suppliers.

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

RESULTS IN FULL



ENVIRONMENTAL COMMITMENT

ASSESSMENT AREAS	POINTS AVAILABLE	POINTS AWARDED
Policy, strategy & responsibilities	12	7
Procurement	5	4
Communication and engagement	23	17
Total Points	40	28

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RECOMMENDATIONS

- Align with the Paris Agreement and the Sustainable Development Goals (SDGs) in Festival Republic's environmental policy.
- Continue undertaking due diligence on sourcing of biofuel, to ensure this is from sustainable sources, and continue to explore diesel alternatives.
- In line with the Vision 2025 pledge, investigate further off-grid power generation onsite to learn and help support companies innovating in this space.
- Build on success of single use bottles and cup deposit schemes and continue enforcing trader single-use plastic ban.
- Ensure all volunteers and employees on site have access to training on relevant sustainability policy, recycling schemes and creative content onsite.
- Engage more with incoming artists to Reading Festival on sustainability.
- Commission/programme more creative content based around environmental themes 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	3
In-depth understanding of energy, water and waste	8	7
Monitoring of other impact	3	3
Use of data for setting targets and Key Performance Indicators in policy and action plans	4	4
Evaluation of learning and outcomes	2	2
Total Points	25	23

HIGHLIGHTS

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RECOMMENDATIONS

- Continue to use impact data to set meaningful KPIs for each key environmental impact.
- Analyse energy use data from generators and use the data to improve energy efficiency performance in 2018.
- Continue to set reduction targets individually for suppliers and offer incentives for best practice e.g. best trader award.
- Explore the possibility of monitoring a selection of individual traders for their energy use to trial a pay per use system.
- Continue to use the IG Tools to monitor production travel.
- Investigate systems for monitoring food waste, exploring the possibility of undertaking a waste audit to help develop food waste strategy.

ENVIRONMENTAL IMPROVEMENT

HIGHLIGHTS

Current year: 2017

Baseline: energy use 2009, energy related emissions 2009, water use 2009, waste generation 2009, and business travel 2009

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	-12 %	-1 %	3	3
Energy use related emissions	-7 %	-5 %	3	3
Water	-18 %	19 %	2	0
Waste	12 %	7 %	2	0
Transport	No data	No data	2	2
Total Points			12	8

RELATIVE	RELATIVE METRIC	CURRENT VS. BASELINE	CURRENT VS. PREVIOUS	POINTS AVAILABLE	POINTS AWARDED
Energy use	per Audience day	-23 %	-6 %	5	2
Energy use related emissions	per Audience day	-19 %	-10 %	5	2
Water	per Audience day	-29 %	13 %	4	1
Waste	per Audience day	-2 %	1 %	4	1
Transport	per Audience day	No data	No data	4	0
Total Points				22	6



ENVIRONMENTAL IMPROVEMENT RECOMMENDATIONS

Total Carbon Footprint

The functionality of the online report currently excludes transport figures from the final footprint:

- Total footprint: 1167.8 tonnes CO₂e.
- Energy: 295.2 tonnes CO₂e.
- Water: 1.3 tonnes CO₂e.
- Waste: 75.4 tonnes CO₂e.
- Transport (production & audience travel): 795.9 tonnes CO₂e.

Achievements

- Energy use decreased by 10% between 2016 and 2017 while energy related emissions reduced by 5%.
- Despite absolute waste increasing, waste-to-landfill decreased by 23% between 2016 and 2017.

Next Steps

- Consider switching to a 100% renewable energy supplier in all Festival Republic offices.
- Optimise efficiencies in onsite generators, ensuring data on generator size and location is being utilized to optimum results.
- Display commitment to Vision 2025 pledge through sourcing alternative fuels, continuing policy of LED replacement for lights & technology and through demand side policies.
- Aim to reduce waste to landfill and build further on Bottle and Paper Cup Deposit schemes.
- Further investigate carbon offsetting schemes for those audiences' members travelling by car.
- Take inspiration from Electric Picnic's 'Bring Your Own Environment Eco Campsite' and consider similar initiatives onsite.

Note: two additional points have been awarded for Reading's commitment to monitoring and reducing business and audience travel.

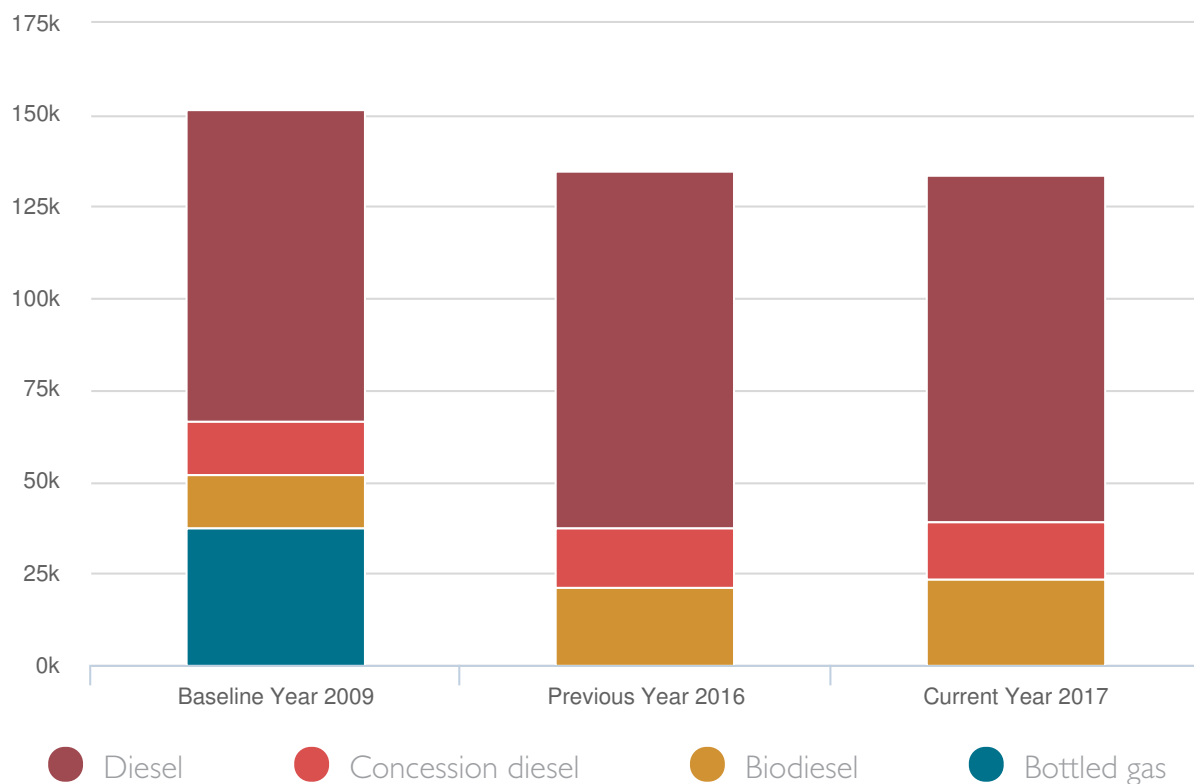


ENERGY USE

ENERGY USE	UNIT	BASELINE YEAR 2009	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use (non-mains) -- absolute	litres	151,758	134,804	133,447	-1 %	-12 %
Energy use (non-mains) -- relative	litres per Audience day	0.6	0.5	0.5	-6 %	-23 %
Diesel	litres	85,000	97,486	94,123	-3 %	10 %
Concession diesel	litres	14,540	16,280	15,824	-2 %	8 %
Biodiesel	litres	15,000	21,038	23,500	11 %	56 %
Bottled gas	litres	37,218	0.0	0.0	No data	No data



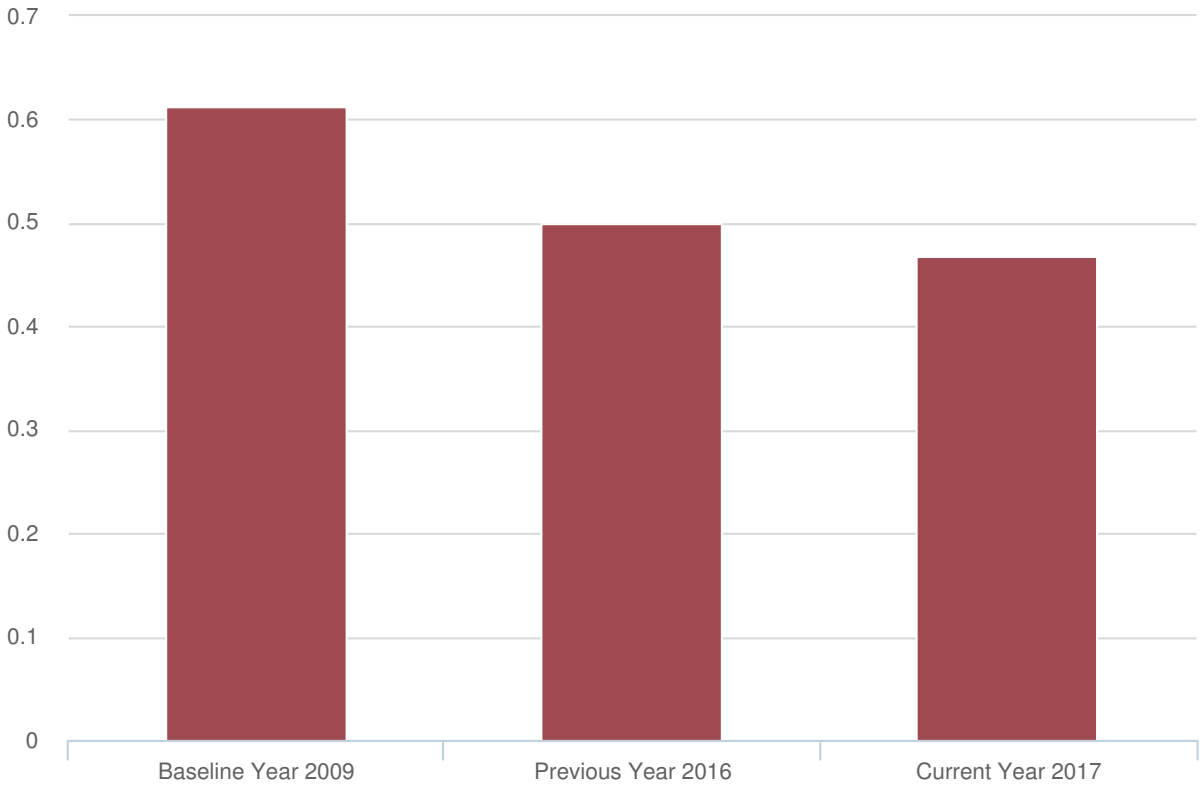
Energy consumption (litres)





ENERGY USE

Energy consumption (litres per audience day)

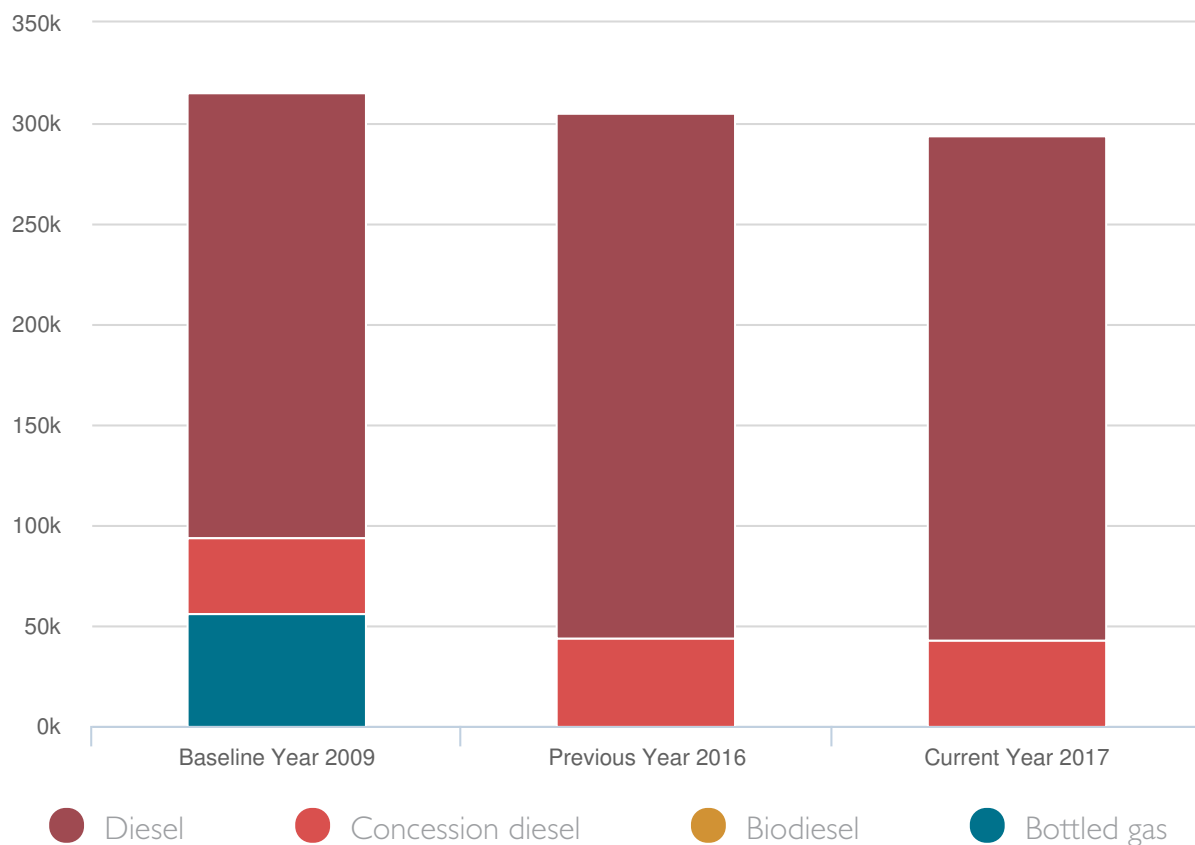




ENERGY USE RELATED EMISSIONS

ENERGY RELATED EMISSIONS	UNIT	BASELINE YEAR 2009	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use emissions (all sources) - absolute	kg CO2e	317,028	311,490	294,735	-5 %	-7 %
Energy use emissions (all sources) - relative	kg CO2e per Audience day				-10 %	-19 %
Diesel	kg CO2e	221,204	260,892	251,490	-3 %	13 %
Concession diesel	kg CO2e	37,839	43,569	42,281	-2 %	11 %
Biodiesel	kg CO2e	263	416	470	13 %	79 %
Bottled gas	kg CO2e	55,911	0.0	0.0	No data	No data

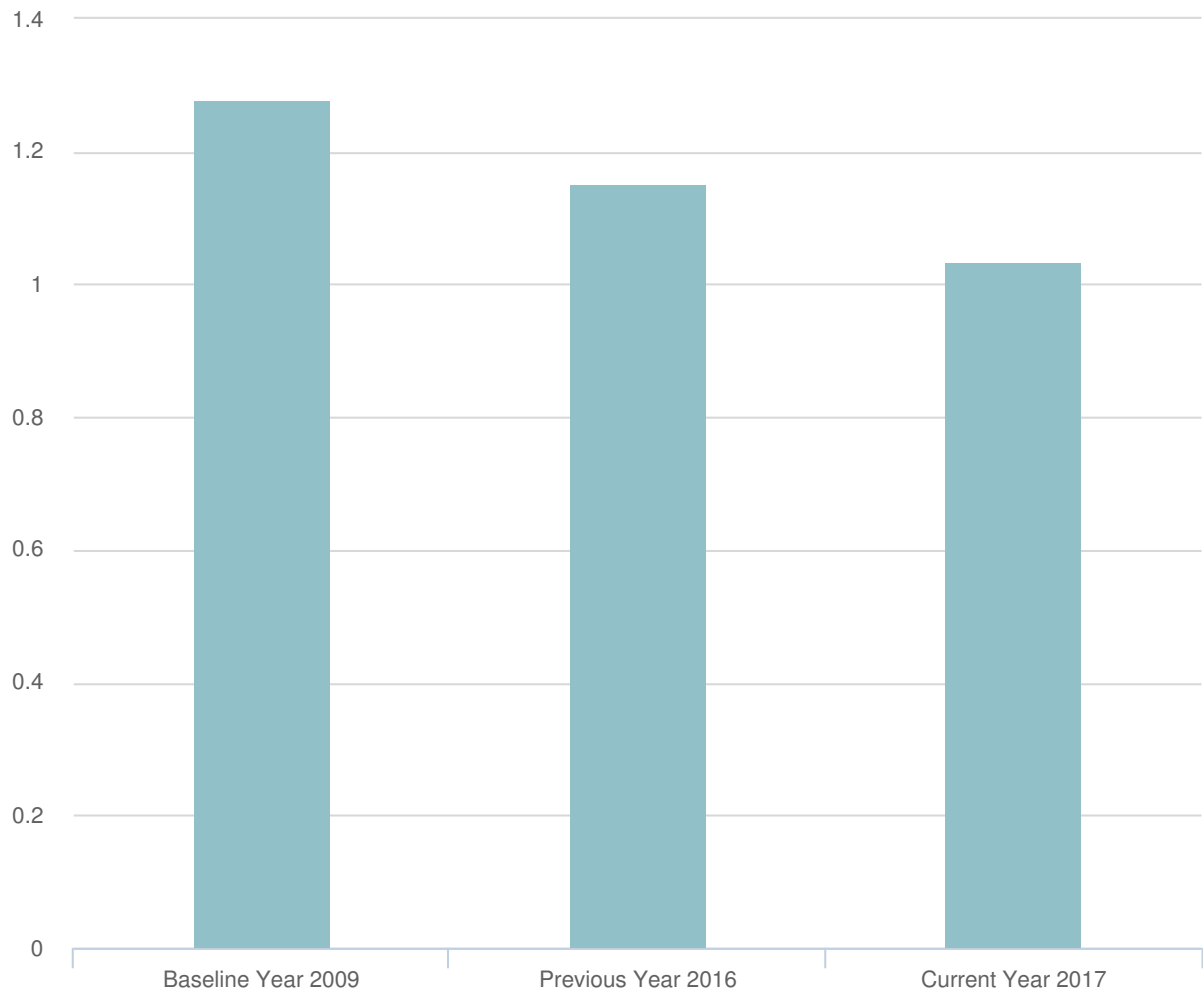
Energy use emissions (kg CO2e)





ENERGY USE RELATED EMISSIONS

Energy use emissions (kg CO₂e per audience day)

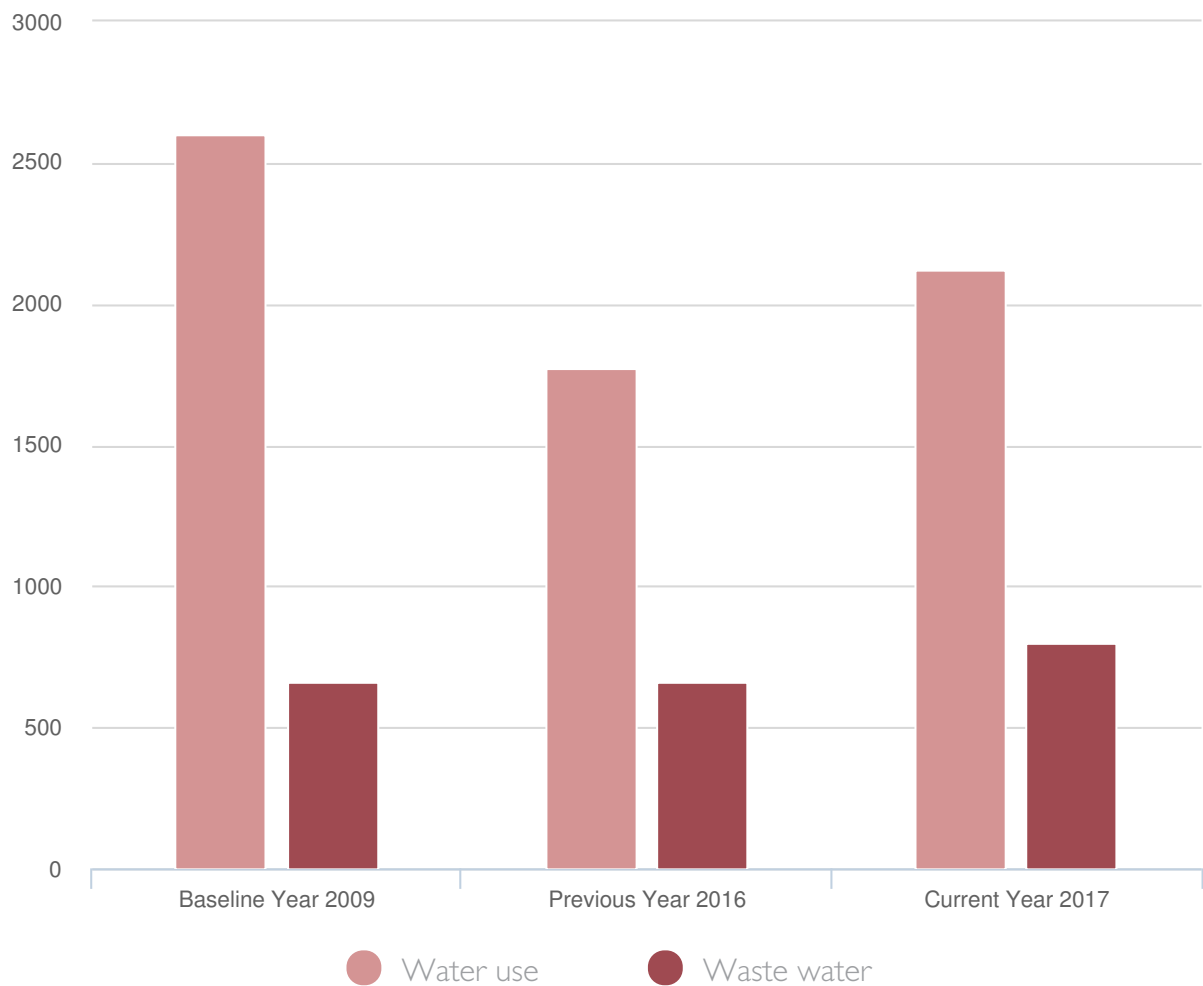




WATER USE

WATER USE	UNIT	BASELINE YEAR 2009	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Total water use and waste water	m3	2,600	1,771	2,121	19 %	-18 %
Relative water use and waste water	litres per Audience day	10	7	7	13 %	-29 %
Water use	m3	2,600	1,771	2,121	19 %	-18 %
Waste water	m3	1,974	664	800	20 %	-59 %

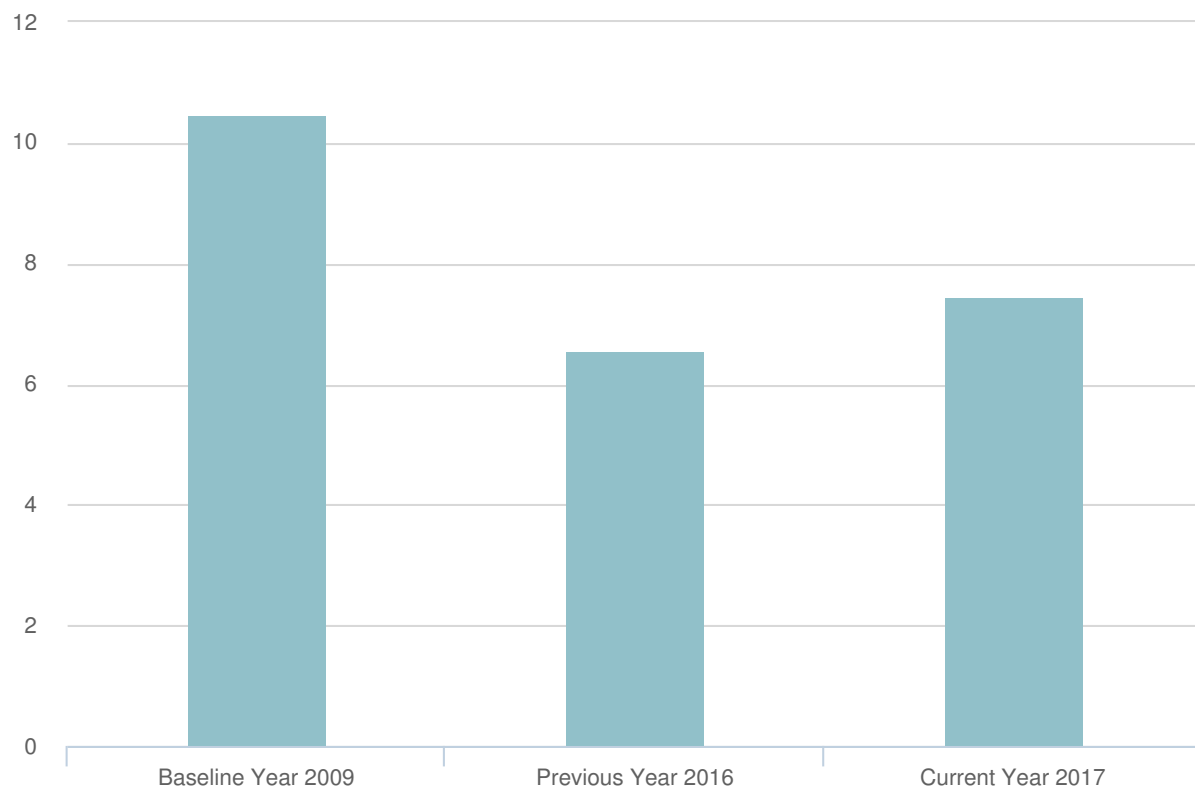
Water use (m3)





WATER USE

Water use (litres per audience day)

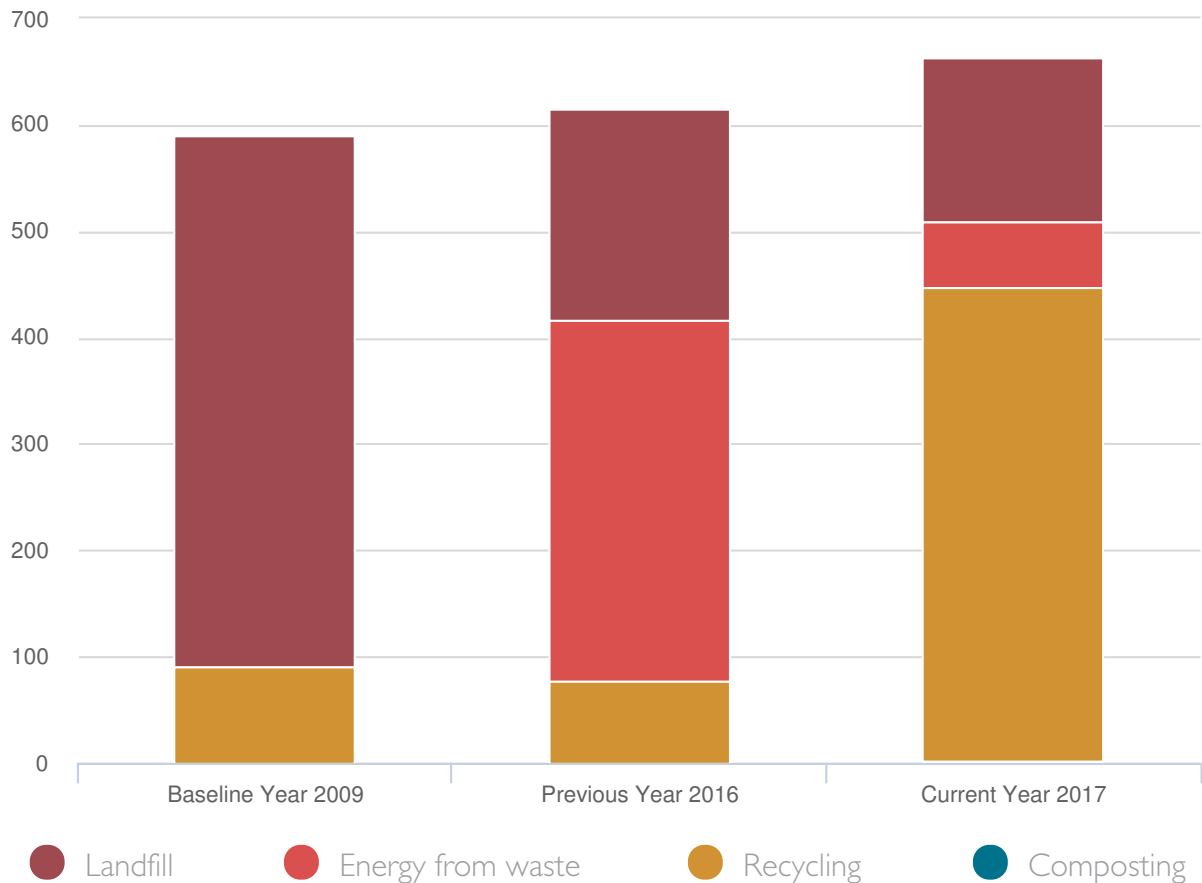




WASTE GENERATION

WASTE	UNIT	BASELINE YEAR 2009	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Waste generation - absolute	tonnes	590	616	663	7 %	12 %
Waste generation - relative	kg per Audience day	2	2	2	1 %	-2 %
Landfill waste	tonnes	500	200	154	-23 %	-69 %
Energy from waste	tonnes	0.0	339	61	-81 %	No data
Recycling	tonnes	90	77	446	478 %	395 %
Composting	tonnes	0.0	0.0	2	No data	No data

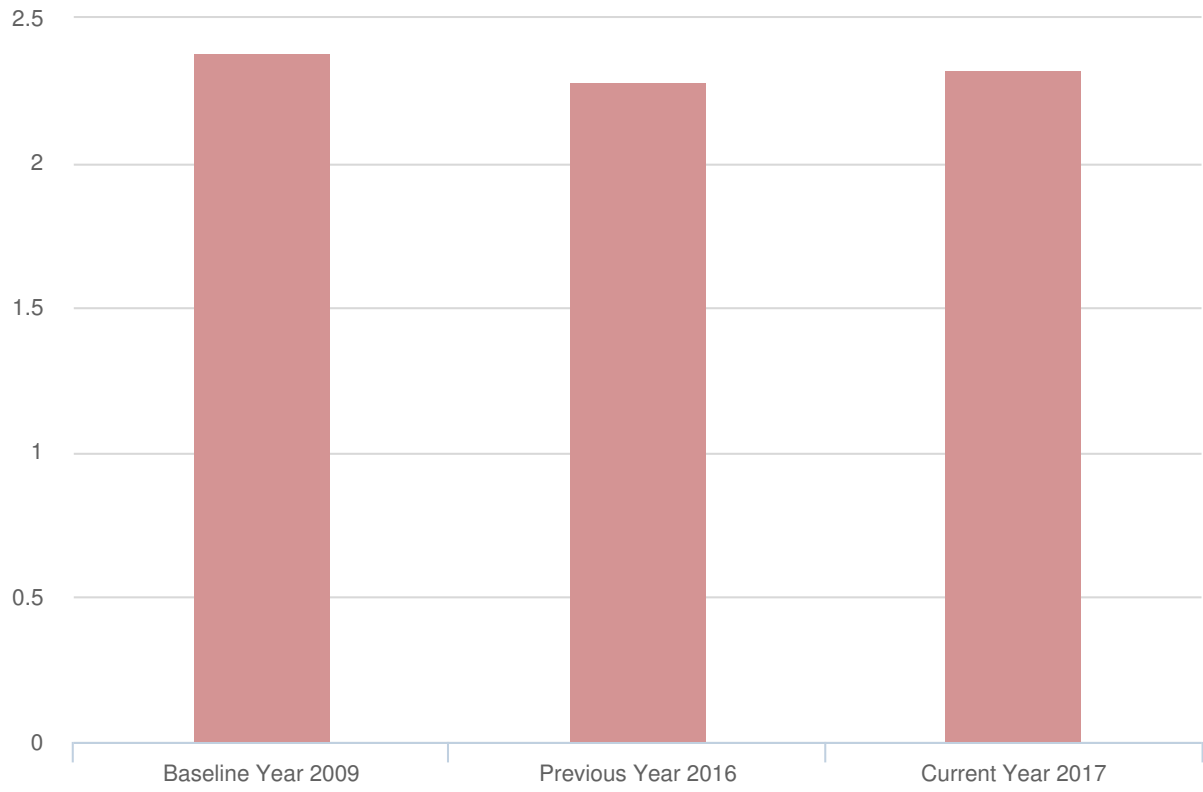
Waste (tonnes)





WASTE GENERATION

Waste (kg per audience day)





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