



CREATIVE



Siamsa Tíre

CREATIVE GREEN REPORT
2017

Siamsa Tíre
CREATIVE GREEN KEY RESULTS

Environmental assessment of:

COMMITMENT	20 / 40
UNDERSTANDING	10 / 25
IMPROVEMENT	19 / 35

TOTAL POINTS 49 / 100



COMMITMENT to the environment

- ✓ Policy
- ✓ Integration with core organisational development

- ✓ Action plan
- ✓ Communication and engagement with key stakeholders



UNDERSTANDING of the following environmental impacts



energy



emissions



water



waste



travel



people

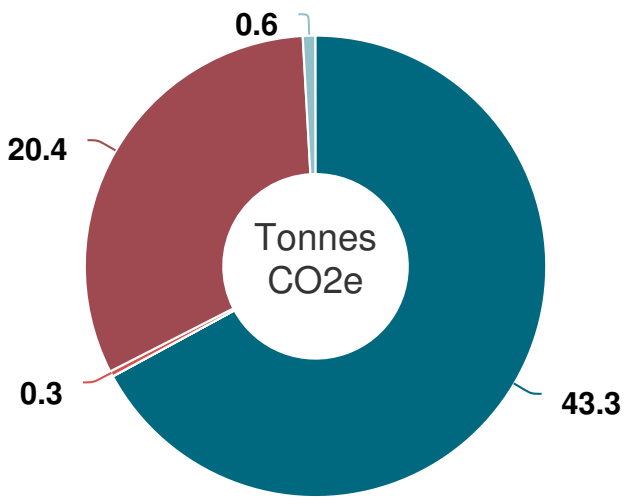


IMPROVEMENT towards reducing environmental impacts

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

PROFILE

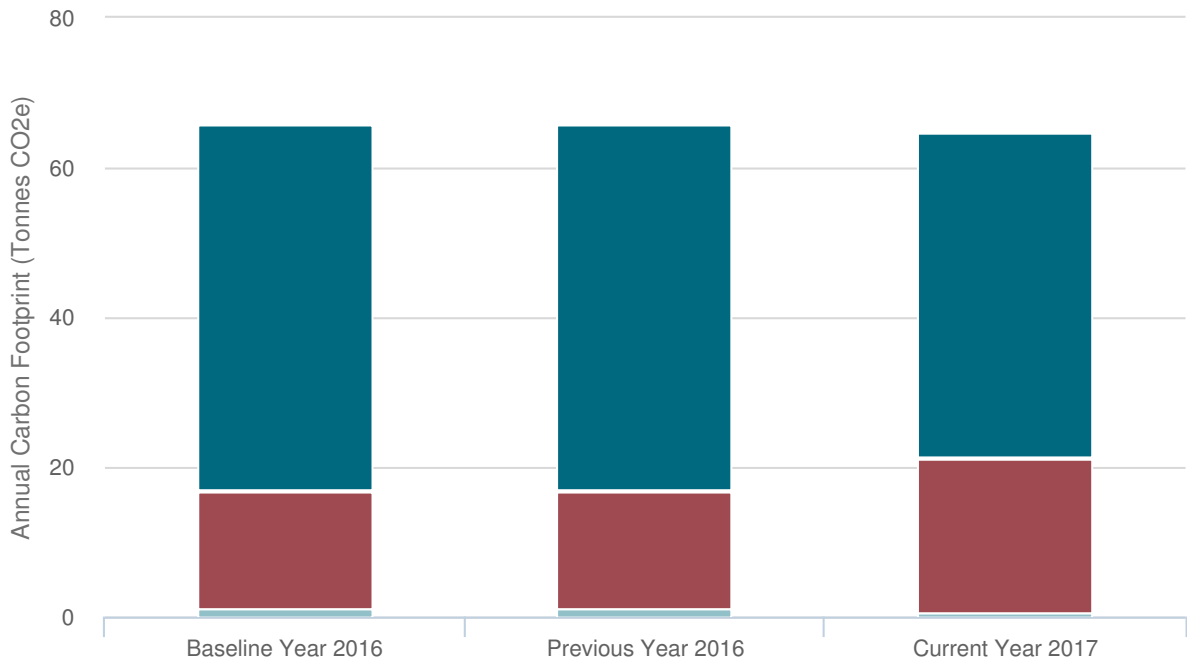
SIAMSA TiRE	STATISTICS
Type	venue
Floor area	1,891
Tickets sold	73,700
Number of performances	373
Number of staff	10



The total carbon footprint in 2017 was 65 Tonnes CO2e

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

Note: All figures are rounded



CARBON FOOTPRINT

HIGHLIGHTS



COMMITMENT to the environment

- Siamsa Tíre is working to integrate sustainability into its organisational strategy and structure with an ambition to establish itself as a leader on environmental sustainability within the Irish theatre sector.
- Siamsa Tíre's Environmental Policy scopes key impacts and objectives with a focus on carbon reductions, research, biodiversity, training and communications.
- Greening Siamsa strategy in development which will include its own branding.
- Commitment to green energy with solar PV panels installed on the roof of the theatre.
- Commitment to procuring sustainable products e.g. all building lighting LED; bar uses no single use plastics (i.e. cups, cutlery, straws) with all bottled drinks sold using glass.
- Strong engagement with Siamsa Tíre's staff on sustainability including offering training sessions and making Greening Siamsa an agenda item at all key team meetings.
- Collaboration with the professional and local community including work with Transition Kerry, the Irish Theatre Forum, Department of Culture, Heritage and the Gaeltacht.
- Siamsa Tíre is working with Kerry County Council to create a 'Biodiversity Friendly Zone' beside the building and a wider biodiversity plan for the building.
- Siamsa Tíre will also be curating a part of the Irish Theatre Forum's annual conference in June 2018 on the theme of climate change.

UNDERSTANDING of the following environmental impacts

- Siamsa Tíre replaced its oil-fired burner with an Air Source Heat Pump (ASHP) system in 2017 becoming less reliant on fossil fuels.
- Monthly monitoring of energy use with data recorded annually using the IG Tools.
- In-depth understanding of onsite waste with a waste audit recently undertaken to help develop a new waste separation strategy.
- Siamsa Tíre have been composting tea, coffee grinds and fruit peels onsite for the last eight years.
- Monitoring of staff business travel with data collected and recorded through the IG Tools.

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 to 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	2
Communication and engagement	23	11
Total Points	40	20

HIGHLIGHTS

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RECOMMENDATIONS

- Consider switching to a 100% renewable electricity supplier at the end of current contract (see Julie's Bicycle's [Renewable Energy Guide](#)).
- Define SMART environmental objectives and targets where possible, and consider how objectives and targets could align with the Paris Agreement and SDGs.
- Ensure upcoming action plan includes a clear designation of responsibilities for each action and that corresponding teams are informed.
- Consider developing sustainability criteria and clauses for new supplier contracts and ensure current suppliers are asked for detail on products they may already offer.
- Engage audiences on sustainability e.g. competitions/challenges with environmental themes; educational workshops; public campaigns (i.e. Earth Day) etc.
- Continue to commission/curate/programme work around environmental themes and consider contributing 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	0
In-depth understanding of energy, water and waste	8	5
Monitoring of other impact	3	0
Use of data for setting targets and Key Performance Indicators in policy and action plans	4	0
Evaluation of learning and outcomes	2	1
Total Points	25	10

HIGHLIGHTS

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RECOMMENDATIONS

- Investigate whether Siamsa Tíre can collect figures for onsite energy generation through the solar PV and ASHP to help assess and publicise the benefits for Siamsa Tíre, including avoided carbon emissions.
- For any systems that are introduced for waste management, ensure monitoring is in place before and after to enable stories of change to be communicated.
- Consider using the IG Tools to trial monitoring the impacts of an upcoming tour.
- Consider developing a post-show survey which includes questions on transport type and distance travelled to help build an understanding of audience travel impacts and whether any actions could facilitate positive changes.
- Consider developing an internal/external survey or consultation with staff/external stakeholders to integrate these interests into the Greening Siamsa Tíre strategy.
- Use environmental impact data to set meaningful targets and KPIs, which are documented in Siamsa Tíre's upcoming environmental action plan.

ENVIRONMENTAL IMPROVEMENT

HIGHLIGHTS

Current year: 2017

Baseline: energy use 2016, energy related emissions 2016, water use 2016, waste generation 2016, and business travel 2016

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	-11 %	-11 %	3	3
Energy use related emissions	-26 %	-26 %	3	3
Water	6 %	6 %	2	0
Waste	-11 %	-11 %	2	2
Transport	-51 %	-51 %	2	2
Total Points			12	10

RELATIVE	RELATIVE METRIC	CURRENT VS. BASELINE	CURRENT VS. PREVIOUS	POINTS AVAILABLE	POINTS AWARDED
Energy use	per Performance	0 %	0 %	5	1
Energy use related emissions	per Performance	-16 %	-16 %	5	2
Water	per Visitor	2 %	2 %	4	1
Waste	per Visitor	-14 %	-14 %	4	2
Transport	per Employee	-51 %	-51 %	4	3
Total Points				22	9



ENVIRONMENTAL IMPROVEMENT RECOMMENDATIONS

Highlights

- Energy use decreased by 11% between 2016 and 2017 with related emissions reducing by 26%
- Energy use related emissions decreased by 26% between 2016 and 2017
- Waste decreased by 11% between 2016 and 2017 with waste per visitor decreasing by 14%.

Next Steps: Onsite

- Continue developing energy saving initiatives e.g. increase stage LED lighting; switch-off policy; work with catering concessions on energy management and efficiency (see [ISO 50001](#)).
- Consider developing sustainability criteria and clauses for new supplier contracts (see Julie's Bicycle [Sustainable Procurement Guide](#)).
- 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](#).

Next Steps: Communications and Engagement

- Continue to engage with the sector on sustainability and look for further opportunities to practice peer-to-peer and shared learning e.g. Theatre Forum workshop.
- Ensure all staff onsite have access to the policy and are familiar with the environmental impacts and initiatives in place in their departments.
- Ensure that a regular meeting takes place to discuss Greening Siamsa Tíre strategy which includes a representative from each environmental group to feedback and discuss new ideas.
- Create a page for Green Siamsa on the website which includes the environmental policy and states the ambitions and plans going forward and how audiences can get involved.
- Engage incoming artists on sustainability e.g. environmental policy in welcome packs; inform them of onsite measures/facilities in place (e.g. recycling options) etc.

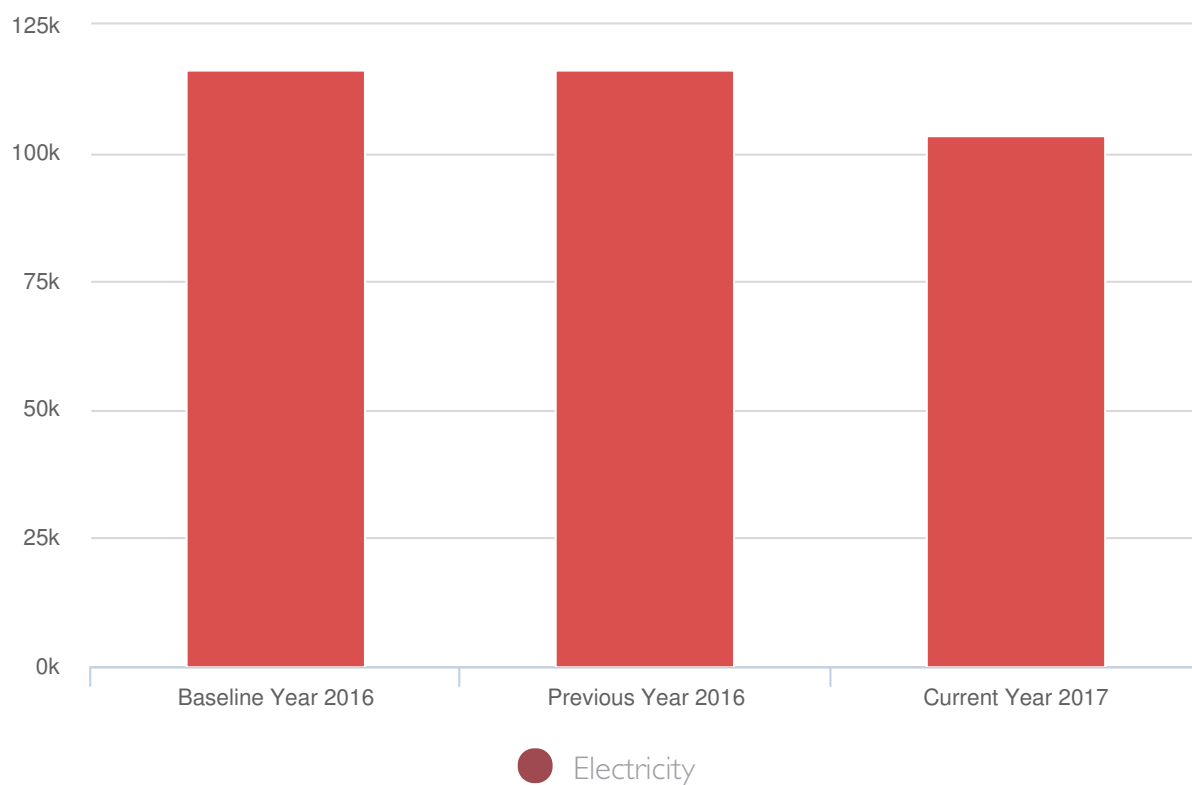
Note: oil consumption is currently excluded from Siamsa Tíre's carbon footprint presented on page three. Siamsa Tíre's 2017 footprint including oil consumption = 90 tonnes CO₂e.



ENERGY USE

ENERGY USE	UNIT	BASELINE YEAR 2016	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use (electricity and gas) -- absolute	kWh	116,214	116,214	103,329	-11 %	-11 %
Electricity	kWh	116,214	116,214	103,329	-11 %	-11 %
Gas (weather normalised)	kWh	0.0	0.0	0.0	No data	No data
Energy use (electricity and gas) -- relative	kWh per Performance	726	726	728	0 %	0 %
Electricity	kWh per Performance	726	726	728	0 %	0 %
Gas (weather normalised)	kWh per Performance	0.0	0.0	0.0	No data	No data
Mains electricity - absolute	kWh	116,214	116,214	103,329	-11 %	-11 %
Mains gas - absolute	kWh	0.0	0.0	0.0	No data	No data
Weather gas normalised - absolute	kWh	0.0	0.0	0.0	No data	No data

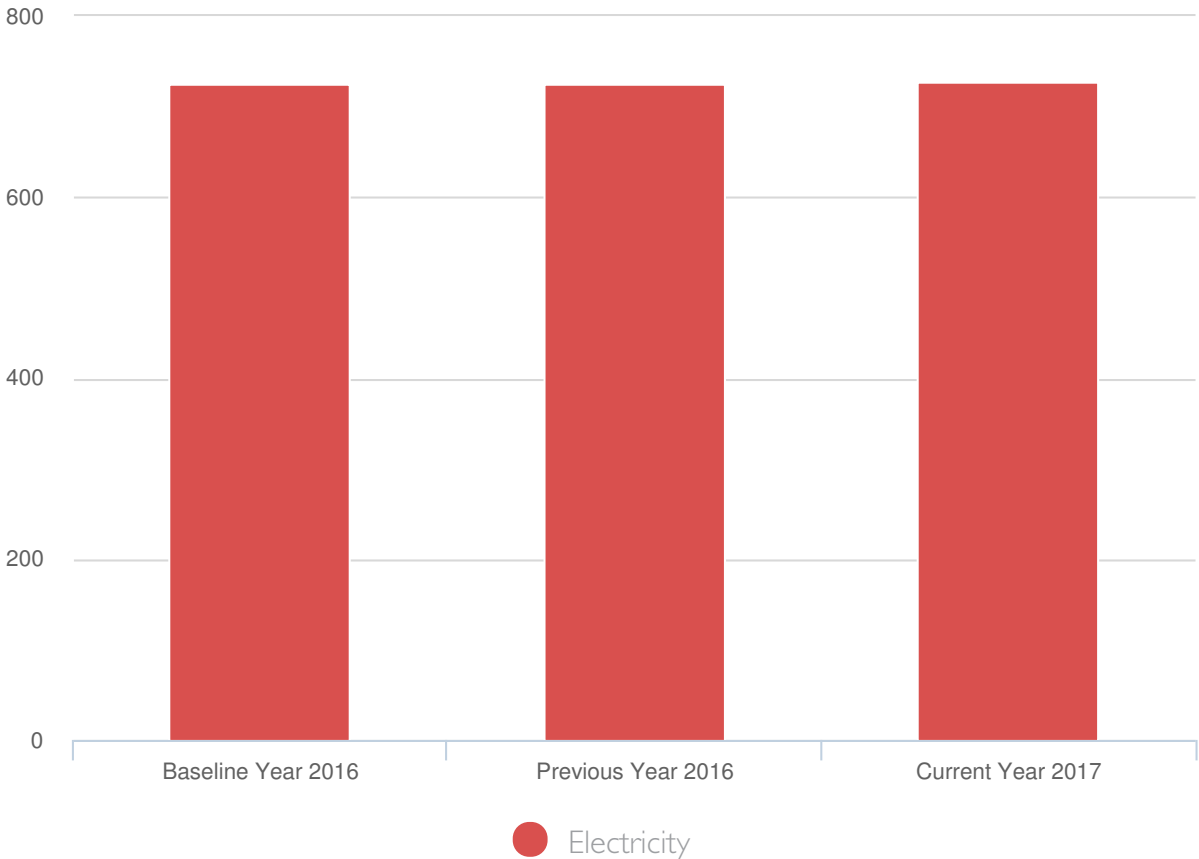
Energy consumption (kWh)





ENERGY USE

Energy consumption (kWh per performance)

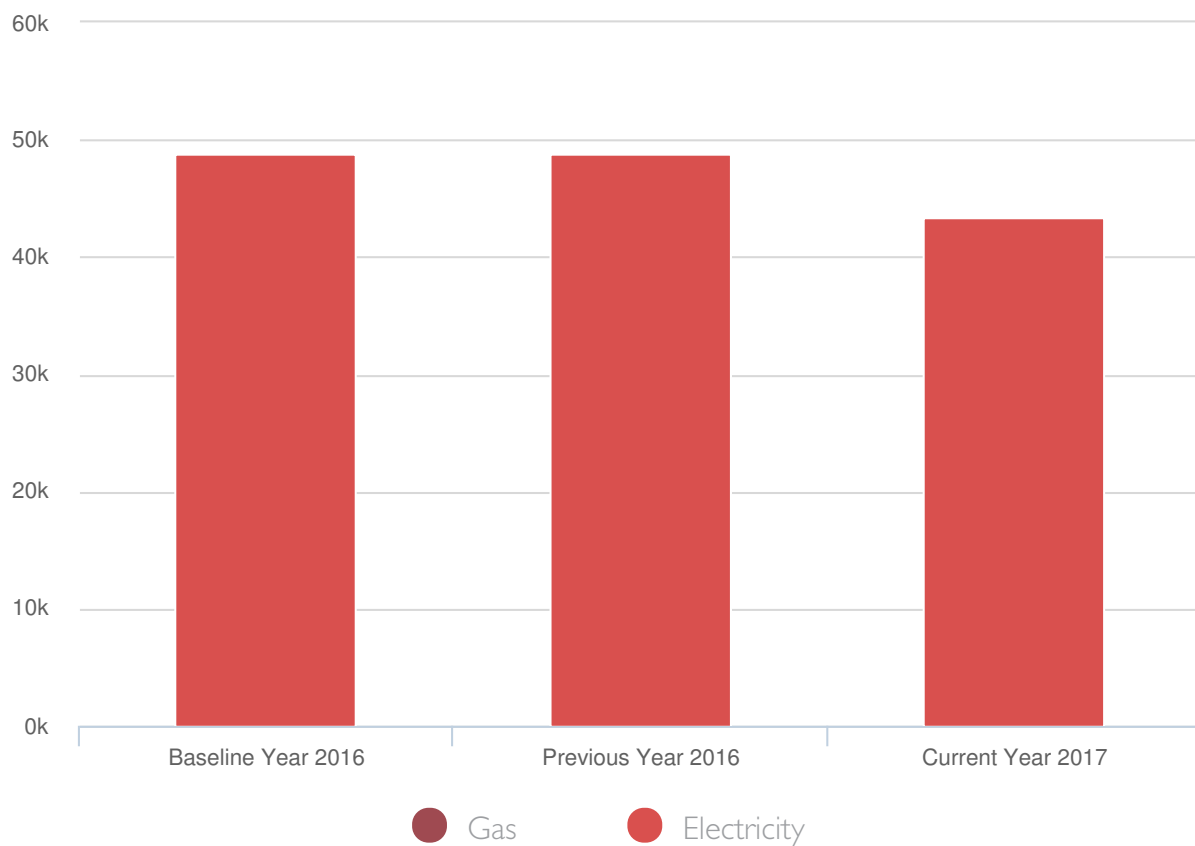




ENERGY USE RELATED EMISSIONS

ENERGY RELATED EMISSIONS	UNIT	BASELINE YEAR 2016	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use emissions (all sources) - absolute	kg CO2e	93,033	93,033	68,644	-26 %	-26 %
Energy use emissions (all sources) - relative	kg CO2e per Performance	581	581	483	-16 %	-16 %
Electricity	kg CO2e	48,723	48,723	43,321	-11 %	-11 %
Normalised gas	kg CO2e	0.0	0.0	0.0	No data	No data

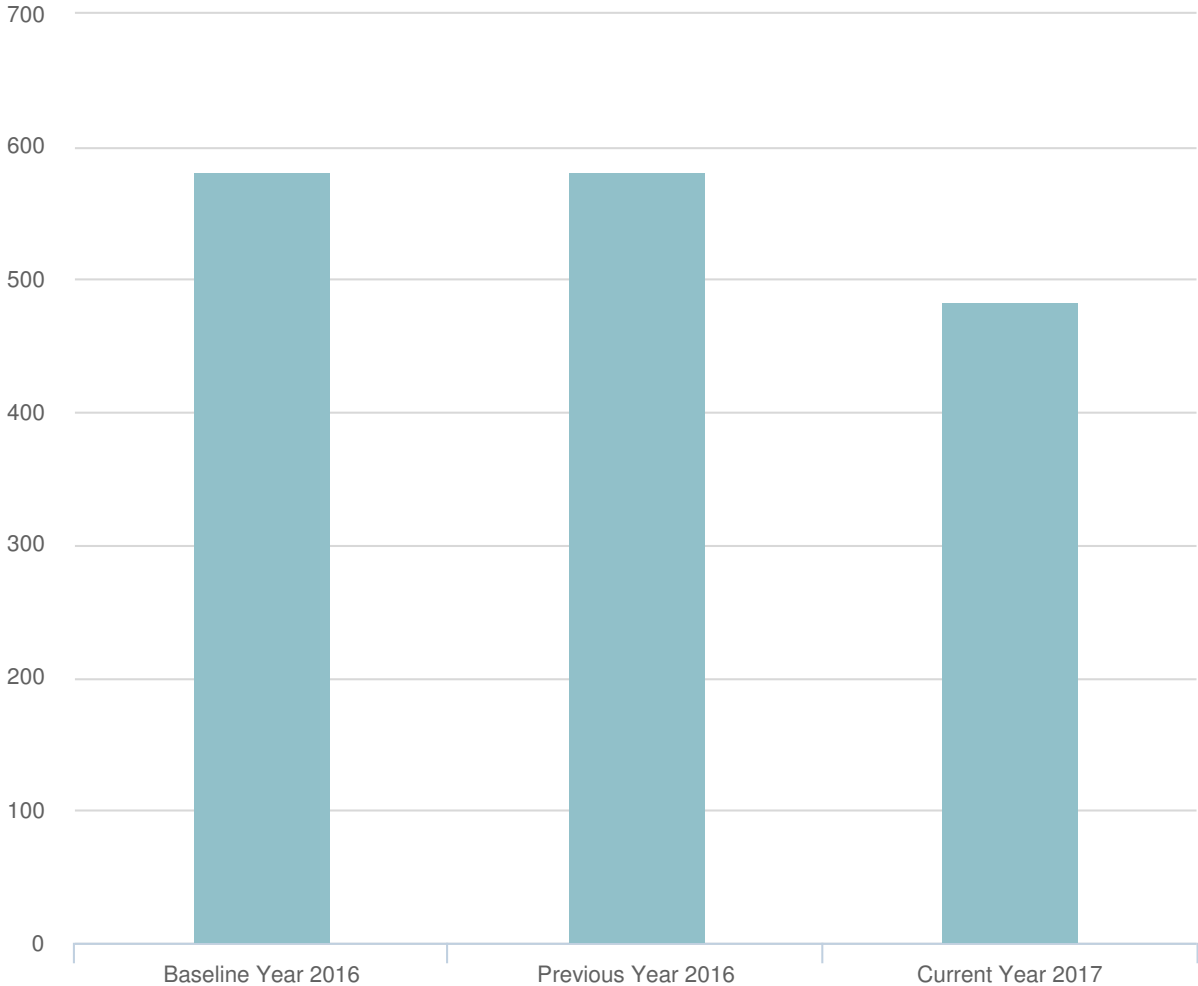
Energy use emissions (kg CO2e)





ENERGY USE RELATED EMISSIONS

Energy use emissions (kg CO2e per performance)

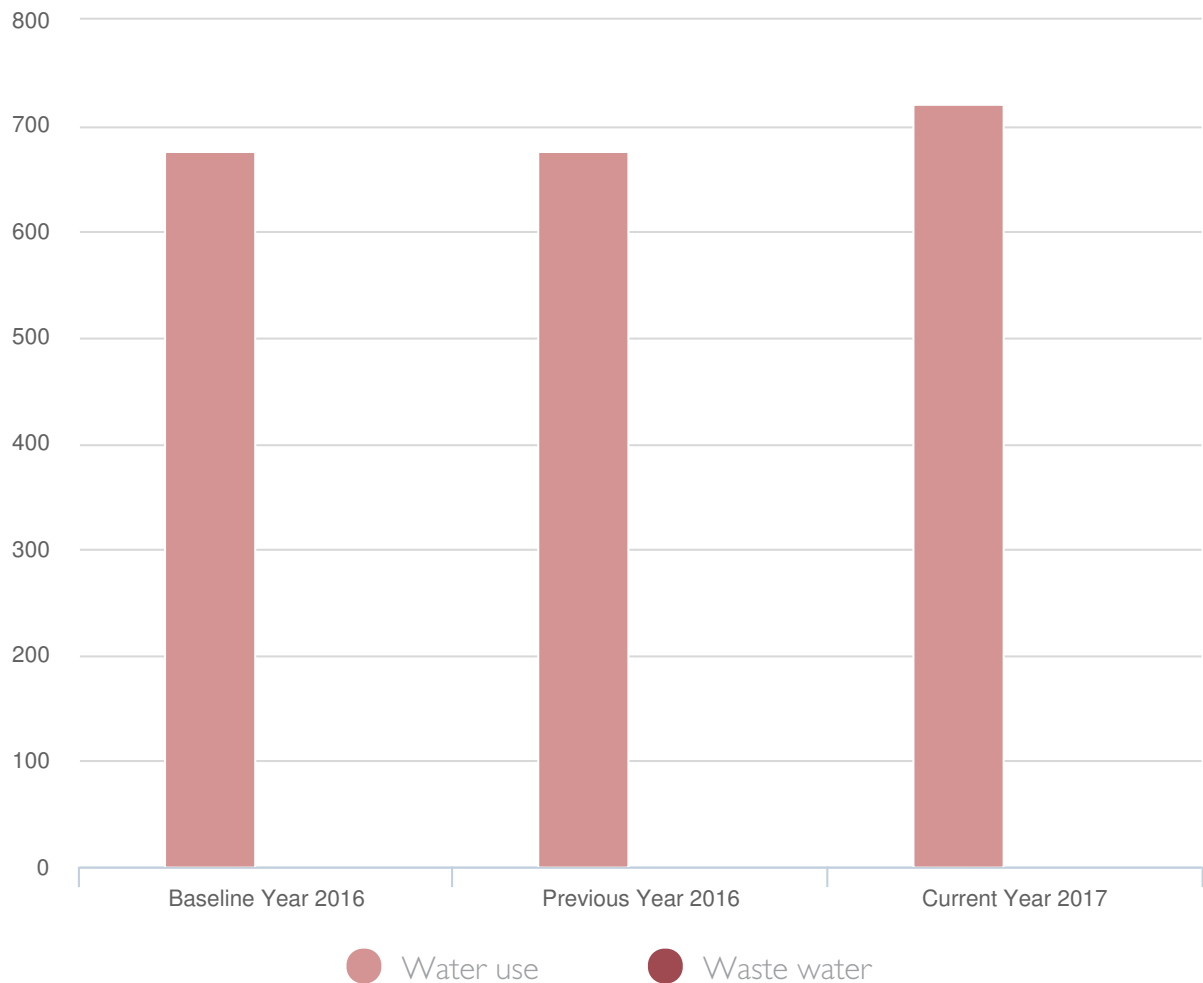




WATER USE

WATER USE	UNIT	BASELINE YEAR 2016	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Total water use and waste water	m3	676	676	721	6 %	6 %
Relative water use and waste water	litres per Visitor	10	10	10	2 %	2 %
Water use	m3	676	676	721	6 %	6 %
Waste water	m3	0.0	0.0	0.0	No data	No data

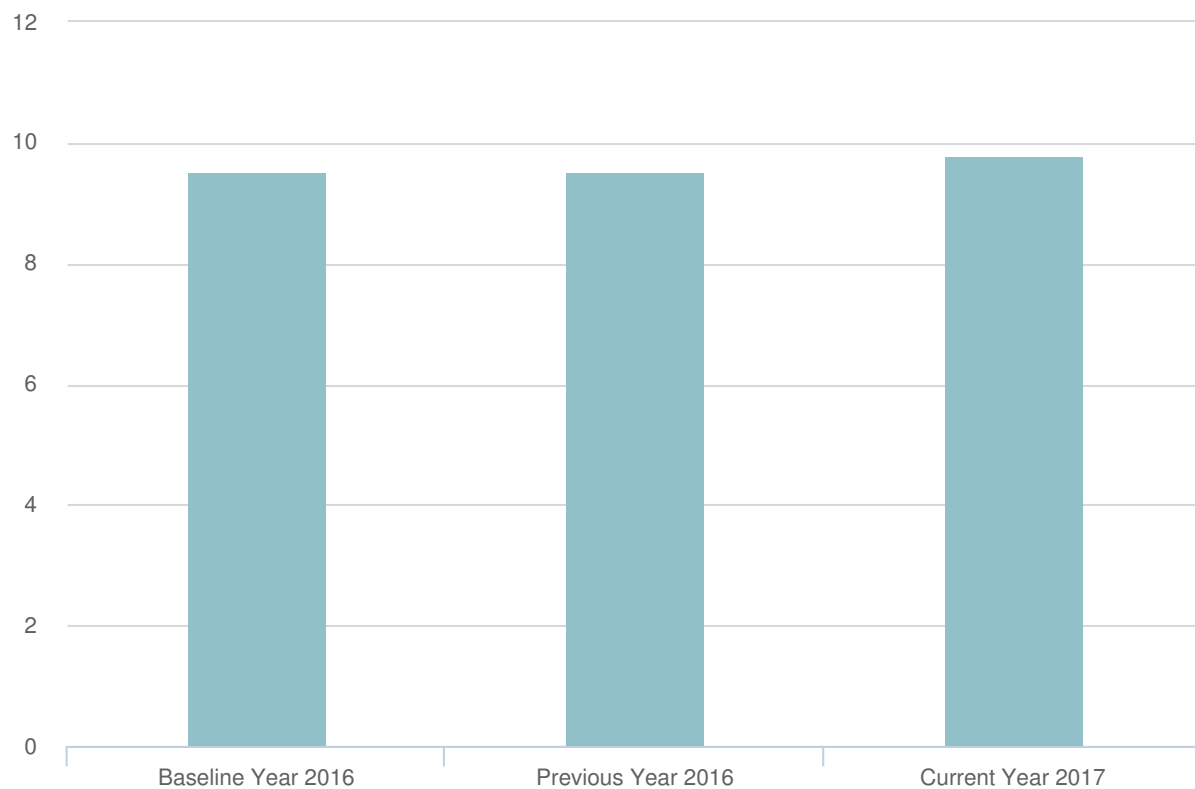
Water use (m3)





WATER USE

Water use (litres per visitor)

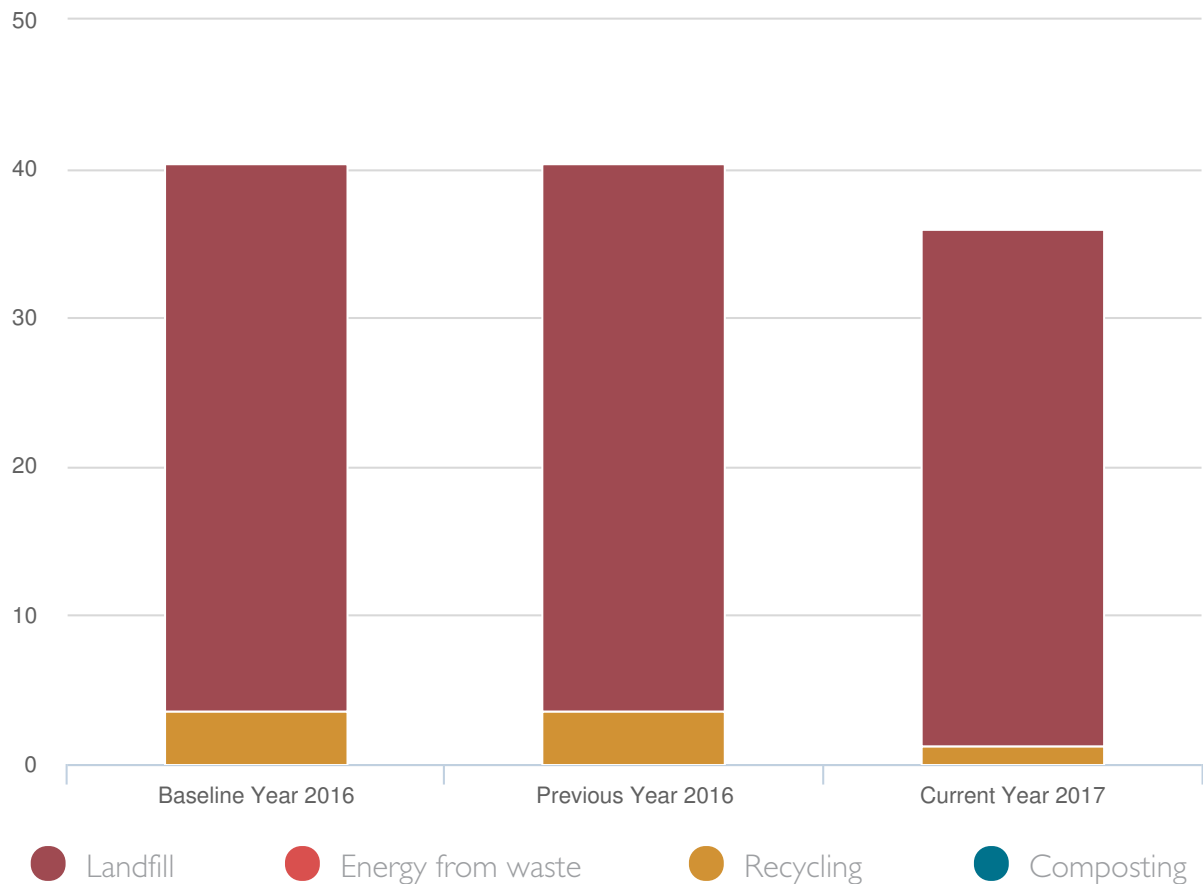




WASTE GENERATION

WASTE	UNIT	BASELINE YEAR 2016	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Waste generation - absolute	tonnes	40	40	36	-11 %	-11 %
Waste generation - relative	kg per Visitor	0.6	0.6	0.5	-14 %	-14 %
Landfill waste	tonnes	37	37	35	-5 %	-5 %
Energy from waste	tonnes	0.0	0.0	0.0	No data	No data
Recycling	tonnes	4	4	1	-64 %	-64 %
Composting	tonnes	0.0	0.0	0.0	No data	No data

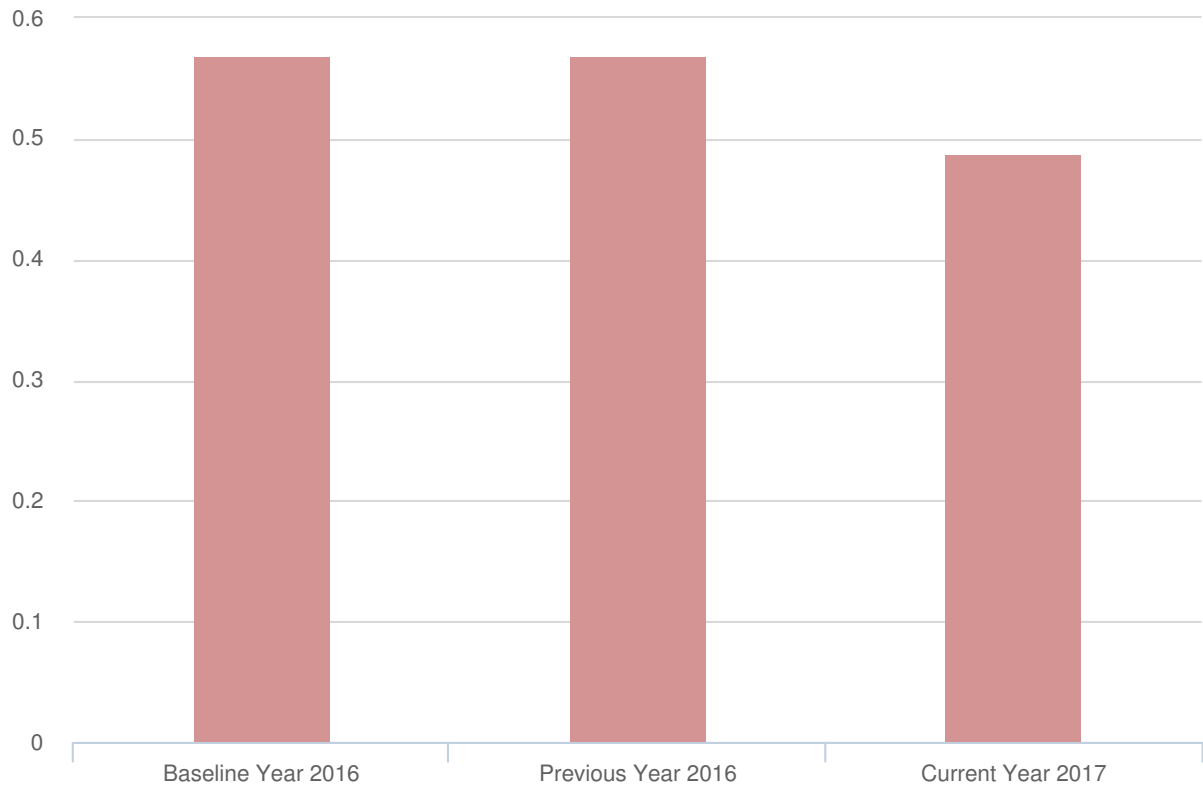
Waste (tonnes)





WASTE GENERATION

Waste (kg per visitor)

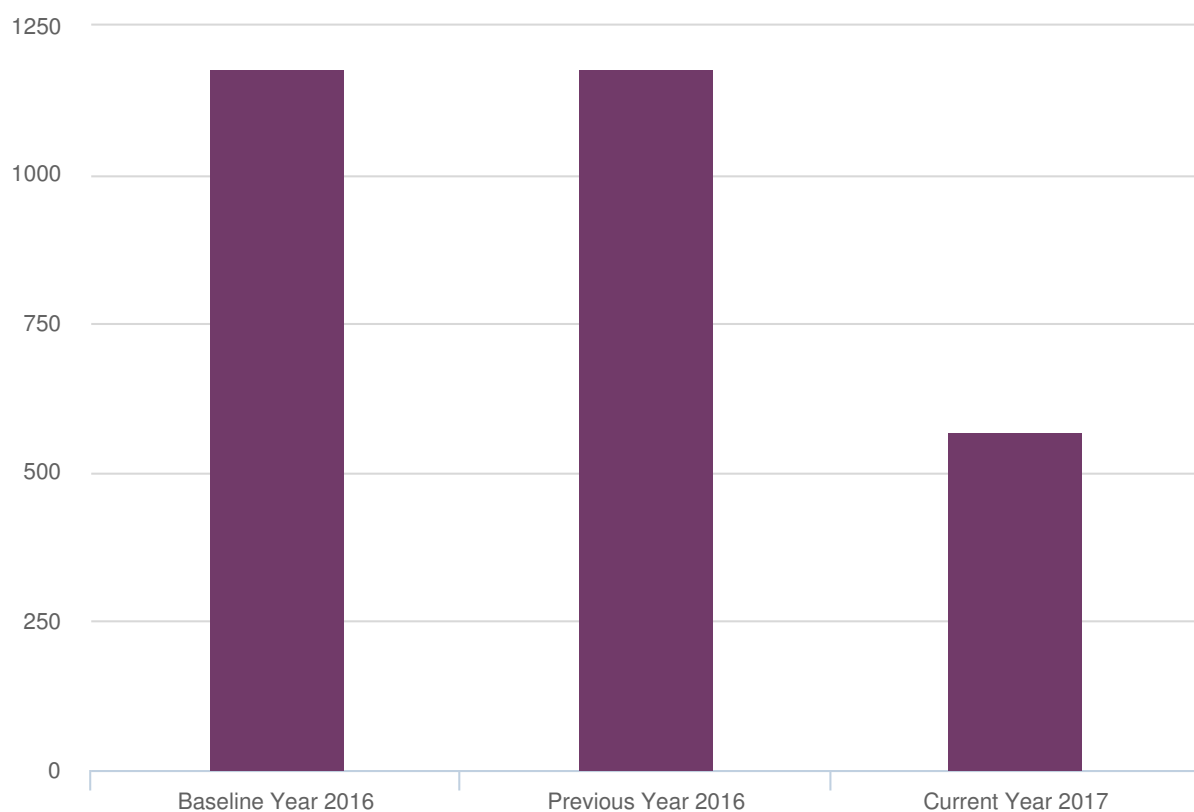




TRANSPORT RELATED EMISSIONS

TRANSPORT RELATED EMISSIONS	UNIT	BASELINE YEAR 2016	PREVIOUS YEAR 2016	CURRENT YEAR 2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Total transport related emissions - absolute	kg CO2e	1,176	1,176	567	-51 %	-51 %
Total transport related emissions - relative	kg CO2e per Employee	118	118	57	-51 %	-51 %
Car service	km	1,600	1,600	1,800	12 %	12 %
	kg CO2e	345	345	355	3 %	3 %
Train - national	km	8,600	8,600	3,600	-58 %	-58 %
	kg CO2e	420	420	168	-59 %	-59 %
Taxi - regular	km	200	200	200	0 %	0 %
	kg CO2e	46	46	44	-4 %	-4 %
Flight - shorthaul	km	2,216	2,216	0.0	No data	No data
	kg CO2e	366	366	0.0	No data	No data
Flight - longhaul	km	0.0	0.0	0.0	No data	No data
	kg CO2e	0.0	0.0	0.0	No data	No data

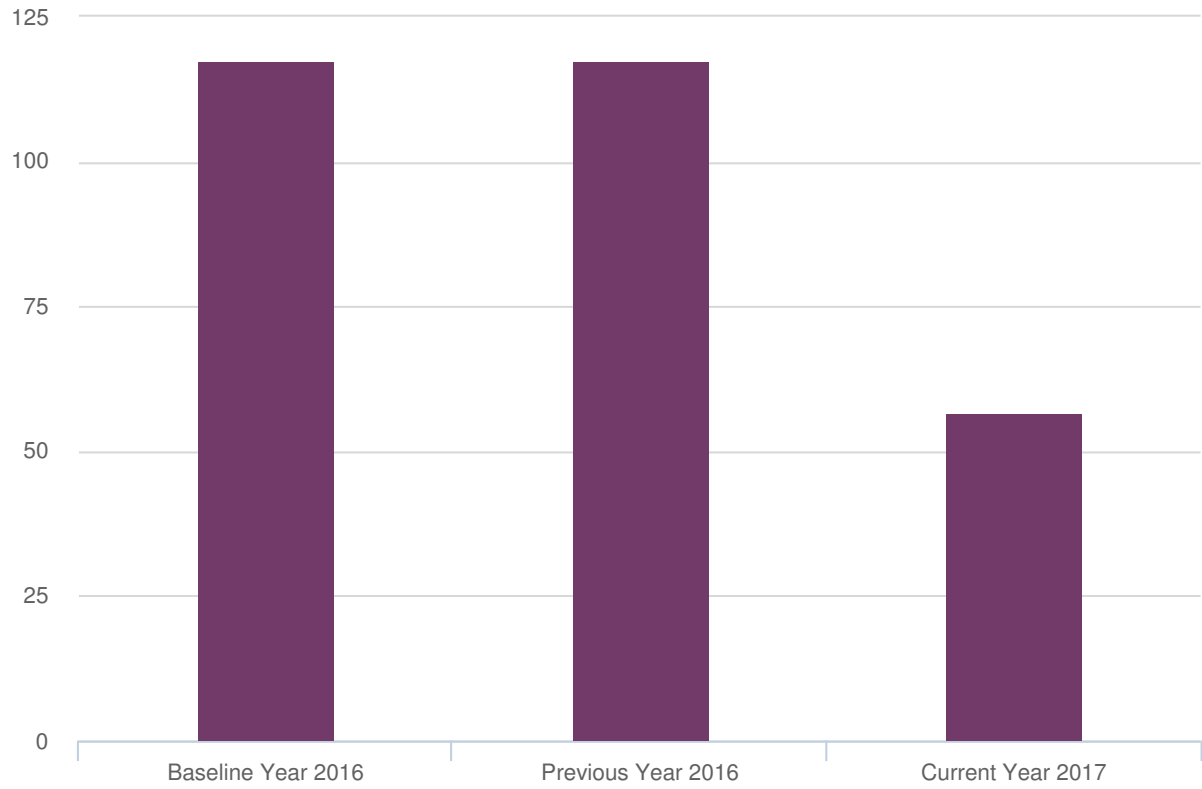
Transport emissions (kg CO2e)





TRANSPORT RELATED EMISSIONS

Transport emissions (kg CO₂e per employee)





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