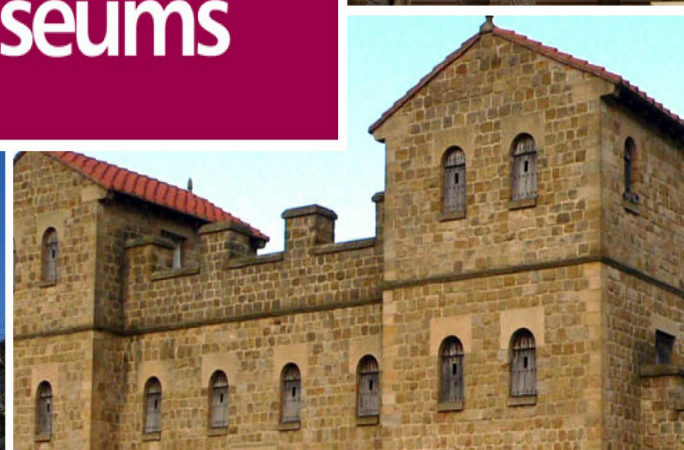
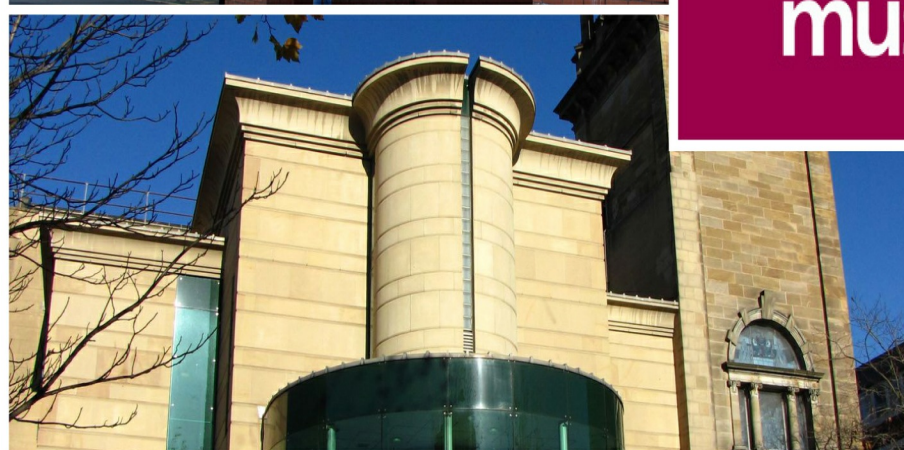




TYNE & WEAR
archives &
museums



CREATIVE



GREEN



Great North Museum:
Hancock

CREATIVE GREEN REPORT
2016/17

Great North Museum: Hancock
CREATIVE GREEN KEY RESULTS

Environmental assessment of:

COMMITMENT	33 / 40
UNDERSTANDING	17 / 25
IMPROVEMENT	17 / 35

TOTAL POINTS 67 / 100



COMMITMENT to the environment

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



UNDERSTANDING of the following environmental impacts



energy



emissions



water



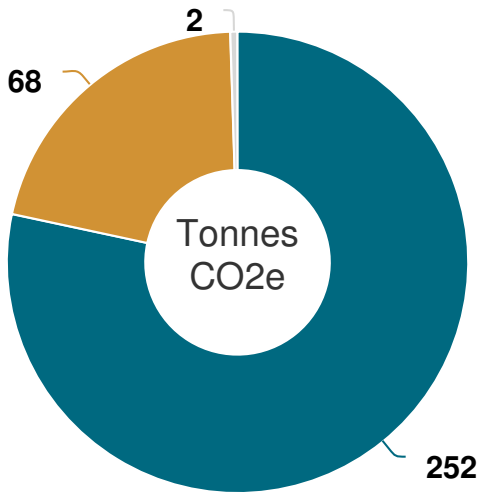
people



IMPROVEMENT towards reducing environmental impacts

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

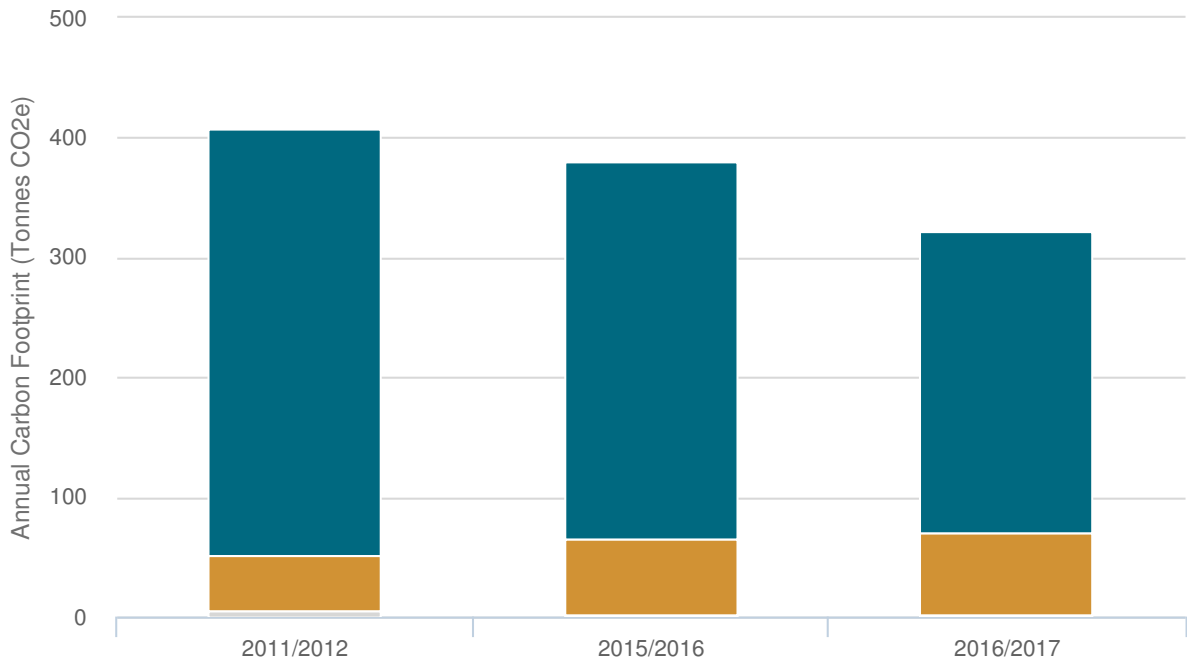
GREAT NORTH MUSEUM: HANCOCK		STATISTICS
Type		venue
Floor area		6,411
Tickets sold		495,796
Number of performances		0.0
Number of staff		31



The total carbon footprint in 2016/2017 was 321 Tonnes CO2e

- Electricity
- Gas
- Water use and waste water

Note: All figures are rounded





HIGHLIGHTS

COMMITMENT to the environment

- Environmental policy which includes environmental impacts, objectives, monitoring and employee and stakeholder engagement.
- Environmental Action Plan with a focus on environmental impact monitoring, management and reduction.
- Committed Environmental and Sustainability Working Group and Green Champions.
- Creative programming with environmental themes e.g. 'Play + Invent' & The ERIC project that collects comprehensive, accessible and reliable information on the species and habitats of the North East.
- Staff engagement schemes including Bike2Work scheme, Green Office week and 'Waste Free Lunch'.

UNDERSTANDING of the following environmental impacts

- Monthly energy and water monitoring alongside waste and business travel.
- Monitoring of paper use, printing and publications.
- Rolling programme of LED lighting installed within venues for example display cases, public galleries and basement stores
- Benchmarking survey for audience travel.
- TWAM staff environmental attitudes 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

RESULTS IN FULL



ENVIRONMENTAL COMMITMENT

ASSESSMENT AREAS	POINTS AVAILABLE	POINTS AWARDED
Policy, strategy & responsibilities	12	10
Procurement	5	3
Communication and engagement	23	20
Total Points	40	33

HIGHLIGHTS

- Environmental policy which includes environmental impacts, objectives, monitoring and employee and stakeholder engagement.
- Environmental Action Plan with a focus on environmental impact monitoring, management and reduction.
- Committed Environmental and Sustainability Working Group and Green Champions.
- Creative programming with environmental themes e.g. 'Play + Invent' & The ERIC project that collects comprehensive, accessible and reliable information on the species and habitats of the North East.
- Staff engagement schemes including Bike2Work scheme, Green Office week and 'Waste Free Lunch'.

RECOMMENDATIONS

- Define key (quantitative where possible) objectives and targets for all main environmental impacts areas (e.g. carbon, energy, water, waste) and communicate them explicitly in the environmental policy and action plan.
- Align targets disclosed within the environmental policy to the UK government's Climate Change Act and the Paris Agreement.
- Include a context section in the environmental policy describing why climate change matters to Tyne & Wear Archives & Museums and the importance of acting on its environmental impacts.
- Justify any areas that are excluded from TWAM's action plan over which TWAM has lower influence e.g. energy procurement.
- Explore more options for programming events addressing environmental issues e.g. contributing to [Season for Change](#).
- Engage further with incoming artists by developing artist welcome packs which include a briefing on TWAM's environmental commitments.

ENVIRONMENTAL UNDERSTANDING

ASSESSMENT AREAS	POINTS AVAILABLE	POINTS SCORED
Submission of energy, water, waste, business travel, production	4	2
Attitudinal insights	4	4
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	0
Evaluation of learning and outcomes	2	1
Total Points	25	17

HIGHLIGHTS

- Monthly energy and water monitoring alongside waste and business travel.
- Monitoring of paper use, printing and publications.
- Rolling programme of LED lighting installed within venues for example display cases, public galleries and basement stores
- Benchmarking survey for audience travel.
- TWAM staff environmental attitudes survey.

RECOMMENDATIONS

- Develop Key Performance Indicators (KPIs) to measure success and include these targets within your Action Plan.
- Start collating and submitting data on waste and business travel.
- Further develop understanding of the environmental impacts of TWAM exhibitions from design through to curation e.g. materials used, transportation, storage, communications etc.
- Develop a Collections Environmental Management Strategy and Guidance document for collections and loans.
- Ensure staff travel survey results contain distance of travel and mode of transport so this data can be uploaded to the IG tools.
- Audit key suppliers and always request they provide an up to date environmental policy.
- Develop audience travel questions to include reasons behind their mode of choice.

ENVIRONMENTAL IMPROVEMENT

HIGHLIGHTS

Current year: 2016/2017

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

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	-4 %	-4 %	3	3
Energy use related emissions	-20 %	-15 %	3	3
Water	12 %	-20 %	2	2
Waste	No data	No data	2	0
Business travel	No data	No data	2	0
Total Points			12	8

RELATIVE	RELATIVE METRIC	CURRENT VS. BASELINE	CURRENT VS. PREVIOUS	POINTS AVAILABLE	POINTS AWARDED
Energy use	per m2	-4 %	-4 %	5	2
Energy use related emissions	per m2	-20 %	-15 %	5	4
Water	per m2	12 %	-20 %	4	2
Waste	per m2	No data	No data	4	0
Business travel	per Employee	No data	No data	4	0
Total Points				22	8



ENVIRONMENTAL IMPROVEMENT RECOMMENDATIONS

Achievements

- Absolute energy use decreased by 4% between 2011 and 2016 and by 4% between 2015 and 2016.
- Furthermore, absolute energy related emissions decreased by 20% between 2011 and 2016 and by 15% between 2015 and 2016.
- Absolute water use decreased by 20% between 2015 and 2016.

Next Steps: Energy

- Continue developing energy saving initiatives e.g. rolling LED programme.
- Look at the feasibility of increasing the amount of renewable energy infrastructure onsite.
- Work with catering concessions on energy management and efficiency.
- Continue developing energy management good practice. See [ISO50001](#) for best practice advice.

Next Steps: Water

- Continue developing water saving initiatives e.g. investigate mechanisms to recycle any left over water; work with catering concessions on reducing water use.

Next Steps: Waste

- Submit waste data to the IG Tools to allow Julie's Bicycle to examine Discovery's performance and provide appropriate recommendations.

Next Steps: Travel

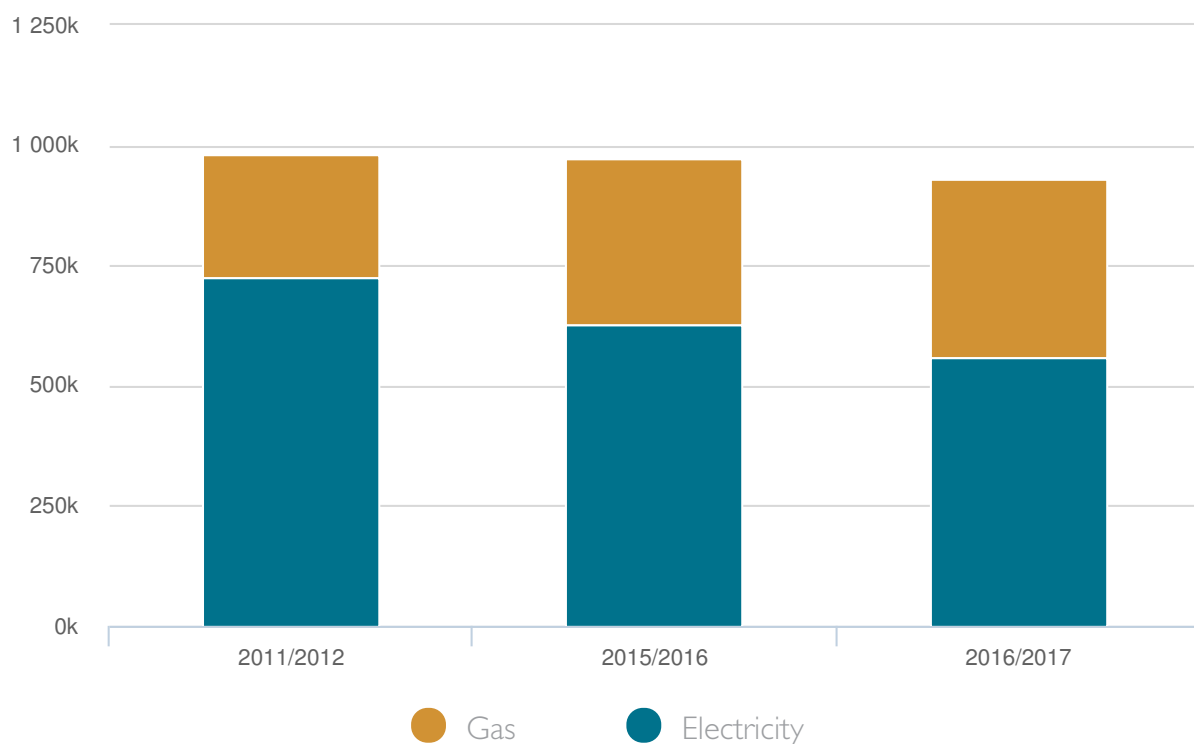
- Integrate a travel survey within the ticket booking process.
- Continue to collect figures for visitor numbers/tickets sold and enter this data into the IG Tools to allow per visitor relative comparisons of your carbon footprint.



ENERGY USE

ENERGY USE	UNIT	BASELINE YEAR 2011/2012	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use (electricity and gas) -- absolute	kWh	981,292	972,061	930,037	-4 %	-5 %
Electricity	kWh	726,807	627,510	560,654	-10 %	-22 %
Gas (weather normalised)	kWh	254,485	344,551	369,383	7 %	45 %
Energy use (electricity and gas) -- relative	kWh per m2	153	152	145	-4 %	-5 %
Electricity	kWh per m2	113	98	87	-10 %	-22 %
Gas (weather normalised)	kWh per m2	40	54	58	7 %	45 %
Mains electricity - absolute	kWh	726,807	627,510	560,654	-10 %	-22 %
Green tariff mains electricity	kWh	0.0	0.0	0.0	No data	No data
Mains gas - absolute	kWh	280,313	378,852	400,273	5 %	42 %
Weather gas normalised - absolute	kWh	254,485	344,551	369,383	7 %	45 %

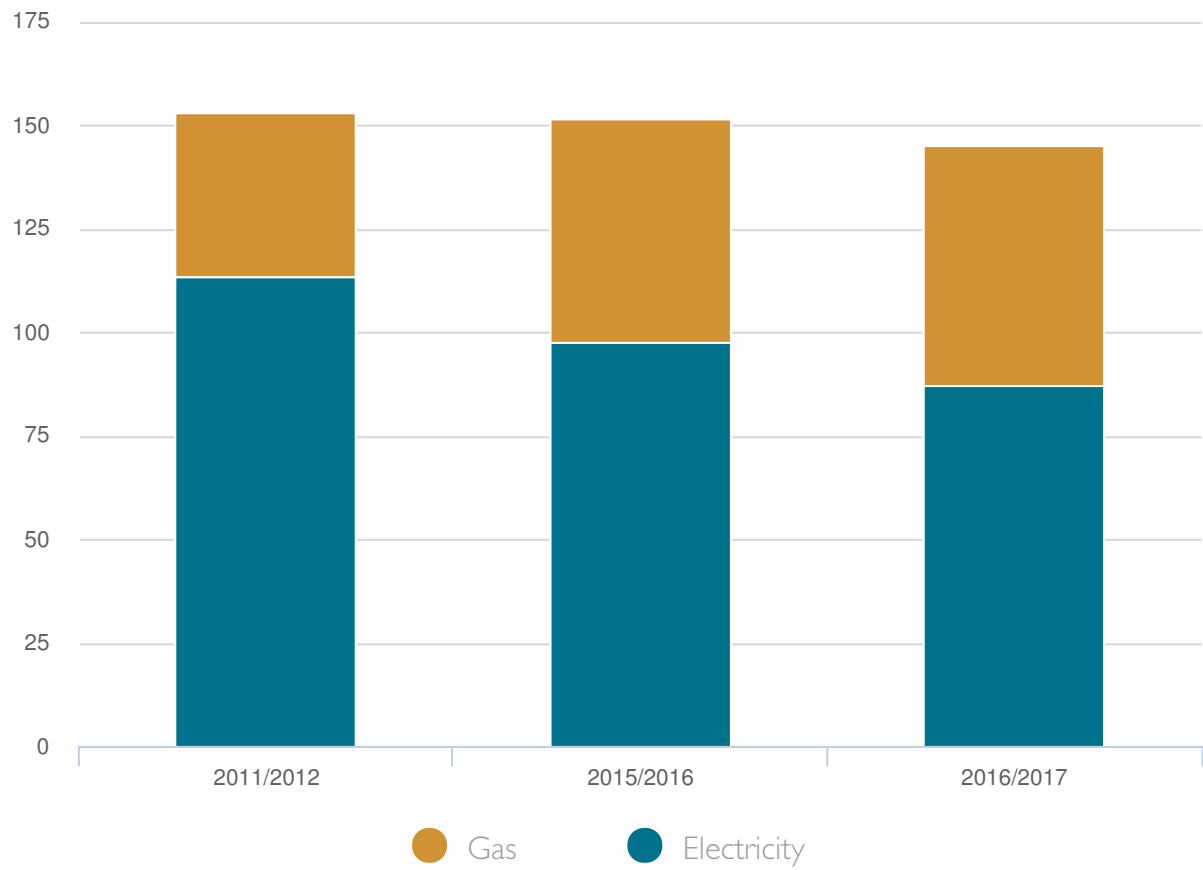
Energy consumption (kWh)





ENERGY USE

Energy consumption (kWh per m2)

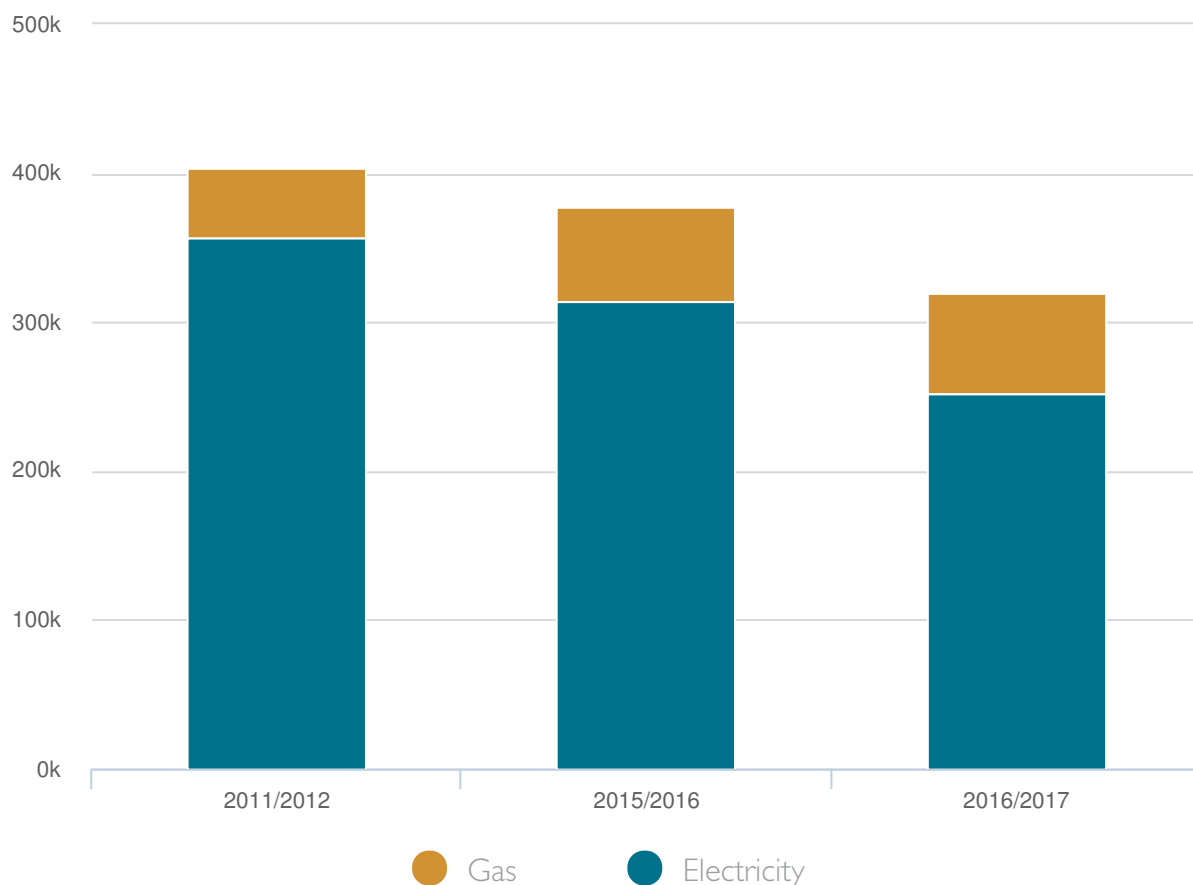




ENERGY USE RELATED EMISSIONS

ENERGY RELATED EMISSIONS	UNIT	BASELINE YEAR 2011/2012	PREVIOUS YEAR 2015/2016	CURRENT YEAR 2016/2017	% CHANGE CURRENT VS PREVIOUS	% CHANGE CURRENT VS BASELINE
Energy use emissions (all sources) - absolute	kg CO2e	408,480	383,854	325,563	-15 %	-20 %
Energy use emissions (all sources) - relative	kg CO2e per m2	64	60	51	-15 %	-20 %
Electricity	kg CO2e	356,630	313,975	251,913	-19 %	-29 %
Green tariff mains electricity	kg CO2e	0.0	0.0	0.0	No data	No data
Normalised gas	kg CO2e	47,073	63,552	67,967	6 %	44 %

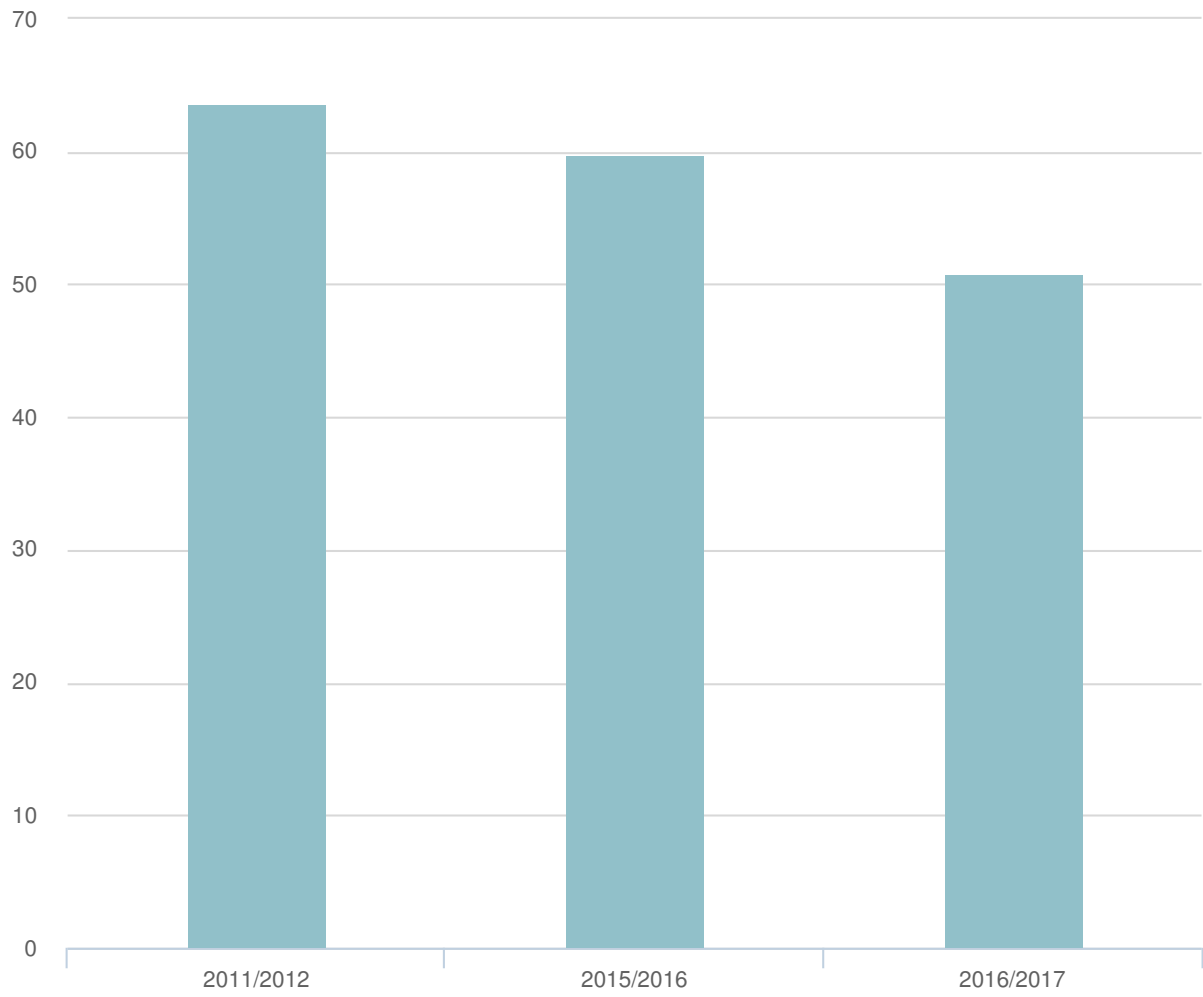
Energy use emissions (kg CO2e)





ENERGY USE RELATED EMISSIONS

Energy use emissions (kg CO₂e per m²)

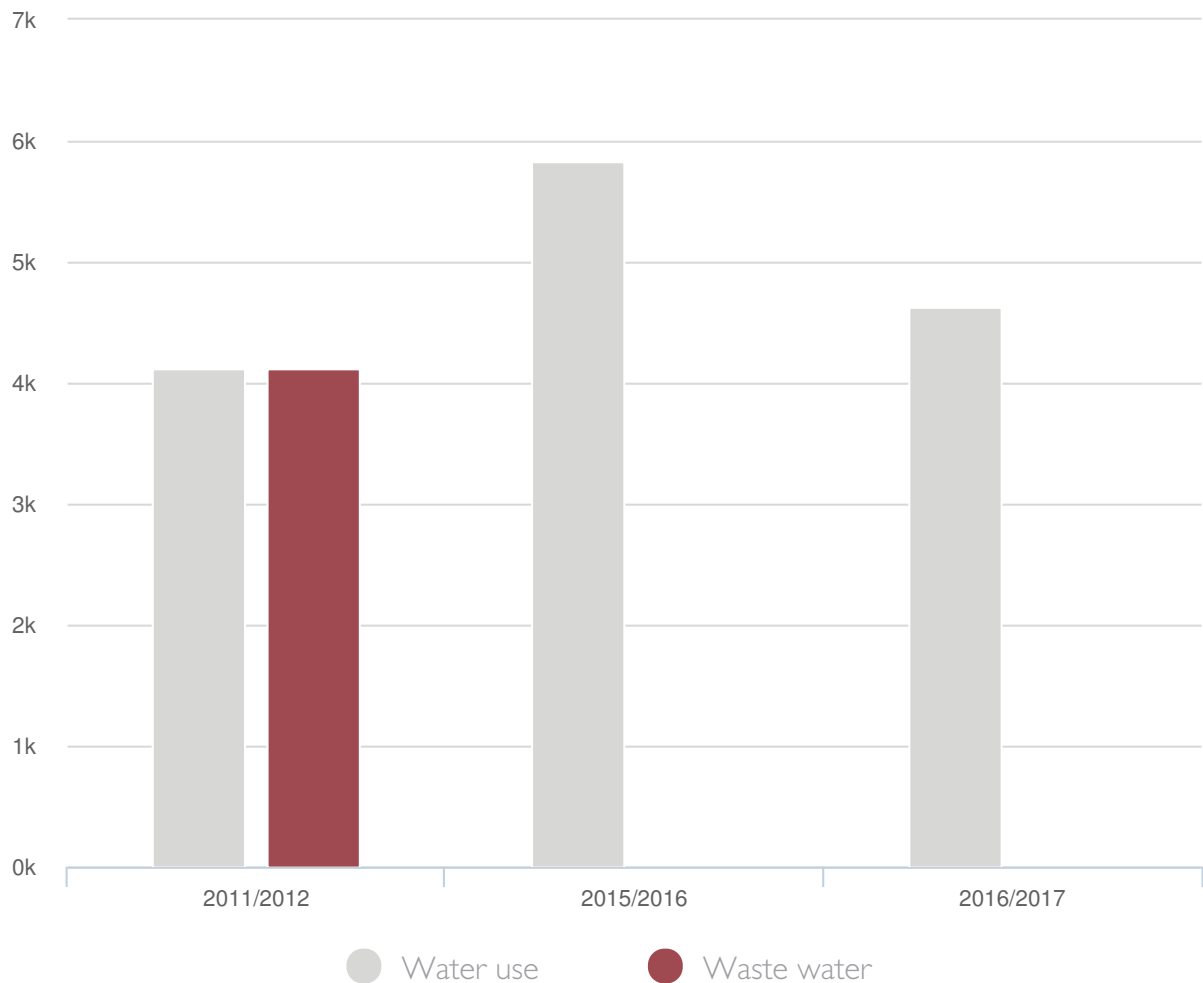




WATER USE

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	4,122	5,827	4,630	-20 %	12 %
Relative water use and waste water	litres per m2	643	909	722	-20 %	12 %
Water use	m3	4,122	5,827	4,630	-20 %	12 %
Waste water	m3	4,122	0.0	0.0	No data	-100 %

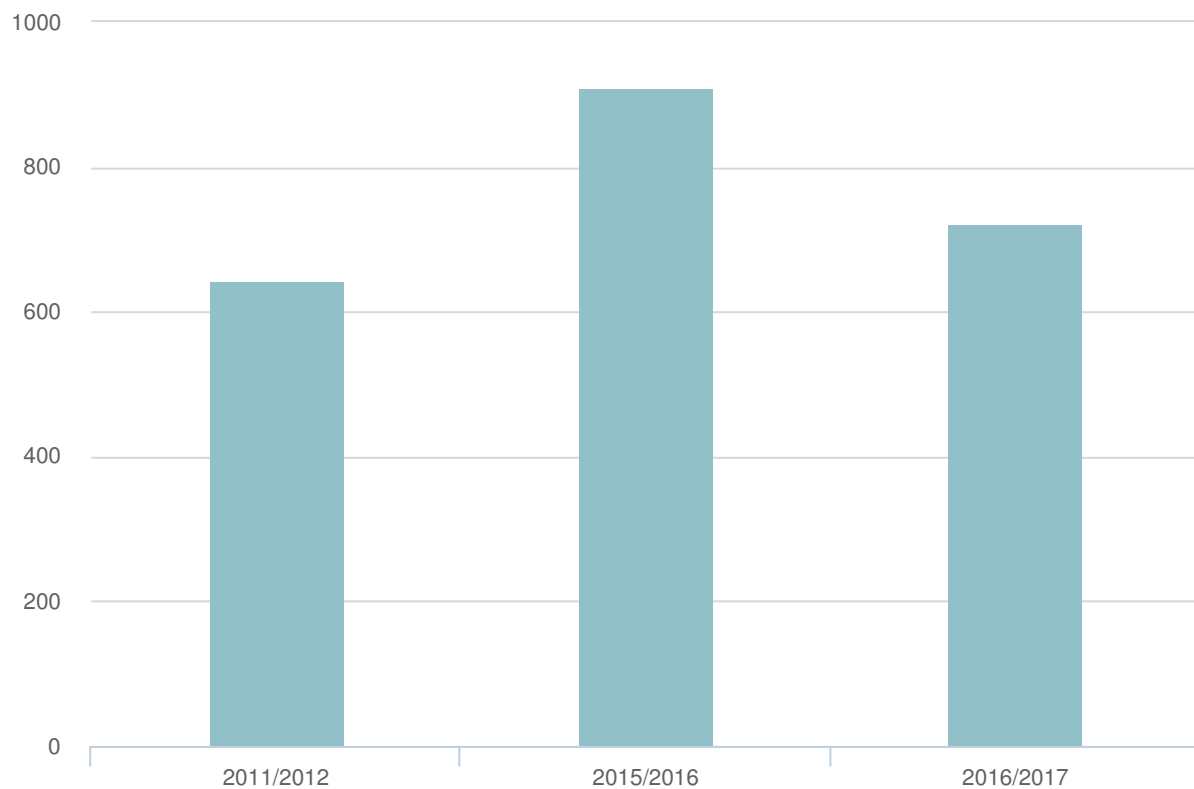
Water use (m3)





WATER USE

Water use (litres per m2)





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#creativegreen