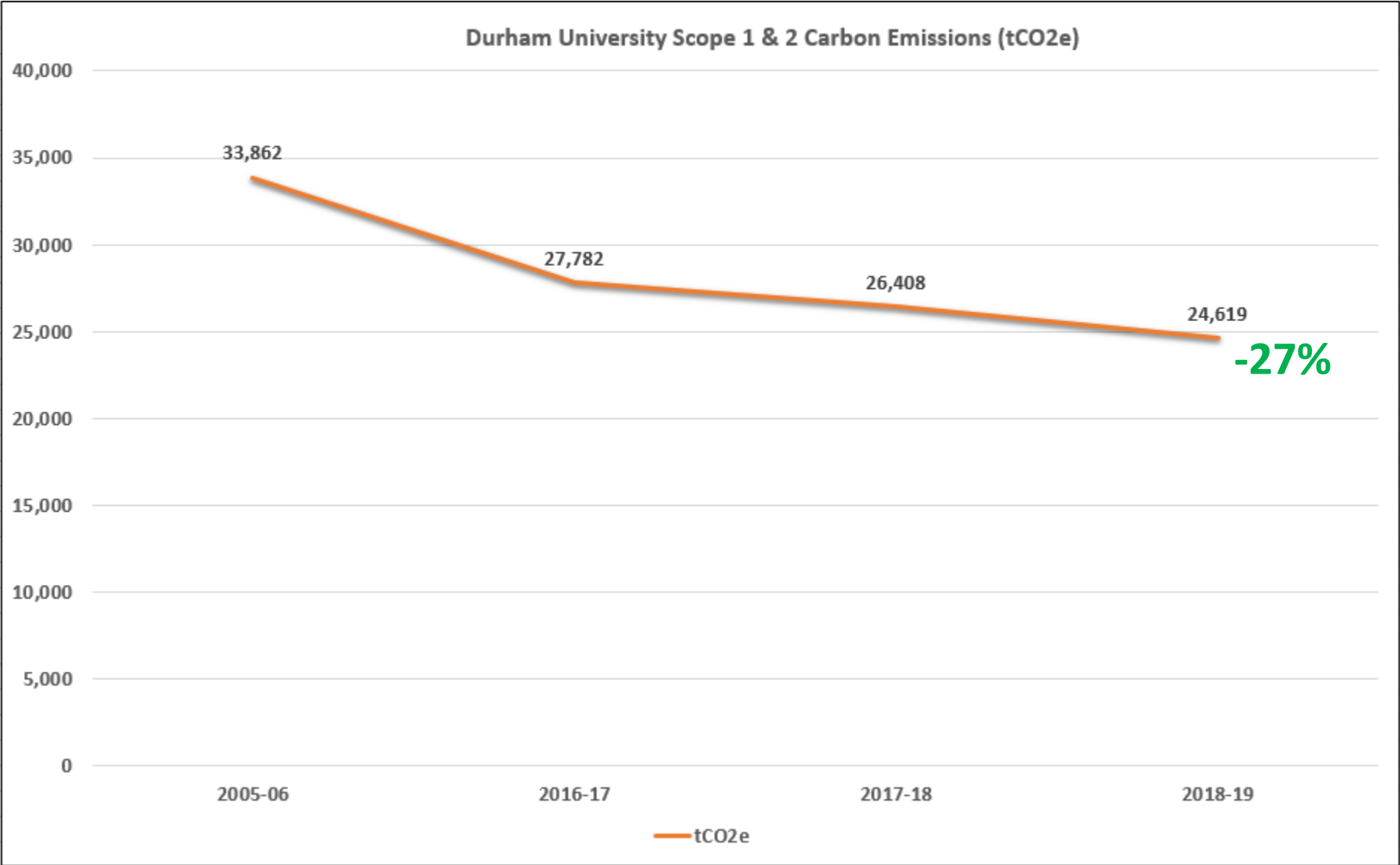


Energy & Water KPI Analysis

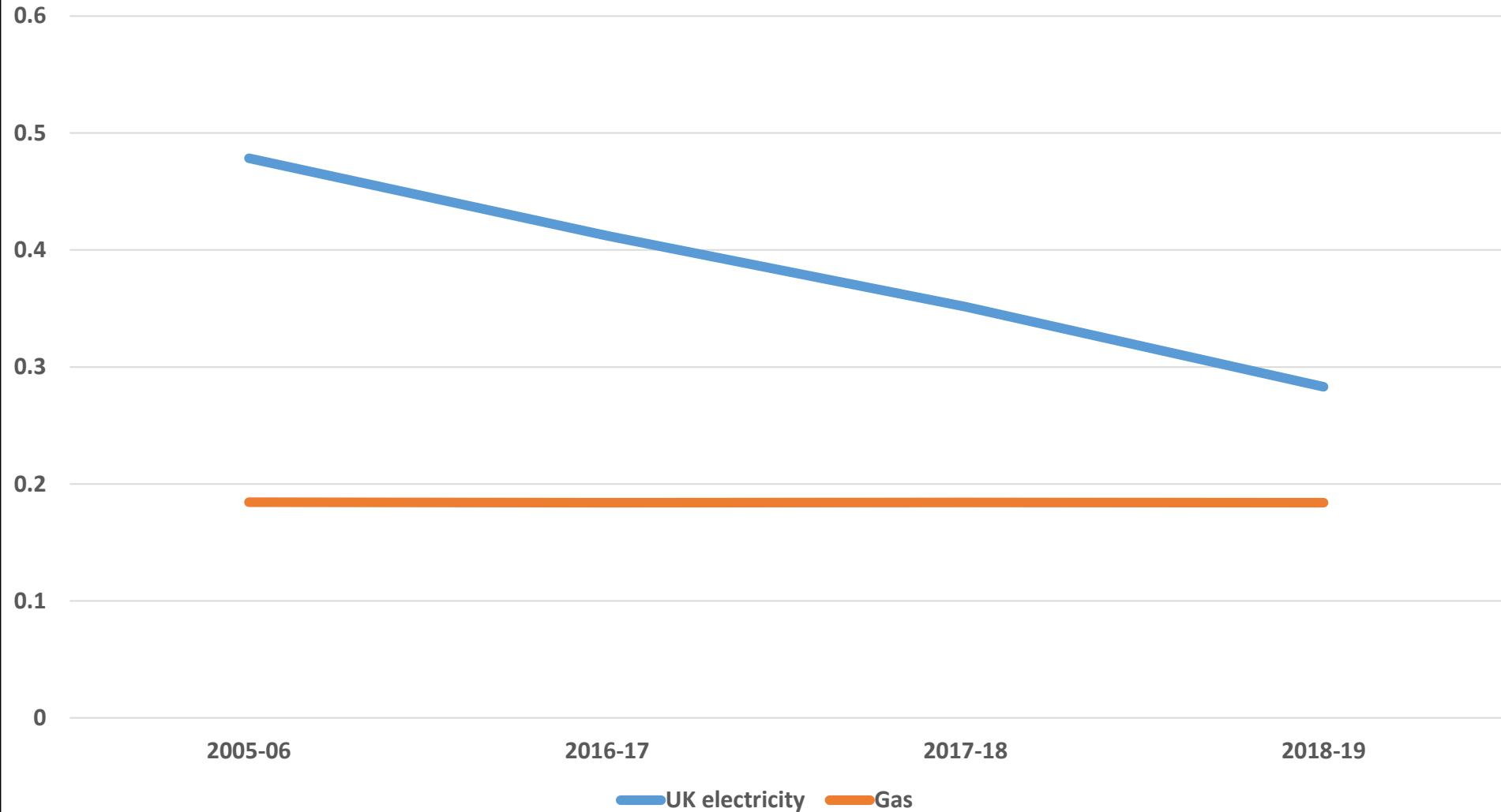
Observations

- Scope 1 & 2 carbon emissions have fallen.
- Total energy consumption has remained similar to baseline levels.
- The estate has grown and the number of students has increased.
- The carbon intensity of UK grid electricity has fallen by 40%.
- The energy performance of non-residential buildings has improved.
- The energy performance of residential buildings has not changed significantly.

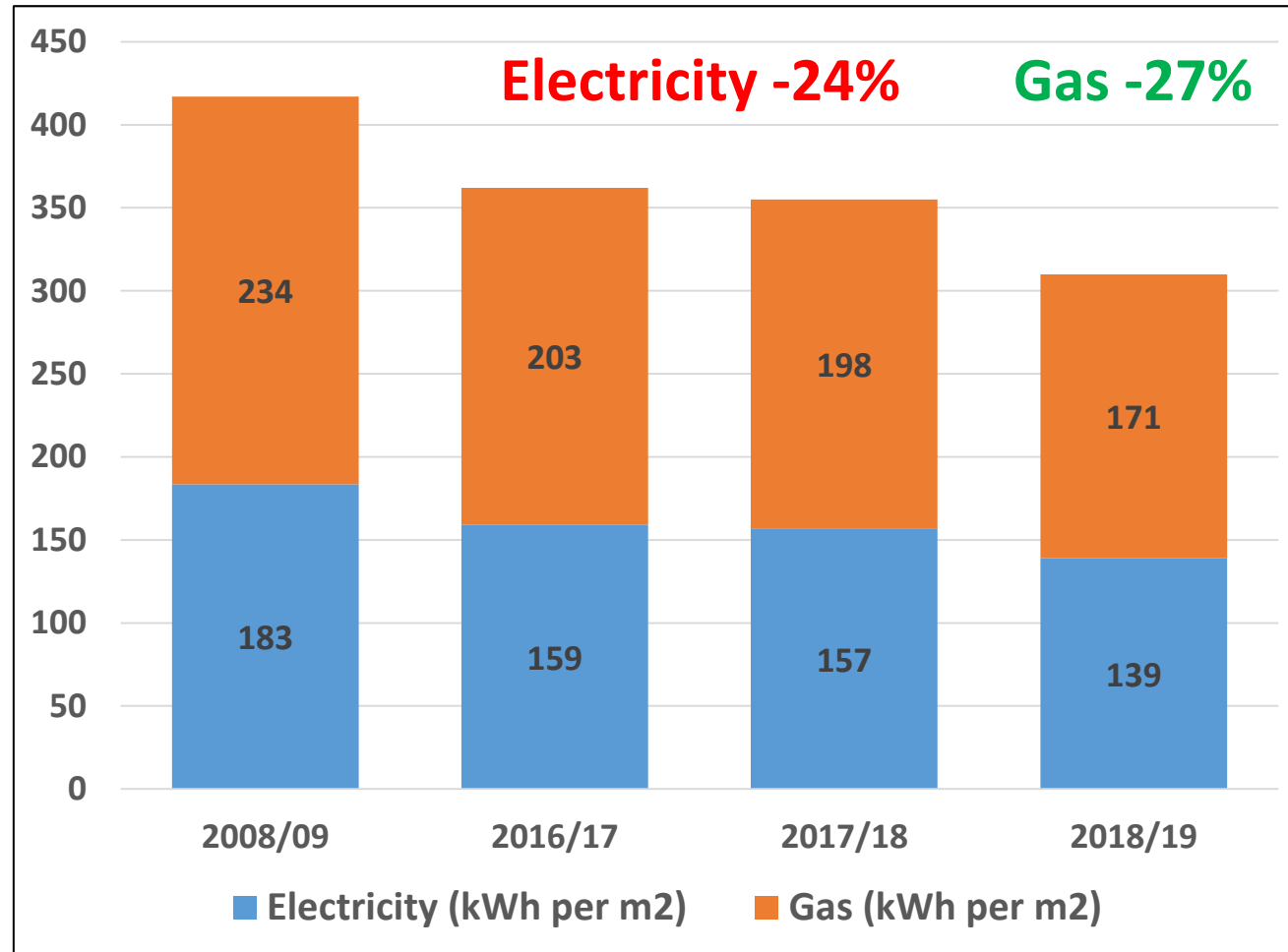
Maintain a 5% scope 1 & 2 absolute carbon reduction to 2019-20



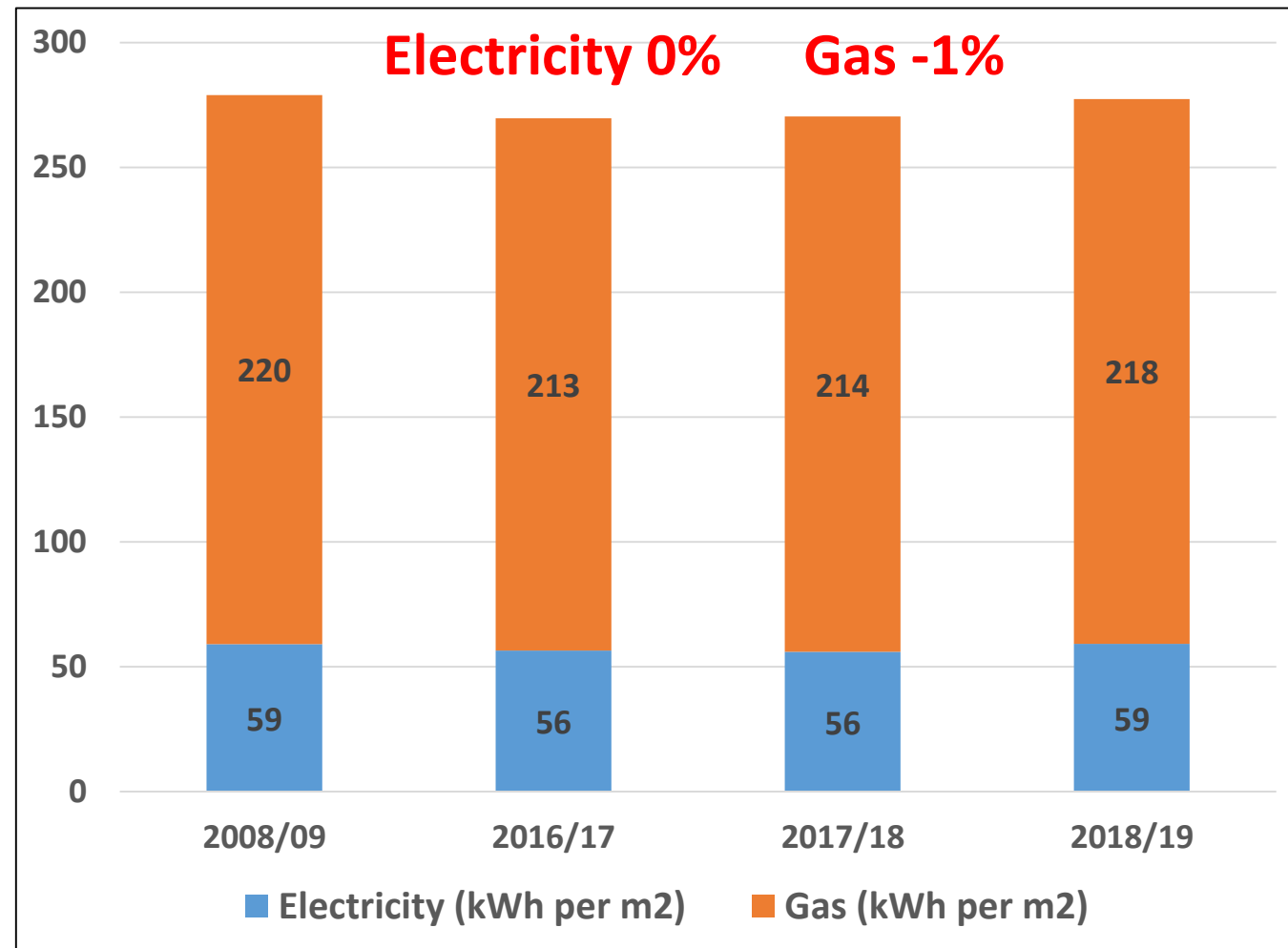
**Carbon Intensity of UK Grid Electricity and Natural Gas
(kg CO₂e per kWh)**



25% reduction in non-residential electricity and gas consumption per GIA m²



*15% reduction in **residential** electricity consumption and 10% reduction in residential gas consumption per GIA m²*



100% of electricity and gas purchased with green tariffs by 2019-20



Our business is backed by electricity generated from renewable sources.

We certify that Durham University has 100% of its electricity supply from EDF Energy backed by Clean Renewable 100%

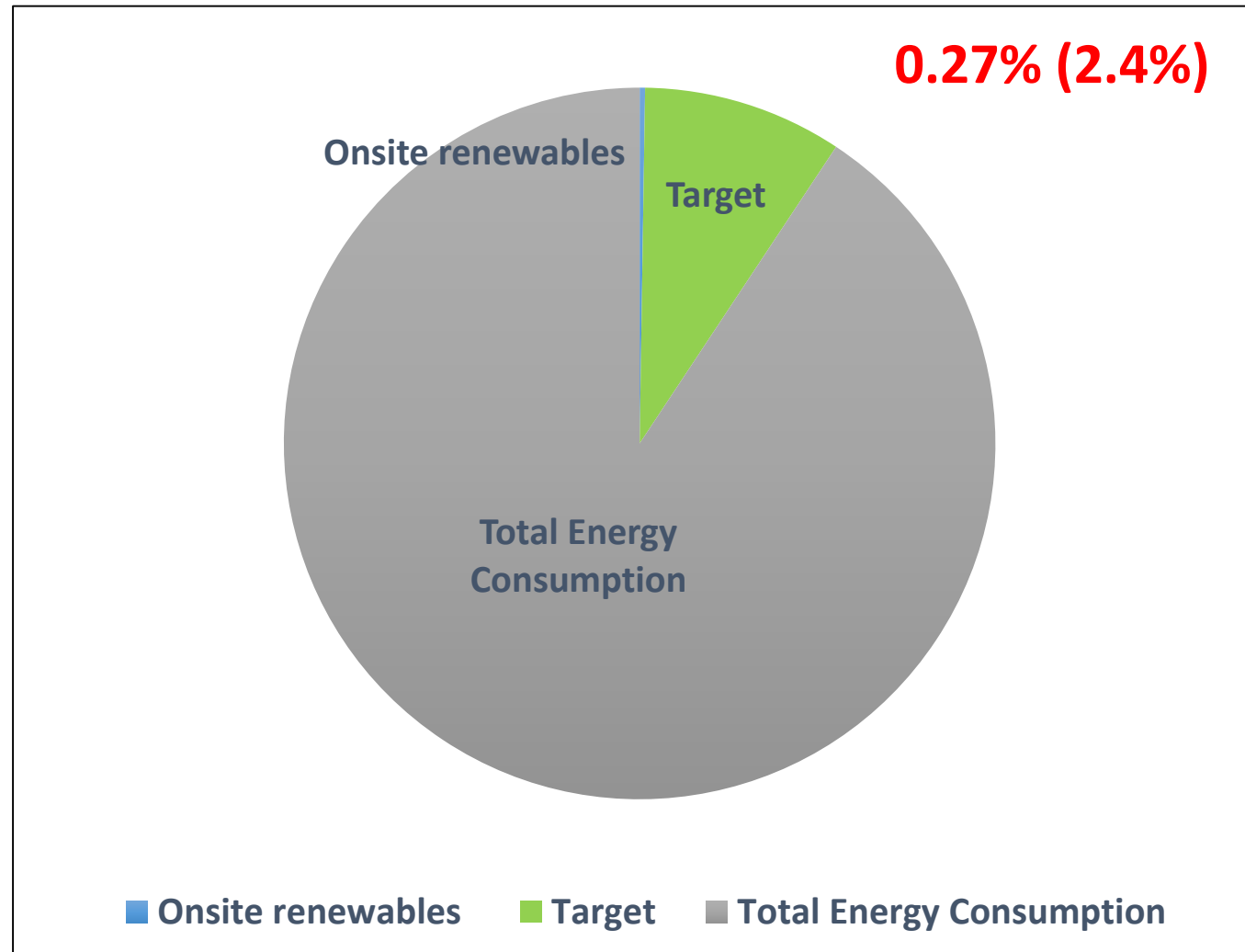
1 October 2019 to 31 March 2020

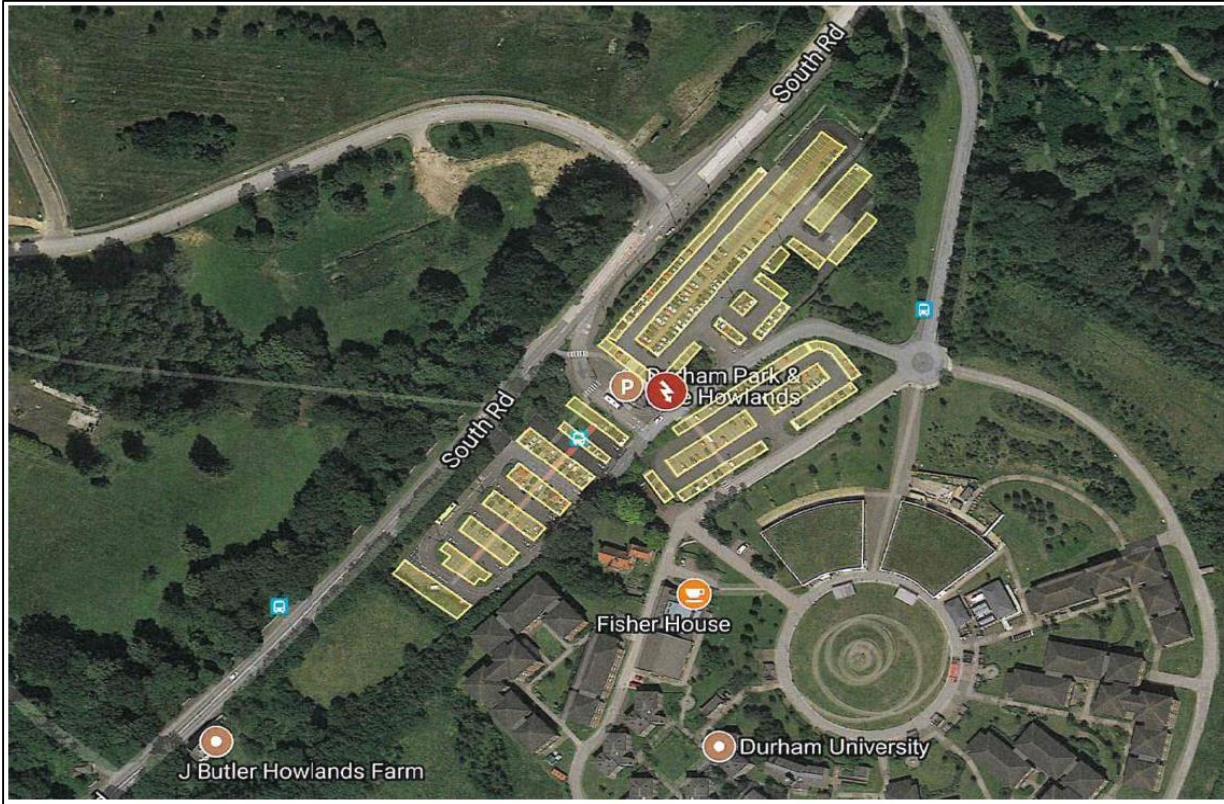
A handwritten signature in black ink, appearing to read 'Rich Hughes', with a horizontal line underneath.

Rich Hughes
Director of Sales and Marketing

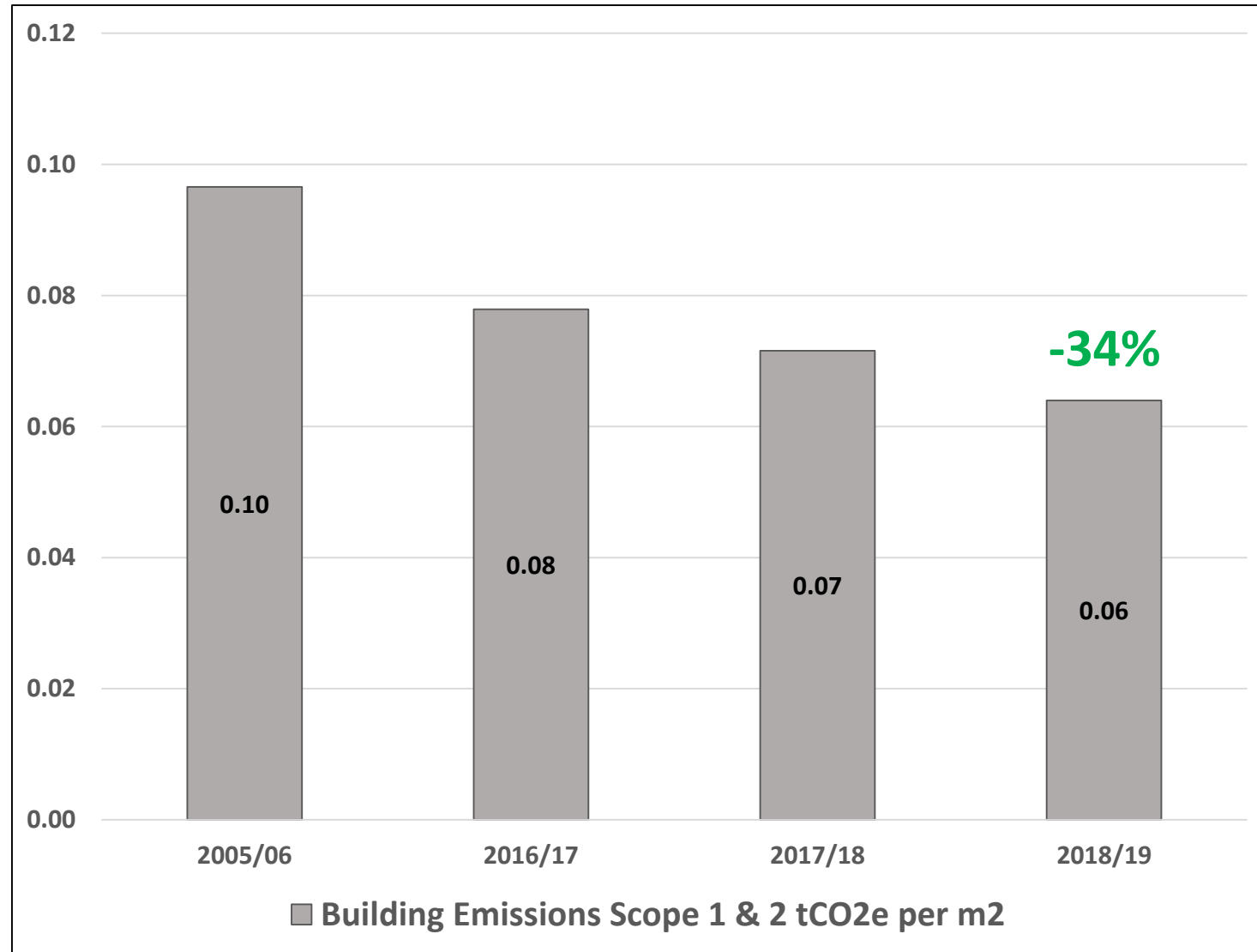
All source certification meets GHG Protocol Scope 2 Guidance Quality Criteria. This is not a REGO certificate. REGO certificates are held by energy suppliers for Fuel Mix Disclosure. The low carbon electricity that we buy for Renewable tariffs and products is supplied into the National Grid. Customers receive that electricity through the National Grid, not directly from low-carbon generators.

10% of estate energy consumption from renewable/low zero carbon sources generated onsite by 2019-20

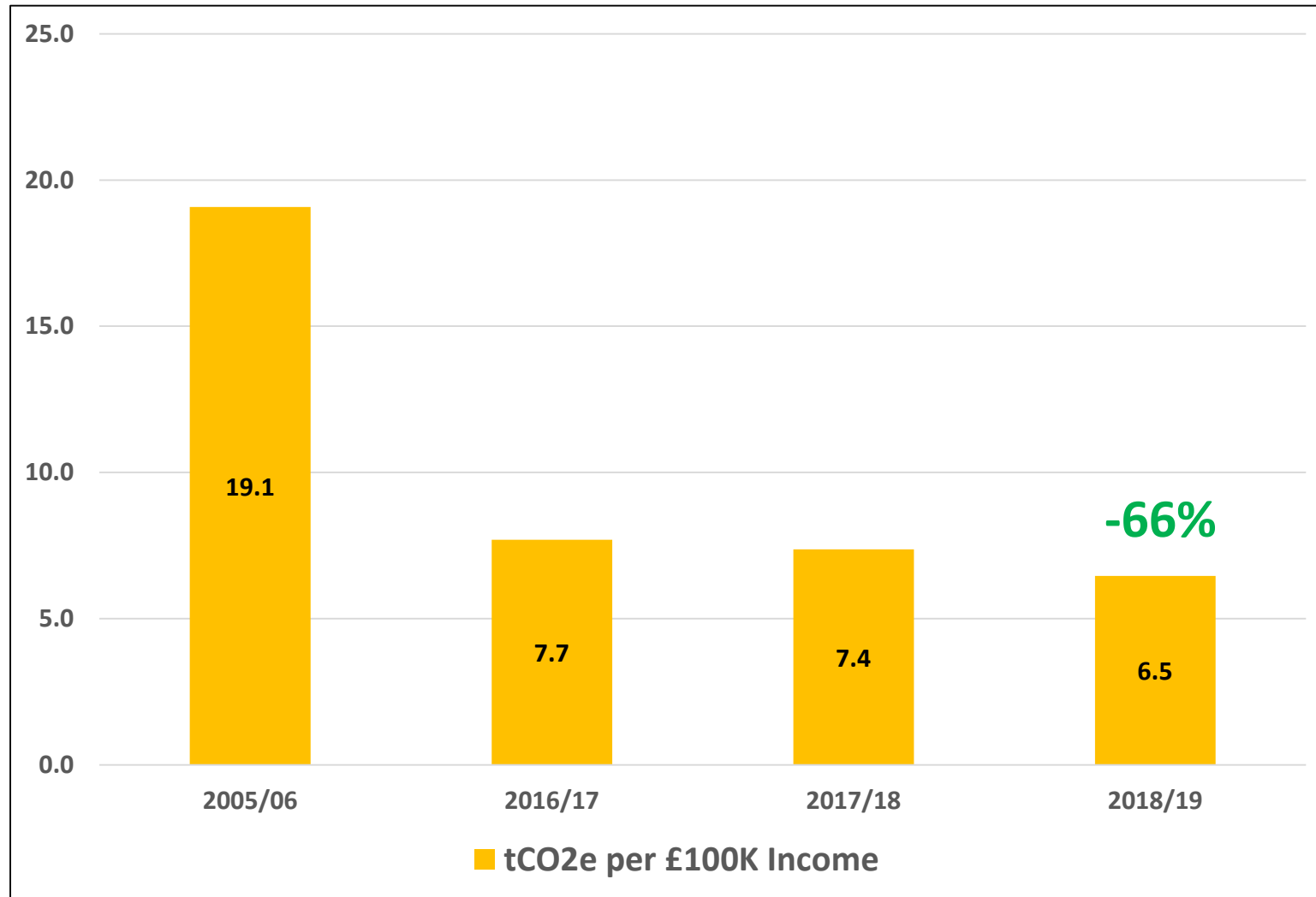




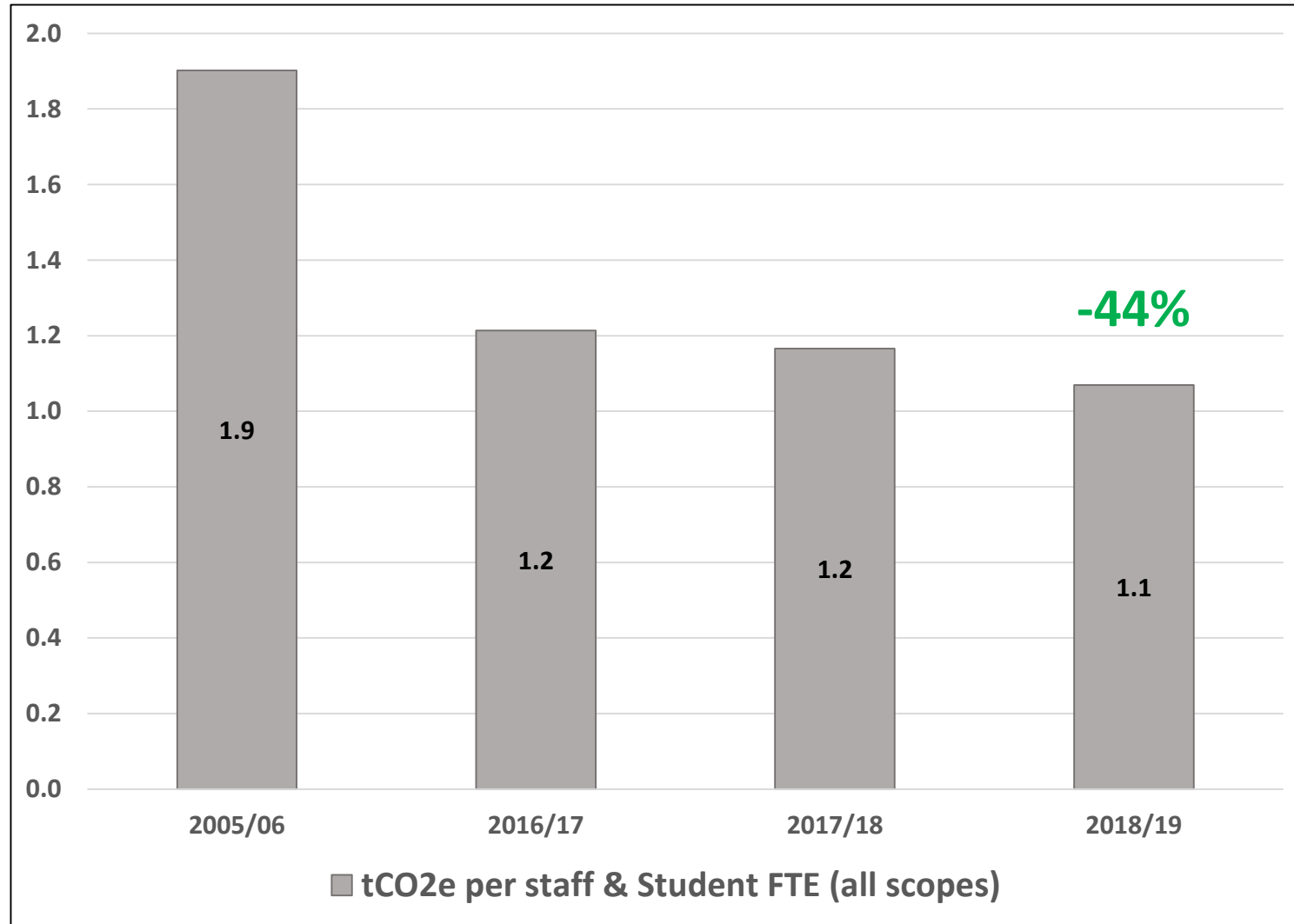
Maintain a 30% reduction in scope 1 & 2 buildings emissions CO₂ per m² by 2019-20



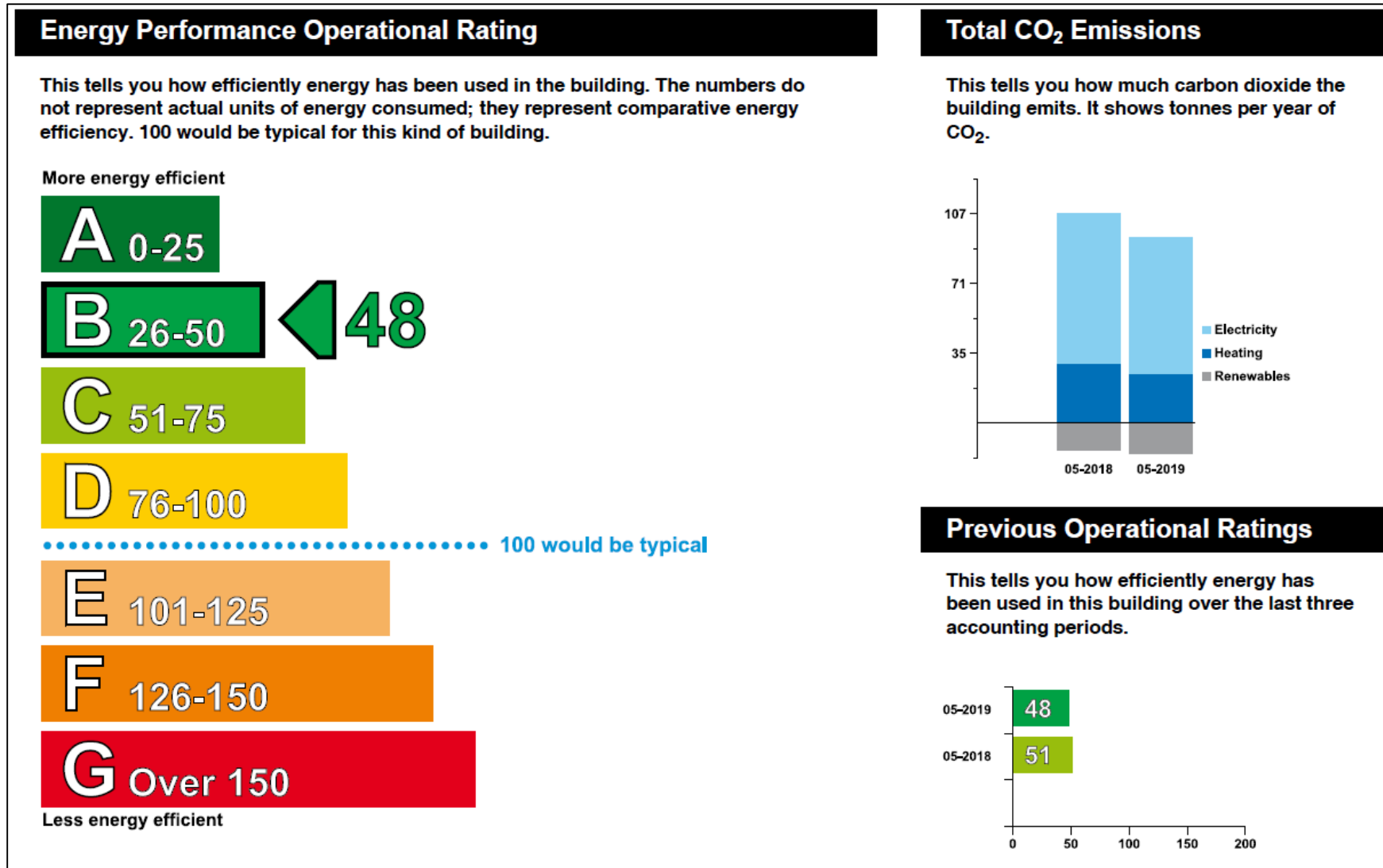
Maintain a 50% reduction in CO₂ per £100K of University income by 2019-20

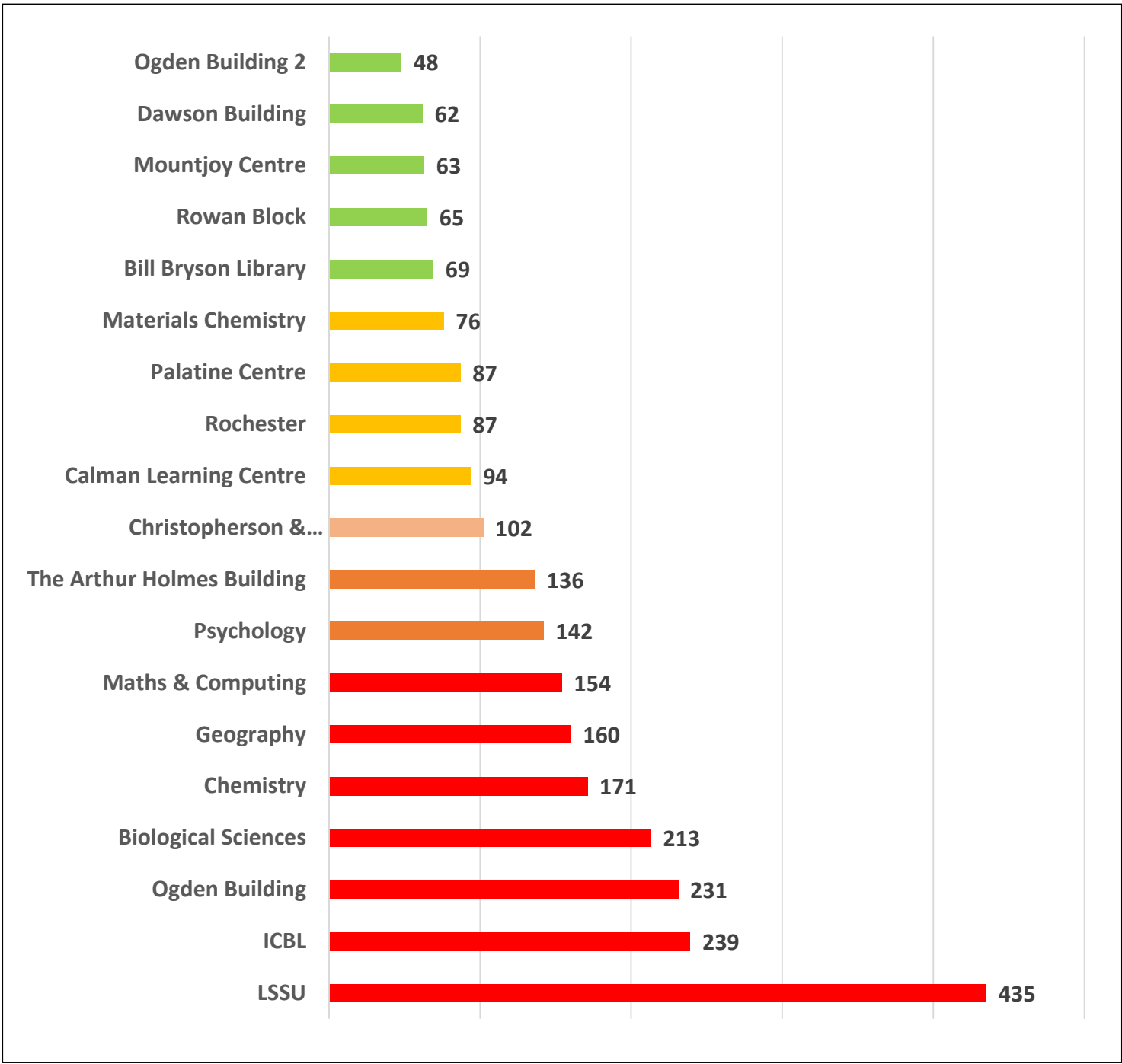


Maintain a 20% reduction in all scopes CO₂ per staff & student FTE by 2019-20

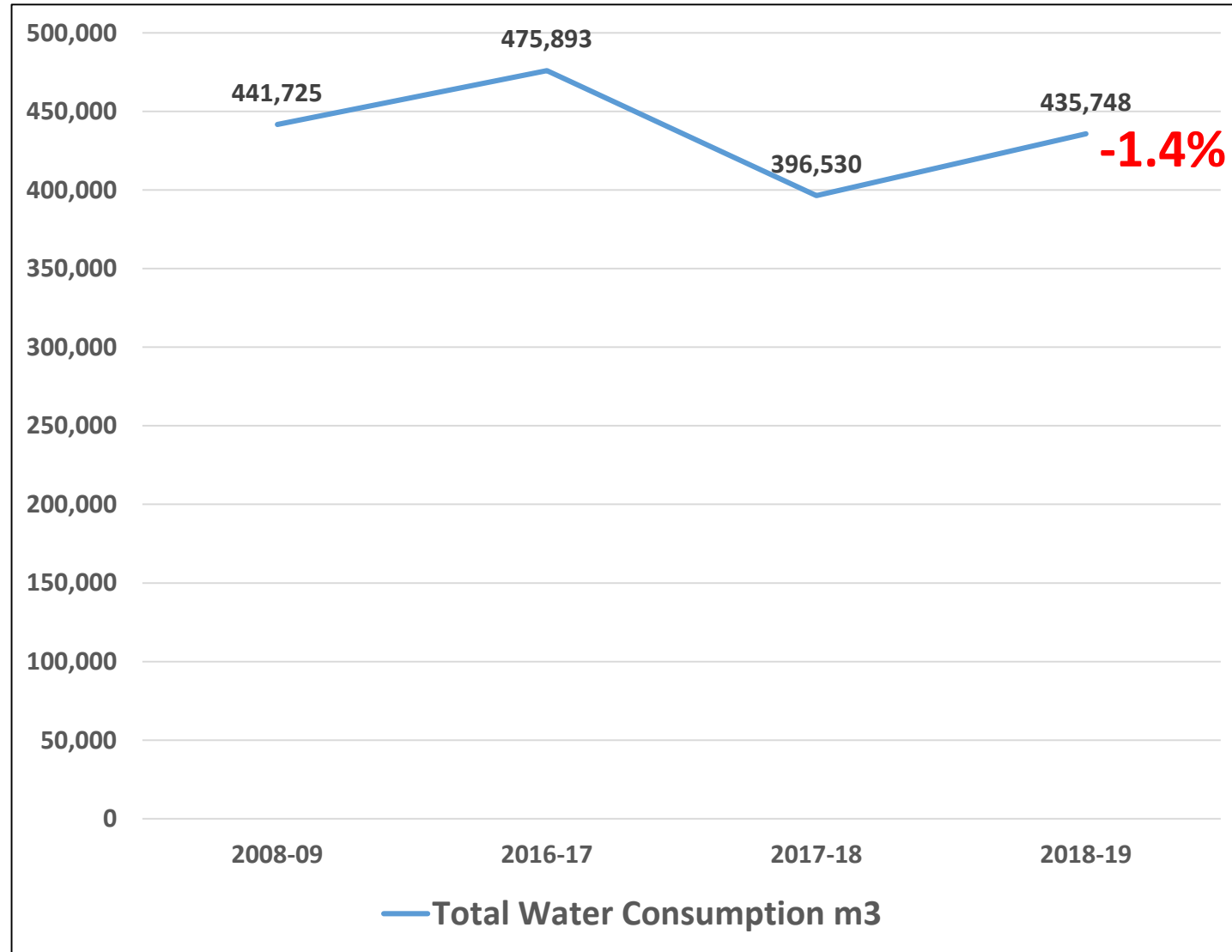


Maintain an average DEC rating of D98 or better for significant University buildings (>1,000m²) annually

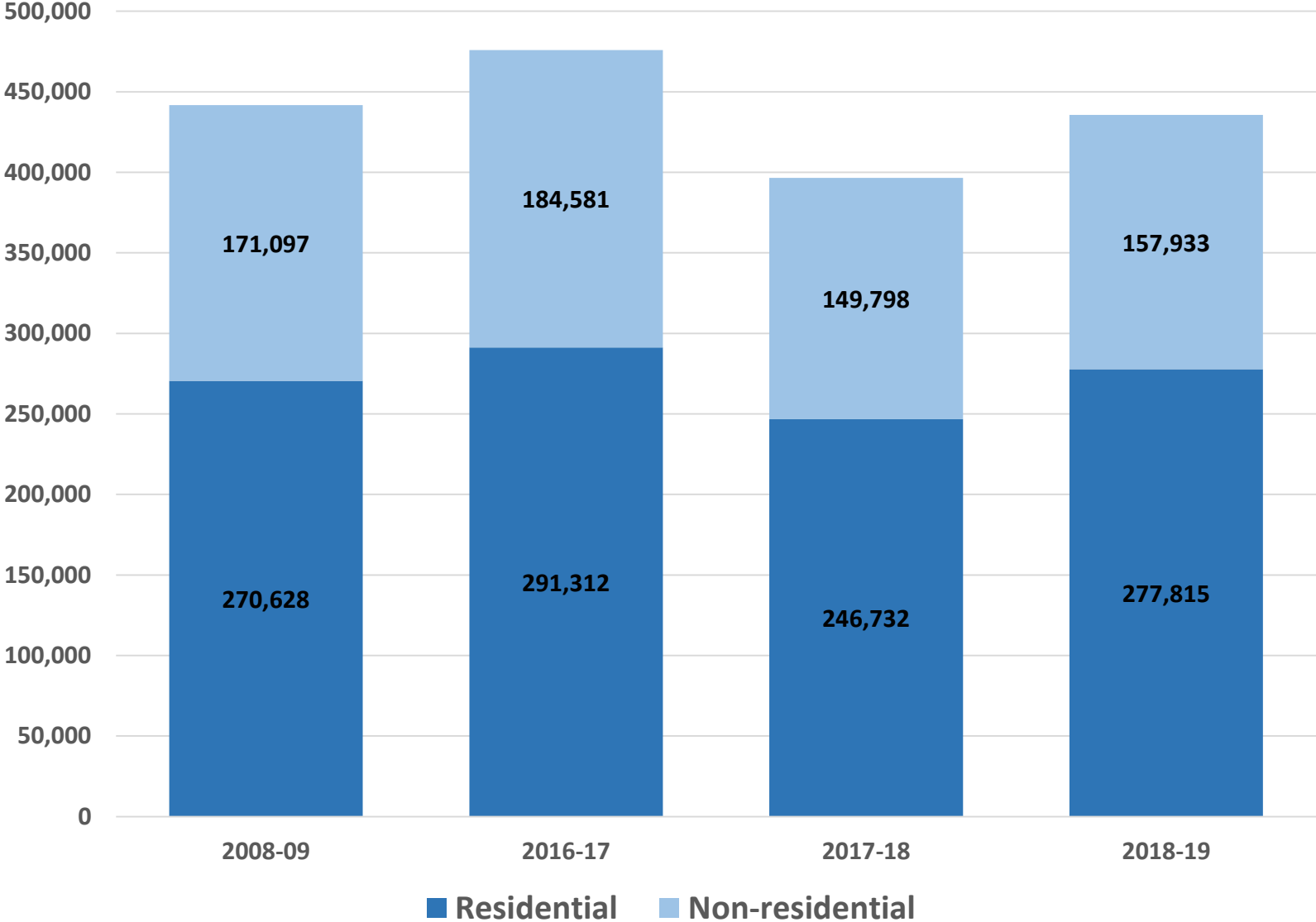




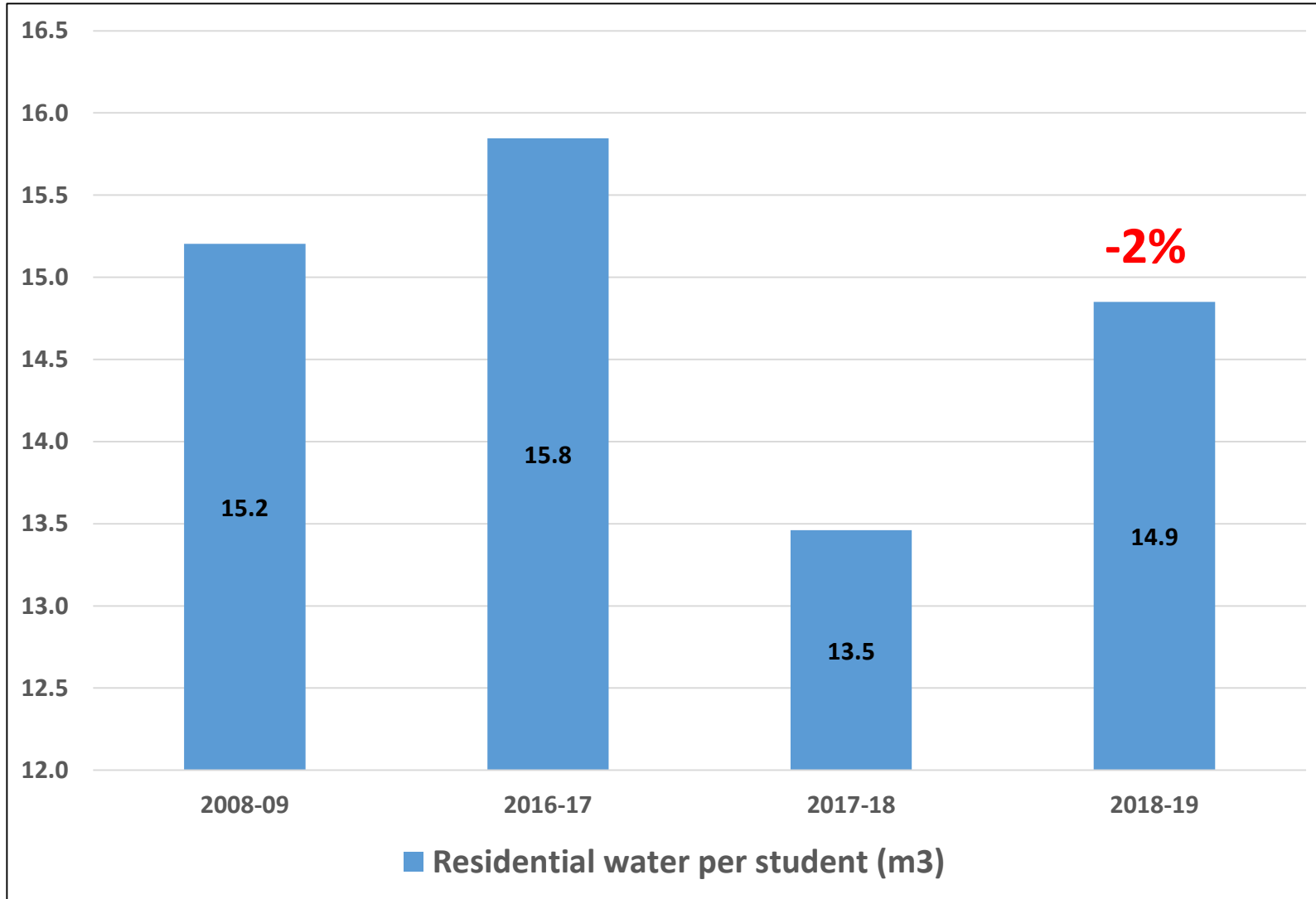
5% reduction of total water consumption by 2019-20



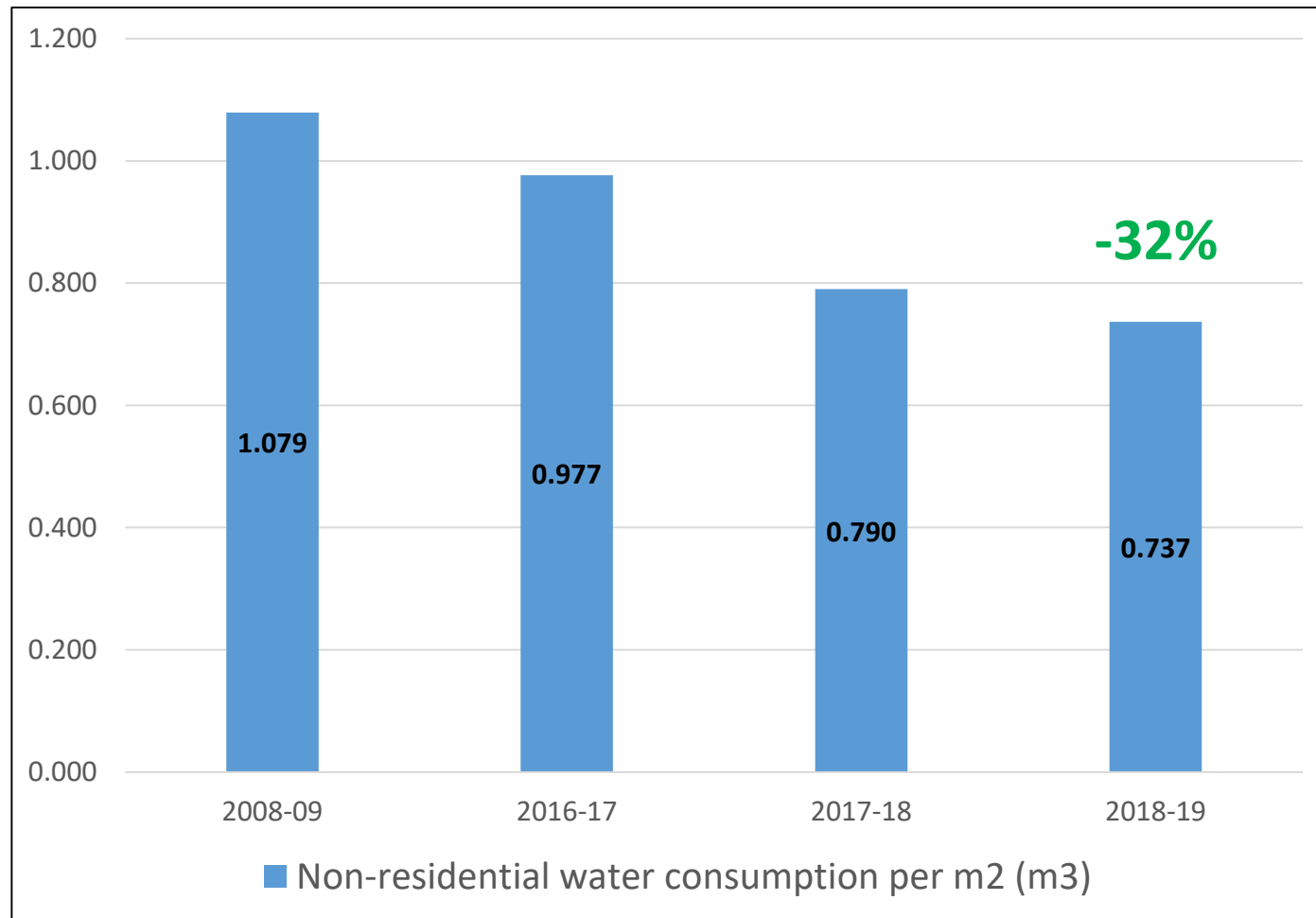
Water Consumption (m3)



20% reduction of residential mains water consumption per student FTE by 2019-20



20% reduction of non-residential water consumption per GIA m² by 2019-20



1% of measured water consumption supplied by rainwater harvesting and grey water by 2019-20

Key Performance Indicator	Baseline		Performance			Performance against baseline
	(2008-09)	Target	2016/17	2017/18	2018/19	
1% of measured water consumption supplied by rainwater harvesting and grey water by 2019-20	0%	1%	0.4%	0.5 %	0.6%	+0.6%

Considerations

- Improve performance of residential buildings.
- Decarbonise heating systems and reduce dependency on natural gas.
- Scope 3 carbon emissions are recorded for only a limited range of activities.
- Increase the use of onsite renewables.
- Improve water efficiency across the estate.
- Develop relevant science-based targets.