



## Energy breakdown compared with baseline and last year (kWh)

### Delivered Energy (including self-generation)

Energy Source	2008-09	Average 2016-18	2018-19	% change vs average last 2 years	% change since baseline
Electricity	35,809,409	30,206,477	30,071,275	0.45 % ↓	16 % ↓
Natural gas*	70,324,727	47,232,872	48,403,236	2 % ↑	31 % ↓
Burning Oil*	5,584,336	2,160,579	1,997,273	8 % ↓	64 % ↓

\* Consumption for gas and oil have been degree day adjusted to enable comparison across different financial years

### Primary Energy

Electricity, oil and gas have a variety of impacts and efficiency and transmission losses, meaning it is not logical to simply add kWh consumption of these different utilities together. We therefore use Primary Energy Factors to convert supplies to the equivalent energy required at source, therefore accounting for inefficiencies and transmission losses.

To track continual progress in energy consumption, we then normalise this consumption against weather (heating degree days), and against floor area (m<sup>2</sup>), and compares this against the average of the previous 2 years. Figure 1 illustrates our primary energy consumption has fallen continuously since 2010/11 (when we first published our carbon management plan), and fell by 2% in 2018/19.

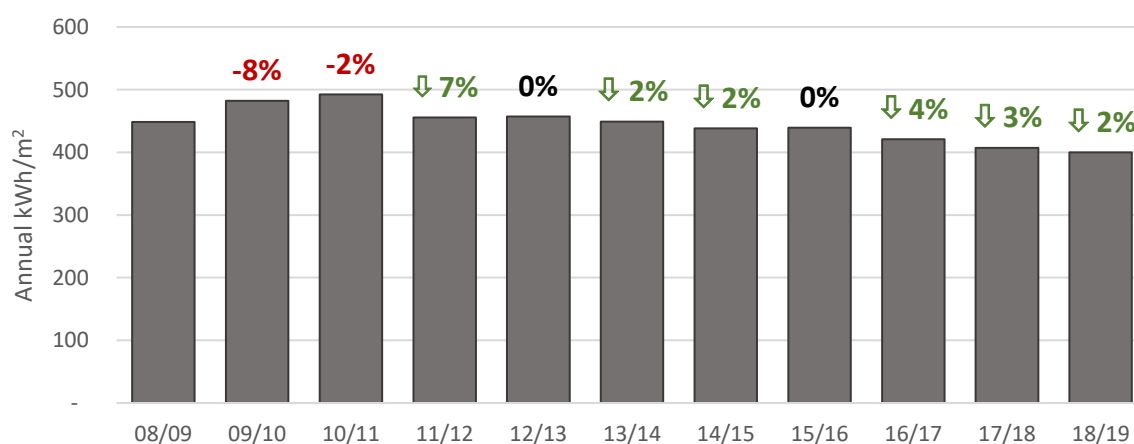


Figure 1 - Normalised primary energy use per m<sup>2</sup>