

The Council has committed to becoming a 'net zero' carbon emitter by 2030 in its 'Climate Change: Statement of Intent'. **The Council programme to deliver this is the Climate Change Prospectus, and within this there are actions to reduce emissions through Carbon Management.** The Council's targets are:

- **45% by 2021**
- **'at least 50%' by 2025** (baseline year 2009/10).
- **Net zero emissions by 2030**

Progress

The Street Lighting Team are responsible for the design, maintenance and operation of approximately 23,500 street lights, 2,600 illuminated signs and 1,700 illuminated bollards across the borough.

In 2014 the Council began a phased upgrade programme of all street lighting in the Borough to LED technology, following the publication of a new strategy in 2012.

85% of our street lights have now been converted to LEDs, which is significantly higher than the national average of 50%.

Energy consumption has reduced from 12,246,157 kWh in 2014/15 to 7,255,019 kWh in 2019/20, a decrease of 40%.

Future emissions—Net Zero emissions by 2030

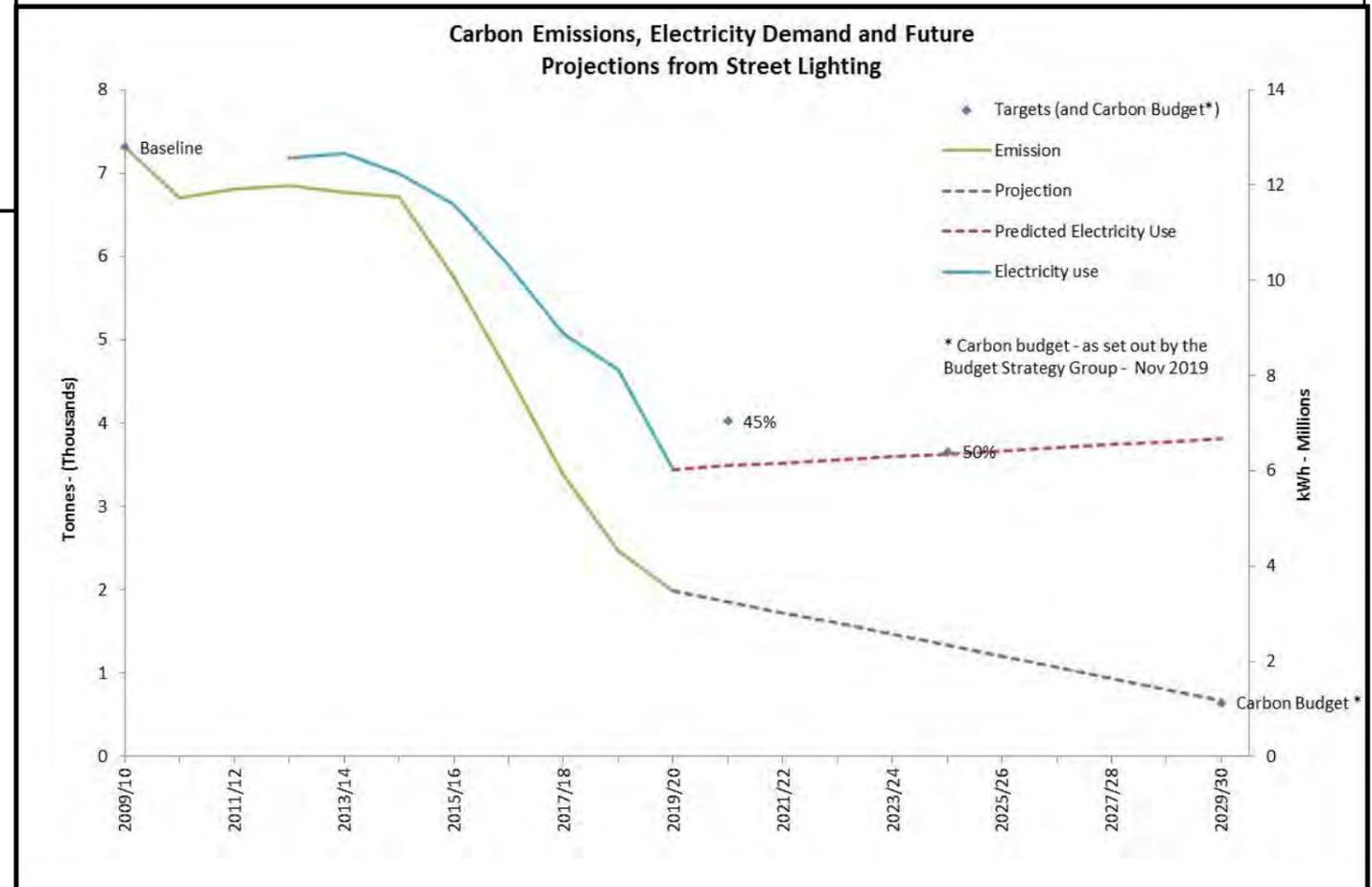
The Council's key target is to achieve Net Zero Carbon by 2030, and so modelling of emission to 2030 has been done, and this will be an ongoing process. The budget for carbon is set through the Budget Strategy Group, who receive a 'carbon budget' annually. Details of the future emissions can be seen in the Net Zero Carbon 2030 Plan.

The LED replacement programme is now drawing to a close, with the team fitting the last remaining units. Further energy savings will continue during 2020/21 as a full year of energy usage is realised.

In the longer term, opportunities to further reduce emissions are limited. The adoption of new LED technology is delivering a 50% reduction in energy use, but this is a one off gain, with a step change unlikely in the medium term future. In addition to the increased efficiency, the individual units have an expected lifespan of up to 20 years so it is unlikely that a replacement technology will be considered during this timespan.

Options to further reduce emissions from street lighting will most likely through the

Total Carbon Emissions 2019/20
1996 tonnes down 20% on previous year
down 73% on baseline year 2009/10



sourcing of electricity generated through renewable means.

External influences

Nationally, since 2009 there has been a 40% reduction in the quantity of carbon emitted per unit of electrical energy generated due to increasing use of renewable energies and the phasing out of coal fired power stations.