

Rolleston Primary School

LED light replacement scheme



Rolleston Primary is a large primary in the south of the city in the Eyres Monsell Ward. The school made the decision to replace lighting in their school with LEDs. This was completed in December 2019. Energy savings in this case study cover January – March 2019 and January – March 2020. Typically savings would be reviewed six months after installation, however due to COVID-19, 3 months are used in the comparison as April-May were not typical months.



Salix provides interest-free funding through the Salix Energy Efficiency Loan Scheme (SEELS) programme to help save money and reduce carbon emissions. Funding is for projects which are solely focused on energy efficiency upgrades - applications are open throughout the year. The interest-free loan is repaid using the predicted energy savings of the new technologies.

Estimated savings based on initial three months

- Annual pre-installation (3 months) 45,221kWh
 - Annual post-installation (3 months) 34,352kWh
- 24% reduction**

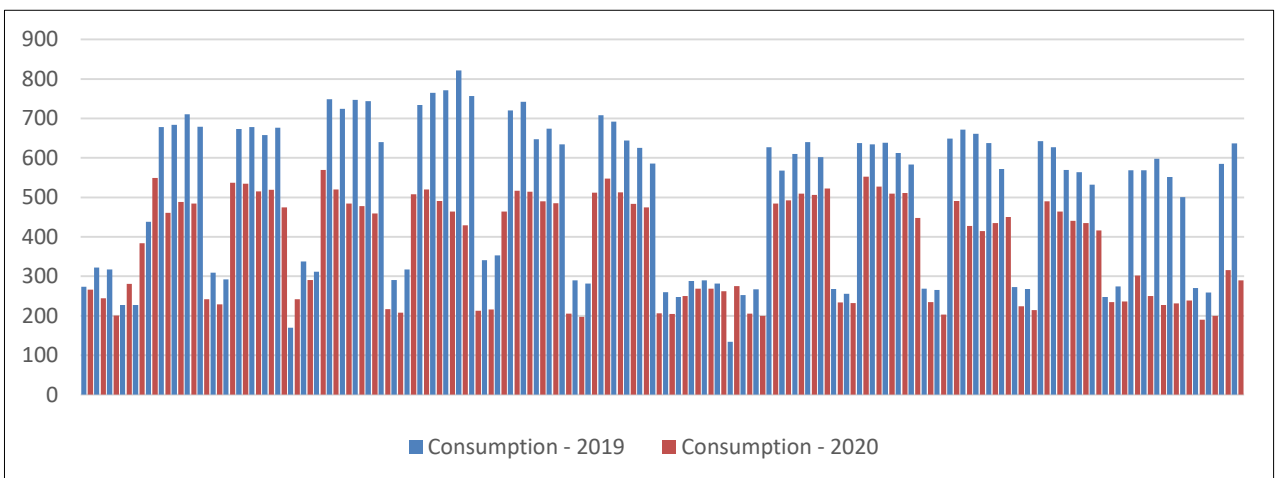
Benefits of the scheme to the school

- Improved lights in classrooms and offices
- Ability to replace old fittings at the same time as lights
- Emergency lighting can be included
- Reduction in maintenance costs
- Improved comfort
- Support the school's green credentials and opportunity to use as a learning tool

Pre-installation (12 months) 150,190kWh
 Estimated post-installation (12 months) 114,144kWh

Estimated savings per year based on 3 month saving £5226 (based on 14.5 p/kWh) however this will be reviewed annually and doesn't include energy price increases.

- **Estimated £5.8k saving per year**
- **6 year payback on project**
- **17 tCO₂ saving per year**



Daily profile (total kWh) – January – March 2019 and January-March 2020