



LED CONVERSION PROJECT FOR REDCAR & CLEVELAND BOROUGH COUNCIL

Bouygues Energies & Services, an Equans company, have a 25-year PFI contract with Redcar & Cleveland Borough Council to look after 23,000 street lighting assets. Our PFI commenced in 2007.

The Challenge

In 2019, we began work on a project to replace 15,471 street lighting units with LED luminaires which make up 90% of the total street lights in the Borough. Our North-Eastern team in Middlesbrough completed the project on time and budget and have helped the Authority make significant energy and cost savings.

Although the streetlighting project is complete, we will continue PFI maintenance until 2032. In addition we are completing regeneration work, including overhead line removals and upgrading lighting for the seafront esplanade. We are also developing proposals for sustainable energy and social value projects.

Our Solution

We introduced a number of initiatives to mitigate risk, add value and to ensure an efficient process during the project:

- Our solution includes a dimming regime which involves dimming lights overnight on the main roads by 30% and on estate roads by 50%, making greater savings.
- We came across cable shrinkage on faulty cables and in order

to prevent this becoming a risk we pre-surveyed the cables and reported them to Northern PowerGrid. We also put red stainless steel tespa bands around the lamp column doors that contained faulty cables to identify them and ensure that everyone was safe.

- To mitigate the risk of vehicles breaking down, we had a spare mobile elevating work platform (MEWP) in the yard at no cost to the contract. This was free issue from the hire company.
- We implemented a quality process where the operatives filled out an independent test procedure (ITP) for every conversion which was then scanned and filed. This allowed us to identify trends and correct any mistakes.
- We investigated and responded to any complaints regarding a change to the lighting quickly and explained the benefits of having LED and the savings the council are making.
- All packaging was flattened before placing in the skips which reduced the number of skips required and minimised cost. We were also careful to not contaminate any recycling.

The Client Benefit

Health & Safety is our top priority and we are proud to have not received a single H&S RIDDOR in the past 15 years on this contract.

90% of Redcar & Cleveland Borough Council's lighting is now LEDs (compared to 56% national average for local authorities).

We have reduced the energy the Council use per year from 9.9 million kWh at the start of the contract to 2.7 million kWh. This has also led to huge cost savings for the council.



Key Facts

- 98% Waste recycled
- 7.2m kWh energy savings since start of contract
- 90% Of street lighting in borough is now

Our Engagements

- **Commitment Performance Energy :**

Bouygues Energies & Services, an Equans company, guarantees by contract a reduction in the electricity consumption of your lighting network.

- **Commitment Proximity :**

With more than 200 locations in France, we are committed to the availability of its supervision and intervention teams.

- **Commitment Transparency :**

We transparently display energy consumption measures for installations and equipment piloted.

