

# **NEATH PORT TALBOT COUNTY BOROUGH COUNCIL**

## **Streetscene & Engineering Cabinet Board Meeting**

**13 April 2018**

**Report of the Head of Streetcare - M.Roberts**

### **Matter for Information**

**Wards Affected:** All Wards

### **Public Lighting Asset Report**

#### **Purpose of Report**

1. To inform members of the renewal of the public lighting asset with regards to the Public lighting Renewal project.

#### **Executive Summary**

2. The contract comprised of part mass replacement of time expired columns and cabling which also included the removal and replacement after consultation with members, the long standing two wire line infrastructure. The contract also included installing energy efficient public lighting lanterns with remote monitoring and control facility which allows the lanterns to be dimmed to meet energy saving targets.

#### **Background**

3. The Council embarked on a Partial Large Scale Lighting Renewal Project in autumn of 2011 after it was recognised that the condition of the Council's public lighting infrastructure presented a significant and increasing risk to the Council with service failures likely in the absence of intervention.
4. Furthermore there was a desire to deal with the long standing 'two wire line' problem concerning street lights mounted on, and supplied with the energy by, time expired redundant Western Power Distribution (WPD) infrastructure which was no longer being maintained by WPD and therefore often subject to extended service failures.

5. The renewal project was completed over three phases to replace approximately 70% of its infrastructure and included installation of a Public Lighting Central management system to allow flexibility to monitor and control the lamp outputs with a light dimming facility.
6. The first phase comprised of replacing public lighting brackets on Western Power Distribution poles, the second and third phases replacing the time expired cabling and column infrastructure on a worst case basis firstly on columns over 10 years old.
7. During the length of the contract the Council was required to meet additional energy savings under the requirements of the FFP which resulted in the council adopting a light dimming regime using the central management system to dim, and further double dim the lamps from 01.00am to dawn on PLL and SON lamps in some areas which has contributed to the councils reduction in co2 and energy costs.
8. In addition in year two of the third phase, an additional £850,000 was invested in LED lanterns. These became more economically affordable to purchase and were installed as direct replacement of the PLL fluorescent lanterns, which were themselves already energy efficient. This LED approach allowed further incremental energy savings.
9. Project completion replacements.  
Contract in Numbers.
  - a) Installation of 7,434-5/6 metre columns.
  - b) Installation of 1,992-8 metre columns.
  - c) Installation of 1,155-10 metre columns.
  - d) Installation of 173-12 metres columns
  - e) Installation of 4,390 wood pole brackets.
  - f) Installation of 2,136 LED lanterns.
  - g) Installation of 9,968 PLL lanterns.
  - h) Installations of 3,043 SON lanterns.
  - i) Installation of 70,000 metres off underground trenching & reinstatement.
  - j) Installation of 83,000 metres of underground cabling.
  - k) Reduction in public lighting energy consumption by 15% with energy savings of £133,000 comparing the financial year 15/16 and 16/17.
  - l) Removal and replacement where identified after member consultation of the two wire overhead line network in the Authority area.

m) Installation of central computer management system.

### **Financial Impact**

10. There are no financial impacts associated with this report.

### **Equality Impact Assessment**

11. There are no equality impacts associated with this report.

### **Workforce Impact**

12. There are no workforce impacts associated with this report.

### **Legal Impact**

13. There are no legal impacts associated with this report.

### **Risk Management**

14. There are no risk management issues associated with this report.

### **Consultation**

15. There is no requirement under the constitution for external consultation on this item.

### **Recommendations**

16. That the report be noted.

### **List of background Papers**

17. None.