

**THURSTON PARISH COUNCIL**

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The following paper is submitted to full Council at the meeting of 3<sup>rd</sup> November 2021 – Agenda Item 11i refers

**Background:**

1. At the meeting of 4<sup>th</sup> August, the Parish Council considered and approved the following Option 1 from the paper submitted:  
Option 1 to replace all the remaining 80w MBFU lanterns within the next twelve months under one order. The estimate of works was based on replacing the remaining units as follows:
  - Installation of 29 x LED Lanterns on UKPN wooden Poles:  
To supply and install a new side entry LED lantern & pole bracket / control box and UKPN transfer of overhead supply will require and investment of £34000.00 + VAT.
  - Installation of 17 x LED Lanterns on Aluminium Columns:  
Supply and install a new side entry / post top LED lantern will require and investment of £7,850 + VAT.
  - Installation of 15 x LED Lanterns on Steel Columns:  
Supply and install a new side entry / post top LED lantern will require and investment of £6,900 + VAT.
  - Installation of 6 x LED Lanterns on Concrete Columns:  
Supply and install a new side entry / post top LED lantern will require and investment of £2800.00 + VAT.

Total estimated investment required for lantern replacement will be £51,550.00 + VAT. This cost to be expended from the Neighbourhood CIL pot.

2. As Option 1 was based on a desk top exercise only to inform the Parish of indicative costs, an instruction was placed for SCC Street Lighting Department to carry out the survey of the units to ascertain which lanterns attached to the wooden poles required brackets / control box's or UKPN service transfers. It was noted that this may reduce the costs accordingly.

**Information:**

1. A visual inspection has now been carried out on site and the revised estimate to carry out the following works is shown below at Estimate of Works.
2. The previous report stated that there were 67no 80w MBFU lanterns currently installed, since that report the Parish has placed orders for lantern replacements at 20 Heather Close / 97 Hollow Lane / 86 Cavendish Close / 147 School Road & 93 Church Road and column & lantern replacement at 11 Maltings Garth. The remaining 61no 80w lanterns to be replaced are as follows:
  - Lanterns attached to wooden poles x 26.
  - Lanterns on Aluminium columns x 16
  - Lanterns on Steel columns x 14.
  - Lanterns on Concrete columns x 5.
3. The on-site survey has now determined that only 5 units may appear to require UKPN connections which has significantly reduced the original estimate.
4. All lanterns will be replaced with an energy efficient LED lantern which is around 21 watts in power.
5. The estimate is also based on the assumption that all columns are in a satisfactory condition.
6. The LED lanterns offered are very efficient with up to 80% savings depending on existing lamp types.

Examples of indicative savings in monetary terms based on all night lighting and part night lighting has been shown overleaf:

Lamp Type	Cost per year All Night Lighting	Cost per year Part Night Lighting
80w MBFU	£68.00	£40.00
LED	£14.00	£9.00

## 7. Energy and Carbon Savings:

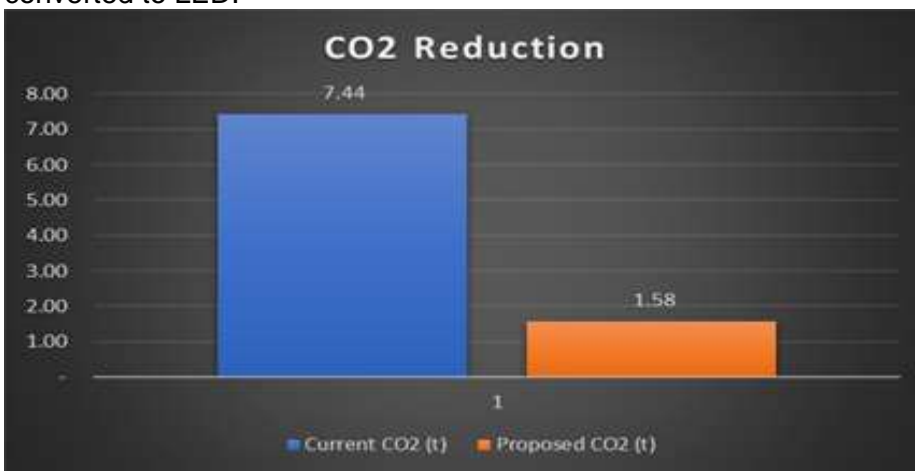
Graph 1 shows the current approximate yearly energy cost in Blue for the 61no 80w MBFU lanterns detailed in this report, and the possible energy savings in Orange once all the 61no lanterns have been converted to LED.



*These energy savings are based on part night lighting, i.e., lights go off at 11.30pm and return to operation, where required, at 6am.*

*Note that the energy savings are only indicative as the energy cost per Kilowatt Hour can change during the year*

Graph 2 shows current approximate yearly CO2 emissions in Blue for the 61no 80w MBFU lanterns detailed in this report, and the possible savings in Orange once all of the 61no lanterns have been converted to LED.



*These CO2 savings are based on part night lighting, i.e., lights go off at 11.30pm and return to operation, where required, at 6am.*

### Estimate of Works:

Option 1 is to replace all the remaining lanterns within the next twelve months under one order.

The estimate of works has been based on replacing the remaining units as follows:

Installation of 26 x LED Lanterns on UKPN wooden Poles:

- 5no Supply and install a new LED lantern / pole bracket / control box & UKPN connection will require and investment of £5,800.00 + VAT
- 6no Supply and install a new LED lantern / pole bracket / control box, excluding a UKPN connection will require and investment of £4,100.00 + VAT
- 13no Supply and install a new LED lantern / pole bracket / re-use existing control box, excluding a UKPN connection will require and investment of £7,475.00 + VAT

- 2no Supply and install a new LED lantern on the existing pole bracket / re-use existing control box excluding a UKPN connection will require and investment of £920.00 + VAT

**To supply and install a new side entry LED lantern & pole bracket / control box and UKPN transfer of overhead supply as detailed above will require and investment of £18,295.00 + VAT**

Installation of 16 x LED Lanterns on Aluminium Columns:

- Supply and install a new side entry / post top LED lantern will require and investment of £7,360 + VAT.

Installation of 14 x LED Lanterns on Steel Columns:

- Supply and install a new side entry / post top LED lantern will require and investment of £6,440 + VAT.

Installation of 5 x LED Lanterns on Concrete Columns:

- Supply and install a new side entry / post top LED lantern will require and investment of £2,300.00 + VAT.

**To supply and install a new side entry LED lantern only as detailed above will require an investment of £16,100.00 + VAT**

**Overall total estimated investment required will be £34,395.00 + VAT (previously quoted £51,550.00)**

#### **Important Notes:**

1. Standard Chapter 8 Traffic management has been allowed for i.e., cones & signs etc, if additional traffic management is required due to difficult locations for the vehicle to park safely, i.e., on bends / junctions / narrow roads etc, then additional costs will be incurred.
2. No allowance has been made for the installation of any light shields and if required will incur additional costs.
3. There will be a minimum of 12 - 14 weeks to purchase materials and to programme works upon placement of an order.
4. As this was a visual inspection from the ground of the lighting stock, upon installing the lanterns and brackets on the wooden poles it may be that additional work may be required by UKPN for example, no inline / deteriorated fuse carrier or supply cables that may require replacing, therefore additional costs may be incurred.
5. Any additional costs that may have been incurred will be reflected and detailed when invoicing the Parish upon completion of works.
6. If any of the wooden poles owned by UKPN are found to be deteriorated or have a 'S' or 'D' plate attached to the poles, then it may be that UKPN will not allow any new equipment to be replaced onto their pole. With this in mind, and if site conditions allow, a new column would have to be installed and this would require a separate estimate accordingly.

#### **Action for Council at the meeting of 03.11.21:**

1. Council to receive report noting costings
2. Council to approve for one order to be raised in the sum of £34,395.00 to allow for the investment in street lighting in Thurston to be carried out within the given timescales.
3. Council to approve the sum of £34,395.00 to be regarded as a valid bid against the Thurston Neighbourhood CIL pot.