



LED Replacement Programme
Downend & Bromley Heath Parish

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Who are we?

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Street Lighting Manager


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LED Technician

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Introduction

South Gloucestershire Council (SGC) needs to make significant financial savings and reductions in CO₂ emissions over the coming years.

LED lighting, due its reduced energy consumption and maintenance requirements, plays a crucial role in contributing to these savings.

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What are we doing?

10 year project – 30,000 lanterns
3,000 a year

From this:  To this: 


Annual lantern evaluation & tender

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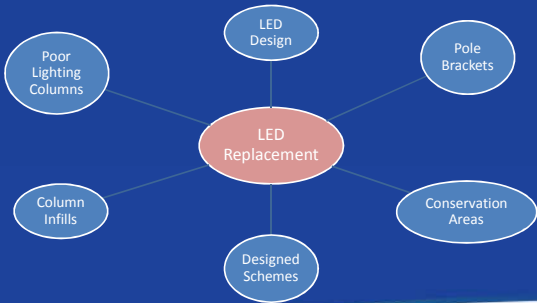
What is the LED Replacement?


- Like for like replacement
- Design each road - aiming for British Standard
- All-night lighting with dimming:

Time Period	Light Output
35 lux to 11:00 PM GMT	75%
11:00 PM GMT to 06:00 AM GMT	50%
06:00 AM GMT to 18 lux	75%

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More than just LED Replacement...



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The Good, the Bad and the Ugly...

Pros

- Reduced maintenance
- Dimming and trimming
- Reduced 'sky-glow'
- Up to **70%** reduction in energy & CO₂ consumption
- Direct light source

Cons

- Direct light source
- Different appearance
- Large capital investment

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What will it look like?



Pictures taken from Charfield installation.

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What will it look like?



Pictures taken from Bradley Stoke installation.

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What will it look like?

Pictures taken from Wick installation.

Before



After




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Order of Works

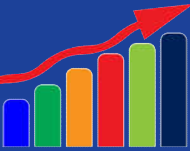
- 1 - A Roads
Biggest Wattage = Biggest Savings
Highly Visible Roads
- 2 - Follow Geographical Maintenance Regime
Reduces Revenue Costs

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Changed so far...

Trial – July '13 <ul style="list-style-type: none">• Charfield	Year 3 – 16/17 <ul style="list-style-type: none">• Bradley Stoke (part 2)• Oldland• Siston• Wick and Abson
Year 1 – 14/15 <ul style="list-style-type: none">• A38 (Falfield to Filton)• Refuge Beacons• Hanham• Industrial estates• A4174	Year 4 – 17/18 <ul style="list-style-type: none">• Woodstock• Kings Chase• Staple Hill• Rodway
Year 2 – 15/16 <ul style="list-style-type: none">• A420• A432• A403• A4018• A431• Cribbs Causeway• Bradley Stoke (part 1)	Year 5 – 18/19 <ul style="list-style-type: none">• Bitton Parish• Emersons Green Parish• Westerleigh Parish



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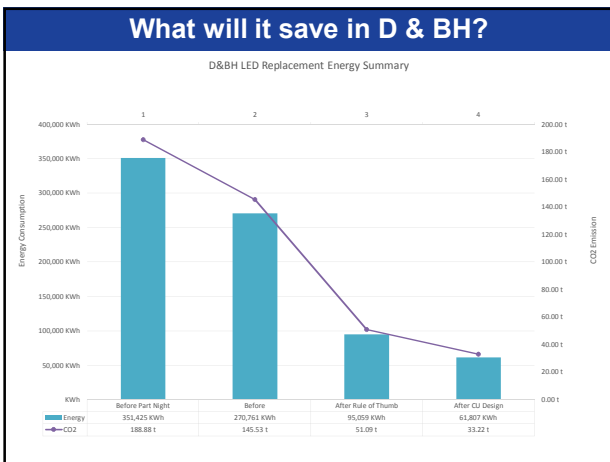
Areas for Year 6 – 2019/20

1. Pucklechurch Parish
2. Downend & Bromley Heath Parish
3. Winterbourne Parish
4. Frampton Cotterell Parish




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Infill Columns in D & BH



Street	Unit No.	Comments
AINTREE DRIVE	17	Remove 6m Column
AINTREE DRIVE	21	Remove 6m Column
BEVERLEY AVENUE	3	Proposed new 6m infill column
BEVERLEY AVENUE	3	Remove 6m Column
BEVERLEY AVENUE	4	Proposed new 6m infill column
BEVERLEY AVENUE	4	Remove 6m Column
BEVERLEY AVENUE	5	Proposed new 6m infill column
BROMLEY HEATH ROAD	19A	Proposed new 6m infill column
BROMLEY HEATH ROAD	19B	Proposed new 6m infill column
BROMLEY HEATH ROAD	21	Remove 6m Column
BROMLEY HEATH ROAD	21	Proposed new 6m infill column
BUCKINGHAM GARDENS	5	Remove 6m Column
BUCKINGHAM PLACE	5	Proposed new 6m infill column
CHESTNUT ROAD	1	Remove 10m Column
CHESTNUT ROAD	1	Proposed new 6m infill column
CHURCH LANE	9	Proposed new 6m infill column
CLEEVE LODGE CLOSE	6	Proposed new 6m infill column
FONTWELL DRIVE	5	Remove 6m Column
FOURACRE AVENUE	1	Proposed new 6m infill column
FOURACRE CRESCENT	16	Proposed new 6m infill column
FOURACRE ROAD	8	Proposed new 6m infill column
HURSTWOOD ROAD	1	Proposed new 6m infill column
LINCOMBE ROAD	1	Proposed new 6m infill column
OAKDALE CLOSE	3	Proposed new 6m infill column
OAKDALE CLOSE	10	Proposed new 6m infill column
OAKDALE CLOSE	12	Proposed new 6m infill column
QUAKERS CLOSE	1	Proposed new 6m infill column
WENMORE CLOSE	1	Proposed new 6m infill column

When is it happening?

LED Installation Beginning in May / June 2019.

Lighting column infills and poor column works beforehand

May cause minor disruption.



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Key Points

- Revenue savings
- Avg. 3,000 lanterns per year
- Up to 70% energy savings
- Like for like replacement
- 'All Night' lighting
- Direct light source
- Starting May / June '19



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Thank you for listening

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