

**ENGINEERING BOARD
STREET LIGHTING GROUP**



18th March 2022

NOTES OF MEETING

In attendance

Keith Tovee	(KT)	East of England	Chair
Sue Kinsella	(SK)	South East	Vice Chair
Ian Moore	(IM)	Yorkshire	
Dean Wendelborn	(DW)	London	
Ken Pitt	(KP)	South West	
Rob Baines	(RB)	Midlands	
Jonathan Hurley	(JH)	Wales	
James Root	(JR)	Transport for London	
Trevor Scott	(TS)	Northern Ireland	
Ron Parker	(RP)	North West	
Simon Langley	(SL)	Highways England	
Gary Wilson	(GW)	Scotland	
Gareth Pritchard	(GP)	HEA	
Mark Hopkins	(MH)	OG2 Lighting (presentation)	

Item 1 Attendance and Apologies

Felicity Lockett, Peter Harrison, Darren Hubbard.

Item 2 Notes and any O/S actions from previous meeting

None that will not be dealt with during the meeting.

Item 3 Health and Safety Issues plus Safety Alerts Distribution

No H&S bulletins to report other than the Highway Code has been recently amended. **SK** reported a near miss when an operative's van was hit whilst parked at the side of the road, just missing the operative. It is a reminder to all of the need for vigilance at all times when on or near the highway. **DW** reported that damage had been caused when removing lighting columns in close proximity to underground services. **GP** reported 3 incidents, not all street lighting but relevant to the activities of the group. The first was that an operative had been killed in a lane closure and having finished their work they stayed there to complete some documentation. The resulting action by the company was to ensure that once work is complete not to stay to complete documentation, to clear the site as soon as you can. In the second incident, an operative was killed following a crush injury caused by a crane vehicle where the stabilising legs were being parked with the operative in the wrong place, being crushed as the leg rotated towards the vehicle body. The third was where a street lighting contractor was working on a two-way road and had a prohibition notice served on then by HSE as their signing and guarding were insufficient. The contractor appealed siting compliance with Chapter 8 but the appeal was dismissed as the inspector ruled that Chapter 8 did not apply, it was the 'red book' that took precedence as it is regulatory and Chapter 8 is guidance.

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Item 4 Solar Lighting Presentation

KT introduced Mark Hopkins of OG2 Lighting, to deliver a presentation about solar lighting products and their uses. The presentation focussed on solar energy harvesting, energy storage and how this can be integrated in social lighting products. It went on to explain energy from the sun, how photovoltaics work, energy harvesting, control systems and energy storage.

Item 5 Supply Chain Issues

GP reported that shortages of materials continue with the additional problem now as Ukraine supplies around 60% of Europe's steel. In addition, sanctions on goods from Russia could now impose a 35% increase. Large energy increases are likely from April that could range from 20% to 70%. In addition, shortages in semiconductor goods is leading to reported lead times of up to 1 year. Shortages in plastics used as impermeable membranes is particularly acute with stocks possibly being exhausted in May stopping some construction projects. It is also predicted that there will continue to be price increases throughout the year.

Item 6 Regional Updates

Highways England (SL)

Making changes to DMRB through the additions, deletions and amendments (ADA's) procedure. Creating a new DMRB document called TG 501 for hand over requirements on completion of a task, scheme or project. in process of rewriting MCHW 1400 in a 6-month contract. Starting HID to LED replacement programme, valued at around £130M on assets no older than 18 years.

East of England (KT)

UK Power Networks were present at the last regional meeting, they are seeing increasing workload around delivery of on-street EV charging facilities. Unfortunately, the staff being used for this tend to be those that would otherwise have been employed undertaking street lighting operations. The Suffolk Live Lab works are expected to conclude at the end of March with a final report expected by the end of the financial year. Suffolk are also extending their adaptive lighting system to other areas across the county using loop sensors to detect traffic flows. There was a conversation about the relative costs of installing and maintaining the adaptive lighting sensors and associated kit compare with a more aggressive dimming regime. LED conversions continue, with Essex reporting 26,000 this year and Suffolk reporting 24,000. Across the region there has been a large increase in requests for permission to attach apparatus such as telecoms equipment with an income stream that is attractive to councils. Closer inspection shows that the terms and conditions offered requires up to 3 months' notice to access the lighting column. Regional members reporting 50% to 70% energy increases.

North West (RP)

Struggling with recruitment and also similar problems as others have described such as energy costs and supply chain difficulties with price increases and changing delivery dates. Recently sought a price for a lighting column and was informed the price quoted would only be valid for 24 hours! LED conversions in Lancashire almost complete and experiencing some failures on the first LED

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lanterns installed around 12 years ago. Currently, no issues or requests for telecoms equipment attachments yet, but some authorities have been receiving approaches to gauge their position.

South East of England (SK)

Not had a meeting recently. However, around the group the main concerns are about energy prices, material shortages and the roll-out of small cell communications equipment.

South West of England (KP)

Gloucestershire's energy supplier is advising of only an estimated 7% to 9% increase for 2022. Other south west authorities have reported significant energy increases with some being offered only a 3-month contract due to market volatility. LED conversion programmes continue at various stages of completion. When asked, **KP** responded that the reduced maintenance expenditure in the business case for LED replacement programme has not been taken.

Yorkshire (IM)

Has been in negotiations principally with BT regarding an agreement for telecoms apparatus being hosted by lighting assets. Has reached a position with BT that his authority feels comfortable with and thanked **DW** for sharing his experience. Had Teams call on 20th January that wasn't too well attended. Have some new members join the group recently and future meetings likely to be hybrid so people will be able to attend either online or in person. Similar issues were discussed, energy prices, supply chain problems and acceleration of LED conversion programmes. Some discussion also around the interpretation of Cycle infrastructure design (LTN 1/20) and the provision of lighting on remote cycle routes and the cost of installation and whether it should be included. The matter was taken to the combined authority for consideration where the outcome was that the lighting professional must be consulted for their view. A briefing note is being prepared that can be shared to assist where these situations occur. With regard to anticipated requests for banners and bunting to celebrate the Jubilee, a document has been sent to the secretary for distribution that has been developed in Leeds.

Scotland (GW)

Meeting due soon but similar discussions as other regions. Seems to be in a slightly better position than other regions with regard to energy increases because of the way the procurement system works in Scotland by purchasing in advance. Going forward a 20% increase is expected next year with higher increases later. Supply contract renewal, Scottish Xcel, has been renewed and is nearly complete. Currently reviewing deliveries and supply availability and how these will be addressed in the contract, so current contract may expire before the award of the new one. A lot of the Scottish authorities have been approached by Shell Ubertricity regarding on street EV facilities.

Reports of authorities, having made significant LED lighting savings, including maintenance operational savings, were being asked for more savings. A 'business as usual' tracker of what costs would have been without the works has been useful to demonstrate what savings, or cost avoidance, has actually been achieved.

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Midlands (RB)

No regional meeting since before Christmas so little to report. Leicestershire are seeking advice regarding dimming levels for Section 38 lighting and whether they set them through a CMS system. Also there is a conversation regarding inspections and whether or not councils are still inspecting following TR22 or had updated to GN22 or a hybrid system. Been a noticeable increase in FOI requests for asset information regarding asset height and location, probably from telecoms companies planning 5G or similar programmes. Derbyshire have been approached by GigaPeak who are looking to mount Wi-Fi booster apparatus on lighting columns in the Hope valley and Peak Park. Concerns regarding energy costs and likely increases and how to deal with cast iron column replacements that will appease stakeholders. Being asked to make further energy savings which will be difficult when over 90% have been changed to LED.

London & LoLEG (DW)

Met on 17th February with a presentation from INDO about lighting for ecology and biodiversity. Westminster intends to produce its own biodiversity report next year as an update to the one produced 10 years ago. G12 amendment is now approved regarding PEN devices for earthing TT supplies. Digital Connectivity Infrastructure Acceleration Programme that aims to produce guidance for the roll-out of telecommunications equipment being driven by BEIS and BSI. State of the city report is being carried out for highway assets to ascertain its age and condition. Issue around the completion of London PFI contracts and the development of continuing facilities and arrangements. Issues reported regarding the installation of private EV charging points where a connected vehicle would be within 2.5m of a street light and who and what arrangements should be in place to make the electrical equipment compliant with regulations.

Westminster no longer has a lantern cleaning programme. Instead, it carries out photometric measurements of 25 roads a year to ascertain the deterioration in output and then, taking a risk-based approach, undertakes cleaning as necessary.

Wales (JH)

Meeting held on 17th February. Concerns expressed similar to everyone else; supply chain, energy and telecoms equipment roll-outs. Ongoing issues with Western Power distribution regarding 2-wire overhead line ownership. An issue regarding bracket arms was discussed. When trying to remove LED lanterns, the fixings on some are seized onto the column bracket due to dissimilar metals being used. As a result, the lantern has to be cut off from the bracket. So far it seems only products from 2 manufacturers are affected. Requests are being received for wi-fi units to be attached to columns but there doesn't seem to be an agreed UMSUG code for the units. It seems not all units have a code. Savings resulting from LED conversion is to be invested into asset replacements.

Transport for London (JR)

Working with colleagues into the deployment of 5G mini-cells and similar requests. Currently the number of requests being received is huge, so they are investigating ways in which to deal with them.

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Northern Ireland (TS)

LED conversion programmes are on target for completion in the financial year, with over 50% now changed to LED. Development of a mobile app to transmit defect reports to the maintenance contractor and record completion of the works was recently deployed and has been well received. Concern about the massive energy price increases

Item 7 Membership and Representation

Current membership representations can be found on the ADEPT web site and they do tend to change quite frequently. Some new members have joined <https://adeptnet.org.uk/membership>

Item 8 ADEPT Corporate Update/Information

Spring conference and annual awards dinner on Thursday 26th May. ADEPT also arrange several lunch and learn online events, details on the web site. ADEPT presidential awards are now open and 4th Annual Traffic Managers conference on 20th October.

Item 9 National Meeting Feedback

i) UMSUG

KT attended the recent meeting. **GW** reported that in Scotland some authorities have started to receive reports that developers were having difficulty gaining access to an unmetered MPAN prior to adoption, due to the volatility of energy markets. **SK** reported that this has also experience of a problem in Kent. The issue was raised by **KT** at UMSUG who see this as an OFGEM issue, and they will take up the matter. Changes to BSCP document was discussed allowing CMS systems to be accepted as a meter. The outstanding issue regarding the number of decimal places used for billing was not discussed at the meeting.

ii) HEA

GP. Joint event on 7th April at IET, Savoy Place, London where there will be presentations about the Digital Connectivity Infrastructure Acceleration Programme, previously mentioned, by Department for Digital culture, Media and Sport and BSI. Where Publicly Available Standards (PAS) documents are hoped to be available by the end of 2022 for protection of assets to which they are attached (columns) and cyber protection. Other papers will focus on health and safety risk assessments and method statements and another about EV charging case studies. BS7671 amendment 2 due to be published at the end of March, effective immediately. IET code of practice for EV charging and the code of practice for Electrical Street Furniture is due to be reviewed in 2022.

iii) Lighting Column Technical Forum

GP. Last meeting 27th January, minutes not yet available.

iv) BSI

RB. BS5489, no meetings since last ADEPT meeting. 13201 also has working groups looking at updates.

v) ILP

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SK reported on behalf of Peter Harrison. Moving back to in-person events with a number of our LDC's arranging venues. Professional Lighting Summit to be held at Waterfront, Bristol, 21st & 22nd June at which the new ILP strategy will be launched. Working with Lighting Liaison Group to co-ordinate an industry response to Department for Business, Energy and Industrial Strategy (BEIS) plans to introduce new energy efficiency requirements for lighting. These are planned to be much more onerous than the latest EU energy markings and requirements. They should not be a problem for most street lighting but some domestic, architectural and specialist lamps will not be able to meet the proposals. Also, monochromatic LEDs used where there are protected species such as bats will not be compliant. Consultations have begun with Department of Communication, Media and Sport (DCMS) to deliver the Digital Connectivity Infrastructure Accelerator (DCIA) programme, the British Standards Institute (BSI) has been commissioned to develop multifunctional lighting column standards, to support the specification and procurement of wireless networks infrastructure. First meeting was on 3rd March. Regarding position of ILP Technical Director, I will continue to work a 4-day week until Easter after which I will work a 2-day week until the Lighting Summit, after which I will be retiring. However, I am hoping for one last ADEPT meeting on my last day, 24th June. **GP** added that LLG had arranged BEIS representatives to attend a training course delivered by Lighting Industry Association about the issues of concern regarding light sources and the difficulties their proposals would have for certain parts of the lighting industry. Hopefully some exemptions can be agreed to address the concerns of the industry.

Item 10 ADEPT Engineering Board

<https://www.adeptnet.org.uk/groups/engineering>

Item 11 UKLTB

<http://www.ukroadsliaisongroup.org/en/UKRLG-and-boards/uk-lighting-technology-board/uk-lighting-board-minutes.cfm>

Item 12 UMSUG

<https://www.elexon.co.uk/group/unmetered-supplies-user-group-umsug>

Item 13 Any Other Business

SK raised the national underground assets register. There is a proposal for this information to be collected. Further information can be found at: <https://www.gov.uk/guidance/national-underground-asset-register-nuar>

DW is having 3 reports produced to address issues around a) alternative power sources, b) alternative materials to reduce the amount of steel and concrete currently used and c) alternative non-destructive structural testing methods for columns where large base embellishments are

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fitted. Reports a) & b) have only just started and are considered to be some time away from completion. Regarding report c) a potential method has been identified, using collars that can be placed on the inside of the lighting column to direct test waves to vulnerable parts to measure loss of section. This is now moving into trials to ascertain its suitability.

SL reported recent asset failures that were reported to UKLTB. The first was a 12m flange plated column where the anchors failed. Investigating, it was found that an upgrade from 10m to 12m used same flanged base meaning inadequate bolts were retained. Failure also reported of an LED lantern where the holding bolts worked loose of either not being set at the correct torque at the factory during manufacture or at install. The lantern didn't fall to the ground as the lanyard solution held it loose on the column.

SK reported that a recently a column was removed following accident damage but on investigation it was a listed column formerly owned by the district council but transferred to Kent. As a listed structure, she asked if it could be 'de-listed'. **IM** and **DW** responded that it could be listed by association to the structure onto which it is attached. **GP** replied that there is advice on Historic England web site about removal of listing.

KT suggested the next meeting would be in-person in London. In order to know the size of room all members are asked to indicate their attendance as a matter of urgency so arrangements can be made.

Item 14 Dates of Future Meetings

ADEPT LG 24 th June 2022	UMSUG
ADEPT Engineering Board 8 th April 2022	UKLTB 23 rd June 2022