

Public Lighting – Strategic Collaboration between SEAI, TII and CCMA

TRANSPORT INFRASTRUCTURE IRELAND

KILLARNEY

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PUBLIC LIGHTING

STRATEGIC LEADERSHIP FOR ENERGY EFFICIENCY IN PUBLIC LIGHTING











Context – National Energy Efficiency
 Plan 2014 – 33% Energy saving by 2020
 from 2009 usage

- €57m spent in 2011 on lighting
 - €31.7m on Energy
 - €21.7 on Maintenance
 - €3.4m on Improvement
- 435,000???? lights

SEAI, TII & CCMA have agreed.....

 A three Stranded Approach to strategic Collaboration:-

1) Tackle Sector Wide Strategic issues

2) Develop a Pipeline of <u>Upgrade</u> projects

3) Networking and Competence building





STRATEGIC ISSUES FACING SECTOR

- 1) Lack of a reliable database or inventory of Public Lighting Assets
- 2) Inconsistent approach to maintenance contracts
- 3) Economies of scale for both maintenance and upgrades not being realised
- 4) Lack of best practise approach to maintenance and upgrades/replacements.
- 5) Lack of specialist staff resources and expertise in majority of Local Authorities to effectively Manage public lighting
- 6) Lack of available capital investment to replace old poles and lanterns
- 7) Lack of flexibility in unmetered tariff structure





Inventory Databases

- 22 Local Authorities using "Deadsure"
- Remainder using Excel / Mapinfo / GIS

Contract Types

- Fixed price lump Sum 5 Authorities (South East)
- Schedule of rates 16 Authorities
- Legacy 9 Local Authorities



CCMA Business Case for Maintenance

- 1. Whether to use simple maintenance contracts or performance based contracts or an amalgam of both.
- 2. Consideration of the form of contract to be used.
- 3. Whether to procure on a National, Regional or local basis.
- 4. The regional agglomerations to be used and the programme to achieve this.
- 5. What asset inventory data needs to be generated immediately and on an ongoing basis and how?

ACCREDITED EMPLOYER

6. What resources are required now and in the future.

Local Authority	Annual Maintenance	Number of Lights	Annual Maintenance Charge per Light
Dun Laoghaire/Rathdown County Council	€535,000.00	23,000	€23.26
Fingal County Council	€997,000.00	32,306	€30.86
Galway County Council	€368,631.00	8,500	€43.37
Kildare County Council	€847,956.57	22,000	€38.54
Kilkenny County Council	€268,478.30	9,289	€28.90
Laois County Council	€160,000.00	8,000	€20.00
Leitrim County Council	€64,584.00	3,149	€20.51
Longford County Council	€69,226.67	3,878	€17.85
Mayo County Council	€194,424.00	12,088	€16.08
Meath County Council	€619,356.84	17,618	€35.15
North Tipperary County Council	€236,168.41	6,224	€28.90
Offaly County Council	€110,000.00	6,600	€16.67
Roscommon County Council	€244,302.00	5,236	€46.66
Sligo County Council	€45,732.00	3,195	######################################
South Dublin County Council	€1,287,550.10	29,441	. €43.73
South Tipperary County Council	€233,737.11	8,087	€28.90
Waterford County Council	€176,075.98	6,092	€28.90
Westmeath County Council	€152,960.00	9,516	€16.07
Wexford County Council	€322,266.45	11,150	
Wicklow County Council	€844,341.46	13,067	€64.62
Cork City Council	€933,944.00	14,910	€62.64
Dublin City Council	€1,519,371.00	44,500	€34.14
Galway City Council	€348,665.61	8,951	*************************************
Waterford City Council	€198,938.11	6,883	*************************************
Total	€10,940,450	319,276	augges meinnen soch stämeskation soch soch sockstaden granne och stätekkomt, och 15,000,15,000 och sockstade s Och sockstade sockstade kan sockstade sockstade sockstade och stätekkomt, och 15,000,15,000 och sockstade sock
Competitively Tendered	5,562,547	193,445	£28.76





Strand 2 Developing a Pipeline of Upgrade Projects

"Exemplar Projects" to showcase proven cost-effective technologies

SEAI will provide a 2 Phase Approach:-

Phase1 - Develop PL Inventories & Project Feasibility

Phase 2 – Progress Upgrade projects through to Procurement & implementation.



Strand 3 Competence Building

Two Networking Forums already in Place:-

- 1) SEAI Community of Practice 150 Users on Public lighting Forum
- 2) TII Project Working Group TII / LA Engineers / SEAI

Working together these Groups will:-

- □ Develop Guidance materials, including a best practise toolkit
- ☐ Standalone, tailored training sessions
- ☐ Engaging with the market place
- Ongoing Consideration of other proposals from members, e.g. the establishment of a national acceptance standard, or possibly a testing site for new PL technologies.





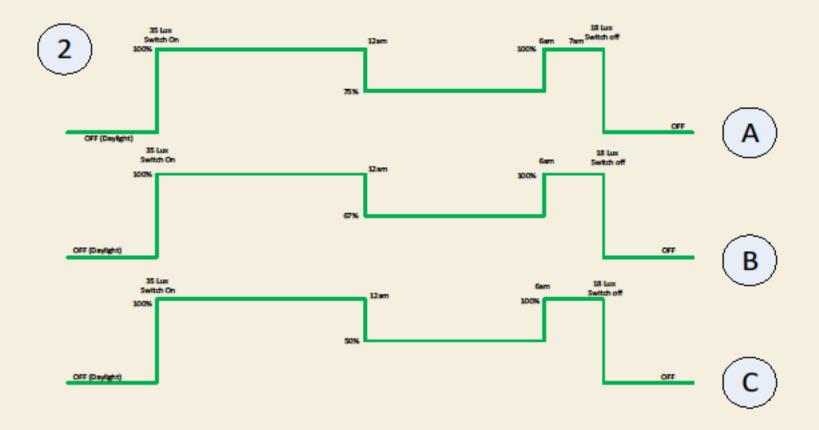
Recent Developments:-

Burn Profiles

As LED upgrade programmes ramp up, Local Authorities need to realise the immediate cost benefit of Dimming.

Discussion ongoing with ESBN / CER allowing for trimmed/dimmed burn profiles in UMR – Meeting 30th June















Next Steps

 Priority One – Uniform and Accurate Asset inventory.

- Priority Two Maintenance Contracts
 - Model Forms?
 - Regional Structure?





- Strategic Collaboration.
- No one Stakeholder can do this alone!.





