

## **Attachment 8.06**

### **STAKEHOLDER ENGAGEMENT AND CUSTOMER CONSULTATIONS**

May 14



# STAKEHOLDER ENGAGEMENT AND CUSTOMER CONSULTATIONS

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## Document and Amendment History

Issue No.	Date	Approved By	Summary of Changes
1.0	April 2014	Reg Team	Final
2.0	May 2014	John Bedding	Final with formatting

## 1.0 Background

This document provides details about how we have engaged and consulted with our customers during the regulatory period. Ausgrid is committed to consulting with its stakeholders in the streetlighting business to ensure our customers are kept up to date about new initiatives and changes in the street lighting space.

Below lists the stake holder consultations that Ausgrid has initiated, these are our technical working groups, LED consultation meeting, LED Information Nights, 2015-19 Ausgrid Pricing approach meeting and engagement reports.

## 2.0 Technical Working Group

### 2.1 Purpose

The purpose of Ausgrid's (formally EnergyAustralia) street lighting technical working group was to discuss technical issues and practical issues that make a difference to lighting on streets and the maintenance of that lighting. The aim of this group is to establish on-going communication on technical matters between Ausgrid and its customers represented by SLIP. Ausgrid's relationship with its street lighting customers will be enhanced.

### 2.2 Scope

Ausgrid and SLIP technical representatives to meet on a regular basis to explore technical topics and issues in street lighting that are of common interest. Commercial topics and issues such as pricing and regulation are out of scope.

The working group will also endeavour to arrive at consensus on matters discussed and recommend to Ausgrid management and SLIP management the appropriate course of action.

### 2.3 Summary of meetings

Below is the list of meetings recorded with interested stakeholders discussing technical issues relating directly to street lighting. See Appendix A for copy of the agendas to these meetings.

#### 2.3.1 *Street Lighting Technical Working Group No. 2*

Date: Tuesday 25 August 2009

Attendees: EnergyAustralia Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Introduction to Australian Standards and invitation to join Standards Committee LG2  
Accelerated replacement of 2/20s technical issues  
Cosmopolis  
LEDs  
Decorative luminaires  
Metal Halide lamps  
Off-peak dimming / monitoring

### **2.3.2 Street Lighting Technical Working Group No. 3**

Date: Thursday 19 November 2009

Attendees: EnergyAustralia Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Accelerated replacement of 2/20s technical issues  
Cosmopolis  
Metal Halide lamps  
LEDs  
Decorative luminaires  
Off-peak dimming / monitoring

### **2.3.3 Street Lighting Technical Working Group No. 4**

Date: Thursday 25 February 2010

Attendees: EnergyAustralia Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Accelerated replacement of 2/20s technical issues  
Cosmopolis  
Metal Halide lamps  
LEDs  
Decorative luminaires  
Off-peak dimming / monitoring  
Twin arc/long life sodium lamps

### **2.3.4 Street Lighting Technical Working Group No. 5**

Date: Thursday 06 May 2010

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Accelerated replacement of 2/20s technical issues  
Cosmopolis  
LEDs  
Decorative luminaires  
Off-peak dimming / monitoring

### **2.3.5 Street Lighting Technical Working Group No. 6**

Date: Thursday 12 August 2010

Attendees: Ausgrid Representatives

SLIP Council Representatives  
SLIP Consultant

Agenda: 32 CFL Luminaire  
Cosmopolis/Metal Halide Lamps  
LED Trial  
Decorative Luminaires  
Off-Peak Dimming  
AS/NZS Discontinuation of 125W Mercury Vapour

### **2.3.6 Street Lighting Technical Working Group No. 7**

Date: Tuesday 01 March 2011

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Accelerated replacement of 2/20s technical issues  
Proactive use of glare shields in narrow roads  
Cosmopolis/Metal Halide Lamps  
LEDs  
Decorative Luminaires  
Off-Peak Dimming/Monitoring  
AS/NZS Discontinuation of 125W Mercury Vapour  
NS119 Street Lighting Standard Updates  
Street Lighting Management Plan Update

### **2.3.7 Street Lighting Technical Working Group No. 8**

Date: Thursday 15 December 2011

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Decorative Luminaires  
42W CFL Issues  
Cat P LED trial  
125W MBF Replacement  
Main Roads: Active reactor update, PE cell update, remote monitoring  
Floodlighting  
Maintenance Update  
Aero screen up cast (brackets)

### **2.3.8 Street Lighting Technical Working Group No. 9**

Date: Thursday 19 July 2012

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: Decorative Luminaires  
42W CFL Issues  
Cat P LED trial  
125W MBF Replacement  
Main Roads: Active reactor update, PE cell update, remote monitoring  
Floodlighting  
Maintenance Update

Aero screen up cast (brackets)

### **2.3.9 Street Lighting Technical Working Group No. 10**

Date: Thursday 01 November 2012

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda: AS 1158 Update  
Decorative Luminaires  
42W CFL Issues  
Cat P LED trial  
125W MBF Replacement  
Main Roads: Active reactor update, PE cell update, remote monitoring  
Floodlighting  
Repair Times  
Aero screen up cast (brackets)

### **2.4 LED Consultation Meeting**

This LED Consultation Meeting was held in lieu of the technical working group. See Appendix B.

Date: Friday 09 August 2013

Attendees: Ausgrid Representatives  
SLIP Council Representatives  
SLIP Consultant

Agenda:

Outlined Ausgrid's proposal to introduce LED technology as the default technology for category P4 and P5 residential roadway lighting luminaires replacing the current 42W compact fluorescent (CFL). Over the previous 19 months Ausgrid had conducted an LED trial in eight locations and at this time was ready to transition to this technology.

Aim is to install LEDs when existing streetlights on P4 & P5 roads fail and can not be fixed. Existing luminaires on these roads include 42W (CFL), 80W mercury, 50W mercury, T5 fluorescent and the twin 20 fluorescent.

Pricing strategy of the LEDs were discussed showing the comparison between the 42W CFL and LED wattage, capital and maintenance charge, thus saving customers 3% when the 29W LEDs were installed. Pricing structure would be temporary pending AER final approval and any differences in billing corrected once approved.

## **3.0 LED Information Nights**

### **3.1 Background**

The information nights will provide an opportunity for Council representatives to view the LED street lights first hand and raise any questions or concerns about LED street lights directly with suppliers as they will also be attending. See Appendix C.

### **3.2 Reports**

Ausgrid is continuing to further investigate the potential for widespread deployment of LEDs and, if a move to LEDs on residential roads is supported by councils, Ausgrid intends to shortly stage an expression of interest and tender.

The next step now that Ausgrid is confident that there are products available in a competitive market is to trial a sample of these products. The purpose of this trial is to determine the following:

- Suitability of the construction of the LED luminaires for use on the Ausgrid network. In particular category P4 and P5 roads.
- Visual impact and minimisation of glare.
- Council and resident reactions to the new type of lighting.
- Understand what problems may be encountered with the introduction of LED streetlights

Attached is a copy of the LED report that was handed out on the night. See Appendix E.

## **4.0 New Approaches to 2014-2019 Streetlighting Pricing**

Date: 26/02/2014

All Councils and SLIP Consultant were invited to attend an information and feedback session regarding the pricing approach for streetlighting in the next regulatory period: 2014-2019. Ausgrid is interested in the feedback from our customers about pricing strategies for feedback to the AER.

Current pricing method was shown to Councils and the impact of their billing structure was laid out if current methodology was used. This session encouraged opinions and other pricing solutions from our customers. See Appendix D.

## 5.0 Stakeholder Engagement Report

Date	Location	Stakeholder Name	Stakeholder Representatives	Business / Group Representatives	Issues Discussed	Key Messages/Decisions/ Actions
26/2/14	Ausgrid's Sydney & Wallsend offices	Local Councils within Ausgrid's area and SSROC	Councils and Graham Mawer	Phil McKee David Wilkinson Matthew McQuarrie	Streetlighting Pricing	Future meeting planned
18/12/13	Town Hall	SSROC Councils and Representatives	SSROC Councils and Graham Mawer (SSROC)	Phil McKee David Wilkinson John Bedding	Technology Update Repair of Streetlights Streetlighting Pricing	Future meeting planned for Streetlighting Pricing with all Councils in Ausgrid's area.
22/11/13	Ausgrid Bld	SSROC Representatives	Graham Mawer (SSROC) Alan Northey (SSROC)	Phil McKee David Wilkinson Lars Narushevich	Streetlighting Pricing Service level agreement	Future meeting planned for 18 December 2013.
31/10/13	Ausgrid Bld	SSROC Representative	Graham Mawer (SSROC)	Phil McKee John Bedding Lars Narushevich	Streetlighting Pricing	Future meeting planned
18/7/13	Ausgrid Bld	SSROC Councils and Representatives	Cathy.Edwards (Woollahra Council) Peter Dorman (Newcastle Council) Graham Mawer (SSROC) David Howes (SSROC)	Phil McKee John Bedding Sharn Gokalp	Initial Discussion Service Level Agreement	Future meeting planned



**EA / SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 2**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From EnergyAustralia (EA)  
Karmen Wang (Chair)  
Phil McKee  
Peter Hosford  
Michael Brien

From SLIP - SSROC:  
Paul Gowans, City of Sydney  
David Pavey, Lake Macquarie Council  
Sayed Chowdhury, Bankstown Council  
Boris Bolgoff, Warringah Council  
Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING NO. 2**

**Tuesday 25 August 2009 at 2.30pm – 4.30pm  
Conference Room 2, Building 1, 25 – 27 Pomeroy St, Homebush**

2.1	15 mins	Introduction to Australian Standards and invitation to join Standards Committee LG2	Dr Alec Fisher, Chair of LG2 Committee
2.2	15 mins	Actions from previous meeting	
2.3	15 mins	Accelerated replacement of 2/20s technical issues	Update on T5 / CFL trial results Work instruction <ul style="list-style-type: none"> <li>• Narrow roads – possible use of front glare shield for CFL</li> <li>• Bracket lengths, shields</li> <li>• Priority areas for rollout</li> </ul>
2.4	15 mins	Cosmopolis	Review available luminaires Update on City of Sydney trial Showcase /Trial opportunities
2.5	15 mins	LEDs	Technical exchange of information Update on City of Sydney trial Showcase /Trial opportunities
2.6	15 mins	Decorative luminaires	New range to be agreed Maintenance of legacy
2.7	15 mins	Metal Halide lamps	Technical exchange of information Trial opportunities
2.8	15 mins	Off-peak dimming / monitoring	

**EA / SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 3**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From EnergyAustralia (EA)

Karmen Wang (Chair)  
Phil McKee  
Peter Hosford  
Michael Brien  
TBA (Minutes)

From SLIP - SSROC:

Paul Gowans, City of Sydney  
David Pavey, Lake Macquarie Council  
Sayed Chowdhury, Bankstown Council  
Boris Bolgoff, Warringah Council  
Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING NO. 3**

**Thursday 19 November 2009 at 11am – 2pm  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St,  
Sydney**

2.1	11am	Actions from previous meeting	
2.2	11.15 am	Accelerated replacement of 2/20s technical issues	Work instruction <ul style="list-style-type: none"> <li>• 32W CFL luminaire</li> <li>• Narrow roads / bracket lengths, shields</li> <li>• Priority areas for rollout</li> </ul>
2.3	11.40 am	Cosmopolis	Review available luminaires Update on City of Sydney trial Showcase /Trial opportunities
2.4	12.05 pm	Metal Halide lamps	Technical exchange of information Trial opportunities
	12.30 pm	Lunch	
2.5	12.55 pm	LEDs	Technical exchange of information Update on City of Sydney trial Showcase /Trial opportunities
2.6	1.15 pm	Decorative luminaires	Park pathway (functional) Park pathway (decorative) Area lighting (functional) Decorative roadway
2.7	1.40 pm	Off-peak dimming / monitoring	
	2 pm	Close	

**EA / SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 4**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From EnergyAustralia (EA)

Karmen Wang (Chair)  
Phil McKee  
Michael Brien  
Peter Hosford  
TBA (Minutes)

From SLIP - SSROC:

Paul Gowans, City of Sydney  
David Pavey, Cessnock Council  
Sayed Chowdhury, Bankstown Council  
Boris Bolgoff, Warringah Council  
Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING NO. 4**

**Thursday 25 February 2010 at 11.30am – 2.30pm  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St,  
Sydney**

2.1	11.30am	Minutes from previous meeting
2.2	11.35 am	Accelerated replacement of 2/20s technical issues
2.3	11.55 am	Cosmopolis
2.4	12.15 pm	Metal Halide lamps
	12.35 pm	Lunch
2.5	1 pm	LEDs
2.6	1.20 pm	Decorative luminaires
2.7	1.40 pm	Off-peak dimming / monitoring
2.8	2 pm	Twin arc / long life sodium lamps
2.9	2.20 pm	General Business
	2.30 pm	Close

**EA / SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 5**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From EnergyAustralia (EA)

Karmen Wang (Chair)  
Phil McKee  
Michael Brien  
Peter Hosford  
Genevieve Mati (Minutes)

From SLIP - SSROC:

Paul Gowans, City of Sydney  
David Pavey, Cessnock Council  
Sayed Chowdhury, Bankstown Council  
Boris Bolgoff, Warringah Council  
Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING NO. 5**

**Thursday 6 May 2010 at 11.30am – 2.00pm  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St,  
Sydney**

2.1	11.30am	Minutes from previous meeting
2.2	11.40 am	Accelerated replacement of 2/20s technical issues
2.3	12.00 pm	Cosmopolis / Metal halide lamps
2.4	12.00 pm	Lunch arrives (working lunch)
2.5	12.30 pm	LEDs
2.6	12.50 pm	Decorative luminaires
2.7	1.10 pm	Off-peak dimming / monitoring
2.8	1.30 pm	General Business
	1.50 pm	Close

**EA/SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 6**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From Ausgrid                      Karmen Wang (Chair)  
   Phil McKee (Manager – Street Lighting)  
   Peter Hosford  
   Stephanie Fahy (Minute Secretary)

From SLIP – SSROC              Paul Gowans, City of Sydney Council  
   Sayed Chowdhury, Bankstown Council  
   Boris Bolgoff, Warringah Council  
   Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING No. 6**

**Thursday 12th August 2010 11.30AM - 1.30PM  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St.  
Sydney**

2.1	Actions from previous meeting
2.2	32 CFL Luminaire
2.3	Cosmopolis/ Metal Halide lamps
2.4	LED trial
2.5	Decorative Luminaires
2.6	Off-Peak Dimming
2.7	AS/NZS Discontinuation of 125W Mercury Vapour
2.8	General business

**EA / SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 7**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From EnergyAustralia (EA)	Phil McKee (Chair) Peter Hosford Stephanie Fahy (Minutes)
From SLIP - SSROC:	Paul Gowans, City of Sydney David Pavey, Cessnock Council Sayed Chowdhury, Bankstown Council Boris Bolgoff, Warringah Council Graham Mawer, SLIP consultant

**2.0 AGENDA OF MEETING NO. 7**

**Tuesday 1 March 2011 at 11am – 2.00pm  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St,  
Sydney**

2.1	11.00am	Actions from previous meeting
2.2	11.15 am	Accelerated replacement of 2/20s technical issues Proactive use of glare shield in narrow roads
2.3	11.30 am	Cosmopolis / Metal halide lamps
2.4	11.45 am	LEDs
2.5	12.00 pm	Lunch
2.6	12.15 pm	Decorative luminaires
2.7	12.30 pm	Off-peak dimming / monitoring
2.8	12.45 pm	AS/NZS discontinuation of 125W mercury vapour from 1 January 2011
2.9	1.00pm	NS119 Street Lighting Standard Update
2.10	1:15pm	Street Lighting Management Plan Update
2.11	1.30 pm	General Business
	1.45 pm	Close

**EA/SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 8**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From Ausgrid	John Bedding (Chair) Phil McKee Andrew Scott (Minutes)
From SLIP – SSROC	Paul Gowans, City of Sydney Graham Mawer, SLIP consultant Jeff Bush, Upper Hunter Shire Council Sayed Chowdhury, Bankstown City Council
Apologies	Peter Dormand, Newcastle City Council Michael Doyle, The Hills Shire Council Boris Bolgoff, Warringah City Council

**2.0 AGENDA OF MEETING No. 8**

**Thursday 15 December 2011 at 11:00 – 2:00  
Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St.  
Sydney**

2.1	Actions from previous meeting
2.2	Decorative luminaires
2.3	42W CFL issues
2.4	Cat P LED trial
2.5	125W MBF replacement
2.6	Main Roads: Active reactor update, PE cell update, remote monitoring
2.7	Floodlighting
2.8	Maintenance update
2.9	Aeroscreen upcast (brackets)
2.10	General business

**EA/SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 9**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From Ausgrid

John Bedding (Chair)  
Phil McKee  
Geraldine Shanahan (Minutes)

From SLIP – SSROC

Paul Gowans, City of Sydney  
Graham Mawer, SLIP consultant  
Peter Dormand, Newcastle City Council  
Michael Doyle - The Hills Shire Council  
Adam Clarke - Newcastle City Council  
Steele Adams - Newcastle City Council  
Sayed Chowdhury, Bankstown City Council

Apologies

Neil Pope – Muswellbrook Council  
Ross Fleming – Manly Council  
Stephen Hawes – Maitland City Council

**2.0 AGENDA OF MEETING No. 9**

**Thursday 19 July 2011 at 11:00 – 2:00**

**Conference Room 1, Level 9, Roden Cutler House, 24 Campbell St.  
Sydney**

2.1	Actions from previous meeting
2.2	Decorative luminaires
2.3	42W CFL issues
2.4	Cat P LED trial
2.5	125W MBF replacement
2.6	Main Roads: Active reactor update, PE cell update, remote monitoring
2.7	Floodlighting
2.8	Maintenance update
2.9	Aeroscreen upcast (brackets)
2.10	General business (GM Briefing notes)



**EA/SLIP (SSROC) STREET LIGHTING TECHNICAL WORKING GROUP  
AGENDA FOR MEETING No. 10**

**1.0 TECHNICAL WORKING GROUP MEMBERSHIP**

From Ausgrid                      John Bedding (Chair)  
   Phil McKee  
   Geraldine Shanahan (Minutes)

From SLIP – SSROC              Paul Gowans, City of Sydney  
   Graham Mawer, SLIP consultant  
   Peter Dormand, Newcastle City Council  
   Michael Doyle, The Hills Shire Council  
   Michael Wojcik, Auburn Council  
   Isabelle Albert, Bankstown City Council

Apologies

**2.0 AGENDA OF MEETING No. 10**

**Thursday 1 November 2012 at 9:30 – 12:00  
Conference Room 1, Building 1, Level 1, Homebush Depot, 25 -27  
Pomeroy St, Homebush**

2.1	Actions from previous meeting
2.2	AS1158 Update
2.3	Decorative Luminaires
2.4	42W CFL issues
2.5	Cat P LED trial
2.6	125W MBF replacement
2.7	Main Roads: Active reactor update, PE cell update, remote monitoring
2.8	Floodlighting
2.9	Repair times
2.10	Aeroscreen upcast (brackets)
2.11	General business



## Invitation to Attend Consultation Meeting to Discuss the Introduction of LED Technology.

**Fri 09/08/2013 2:00 PM - 3:30 PM**

**Location:** Dial in Access Number :1800 681 583 (note this number will transfer, please hold on) Guest Pin :762 895 28 0639# or at Ausgrid, 25 - 27 Pomeroy Street Homebush, Building 1 Level 1 Conference Room 1



This entry has an alarm. The alarm will go off before the entry starts.

Required:

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Description



<b>42WCFL</b>	<b>\$26.42</b>	<b>\$47.03</b>	46.4	4341	<b>\$31.02</b>	<b>\$104.47</b>	
<b>LED29W</b>	<b>\$48.03</b>	<b>\$34.01</b>	29	4341	<b>\$19.39</b>	<b>\$101.43</b>	3.00%

\* Information supplied by SSROC.

If councils agree, Ausgrid proposes to deploy LED luminaires immediately following the consultation meeting, Ausgrid will write to councils seeking formal endorsement to make LED technology the default luminaire for category P4 and P5 residential roadway lighting luminaires. Ausgrid will then seek pricing approval from the AER.

If a luminaire is replaced with a new LED, Ausgrid proposes to continue to charge councils the existing luminaire price until the new LED luminaire price has been approved by the AER.

Once approved by the AER the bills will be backdated to the installation date of the LED luminaire and councils credited with any difference. This has been endorsed by the AER.

In March 2012 Ausgrid proposed to Standards Australia to update the standard (AS1158) to include LED technology. The draft standard (which now includes LEDs) was released this week for public comment. The proposed LED luminaire, the Sylvania Streetled, complies with the draft standard.

Regards,

**Phil McKee | Manager - Street Lighting | Ausgrid**

Building 1, Level 1 25-27 Pomeroy Street Homebush NSW 2140 AUSTRALIA

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5 April 2012

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Dear Ms Chan,

### LED Street Light Trial of Residential Roads - Information Nights

As you may be aware, Ausgrid is currently conducting a series of LED street lighting trials on residential roads. These trials have now been running for some months and Ausgrid is keen to hear directly from Councils about their impressions of this new lighting technology. Ausgrid would like to invite anyone who is interested from your Council to attend one of four LED information nights as detailed below:

Council	Address	Suburb	Date	Supplier
Wyong	34-90 Irene Pde	Noraville	<b>Wednesday 2 May 2012 5.30pm</b>	Sylvania
Ryde	1-48 Betty Hendry Pde	North Ryde	<b>Wednesday 16 May 2012 5.30pm</b>	Sylvania
Bankstown	Oak Drive (Between 7 Ash St and Whitemore Ave)	Georges Hall	<b>Wednesday 23 May 2012 5.30pm</b>	Pecan (LRL)
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Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr John Burgess  
General Manager  
Auburn Council  
PO Box 118  
Auburn  
NSW 1835

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Burgess,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Matthew Stewart  
General Manager  
Bankstown City Council  
PO Box 8  
Bankstown  
NSW 1885

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Stewart,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Dave Walker  
General Manager  
The Hills Shire Council  
PO Box 75  
Castle Hill  
NSW 1765

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Walker,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Lara Kirchner  
General Manager  
Botany Bay City Council  
PO Box 331  
Mascot  
NSW 1460

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Kirchner,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Michael McMahon  
General Manager  
Burwood Council  
PO Box 240  
Burwood  
NSW 1805

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr McMahon,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Jim Montague, PSM  
General Manager  
Canterbury City Council  
PO Box 77  
Campsie  
NSW 2194

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Montague, PSM,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Lea Rosser  
General Manager  
Cessnock City Council  
PO Box 152  
Cessnock  
NSW 2325

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Rosser,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Gary Sawyer  
General Manager  
City of Canada Bay Council  
Locked Bag 1470  
Drummoyne  
NSW 1470

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Sawyer,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Monica Barone  
CEO  
City of Sydney Council  
GPO Box 1591  
Sydney  
NSW 2001

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Barone,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Peter Wilson  
General Manager  
Gosford City Council  
PO Box 21  
Gosford  
NSW 2250

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Wilson,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Scott Phillips  
General Manager  
Hornsby Shire Council  
PO Box 37  
Hornsby  
NSW 1630

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Phillips,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Barry Smith  
General Manager  
Hunters Hill Council  
PO Box 21  
Hunters Hill  
NSW 2110

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Smith,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Victor Lampe  
General Manager  
Hurstville City Council  
PO Box 205  
Hurstville BC  
NSW 1481

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Lampe,

### LED Street Light Trial of Residential Roads - Information Nights

As you may be aware, Ausgrid is currently conducting a series of LED street lighting trials on residential roads. These trials have now been running for some months and Ausgrid is keen to hear directly from Councils about their impressions of this new lighting technology. Ausgrid would like to invite anyone who is interested from your Council to attend one of four LED information nights as detailed below:

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Paul Woods  
General Manager  
Kogarah Municipal Council  
Locked Bag 8  
Kogarah  
NSW 2217

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Woods,

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr John McKee  
General Manager  
Ku-ring-gai Council  
Locked Bag 1056  
Pymble  
NSW 2073

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr McKee,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Brian Bell  
General Manager (CEO)  
Lake Macquarie City Council  
Box 1906  
Hunter Region Mail Centre  
NSW 2310

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Bell,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Peter Brown  
General Manager  
Lane Cove Municipal Council  
PO Box 20  
Lane Cove  
NSW 1595

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Brown,

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Peter Head  
General Manager  
Leichhardt Municipal Council  
PO Box 45  
Leichhardt  
NSW 2040

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Head,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr David Evans  
General Manager  
Maitland City Council  
PO Box 220  
Maitland  
NSW 2320

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Evans,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Henry Wong  
General Manager  
Manly Council  
PO Box 82  
Manly  
NSW 1655

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Wong,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Ken Gainger  
General Manager  
Marrickville Council  
PO Box 14  
Petersham  
NSW 2049

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Gainger,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr V.H.R May, PSM  
General Manager  
Mosman Municipal Council  
PO Box 211  
Spit Junction  
NSW 2088

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr May, PSM,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Steve McDonald  
General Manager  
Muswellbrook Shire Council  
PO Box 122  
Muswellbrook  
NSW 2333

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr McDonald,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Phil Pearce  
General Manager  
Newcastle City Council  
PO Box 489  
Newcastle  
NSW 2300

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Pearce,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Penny Holloway  
General Manager  
North Sydney Council  
PO Box 12  
North Sydney  
NSW 2059

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Holloway,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Mark Ferguson  
General Manager  
Pittwater Council  
PO Box 882  
Mona Vale  
NSW 1660

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Ferguson,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Peter Gesling  
General Manager  
Port Stephens Council  
PO Box 42  
Raymond Terrace  
NSW 2324

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Gesling,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Ray Brownlee  
General Manager  
Randwick City Council  
30 Frances Street  
Randwick  
NSW 2031

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Brownlee,

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Meredith Wallace  
General Manager  
Rockdale City Council  
PO Box 21  
Rockdale  
NSW 2216

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Wallace,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr John Neish  
General Manager  
City of Ryde  
Locked Bag 2069  
North Ryde  
NSW 1670

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Neish,

### LED Street Light Trial of Residential Roads - Information Nights

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Please indicate the sites/s you will be attending.

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Ms Lyndy Hyam  
General Manager  
Singleton Shire Council  
PO Box 314  
Singleton  
NSW 2330

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Ms Hyam,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr David Backhouse  
General Manager  
Strathfield Municipal Council  
PO Box 120  
Strathfield  
NSW 2135

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Backhouse,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr John Rayner  
General Manager  
Sutherland Shire Council  
Locked Bag 17  
Sutherland  
NSW 1499

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Rayner,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Dr Robert Lang  
CEO  
Parramatta City Council  
PO Box 32  
Parramatta  
NSW 2124

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Dr Lang,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Daryl Dutton  
General Manager  
Upper Hunter Shire Council  
PO Box 208  
SCONE  
NSW 2337

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Dutton,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Rik Hart  
General Manager  
Warringah Council  
725 Pittwater Road  
Dee Why  
NSW 2099

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Hart,

### LED Street Light Trial of Residential Roads - Information Nights

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Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Tony Reed  
General Manager  
Waverley Council  
PO Box 9  
Bondi Junction  
NSW 2022

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Reed,

### LED Street Light Trial of Residential Roads - Information Nights

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RSVP To Phil McKee via e-mail [publiclighting@ausgrid.com.au](mailto:publiclighting@ausgrid.com.au) by Thursday 26 April 2012.

Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,



Phil McKee  
Manager - Street Lighting



5 April 2012



Mr Nick Tobin  
General Manager  
Willoughby City Council  
PO Box 57  
Chatswood  
NSW 2057

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Tobin,

### LED Street Light Trial of Residential Roads - Information Nights

As you may be aware, Ausgrid is currently conducting a series of LED street lighting trials on residential roads. These trials have now been running for some months and Ausgrid is keen to hear directly from Councils about their impressions of this new lighting technology. Ausgrid would like to invite anyone who is interested from your Council to attend one of four LED information nights as detailed below:

Council	Address	Suburb	Date	Supplier
Wyong	34-90 Irene Pde	Noraville	<b>Wednesday 2 May 2012 5.30pm</b>	Sylvania
Ryde	1-48 Betty Hendry Pde	North Ryde	<b>Wednesday 16 May 2012 5.30pm</b>	Sylvania
Bankstown	Oak Drive (Between 7 Ash St and Whitemore Ave)	Georges Hall	<b>Wednesday 23 May 2012 5.30pm</b>	Pecan (LRL)
Sutherland	1 - 24 Coast Ave & 1-21 Arthur Ave	Cronulla	<b>Wednesday 30 May 2012 5.30pm</b>	Orangetek

The information nights will provide an opportunity for Council representatives to view the LED street lights first hand and raise any questions or concerns about LED street lights directly with suppliers as they will also be attending. The agenda for the night is as follows:

- 5.30pm – Welcome
- 5.35pm – Presentation by supplier regarding LED street lights and the opportunity to ask questions

5.50pm – Ausgrid to present interim LED street light trial report  
6.00pm – Questions

Note: Following resident feedback 4 out of the 8 LED lights at the Georges Hall site will be increased from 22 watts to 28 watts to increase lighting levels for viewing on the night. This will provide a great opportunity to compare the different lighting levels at the one site.

RSVP To Phil McKee via e-mail [publiclighting@ausgrid.com.au](mailto:publiclighting@ausgrid.com.au) by Thursday 26 April 2012.

Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Gary James  
General Manager  
Woollahra Council  
PO Box 61  
Double Bay  
NSW 1360

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr James,

### LED Street Light Trial of Residential Roads - Information Nights

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RSVP To Phil McKee via e-mail [publiclighting@ausgrid.com.au](mailto:publiclighting@ausgrid.com.au) by Thursday 26 April 2012.

Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,



Phil McKee  
Manager - Street Lighting

5 April 2012



Mr Michael Whittaker  
General Manager  
Wyong Shire Council  
PO Box 20  
Wyong  
NSW 2259

570 George Street  
Sydney NSW 2000  
All mail to GPO Box 4009  
Sydney NSW 2001  
T +61 2 131 525  
F +61 2 9269 2830  
www.ausgrid.com.au

Dear Mr Whittaker,

### LED Street Light Trial of Residential Roads - Information Nights

As you may be aware, Ausgrid is currently conducting a series of LED street lighting trials on residential roads. These trials have now been running for some months and Ausgrid is keen to hear directly from Councils about their impressions of this new lighting technology. Ausgrid would like to invite anyone who is interested from your Council to attend one of four LED information nights as detailed below:

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Thursday 26 April 2012.

Please indicate the sites/s you will be attending.

If you have any questions or require further information on this matter, please do not hesitate to call me directly on (02) 8001 3339.

Yours sincerely,

A handwritten signature in blue ink that reads "Phil McKee". The signature is written in a cursive style with a large 'M' and 'K'.

Phil McKee  
Manager - Street Lighting

## New Approaches to 2014-2019 Streetlighting Pricing

Ausgrid would like to invite you to attend a consultation meeting to discuss new approaches to Streetlighting pricing 2014 - 2019.

As you would be aware the current pricing for Streetlighting is made up of the following:

1. Capital Charge:
  - Pre 2009 assets (Fixed Charge) (different price for the same component across Councils, dependent on age of assets )
  - Post 2009 assets (Annuity Charge) (same price across Councils)
2. Maintenance Charge (same price across Councils)

If we continue using the above pricing model, then the pricing for the next regulatory period will most likely be as follows:

1. Capital Charge:
  - Pre 2009 assets (Fixed Charge)
  - Post 2009 - Pre July 2014 assets (Fixed Charge)
  - Post July 2014 assets (Annuity Charge)
2. Maintenance Charge (same price across Councils)

There exists an opportunity to change the approach to Streetlighting pricing and Ausgrid would like to present a range of options to you. We welcome feedback on the approaches that will be presented.

An invitation is extended to Councils who wish to present other pricing solutions or suggestions at the meeting. If you wish to present on the day, please contact me via email by Monday 24 February, 2014, and I will add you to the agenda. Please provide details of your name, the Council you are representing and attach a copy of your presentation slides to enable them to be loaded prior to the event.

A representative/s from the AER will be in attendance at the meeting.

The presentation will be held in the Auditorium at our offices in George Street Sydney. In addition, a video conference facility will be made available at our offices at Wallsend (Newcastle).



## Streetlighting

# CATEGORY P LED LUMINAIRE TRIAL

## INTERIM REPORT

May 2012



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## Executive Summary

Light Emitting Diodes (LEDs) are a rapidly emerging technology for roadway lighting which are energy efficient, produce high quality white lighting and are potentially highly reliable. The key challenges with LEDs at present include high (but decreasing) capital costs, questions about glare and finding products that meet Australian Standards for road lighting. While LEDs have been much discussed in recent years, it has taken some time for market-ready products to emerge that meet the unique requirements of the Australian Standard for road lighting, AS/NZS 1158.

To explore the current capabilities of LED roadway lighting, Ausgrid is currently staging an LED trial on residential roadways. Ausgrid selected three LED trial technologies following a public tender that garnered 30 responses from lighting suppliers. The chosen luminaires are from LED Roadway Lighting (SAT-24S at 22-28W), OrangeTek (TerraLED 48 at 50W) and Sylvania Lighting Australia (Sylvania StreetLED at 29W).

Councils served by Ausgrid nominated a total of 15 potential LED trial sites of which eight were chosen from across the Ausgrid network. Each trial site consisted of at least six lights and the total trial consisted of 63 lights.

Ausgrid's LED trial, believed to be one of the most comprehensive to date by an Australian utility, has demonstrated that:

- A range of lighting suppliers are now able to provide LED luminaires for residential roadways that meet the key requirements of AS/NZ 1158.
- The majority of residents prefer the LEDs to the previous lighting (generally tubular fluorescent and mercury vapour) and residents did not find the LEDs to be any brighter or glarier than the previous lighting.
- Residents prefer higher lighting levels than the minimum levels allowed for under AS/NZS 1158 P5.
- Photometric surveys substantiated LED performance claims and were generally consistent with photometric modelling.
- All LED trial sites and technologies show marked improvements in both uniformity and the length of roadway that is effectively lit as compared with the previous lighting. Before and after site photography in this report shows clear illustrations of this.

Ausgrid's conclusion is that there does appear to be a strong emerging commercial, technical and environmental case for the adoption of LEDs.

Ausgrid is continuing to further investigate the potential for widespread deployment of LEDs and, if a move to LEDs on residential roads is supported by councils, Ausgrid intends to shortly stage an expression of interest and tender.

# INTRODUCTION AND TENDER PROCESS

## **Introduction**

Ausgrid owns and maintains approximately 250,000 streetlights on behalf of 41 local councils. Ausgrid's goal is to provide the most energy efficient cost effective solutions to councils whilst minimising Ausgrid's operational costs. LED streetlights are evolving over the world as a technology that can meet these criteria.

It has taken some time for LED streetlighting manufacturers to consider producing streetlights specifically for the Australian and New Zealand markets. There are some significant differences between the Asian, European and American markets which prevent an "off the shelf" solution being chosen from one of these markets to use in Australia. This creates a commercial challenge for the manufacturers because on a global scale the Australian market is small. This then translates to a trade off situation for Ausgrid between capital and operational costs of the new technology verse the current. It appears now however that we do have the attention of LED streetlight manufacturers and there are now a number of products appearing that can compete with existing technology both technically and at a commercial level.

The next step now that Ausgrid is confident that there are products available in a competitive market is to trial a sample of these products. The purpose of this trial is to determine the following:

- Suitability of the construction of the LED luminaires for use on the Ausgrid network. In particular category P4 and P5 roads.
- Visual impact and minimisation of glare.
- Council and resident reactions to the new type of lighting.
- Understand what problems may be encountered with the introduction of LED streetlights

## **Tender Process**

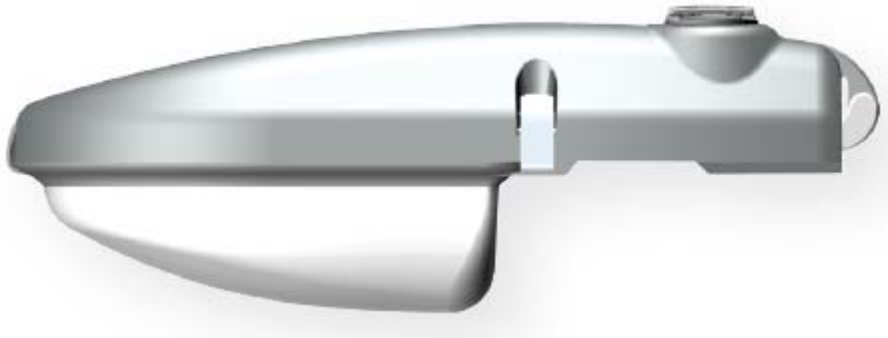
Ausgrid underwent an open tender process to choose the suppliers of the LED streetlights on trial. 30 responses were received and 3 were chosen. Ausgrid used criteria such as cost, technical conformance to the specification, quality, and supply chain to evaluate responses. Cost and technical characteristics of the responses varied significantly and suppliers varied from large multinationals to small Australian firms who had little experience in public lighting.

Ultimately what set the suppliers apart was the ability to comply to category P4 and P5 lighting levels required by AS1158.3 at the spacing that Ausgrid require. Very few suppliers were able to meet this requirement.

# TECHNICAL DETAILS OF CHOSEN PRODUCTS

## Supplier 1

- Sylvania Street LED
- 25W LED module - 18 x 1.4W High Power LEDs
- Total system power consumption 29W
- Precision modelled IP65 LED lens
- Integrated heat sink
- IP67 LED driver
- “Plug & Play” Electronic control gear and LED module.
- Colour Temperature: 5000K
- Colour Rendering Index:  $\geq 70$



## Supplier 2

- LED Roadway Lighting SAT-24S
- Power consumption: 28W @ 350mA switchable to 22W @ 280mA
- IP 66 Ingress Protection for both light engine chamber and power supply chamber
- Two independent LED light engines are to be angled at 30° to a horizontal roadway in order to maximize targeted lumen output
- Heat sink fins to be integral with the single-piece cast body
- Colour Temperature 5000K ( $\pm 500$ ),
- Colour Rendering Index: > 65





### Supplier 3

- OrangeTeK TerraLED 48
- Power Consumption 50W.
- High Quality 110 Lumen/Watt Nichia LEDs.
- Each LED module is fitted with identical optical lenses to provide optimal efficiency and desired light distribution
- The driver unit is individually sealed to a protection of IP66.
- Colour temperature: 4800K.
- Colour Rendering Index:  $\geq 70$



# TRIAL SITES

## **Trial Sites**

Ausgrid invited all councils to submit a site they thought would be suitable for the trial. We received 15 responses by the cut off date and all these sites were evaluated using the following criteria:

- A street / block with little or no trees.
- The road reserve should be of standard width (20 metres).
- The street should be straight and flat.
- The street should be in a quiet residential area (light residential traffic).

Of the sites evaluated 8 were chosen to perform the trial. The sites are:

**Cronulla** – 1-24 Coast Ave and 1-21 Arthur Ave

**North Bondi** – 126-168 Ramsgate Ave

**Georges Hall** – Oak Drive between 7 Ash St and Whitemore)

**Wiley Park** – Shadforth St (between Lakemba St and Punchbowl Rd)

**Balgowlah Heights** – Bareena Dr (from Woodland St to Dobroyd Scenic Dr)

**Mosman** – Medusa St

**Noraville** – 34-90 Irene Parade

**North Ryde** – 1-48 Betty Hendry Parade

# BEFORE AND AFTER RESIDENT SURVEYS

Over 1000 letters were sent to notify residents that their street had been chosen for the LED trial. Accompanying this letter was a survey for residents to complete based on the existing street lighting (shown below). The survey was a way to get the residents to take notice of their existing street lighting so that they would be better able to make a comparison of the LED street lights.

## LED Lighting Trial Opinion Survey - November 2011



Before we start our LED lighting trial, please let us know what you think about the existing lighting in your street:

Street name: \_\_\_\_\_

<i>Please tick one box from each row</i>	Agree	Slightly agree	Neither agree or disagree	Slightly disagree	Disagree
1. Street lighting in my street is adequate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. The daytime appearance of street lights in my street is acceptable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Existing street lights in my street are too bright and/or glary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Existing street lights in my street are too dim and need upgrading	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. As a pedestrian, existing street lights in my street make me feel safer after dark	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Existing street lights in my street assist my driving and help me see pedestrians and cyclists better	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. My age group is:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	< 40	40- 49	50-59	60-69	70+

Further comments/suggestions

Please feel free to provide your contact details below if you are happy for us to contact you in the future.

Name : \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

**Please return your survey in the stamped envelope provided**

After the LED street lights had been installed for a month we sent out another survey seeking resident's feedback. The results from both of these surveys have been compiled and are tabled on the following pages.

## LED Lighting Trial Opinion Survey - February 2012



Now that the trial has started, please let us know what you think of the new lighting in your street:

Suburb: **BALGOWLAH HEIGHTS**

<i>Please tick one box from each row</i>	Agree	Slightly agree	Neither agree or disagree	Slightly disagree	Disagree
1. The new street lighting in my street is adequate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. I prefer the new street lights as compared to the old street lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. The daytime appearance of the new street lights in my street is acceptable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. New street lights in my street are too bright and/or glary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. New street lights in my street are too dim and more light is needed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. As a pedestrian, the new street lights in my street make me feel safer after dark than the old lights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. New street lights in my street assist my driving and help me see pedestrians and cyclists better	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. My age group is:	< 40	40- 49	50-59	60-69	70+
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Further comments/suggestions

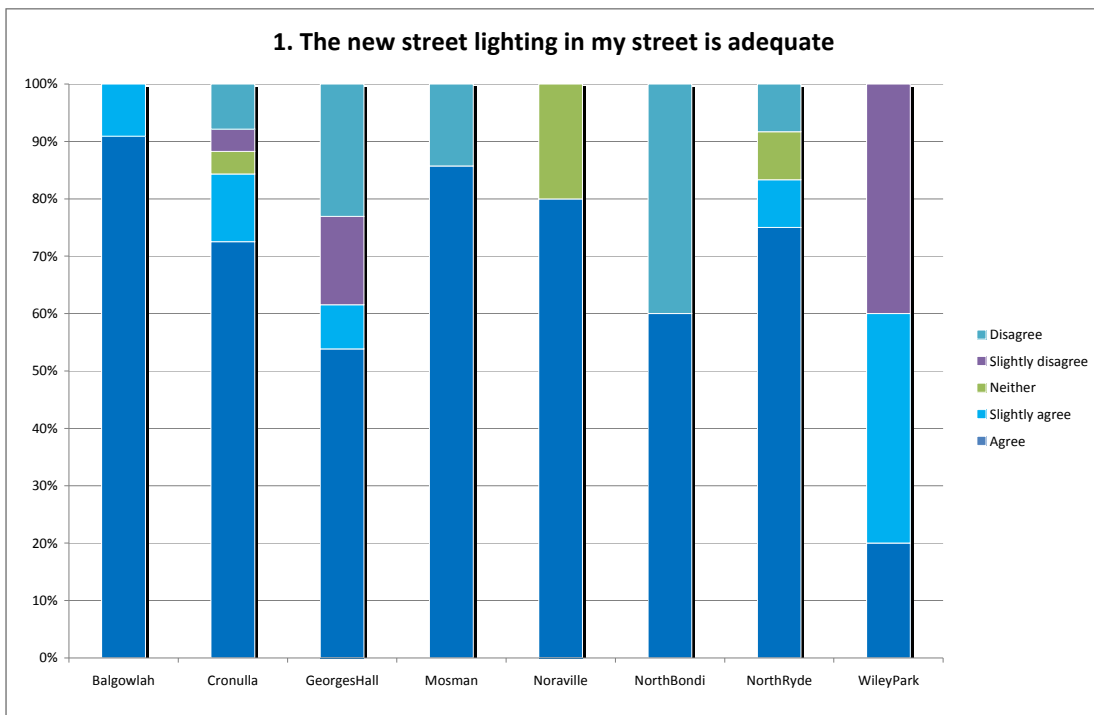
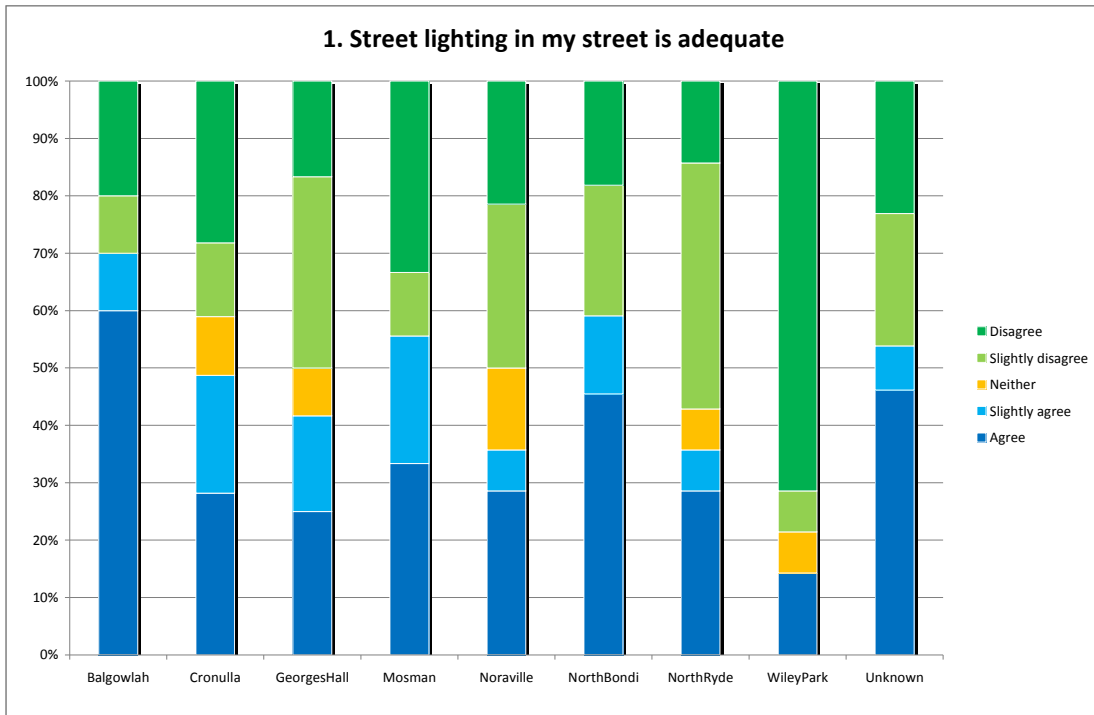
Please feel free to provide your contact details below if you are happy for us to contact you in the future.

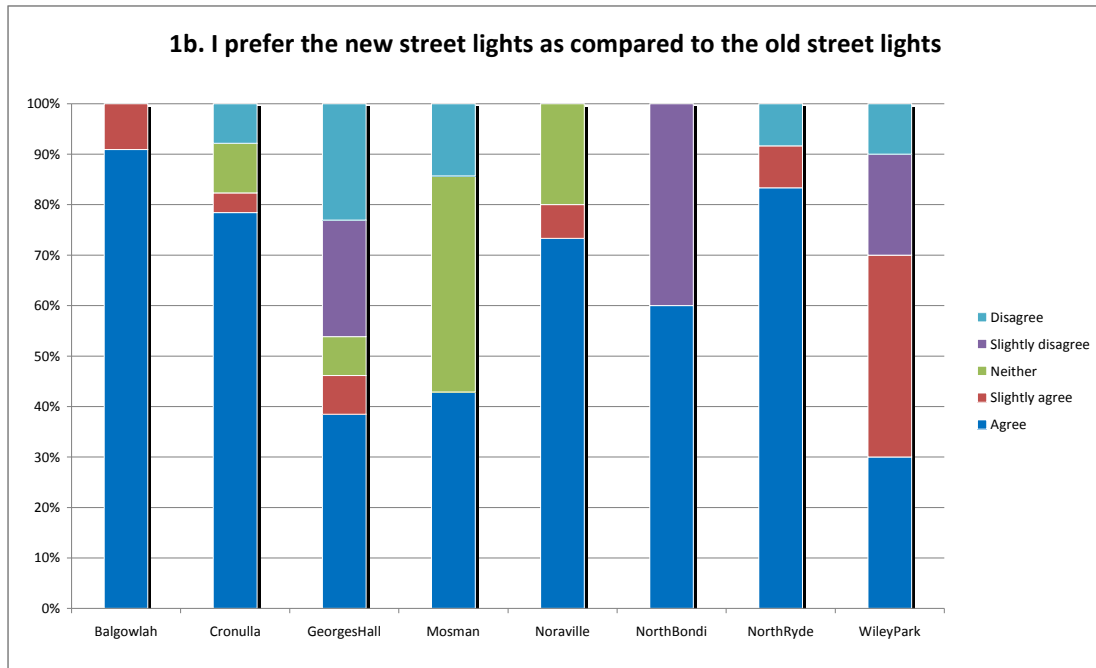
Name : \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

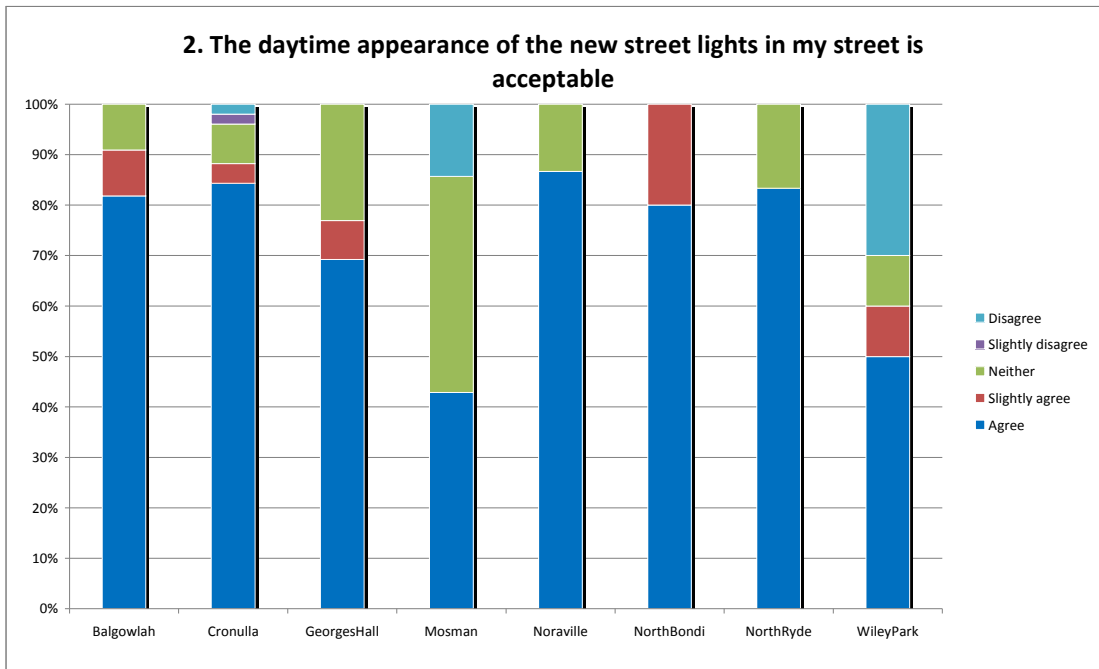
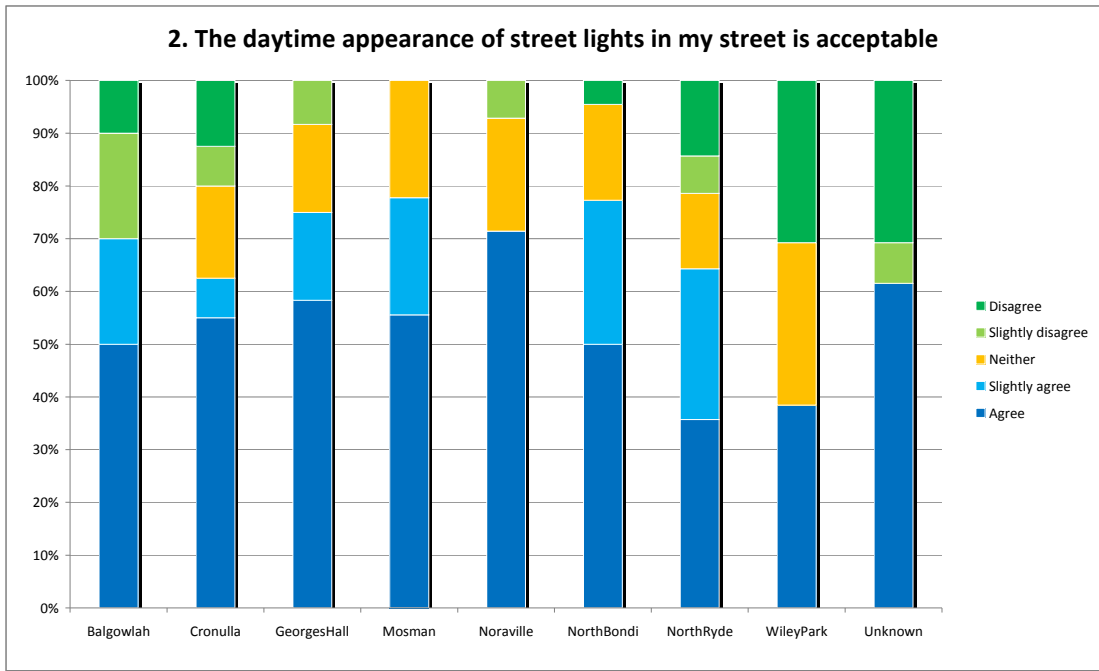
**Please return your survey in the stamped envelope provided by 30th March 2012**

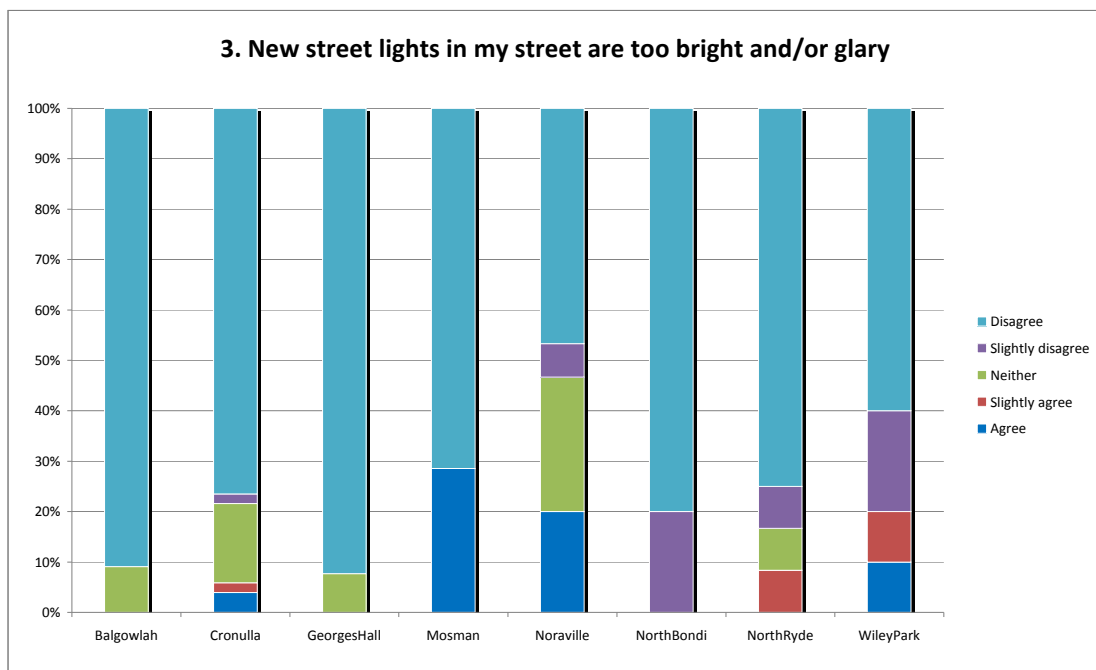
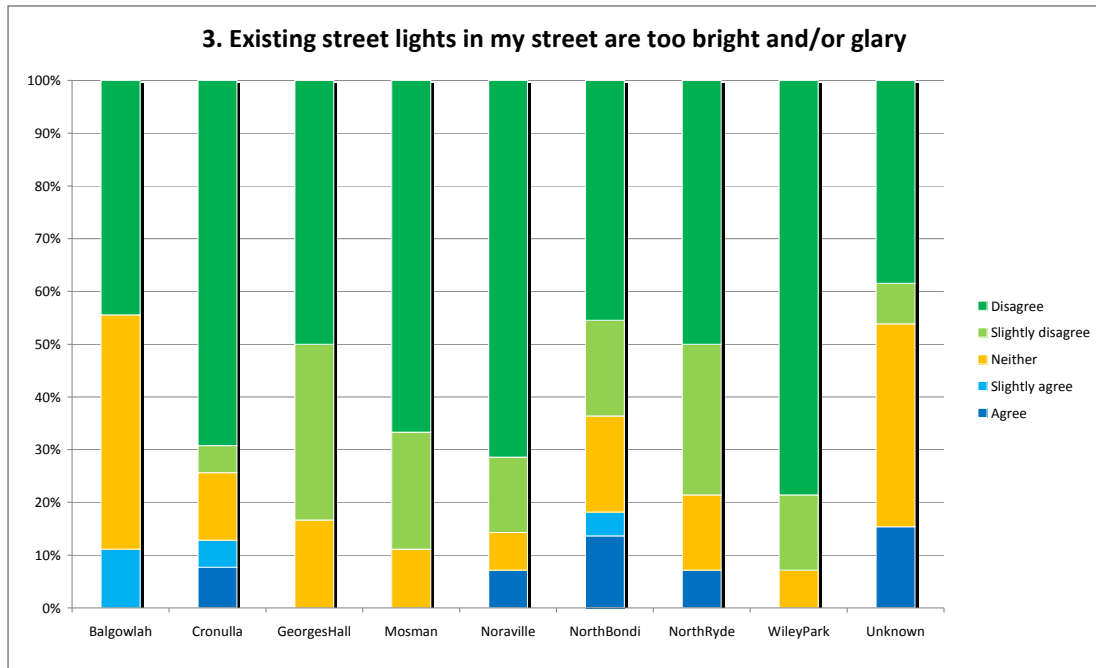




These results show that the majority of the residents prefer the new streetlights to the old. What they also show is that the residents prefer more light. The luminaires trialled at Balgowlah and Cronulla have a significantly higher wattage (50W) than the other trial luminaires which in turn would output more light. As can be seen in the results these two sites have the highest amount of “Agree” in the “*I prefer the new street light as compared to the old street lights*” category. Counter to that the locations that have 22W luminaires installed have the least amount of “Agree’s” in this category. In response to this we have increased the output of some of luminaries to 28W to determine if there is any discernable improvement in lighting levels. It should be noted that all of these locations met Australian Standards for category P5 and P4 lighting levels.

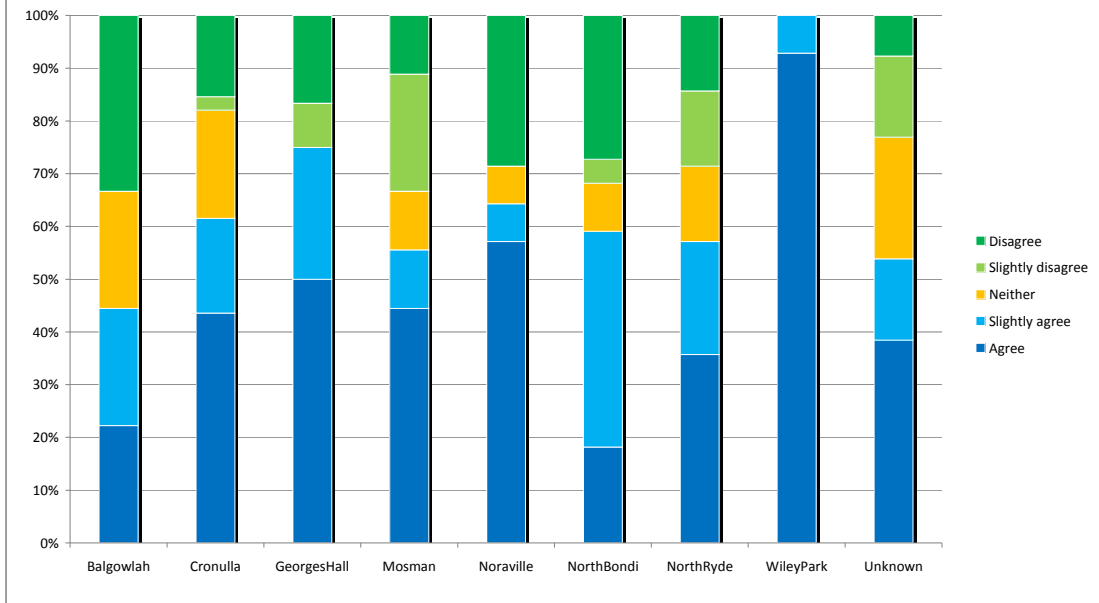




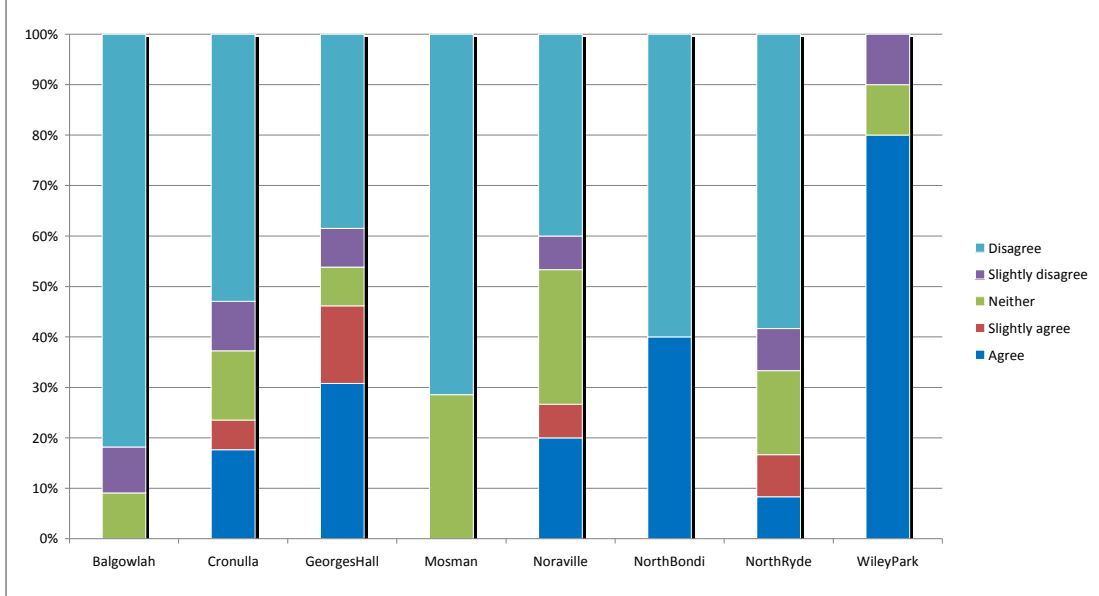


Glare is an issue with all streetlights. However LED streetlights have generated much more discussion in this area due to directional nature of LED's streetlights. As such we included a question in the surveys regarding glare. The results show that the residents do not find the LED streetlights any glarier than the previous streetlights and in fact quite the opposite.

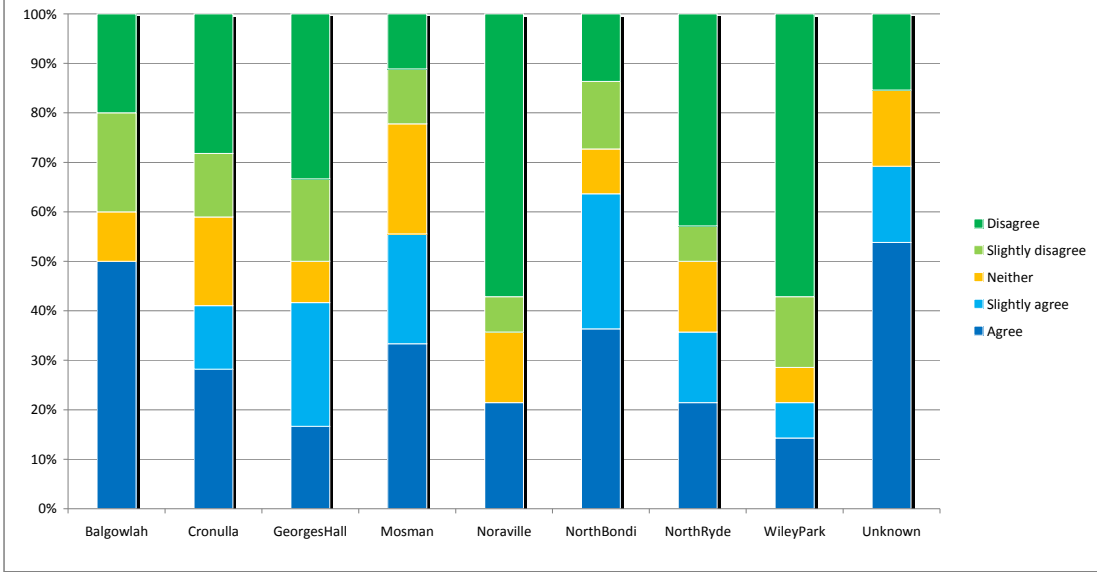
#### 4. Existing street lights in my street are too dim and need upgrading



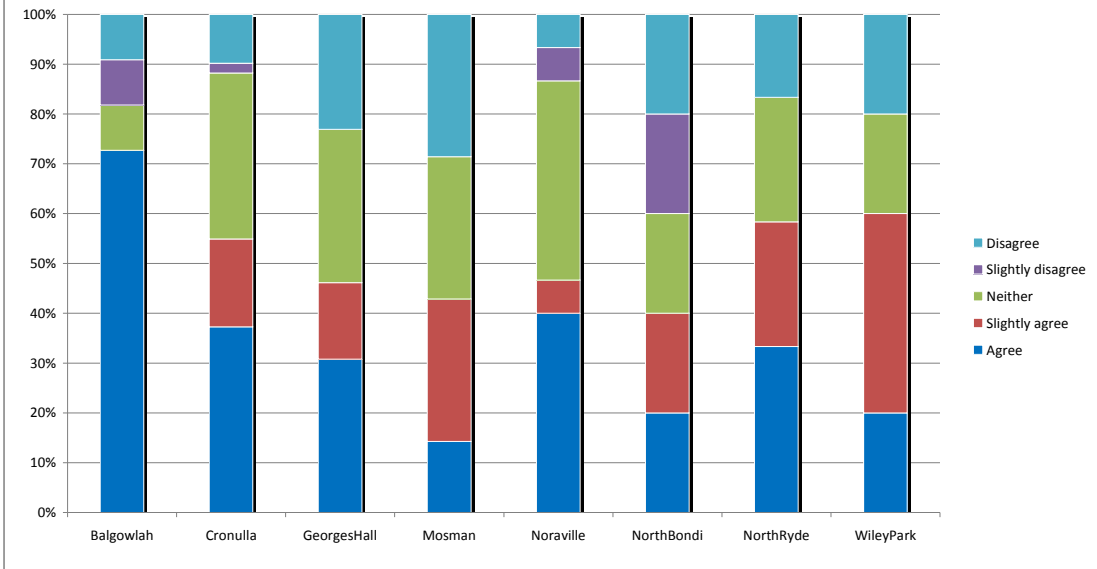
#### 4. New street lights in my street are too dim and more light is needed



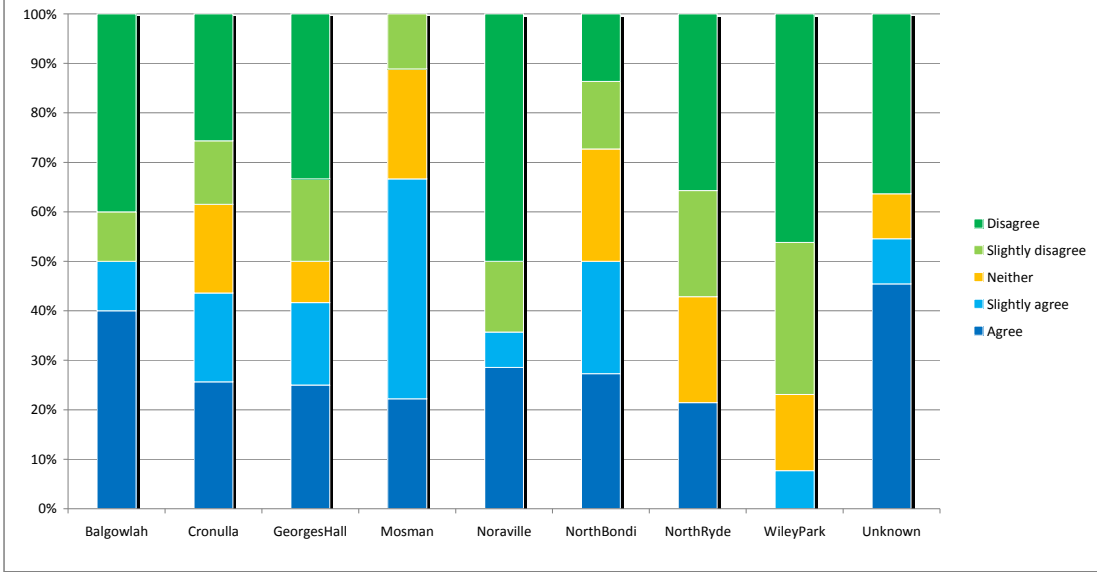
**5. As a pedestrian, existing street lights in my street make me feel safer after dark**



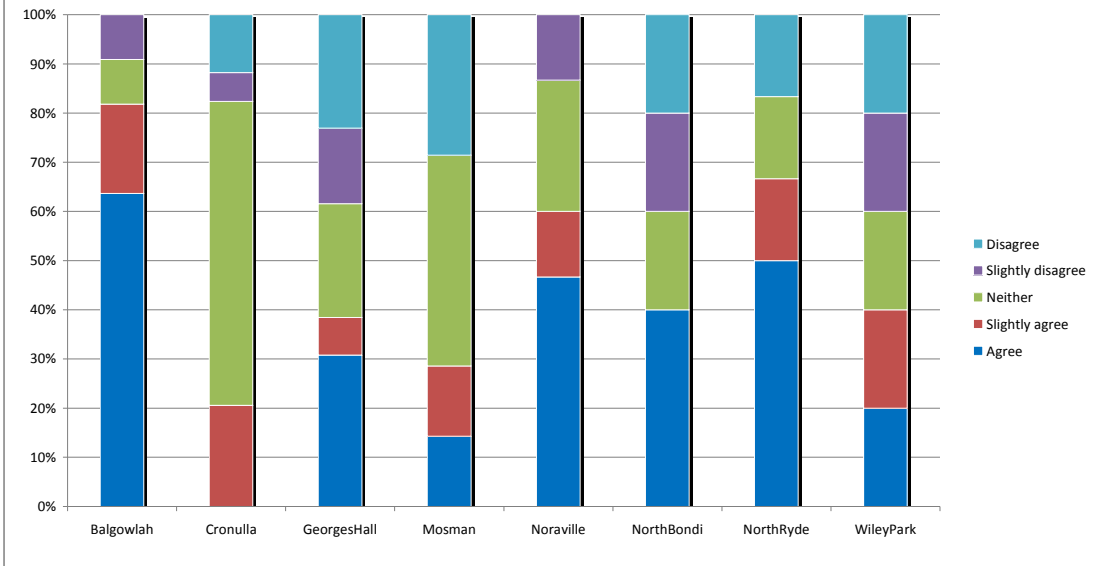
**5. As a pedestrian, the new street lights in my street make me feel safer after dark than the old lights**

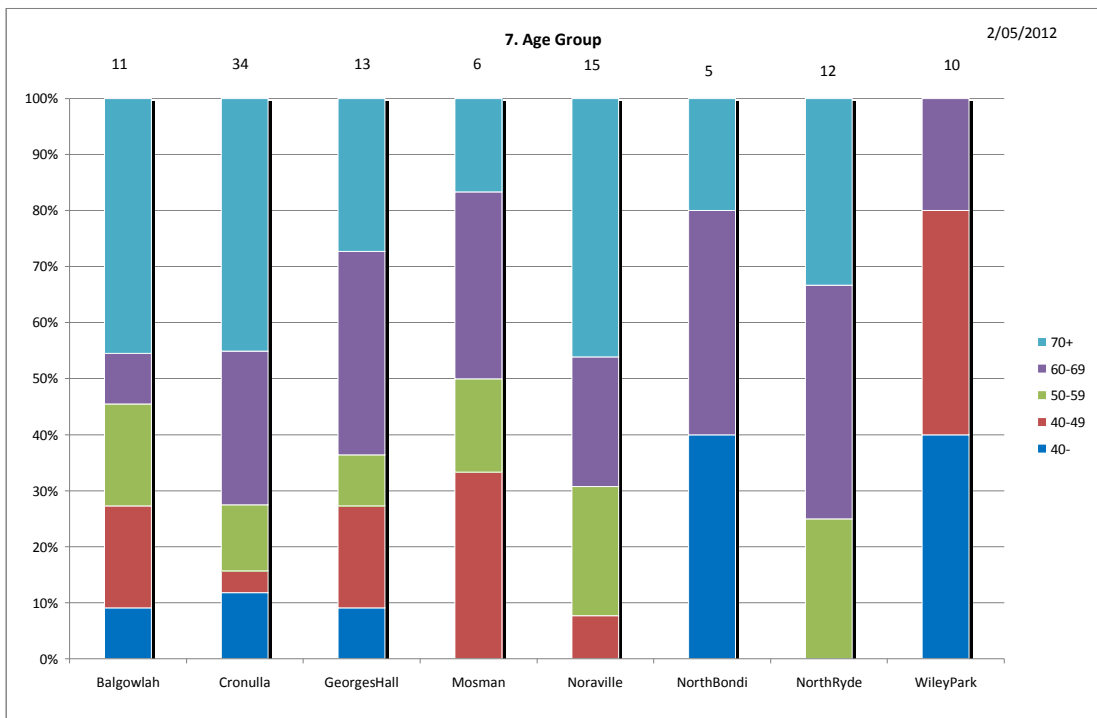
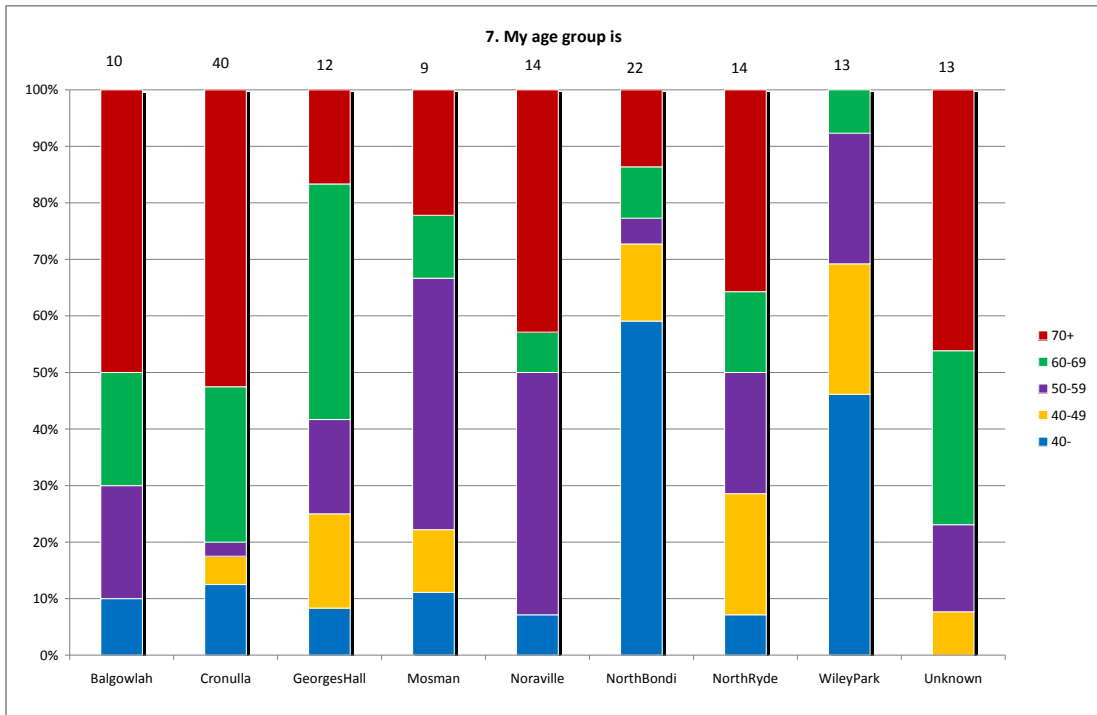


**6. Existing street lights in my street assist my driving and help me see pedestrians and cyclists better**



**6. New street lights in my street assist my driving and help me see pedestrians and cyclists better**





The figure at the top of each bar is the total number of surveys received in each age group.

Overall there has been a positive response from residents to the LED trial.

PHOTOMETRY RESULTS  
AND  
ISSUES ENCOUNTERED

Light levels were measured at the trial sites before and after the installation of the LED streetlights. The average illuminance measured in Lux is shown on the next page. The average illuminance required by the Australian standard is 0.5 lux for category P5 and 0.85 lux for category P4. The only P4 category site on trial is North Bondi all other are P5. As can be seen by the results all locations exceed the average illuminance level required by Australian Standards. This however is not the only condition required to meet Australian Standards, minimum light levels must exceed 0.07 lux for P5 and 0.14 for P4. As these levels are quite low and difficult to accurately measure, these conditions are verified by calculations rather than by field measurements. However, Ausgrid will not be looking for a bare minimum pass on these conditions but rather a streetlight that is perceived as doing the job as it is intended, i.e. to sufficiently light footpaths and roads.

It should be noted that pole spacing has a significant impact on the average Lux levels. The table below shows the average spacing between poles at the various sites. Average lux levels will increase the closer the poles are spaced and vica verca.

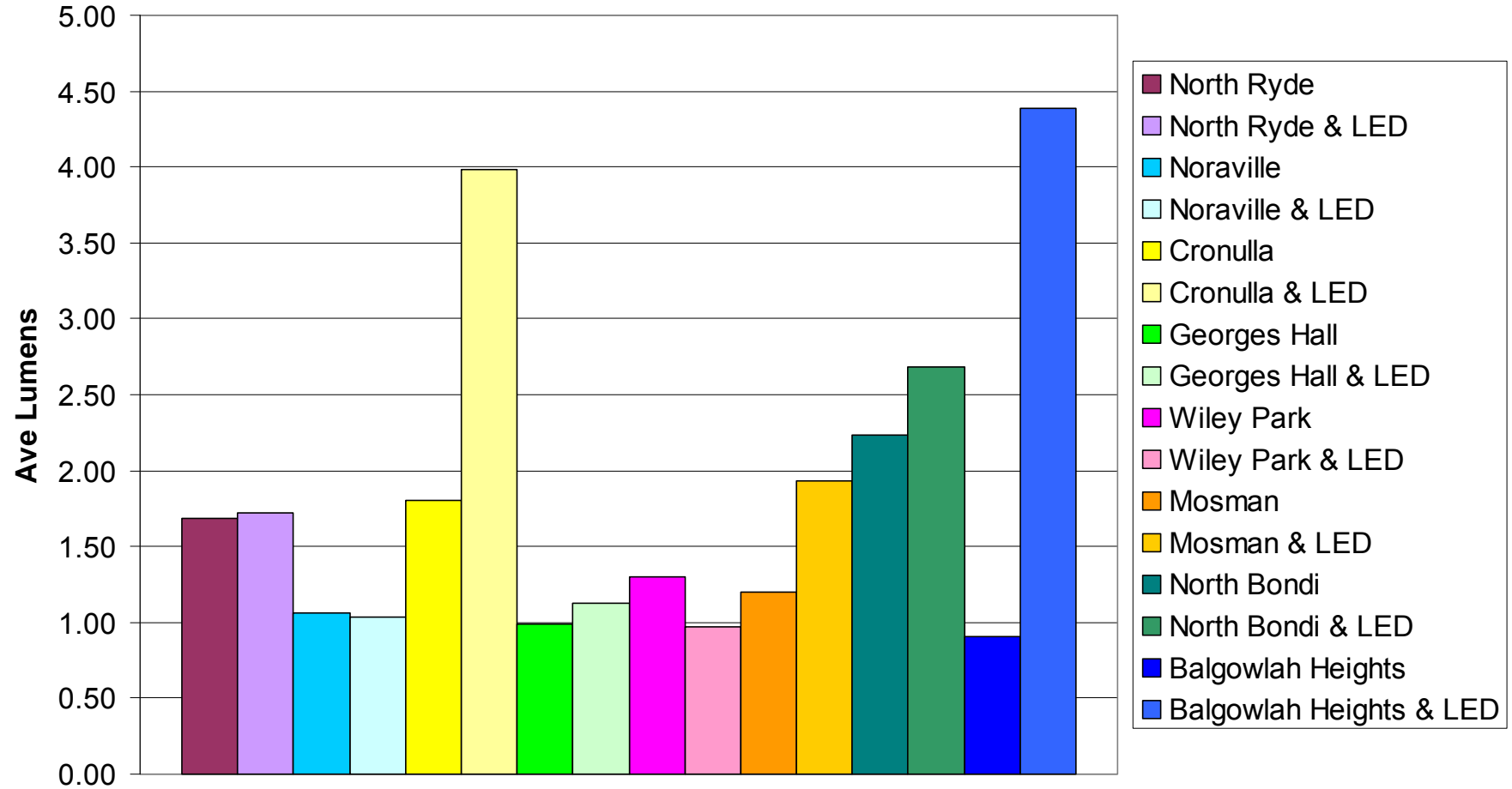
<b>Site</b>	<b>Category</b>	<b>Ave Spacing (m)</b>
North Ryde	P5	47.4
Georges Hall	P5	57.4
Noraville	P5	78.6
Wiley Park	P5	74.0
Balgowlah Heights	P5	48.9
Mosman	P5	56.4
Cronulla	P5	52.4
North Bondi	P4	29.8

The two sites that stand out in these results are the sites that we have installed higher wattage luminaires (Cronulla and Balgowlah) and that have the best overall results in the resident surveys. Wiley Park and Georges Hall have the lowest wattage luminaires installed and this is also evident by the resident responses.



There have been very few issues or problems with the trial to date. One issue encountered was of mechanical nature in that a seal was allowing water into the streetlight. The manufacturer quickly rectified this and as a precaution replaced seals on all of their units. We also had an intermittent failure of one unit, however we could not replicate this failure in the lab.

### Before & After LED Trial



# BEFORE AND AFTER PHOTOS

**Before – 42W Compact Fluorescent - Betty Hendry Parade, North Ryde**



**After – 29W LED - Betty Hendry Parade, North Ryde**



**Before – Twin 20 fluorescent luminaire - Oak Drive, Georges Hall**



**After – 22W LED- Oak Drive, Georges Hall**



This last photo is the site where we have increased the wattage from 22W to 28W. This photo is 22W.

# CONCLUSION

The purpose of this trial was to identify the following:

- Suitability of the construction of the LED luminaires for use on the Ausgrid network. In particular category P4 and P5 roads.
- Visual impact and minimisation of glare.
- Council and resident reactions to the new type of lighting.
- Understand what problems may be encountered introduction LED streetlights

To date this trial has shown that LED technology can be used as a suitable replacement for the existing technology. However there are some outstanding issues, particularly with light distribution that need to be addressed. As such this trial will continue until Ausgrid are confident that this technology is ready to be rolled out across our network.

Once we have this confidence the next step will be to seek council approval to change our standard category P lighting to LED. If council agrees we will issue an expression of interest to gauge the market and from this we will short list the responses and go out to a closed tender.