

## About TTEG Consultants and Road Lighting

### Unique Qualifications

**Trans Tasman Energy Group (TTEG)** are dedicated energy sector consultants with proven abilities, including numerous industry firsts, and qualifications and expertise to assist our clients.

Our clients have access to TTEG's resources which have been developed over decades of experience in the energy and road lighting sectors. Our expertise, experience (refer to projects below) and skills are unique. Our processes are specialised and designed to adapt to support our commitment to assist our clients to determine fair charges for services and a road lighting regime that delivers Best Value.

Our consultants provide genuine and proven expertise; specialising in all commercial and regulatory aspects pertaining to road lighting and energy purchasing, environmental considerations (including lighting types/technologies and Greenhouse determinations), asset management and policies, smart city considerations and peace of mind.

Further information is available on our website [www.tteg.com.au](http://www.tteg.com.au) or please contact us to discuss any aspects.

**TTEG Road Lighting Projects** - We have undertaken numerous road lighting projects, including:

#### TTEG INDUSTRY FIRSTS

- **1st** to enable Councils to retain ownership of new LED lights when replacing distributor owned lights.
- **1st** to obtain refunds from distributors for distributor overcharges in Victoria (lights) and SA (traffic signals).
- **1st** to negotiate a decrease in Distributor and road lighting charges (OMR / SLUOS) across the sector (25% decrease).
- **1st** to negotiate a reduction in distributor's Asset Base. Decrease in Gross value > \$32 million.
- **1st** contestable electricity tenders for unmetered streetlighting and traffic signals.
- **1st** non distributor to include a luminaire on the AEMO Type 7 metrology Load Table.

#### SAVINGS ACHIEVED

- **\$3 million pa** SLUOS/OMR decrease (SA, 2016)
- **\$32+ million** Asset Base GV reduction (SA, 2016)
- Triggered ESC 2004 Review of Public lighting charges in Victoria achieving sector savings of:
  - ❖ **\$14 million pa** versus ESC's initial paper charges
  - ❖ **\$2+ million** pa savings versus the Distributor's proposed 2003 OMR charges!
  - ❖ **\$1+ million pa** (8%) versus the ESC's Draft decision.
- **Approx \$1.3 million refund** for traffic signals for SA government and councils.
- **Approx \$880,000 refund** to our clients for public lighting services overcharged by a Distributor.
- **Approx \$1.1 million pa saving** from January 2010 from lower public lighting asset charges in Sth Australia.
- **Savings for VicRoads'** Westgate bridge (metered).
- **Savings recouped** from the retailer as payment of traffic signals (SA) had not reflected LED lights.
- **Multimillion \$ energy contract saving** in NSW, VIC & SA

#### ELECTRICITY CONTRACTS

- Victorian Councils since 2001.
- SA Councils - 10 years.

- NSW Councils since 2009.
- South Australian Government Tender Documentation. Establish market based contracts for road lighting services & electricity for VicRoads.
- Council's combined road light & other energy needs.

#### NEGOTIATION

- First negotiations under the NER's for all SA councils and SA government for Street Lighting.
- First negotiation for council ownership and maintenance contract (Tasmania).

#### ECONOMIC ASSESSMENTS

- Own and maintain versus gifting lights (Tasmanian Councils).
- Metered vs unmetered street lighting, Transport SA.
- VicRoads public lighting and traffic signals.
- Traffic signal and Public lighting preliminary cost assessment for Transport SA.
- Main road light replacement, Central Victorian Councils.
- WSROC (NSW) inventory, costs, consumption and GHG emissions for CEEP funding.
- Annual budget estimates for Victorian Councils.

#### TRAFFIC SIGNALS

- LED traffic signal economics and savings for VicRoads and Transport SA.
- Assist to establish market prices for electricity for VicRoads and Transport SA.

#### COMMERCIAL & REGULATORY EXPERTISE

- Establish / Implement (pending) fair & reasonable road light charges. Vic Roads and Transport SA, major Victorian and South Australian Councils.
- Represent the interests of 30+ council members of the Victorian Street lighting group since 2001.
- Road lighting Issue Paper response to ESCOSA for the SA Local Government Association.
- Establish a Time of Use system and tender for energy at Transit NZ (VicRoads equivalent).
- Establish solar road lighting project commercials

## REGULATORY & OTHER SUBMISSIONS

- Public Lighting charges to ESCOSA for the SA government.
- Western Sydney Councils (WSROC) to NSW government re: NSW Public Lighting Code.
- "AER - NSW Distributor 2011-14 Framework", 2009 Submissions to AER on distributor proposals.
- Submissions to NSW 2011 Public Lighting Code Review, Appeal 2011/15 AER (Vic) Distribution Determination NSW Public Lighting preliminary classification to AER NSW 2014-19 Framework and Approach Submission.
- Federal Department of Climate Change and Energy Efficiency - Barriers to Energy Efficient Street Lighting and Draft Street Lighting Strategy, 2011.
- Victorian Green Light program, 2011.
- Victorian 2016-21 Framework and approach submission.

## DESIGN

- LED lighting in internal and external projects for numerous councils nationally.
- Advice to private building owners in Adelaide City.
- Policies and Procedures including: Major lighting design and Lighting policy, Night Time lighting Masterplan and the Urban Design Catalogue.
- Major Lighting revisions & standardization projects for ACC street and pedestrian lighting with contemporary style luminaires and poles plus specialist floodlighting (sporting areas) with little or no spill lighting.
- Specialist design for revolutionary energy management processes for a section of North Terrace and Park 19 (SA).

## INVENTORY & AUDIT

- Physical inventory audit and reconciliation of council's public lighting assets and charges.
- Reconciliation of Public Lighting Assets - VicUrban.
- Public Lighting Asset management policy for councils.

## GREENHOUSE / ENERGY EFFICIENT LIGHTS

- First "non-distributor" to introduce a new (low energy) lamp on Load Table for T7 unmetered public lighting.
- Establish VicRoads' lighting greenhouse footprint.
- Sustainable Public Lighting Bulletins and Seminar series for Sustainable Energy Authority, Victoria.
- 42W CFL lights economics and regulatory process for Wodonga and Mornington, Vic.
- Low energy lights - retrofitting economics and Business cases, various councils.
- Conduct energy efficient public lighting trials.
- Trials, tendering, commercial and technical assessment & implementation - Adelaide City council LED project.

- Specialist lighting projects to match urban environments eg: streets & parklands.
- First negotiation process with a distributor under the National Electricity Rules to establish public lighting charges to reflect light type.
- Business cases prepared for replacement MW80W with low energy lights prepared for various councils.
- WSROC (NSW) business case for replacement lights including inventory, costs, consumption and GHG emissions for CEEP grant funding.

## TTEG EXPERTS include CRAIG MARSCHALL

- **TTEG Managing Director.**
- Consultant since 2000 - Streetlight Group 31 Vic councils.
- LGA (SA) & DPTI (SA) public lighting consultant since 2001.
- AHA National Energy Efficiency panel, member.
- Energy Advisory positions, both local and international.
- Member of Energy Users Assoc, and Australian Institute of Energy.
- B Tech Civ Eng - SA Institute of Technology.

## NUWANTHI SENEVIRATNE

- **TTEG General Manager.**
- Highly credentialed in project management and business development.
- Led technical & marketing teams to continued success including national recognition for excellence and innovation in the retail and service industry.
- Leads innovation and continued development of TTEG's teams, processes and systems.
- Bachelor of Business (Hons). MBA, Monash University

## PHIL KEANE

- Highly credentialed electrical engineer and specialist lighting consultant with vast council and private sector experience.
- Illuminating Engineering Society (IES) Australia. National Board / Council, State President 15+ years and Life Fellow since 2001.
- Over 60 SA & National Lighting Awards of Excellence, from IES and other Associations.
- IES representative of Australian Standards LG/01 Interior Lighting Committee from 1975.

## TTEG ACCREDITATION

- Local Government Procurement - Professional Consulting Services (LGPT12.08-2)

## OTHER

- "Lessons Learned" report on the AER Public Lighting Appeal for the AEMO Advocacy Panel.
- Construction Project Management undergrounding projects.

**TRANS  
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ENERGY  
GROUP**

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