



# **ENERGY FROM WASTE:** OPPORTUNITIES FOR QUEENSLAND

**Thu 21 Nov 2019**  
**Hilton Brisbane**  
Queens Ballroom  
190 Elizabeth Street, Brisbane

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# ENERGY FROM WASTE: OPPORTUNITIES FOR QUEENSLAND

The Queensland State Government's commitment to a waste strategy that includes an Energy from Waste Policy, along with recently introduced waste levy is expected to accelerate a number of opportunities in the state. Opportunities that include the development of Refuse derived fuels and the recovery of energy from wastes that cannot be reused or recycled and require technology to divert said waste from landfill.

WRIQ and AIEN are jointly hosting this one-day seminar to provide industry stakeholders with the latest government, technical, finance and business information as it relates to developing energy from waste projects.

## THANK YOU TO OUR SPONSOR

The logo for Ramboll, featuring the word "RAMBOLL" in white capital letters on a blue rectangular background with a white lightning bolt graphic above the letter 'O'.

Ramboll is a leading engineering, design and consultancy company employing 15,000 experts. Our presence is global with especially strong representation in the Nordics, UK, North America, Continental Europe, Middle East and Asia Pacific. We constantly strive to achieve inspiring and exacting solutions that make a genuine difference to our clients, end-users and society at large. environmental regulations.

## FURTHER INFORMATION

If you have any questions about the event please contact Veronica Dullens on 0400 449 100 or email [info@aien.com.au](mailto:info@aien.com.au).

## HOST ORGANISATIONS



The Waste, Recycling Industry Association of Queensland Inc, (WRIQ) is the premier industry association in Queensland, representing more than 90 Queensland-based organisations ranging from large multi-national organisations through to small family-operated enterprises. WRIQ engages with its stakeholders and advocates and informs on a wide range of legislative and regulatory issues impacting the industry.



The Australian Industrial Ecology Network (AIEN) is a vibrant network of like-minded individuals, companies and institutions with a common interest in sustainable development through the study and practice of industrial ecology.

The AIEN hosts the annual Australian Waste to Energy Forum - Australia's leading event focused on the development of a domestic waste to energy industry.

# PRELIMINARY PROGRAM\*

0800	Registration, tea and coffee
0900	Welcome and housekeeping
0915	QLD Policy and Strategy Update <b>Dept of Environment &amp; Science</b>
0945	<b>Five pillars for successful implementation of energy from waste projects</b> <b>Mike Haywood, Director - Australian Industrial Ecology Network</b> <p>This presentation will discuss the five pillars to consider when developing an EfW project. Failure to ensure that appropriately developed and defined strategies are established for each of these 5 pillars, during and for, each sequential stage of the project development process could be catastrophic for any project – as you run the risk of effects from the commonplace phenomenon often described by the proverbial “Fire-Ready-Aim”.</p>
1015	Questions and discussion
1030	Morning tea break
1100	<b>Waste to Energy: A technology overview</b> <b>Barry Sullivan, Ultimate New Energy</b> <p>There are a number of waste to energy technologies this presentation is an overview of the available technologies and discusses the feedstocks that they are best suited for, the minimum size that is required and what kind of energy can they create. The presentation will also touch on the diversion from landfill that each of the technologies can achieve.</p>
1120	<b>Swanbank EfW Proposal Update</b> <b>Bret Collins, REMONDIS Australia</b> <p>Following the announcement of the proposed REMONDIS’ Energy from Waste facility at Swanbank this presentation will provide an update of the current status of the project and possible future steps</p>
1140	<b>Waste to Energy - The Sustainability Facts</b> <b>Niels Jakobsen, Ramboll</b> <p>Ramboll has conducted +150 Waste to Energy (WtE) projects globally. To support the growth of the emerging Australian WtE sector, Ramboll has undertaken several studies to understand and communicate the sustainability benefits of WtE as an industry comparing with traditional waste to landfill disposal and fossil fuel energy generation.</p>
1200	Questions and discussion

1230	Lunch
1330	<b>Queensland Biofutures</b> <b>Michael Burke, Dept. of State Development</b> <p>The Queensland Government is committed to growing our biofutures industry and maximising the opportunity it offers to diversify and strengthen the Queensland Economy. The Queensland Biofutures 10-Year Roadmap and Action Plan outlines the Queensland Government’s ambitious vision for the sector and \$25 million in funding over 4 years.</p>
1350	<b>Enabling Project Finance for New Technologies through Performance Insurance (Video Link)</b> <b>Dr Brentan Alexander, New Energy Risk</b> <p>Accessing low cost-of-capital debt markets is challenging for new technologies or processes with perceived technology risk in a new geography. Technology performance insurance can be used to mitigate the technology risk for debt lenders, acting as a powerful lever for project finance for early stage waste to energy projects. This insurance has a proven track record of lowering cost of capital for such projects and is now being used routinely to enable financing for waste to energy plants.</p>
1410	<b>Project Finance Considerations</b> <b>Gary Sofaelli, National Australia Bank</b> <p>This presentation will outline the role of banks in financing of waste to energy market, the key bankability criteria and finance structures typically used for waste to energy projects.</p>
1430	Questions and discussion
1445	Afternoon tea break
1500	<b>Kwinana, the first energy from waste plant in Australia</b> <b>Benoit Englebert, Keppel Seghers</b>
1520	<b>Waste Characterisation - Enabling informed decision making</b> <b>Nick Miller, HRL Technologies</b> <p>Understanding your waste streams is important for many reasoning including supporting technology selection and meeting EPA requirements. Sampling and Analysis methodology and technique selection is critical to ensuring the characterisation of your waste streams are conducted accurately. This presentation should act as a guide to ensuring the right processes are followed in characterising your waste streams</p>
1540	<b>Growing Green Energy - Biomass to transport fuels</b> <b>Charles Hunting, Tsing Capital</b> <p>As advancements in thermal Waste to Energy technologies continue the definition of energy changes from electricity to various offtakes. AgBioEn use world class technology to deliver clean, low emission renewable energy and liquid fuels from biomass. AgBioEn will present an overview of their work analysing technologies, feed stocks and the logistics of creating a viable Bio-fuels industry in Australia.</p>
1540	Questions and discussion
1555	<b>Closing remarks</b> <b>Rick Ralph, WRIO</b>
1600	Close

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## REGISTRATION FEES

WRIO/AIEN Members \$250 + GST,

Non Members \$330 + GST

*\*Program is subject to change*