**Waste 2017 Abstract Submission**

**Waste-to-Energy: How to Make it a Success Story**

*My presentation is relevant to the following topic area(s).*

🗹 Circular economy 🗹 Overseas experiences

🞎 Collection (inc MUD’s, transient population areas) 🞎 Problem/Hazardous waste (inc asbestos, clinical &

🞎 Container Deposit Schemes medical, ocean plastics, paint, tyres etc)

🞎 Economics (inc business cases, data gathering, 🞎 Product Stewardship

monitoring performance) 🞎 Regional issues

🞎 Education (inc community engagement) 🞎 Recycling (inc CRC’s, collection)

🞎 E-Waste 🞎 Regulations and levies

🞎 Grants (outcomes and processes) 🞎 Social enterprise

🗹 Infrastructure (inc major waste grants, EfW, organics) 🞎 State based issues (eg. Fit for the Future NSW)

🗹Innovative projects (case studies preferred) 🗹 Technology

🞎 Landfill (inc operations, regulations) 🞎 Tenders and contracts

🞎 Litter and/or illegal dumping (inc litter initiatives) 🞎 Other 🞎 Organics (inc collection, processing)

**Presenter information**

**Presenter name:** Mr Detlev Huber

**Presenter position:** Senior Project Manager

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**Biography**

Detlev Huber is a Senior Project Manager of Martin GmbH für Umwelt- und Energietechnik and he has worked on the execution of Waste to Energy Projects since 2007. He has been involved in international Waste to Energy Projects in Sweden, Switzerland and Poland of which he has been responsible for the technical and commercial project execution from contract inception to final takeover by customer.

Upon completing his studies in 1998 in Mechanical Engineering, majoring in process and environmental engineering at the University of Applied Sciences in Munich, he worked with AVU Ingenieurbüro and then Lipex Anlagentechnik und Handel GmbH in the area of Power Plant Engineering and Fibre Glass Production Technology. He has been working for Martin GmbH für Umwelt- und Energietechnik since 2007.

Detlev moved to Australia in 2016 in order to support the project development of the Joint Venture Partnership between Martin GmbH and Martin biopower and for clarification of technical and commercial questions. He is currently the acting Director for Martin WtE Australia Pty Ltd.

**Abstract**

Keeping the waste hierarchy is not a choice to make, but mandatory in order to sustain the need of a fast-growing population and the limited resources our planet has to offer. But even with multiple cycles of re-using and recycling materials, eventually all will reach the end of their useful life, some sooner, some later.

But even then, this waste can serve a useful purpose. Waste-to-Energy is the only safe, reliable and well proven technology to recover the energy contained in this waste and make it available to energy consumers. The residues after combustion contain metals that can be recovered and minerals that can also be used, e.g. as road base. Potentially harmful substances are concentrated and can be safely removed from the eco-cycle. Emissions are well below all regulatory limits.

Waste-to-Energy technology will be briefly described. The main focus will be on examples from Europe showing the long and proven track record of this technology. With emissions being very well below permit limits. Showing the potential for energy and material (metals, aggregates), all that fitting very well into the concept of a circular economy, Waste-to-Energy having its role in the waste hierarchy. How this can be adapted to Australian conditions will be touched upon as well as some cornerstones for successful project development highlighted.