



Ricardo
Energy & Environment

**Waste to Energy: transforming
strategy into reality**

Asia Clean Energy Forum 2016

Prof Adam Read

Practice Director

7th June 2016, Manila, Philippines

swagata
vítáme tě
καλώς ορίσατε
tervetuloa
fogadtatás
shalom
bienvenuto
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mabouhay
환영합니다
ahlan'wa sahla
powitanie
aloha
bienvenue
歓迎

A personal welcome - Dr Adam Read (lead facilitator)

- Practice Director @ Ricardo-Energy & Environment
 - *60 staff (UK based)*
- World-renowned expert
 - *waste & recycling service design, regional waste management strategies, waste technology selection & stakeholder engagement*
- 21 years of sector experience (UK & international)
 - *Middle East, Russia, Hungary, Poland, Costa Rica, Egypt, Australia, Thailand & the USA*
- Former Municipal Waste Officer
- Fellow of the CIWM
- Member of ISWA Communications WG



Welcome to the Ricardo team

- Phil White – Waste Technologies Lead
 - *20 years' experience (waste regulation and consultancy)*
 - *WtE technology fore-sighting for municipalities*
 - *MBT performance expert advice / RDF quality and export*
 - *AD feasibility and investor due diligence*
- Tim Fill – Power Sector Lead
 - *Civil engineer with 19 years' experience*
 - *Worked on >30 WtE projects in Australia, Canada, Poland, the Middle East, South Africa and the UK for municipalities and private developers*
 - *Due diligence of infrastructure and the power purchase agreements for operational incineration, MBT & landfill gas utilisation portfolios*
- Mark Broomfield – Health Impacts Technical Lead
 - *24 years' experience as an air quality, odour & health impacts specialist*
 - *Strategic research on waste to energy and landfill solutions*
 - *Expert witness WtE related on air quality, health and odour control*



- Internationally-renowned scientific / technical consultancy
 - *Over 450 scientists and technical staff based in Oxford, UK*
- Advisor to UK Committee on Climate Change
- Lead Consultant to EU on transport sector emissions & modelling
- Advisors to international governments on renewable energy policies & projects
- Deliver the UK's largest resource efficiency business support programme
- Transaction advisory support to governments and private sector in the establishment of new energy, waste and power projects
- Presented at ADB / ADFIAP workshop on the role of NDFIs to improve readiness for climate finance

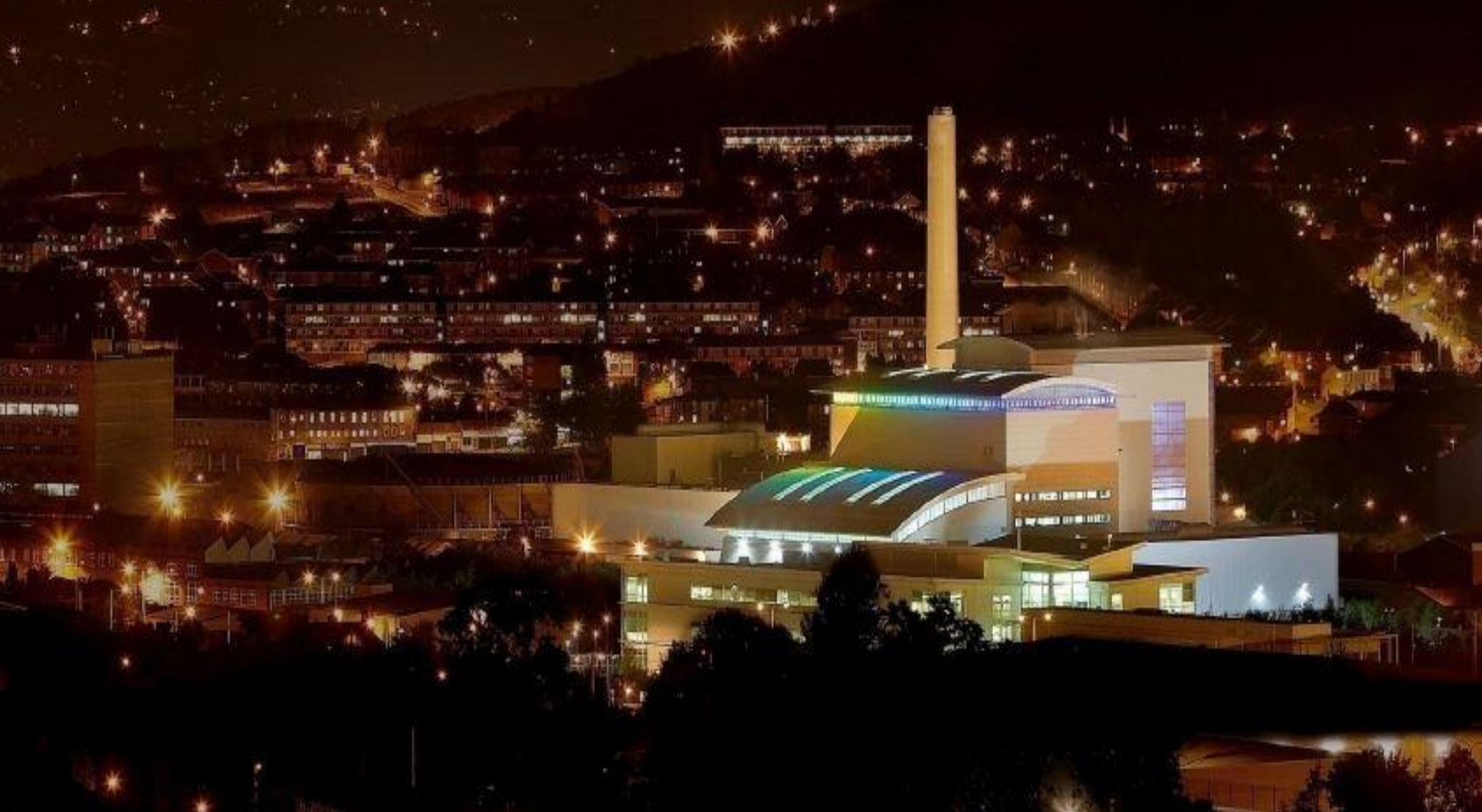


Our Waste to Energy track record

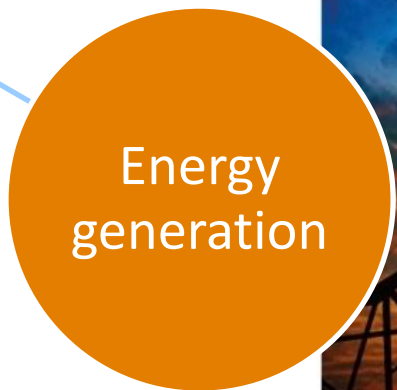
- South Australia / Cairo / Riyadh
 - *Waste management strategy & technology evidence base*
- Private Waste Companies & Investors
 - *Technology appraisals & due diligence*
 - *Investor option assessments & feedstock studies*
- Environmental Technology Institute
 - *Global waste to energy technology horizon scan*
- International Energy Agency
 - *Task lead ‘integrating EfW into solid waste management’*
- Environmental Services Association
 - *Potential health & environmental effects of EfW facilities*
- UK Government
 - *Heat mapping opportunities to operate as EfW CHP*
 - *Principal auditor of Renewable Heat Incentive (RHI)*



So what is the strategic importance of waste to energy?



Waste to Energy offers a triple win



Today's workshop format

- We want this to be informal & flexible to suit your needs
 - *BUT we do have a very busy agenda so good time keeping will be key*
- We are using a mix of presentations
 - *Opening remarks to set the scene*
 - *Regional case studies & Panellist debates*
- This workshop requires your interaction
 - *Questions will be asked during the session*
 - *You will be invited to vote on these questions*
 - *After the workshop we will share all of the slides & feedback from the 'live voting'*



Workshop agenda

Time	Session
09.00 – 09.30	Welcome & Opening Remarks
09:30 – 10:10	Session A: The Asian waste management agenda
10:10 – 14.20	Session B: WtE technology ‘landfill gas’
Coffee @ 10.40 – 11.00	
11.00 – 12.30	Session B: WtE technology ‘biological & fuel preparation’
Lunch @ 12.30 – 13.30	
13:30 – 14:20	Session B: WtE technology ‘thermal’
14.20 – 15.40	Session C: Drivers for & barriers to the development of WtE
Coffee @ 15.40 – 16.00	
16.00 – 17.20	Session D: Thinking strategically & aligning agendas
17.20 – 17.45	Session E: Summing up & the way forward



Workshop etiquette

Phones on silent
Please let others speak
Get involved in the debates

