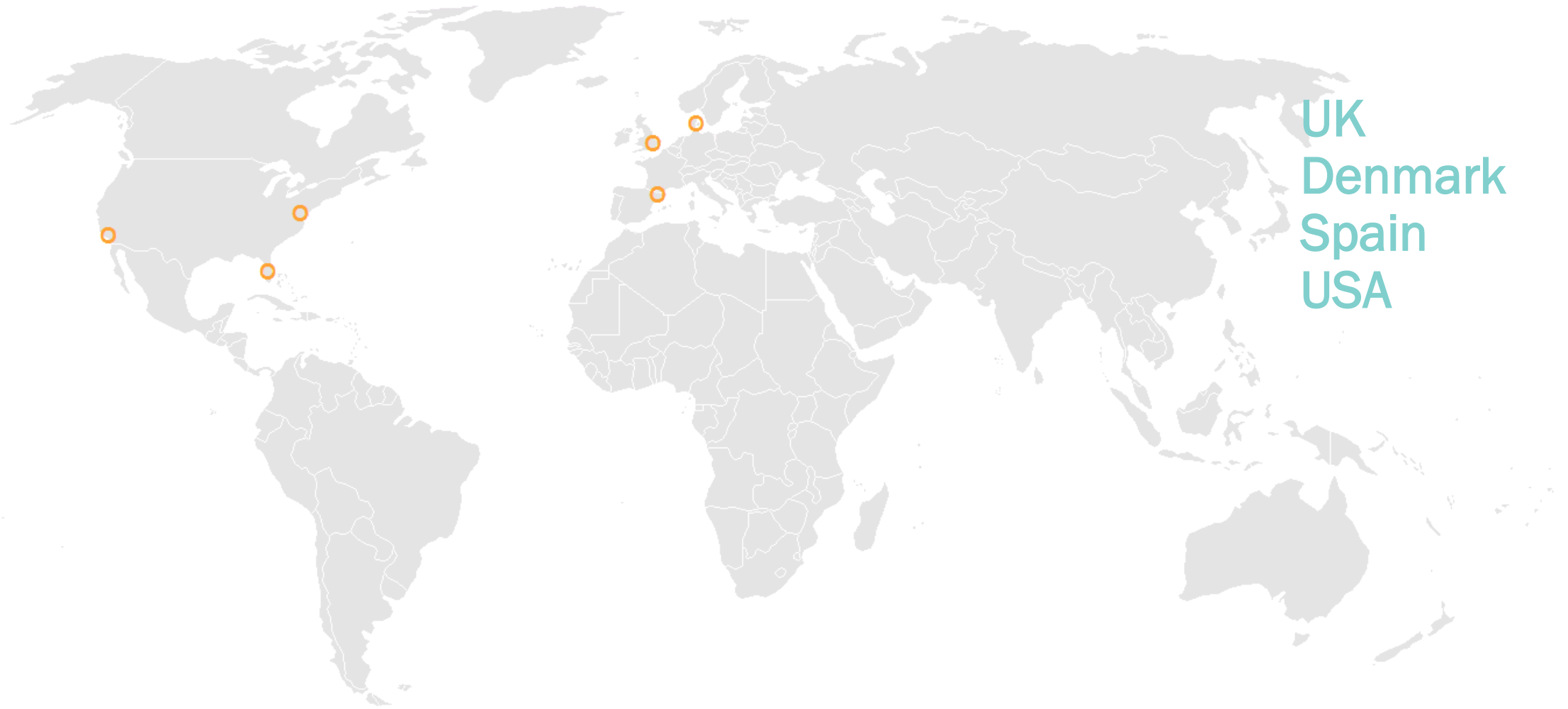




International Zero Waste Study Tour 2018

Locations

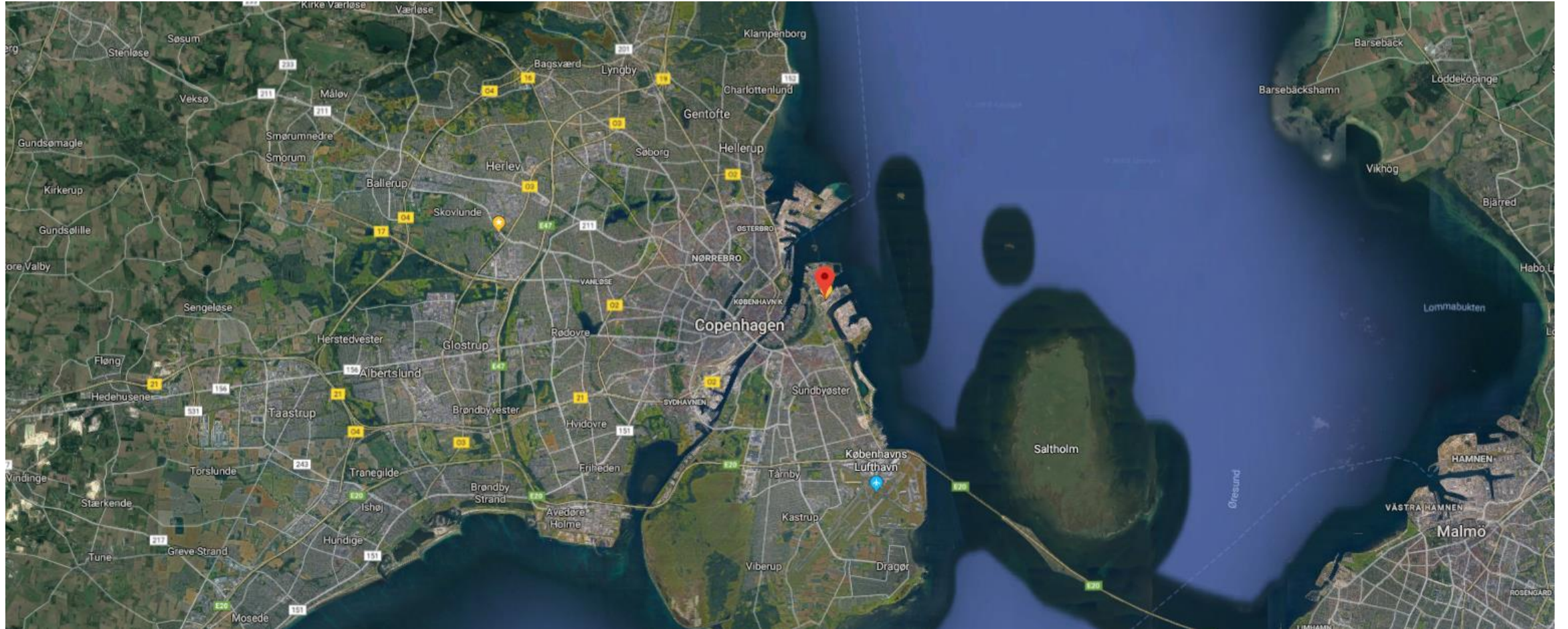


2018 Study Tour Dates

- Friday 24th – Sunday 26th August - Leave Brisbane – arrive Denmark – rest days
- **Monday 24th – Friday 31st August** - **Denmark, Spain, UK**
- Saturday 1st & 2nd September - Leave UK – arrive USA – rest day
- **Monday 3rd – Thursday 6th September** - **USA**
- Saturday 8th September - Arrive Brisbane

Sample of Sites

Copenhagen – Amager Bakke EfW Facility



Amager Bakke EfW



Changing public perceptions

Amager Bakke EfW



Iconic

Amager Bakke EfW



Integrated community facility

Amager Bakke EfW

- Constructed 2017
- Grate style combustor
- Processing capacity – 400,000t
- Energy Generation capacity – 63MW
- High efficiency
 - 100% utilisation of feedstock energy
- Low emissions
 - 107,000t less CO2 than coal fired plant
- High level of emissions transparency
- Australian Energy Council review cited the facility as a test case for public acceptance



London – Riverside Resource Recovery Facility

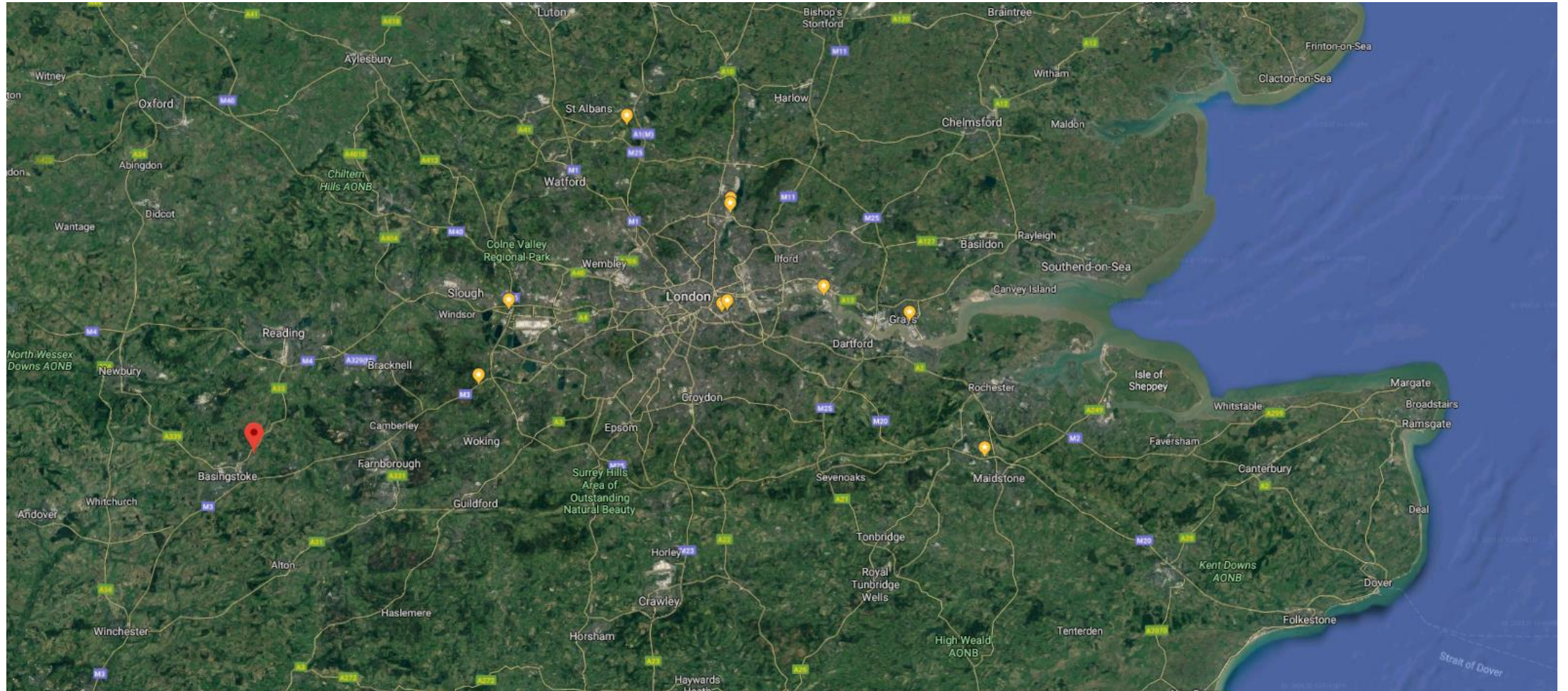


Riverside Resource Recovery

- Constructed 2011
- River tug haul route
- Grate style combustor
- Processing capacity – 585,000t
- Energy generation capacity – 50MW
- Replacing an existing landfill site
- By-products from combustion and emission control utilised



London – Chineham EfW Facility

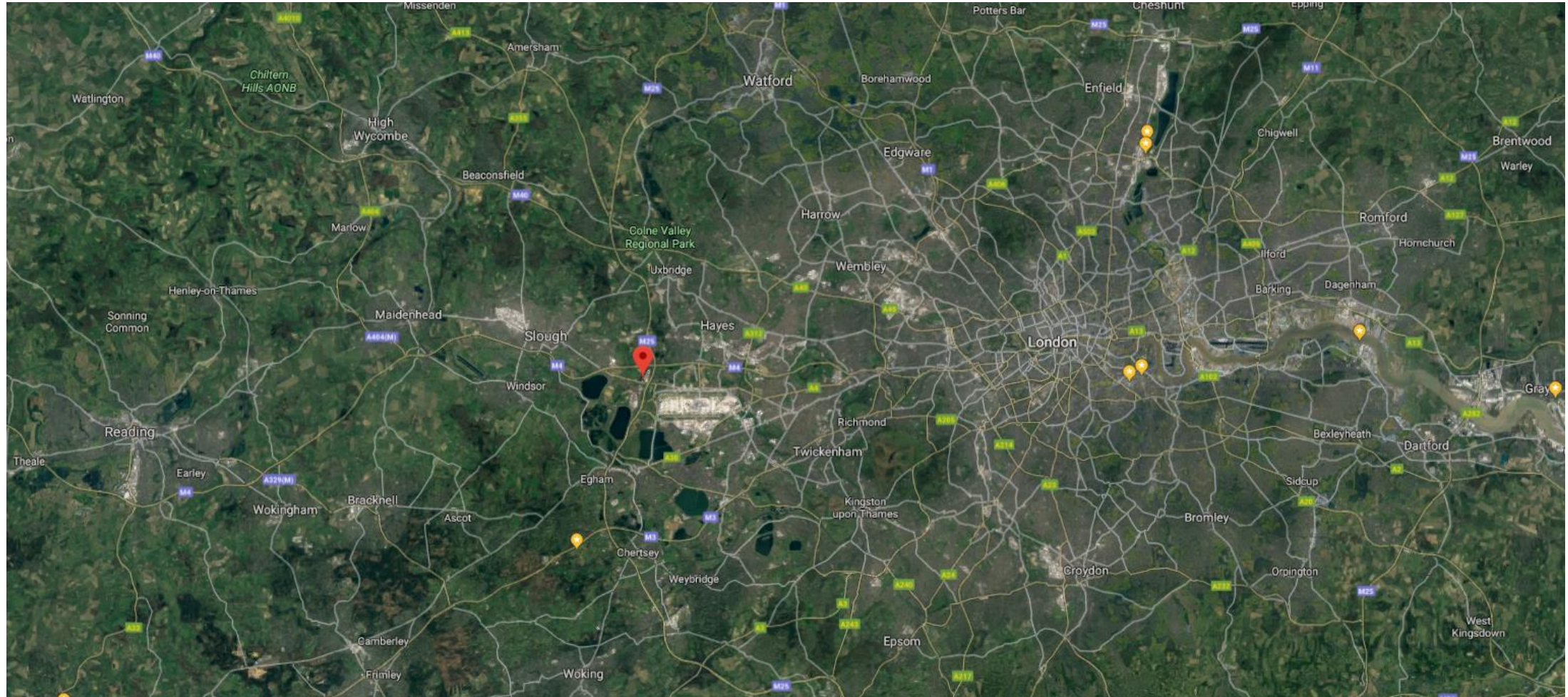


Chineham EfW

- Grate style combustor
- Processing capacity – 90,000t
- Energy Generation capacity – 8MW
- High level of community consultation and response to community concern.



London – Lakeside EfW Facility

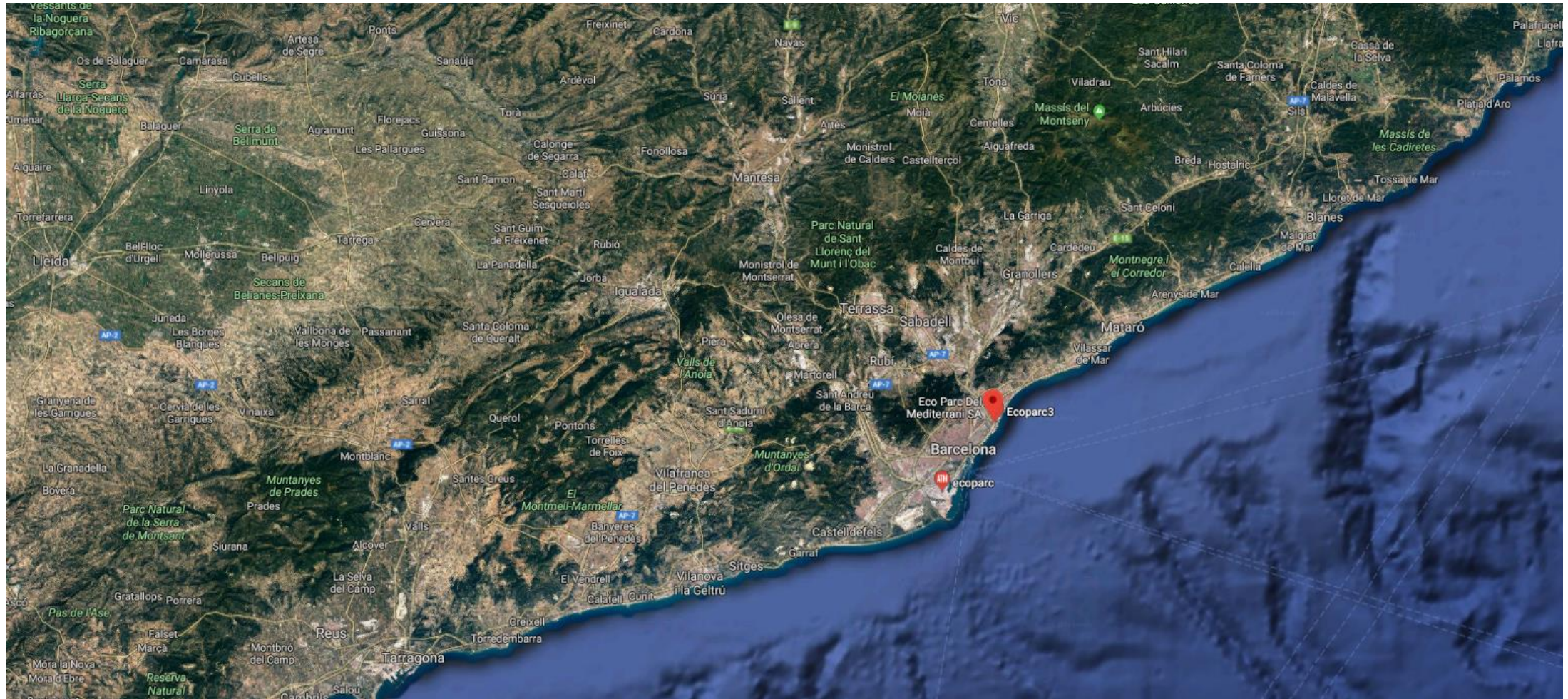


Lakeside EfW Facility

- Constructed 2010
- Grate style combustor
- Processing capacity – 450,000t
- Energy generation capacity – 37MW
- Located close to major sources of waste
- High aesthetic appeal



Barcelona – Barcelona Eco Park

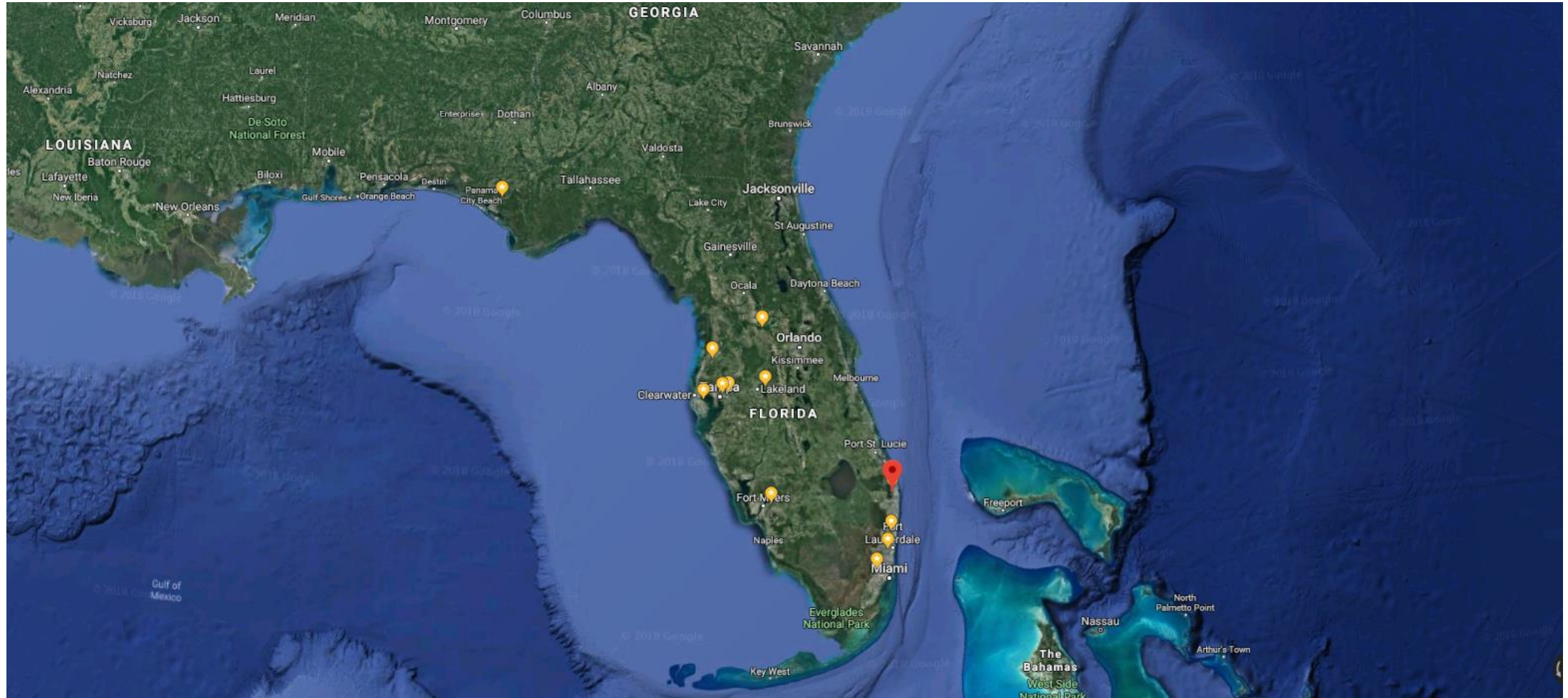


Barcelona Eco Park

- Grate style combustor
- Processing capacity – 360,000t
- Co-location of combustion facility and AD



Miami – Palm Beach Renewable Energy Facility



Palm Beach Renewable Energy Facility

- Constructed 2015
 - Grate style combustor
 - Processing capacity – 1,000,000t
 - Energy generation capacity – 70MW
- Award winning
 - SWANA - 2017 Gold Award of Excellence
 - Power magazine – 2017 Top Plant Award
 - WTERT – 2016 Waste to Energy Global Award
 - Several Engineering and Environmental Awards - 2016



Study Tour Topics and Speakers

Overviews from each Country (TBC):

- Zero Waste Policy & Market Overview & Comparison to Australia
- Technology Overview

Topics to be covered throughout tour (TBC):

- Zero waste - Success principles
- Zero waste - Procurement and contract strategies
- Zero waste - Partnerships and share agreement examples
- Zero waste - Best practice facilities
- Zero waste - High efficiency facilities
- Low emission facilities
- Zero waste - Feedstock & upstream processing requirements
- Lessons learned
- Managing public expectations & concerns
- Zero waste innovations and Alternate Technologies
- Zero waste – Strengths and weaknesses of countries globally

Regulators, Consultants, Operators & Local Municipalities (TBC):

- State, National & EU Regulators
- Local Municipalities
- Environmental Services Assoc (ESA)
- Chartered Institute of Waste Management (CIWM)
- SLR
- Arup
- John Enright - EDF Energy
- Investec
- Laing Investments
- Foresight
- London Waste & Recycling Board (LWARB)
- SUEZ
- Wti
- Covanta
- Wheelabrator

Study Tour – Technologies & Sites

Types of facilities

- State of the art EfW and Zero Waste Technology:
 - Anaerobic Digesters
 - Gasification plants
 - Combustion facilities
 - Mechanical & Biological Treatment facilities
 - Materials Recovery Facilities
 - Recycling facilities
 - Emerging Technologies

Sites under consideration:

- Copen Hill – Combustion EfW - Iconic, inclusive, efficient, environmental conscience.
- Advanced Plasma Power – Gasification EfW – Award winning 2017 Energy Institute Technology Award – site toured by 2018 World Waste to Energy & Resources Summit.
- Agrivert Anaerobic Digester – Award winning 2017 AD & Bio Resource Ass Best Food Waste Reduction & Collection System Award.
- Palm Beach Resource Recovery Facility – Combustion EfW - 2017 multi award winning facility – for best practice technology, design and public education.
- Riverside Resource Recovery – Combustion EfW - Zero waste to landfill, by-products used in road construction and building industry.

Sites under consideration cont.:

- Lakeside – Combustion EfW - Low environmental impact, high visual appeal, adjacent Heathrow Airport.
- Barcelona Eco Park – AD & Combustion EfW - Multi-purpose facility Anaerobic Digester and EfW facility.
- Dagenham Refood Anaerobic Digester – latest technology.
- Southwark Mechanical & Biological Treatment EfW plant.
- Edmonton MRF & EfW facility.
- Ardley EfW Facility.
- Lewisham EfW facility.
- Enfield Waste Energy Centre.
- Maidstone Integrated Waste Management Facility.
- Marchwood Southampton ERF.
- Newhaven ERF.
- Portsmouth ERF.
- Tilbury EfW.
- Covanta Long Beach.
- California Anaerobic Digester.

Study Tour Options

Options	Package	\$	Locations
A (Bus)	Entire Package - Business Class	\$24,900 *	Brisbane - Denmark - Spain - UK - USA - Brisbane
A (Econ)	Entire Package - Economy Class	\$15,600 *	Brisbane - Denmark - Spain - UK - USA - Brisbane
B (Bus)	Europe – Business Class	\$15,600 *	Brisbane - Denmark - Spain - UK - Brisbane
B (Econ)	Europe - Economy Class	\$10,100 *	Brisbane - Denmark - Spain - UK - Brisbane

** Final EfW Study Tour pricing to be confirmed on 26 June 2018.*

Delegates wishing to arrive earlier or stay longer can still book package A or B and book/pay for additional accommodation/people

All flights, accommodation, transfers, coach hire, conference room hire, seminars and most meals included.

RSVP & Deposit Deadlines

RSVP

23rd June 2018

To: sharedservices@wearepeak.com.au with 'Subject: 2018 EfW Study Tour'

Payment by

30th June 2018

High efficiency, low contamination MRF and Recycling process to end product:

<https://www.biffa.co.uk/about-us/operational-infrastructure/recycling/>

Proposed Itinerary

International Zero Waste Study Tour 2018

Application and cost of visas for Countries visited is the responsibility of delegates

This itinerary is indicative only and subject to minor changes

Friday, 24 August 2018	OPTION	ITINERARY DETAILS
<i>Brisbane to Copenhagen</i>	A&B	
10:45 AM		Meet at Qantas checkin - Brisbane International Airport
11:00 AM		Checkin & debrief
12:15 PM		Meet at Boarding Lounge
1:05 PM		Depart Brisbane

Saturday, 25 August 2018	OPTION	ITINERARY DETAILS
<i>Day 0.0 - Arrive in Copenhagen</i>	A&B	
12:55 PM		Arrive Copenhagen
		Transfer to accommodation Hotel Airport Shuttle
		Checkin 4 star hotel
		Free / rest day in Copenhagen
6:00 - 10:00 PM		Dinner

Sunday, 26 August 2018	OPTION	ITINERARY DETAILS
<i>Day 0.1 - Copenhagen rest day</i>	A&B	
		Free / rest day in Copenhagen
		Accom 4 star hotel

Monday, 27 August 2018	OPTION	ITINERARY DETAILS
<i>Day 1 - Denmark</i>	A&B	
7:00 - 8:00 AM		Breakfast in Hotel
8:30 AM - 10:30 AM		Meet with Regulators, Consultants, Operators & Local Municipalities Morning tea included
10:30 AM - 5:30 PM		Facility Inspections Lunch at facility or in transit
		Checkin 4 star hotel
7:00 PM		Welcome Dinner Networking event TBC - Regulators, Consultants, Operators & Local Municipalities

Tuesday, 28 August 2018	OPTION	ITINERARY DETAILS
<i>Day 2 - Denmark / Spain</i>	A&B	
7:00 - 8:00 AM		Breakfast in Hotel
8:00 AM		Checkout
8:30 - 10:30 AM		Facility Inspections Morning tea at facility
10:30 AM		Transfers to airport Hotel Airport Shuttle
12:00 PM		Lunch at airport
1:15 PM - 6:00 PM		Fly to Barcelona

	Transfers to accommodation	Hotel Airport Shuttle
	Checkin 4 star hotel	
7:30 PM	Dinner	Networking event TBC - Regulators, Consultants, Operators & Local Municipalities

Wednesday, 29 August 2018

Day 3 - Spain / UK A&B

7:00 - 8:00 AM Breakfast in Hotel

8:00 AM Checkout

8:30 - 10:30 AM **Meet with Regulators, Consultants, Operators & Local Municipalities**
Morning tea included

10:30 AM - 3:30 PM **Facility Inspections**
Lunch at facility or in transit

3:30 PM Transfers to airport

6:25 PM - 7:45 PM Fly to London

Transfers to accommodation	Hotel Airport Shuttle
Checkin Royal Garden Hotel - King Room	

8:30 PM	Dinner	Networking event TBC - Regulators, Consultants, Operators & Local Municipalities
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Thursday, 30 August 2018

Day 4 - UK A&B

7:00 - 8:00 AM Breakfast in Hotel

8:30 - 10:00 AM **Meet with Regulators, Consultants, Operators & Local Municipalities**
Morning tea included

10:00 AM - 5:30 PM **Facility Inspections**
Lunch at facility or in transit

Accom [Royal Garden Hotel - King Room](#)

7:30 PM	Dinner	Networking event TBC - Regulators, Consultants, Operators & Local Municipalities
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Friday, 31 August 2018

Day 5 - UK A&B

7:00 - 8:00 AM Breakfast in Hotel

8:30 - 10:00 AM **Meet with Regulators, Consultants, Operators & Local Municipalities**
Morning tea included

10:00 - 5:30 PM

Facility Inspections

Lunch at facility or in transit

Accom [Royal Garden Hotel - King Room](#)

7:30 PM

Dinner

Overview of tour to date.

End of tour for Europe leg

Checkout prior to 10am Saturday 1st September 2018

Package B Fly to Brisbane

Saturday, 1 September 2018

Day 6 - UK / USA

A

7:00 - 9:00 AM

Breakfast in Hotel

10:00 AM

Checkout

12:00 PM

Transfers to airport

Hotel Airport Shuttle

1:00 PM

Lunch at airport

2:05 PM - 6:25 PM

Fly to Miami

Transfers to accommodation

Hotel Airport Shuttle

Checkin [4 star hotel](#)

Sunday, 2 September 2018

Day 7 - Miami rest day

A

Rest day

Accom [4 star hotel](#)

Monday, 3 September 2018

Day 8 - USA - Miami / Philadelphia

A

7:00 - 8:00 AM

Breakfast in Hotel

8:00 AM

Checkout

8:30 - 10:30 AM

Meet with Regulators, Consultants, Operators & Local Municipalities

Morning tea included

10:30 AM - 1:30 PM

Facility Inspections

Lunch at facility or in transit

1:30 PM

Transfers to airport

Hotel Airport Shuttle

3:35 PM - 6:27 PM

Fly to Philadelphia

Transfers to accommodation

Hotel Airport Shuttle

Checkin [Philadelphia Marriott Airport Hotel - King Room](#)

7:30 PM

Dinner

Networking event TBC -
Regulators, Consultants, Operators
& Local Municipalities

Tuesday, 4 September 2018

Day 9 - USA - Philadelphia / LA

A

7:00 - 8:00 AM	Breakfast in Hotel	
8:00 AM	Checkout	
8:30 AM - 1:30 PM	Facility Inspections Morning tea & lunch at facility or in transit	
1:30 PM	Transfers to airport	Hotel Airport Shuttle
3:35 PM - 6:26 PM	Fly to Los Angeles	
	Transfers to accommodation	
	Checkin 4 star Hotel Los Angeles	
7:30 PM	Dinner	Networking event TBC - Regulators, Consultants, Operators & Local Municipalities

Wednesday, 5 September 2018

Day 10 - USA - LA A

7:00 - 8:00 AM	Breakfast in Hotel	
8:30 AM - 12:30 PM	Meet with Regulators, Consultants, Operators & Local Municipalities Morning tea & Lunch included	
12:30 - 5:30 PM	Facility Inspections	
	Accom 4 star Hotel Los Angeles	
7:30 PM	Dinner	Networking event TBC - Regulators, Consultants, Operators & Local Municipalities

Thursday, 6 September 2018

Day 11 - USA to Australia A

7:00 - 8:00 AM	Breakfast in Hotel	
8:30 AM - 1:00 PM	Facility Inspections Morning tea at facility or in transit	
1:00 PM	Lunch - Overview of trip	

End of tour for Package B *Late checkout*

2:00 PM	Checkout
6:00 PM	Transfers to airport
10:30 PM	Depart Los Angeles

Saturday, 8 September 2018

	A
10:00 AM	Arrive Brisbane