

WELCOME to **APSE**

BIO-METHANE

“ A WASTE OF FUEL ”

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Why Bio-Methane.

□ The Challenge for fleet managers!

National Indicators

NI 185 CO₂ reduction from Local Authority operations.

NI 186 Per capita CO₂ emissions in the LA area.

NI 188 Adapting to climate change.

NI 194 Level of air quality.

Carbon Footprint EST* - Highlight's the highest contributing vehicles @14% which in our fleet were identified as refuse vehicles.

(* EST, Environmental Savings Trust)

The Options.

- ❑ What is in the market place?
- ❑ Bio fuel, electric for HGV?
- ❑ Bio-Methane, CNG refuse in Europe.
- ❑ Local Council Vehicle Procurement Programme (LCVPP).



How does Bio-Methane fit the bill?

- Carbon negative!

bio gas without the CO₂ containing around 98% methane. Very low emissions of green house gases into the atmosphere.

The cycle seems to make good sense....

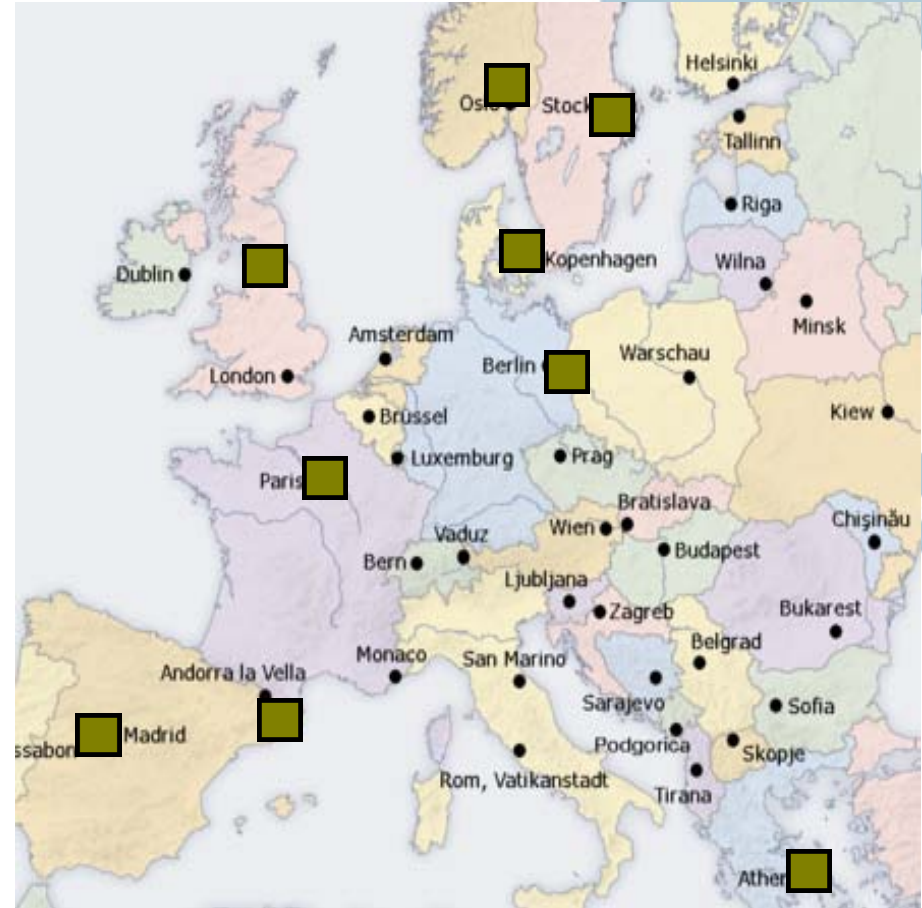
Waste into fuel used in vehicles used to collect waste!

Getting the support.

- ❑ Win the hearts and minds of the people who need to invest.
- ❑ Gain support from operators to take on the need for the changes required.
- ❑ See what other countries in Europe are doing.
- ❑ Make it viable for manufacturers to make vehicles as apposed to having existing vehicles retro fitted.

Who is using it already?

- Oslo
- Stockholm
- Copenhagen
- Berlin
- Paris
- Madrid
- Athens
- Barcelona
- Leeds
- Plus others.



What problems have we encountered?

- We know the CO₂ details.
- Tested the market.
- Looked on the framework.
- Found the vehicle!

But....

None in the UK, to have one you have to buy.

6 months trial

Vehicle ordered, arrived on time!



No what was the real problem?

□ FUEL SUPPLY!

By choosing Bio-Methane not CNG

Limited supplies

Size of the site

Supply

Costs!

Put to tender but still poor results!



The Way Forward.

- ❑ Limited trial period
- ❑ Asked for help, DfT etc.
- ❑ Grant application for fuel site.

With assistance the technology is viable and a sensible means of reducing the damage to the environment.



Thank you for listening.

Any Questions?