







Working Session 2A. Waste management and clean fleet procurement

PROCUREMENT OF INNOVATIVE

SOLUTIONS FOR ZERO EMISSION URBAN

DELIVERY OF GOODS AND SERVICES

Geir Rossebø 2019-05-14| City of Oslo

Working Session 2A Waste management and clean fleet procurement

Moderator: Geir Rossebø, City of Oslo

- James Nix, Transport & Environment
- Valentine Willmann, HyER HECTOR Project. Fuel Cells Garbage Trucks
- Sabrine Skiker, Hydrogen Europe JIVE project.
 Strategies for joint procurement of fuel cell buses



Procurements in Oslo

 City of Oslo has approx. EUR 3 billion in annual procurements and investments in total

- Decentralized procurement model
 - > Each agency is responsible for their own procurements

Regulations based on EU Directive on Public Procurement



Oslo's Procurement Strategy

Provisions

- Yehicles and construction machinery used in connection with performing work for Oslo Municipality are to have zero-emission technology as a main rule.
- Procurements that opens for the use of other technology is to be specifically justified in the contract strategy.
- For vehicles and machines where zero-emission is not an option, biofuels (preferably biogas) is to be used.



Waste collection and transport in Oslo

 Waste transport from municipal agencies is one of the prioritized categories for Oslo in the BuyZET project

- Emission figures from Oslo's CO2 mapping report (2016):
 - > Collection of household waste 13% of total emissions
 - > Collection of municipal facility waste 12% of total emissions



Household waste collection

- City of Oslo's own fleet consist of 83 waste collection vehicles.
 - > 30 diesel trucks
 - > 53 biogas trucks (CBG)

These vehicles also collect waste from the schools in Oslo, and some kindergartens.



The technology is ready

Before:



Now:



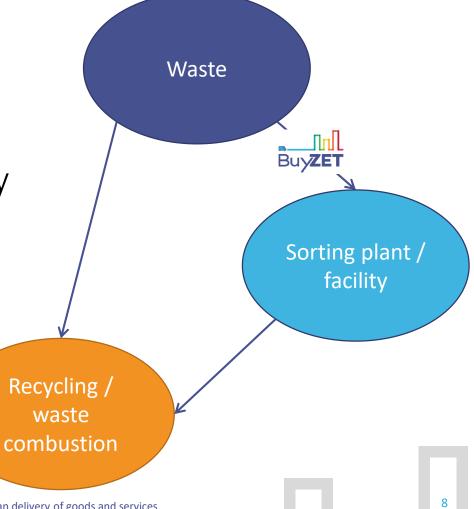


Waste transport flows in Oslo

Two different types of transport

 The potential for emission reductions are higher when waste is recycled properly

Should be careful if stipulating minimum requirements





Market dialogue

- We challenged the market on how they can help us reaching our goals
 - How can we use our tender procedures to promote ZEV?
 - You need to ask for it
 - Some tenders does not distinguish between end treatment and transport
 - Operation time is the most important technical barrier
 - > ROI is the most important financial barrier



Recommended environmental requirements

- Minimum criteria: European emission standard 6/VI
- Award criteria on environmental performance:
 - 1. battery electric/hydrogen 2. biogas 3. other biofuels
- Contract requirements: Documentation and follow-up



Next steps in Oslo

- Depends if waste from municipal agencies (facility waste) will be collected by the municipality itself in the future
 - To be decided on this year

- Energy stations
 -) Gas stations providing either hydrogen or liquefied biogas (LBG)
 -) Ongoing project



Contact us

Reach us:

Visit the project website: www.buyzet.eu

Join the discussion at the BuyZET Procurement Forum Group: https://procurement-forum.eu/

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