





COLLABORATIVE PROCUREMENT APPROACHES TO ACHIEVE INNOVATIVE CLEAN VEHICLES

NATALIE EVANS CLEAN FLEETS PROJECT OFFICER ICLEI – LOCAL GOVERNMENTS FOR SUSTAINABILITY

















































- A. Clean Fleets facilitating exchange & collaboration
- B. Other sources of good practice eco-innovation & GPP
- C. National **Swedish joint procurement**: public private collaboration to buy EVs and PHEVs
- D. New **Bus4London** diesel-hybrid double deckers ↔ Hybrid articulated buses for **Belfast Rapid Transit**
- E. . Vienna's innovative BEVs with pantograph
- F. Monetising emissions for a lease contract in **Bremen**





CLEAN FLEETS PROJECT FACILITATING COLLABORATION AND EXCHANGE ON ALTERNATIVE FUELS AND TECHNOLOGIES

- EU workshops in Bremen, London, Stockholm & Rotterdam
- Romanian, Croatian, German & Dutch National workshops
- Clean Buses: 100+ Experiences on fuels & technologies
- Helpdesk free assistance with queries + tenders
- Discussion Forum share knowledge, experiences, ideas & questions







OTHER SOURCES OF GOOD PRACTICE ECO-INNOVATION AND GREEN PUBLIC PROCUREMENT





Searchable database of over 150 case studies on technologies, policies, networks and initiatives to support eco-innovation

Almost 100 examples of Green Public Procurement (GPP) background to approaches, criteria used, results and lessons learned.

http://www.innovationseeds.eu/

http://ec.europa.eu/environment/gpp/cas e_en.htm





Joint Procurement of EVs and PHEVs in Sweden

Clean Fleets case study

- Buyers' group of 296 organisations
- Energy consumption < 0.37 kWh/km and emissions < 50g CO₂/km
- 34 tonnes CO₂ saved in first 1.5 years (95% reduction)



Backed by strategy & targets

SEA financial support

5000 vehicles over 4 years

LCC used

Private sector were included

Joint procurement =

Reduced administration costs

Accesibility for smaller municipalities

Strong signal and boost to the EV & PHEV market





The New Bus for London - Diesel/electric hybrid

Clean Fleets case study

- First bus specifically designed for London in over 50 years.
- Iconic design combined with modern hybrid technology and expectations.
- Emits less than half the CO₂ and NO_x than a current London diesel bus in service
- Largest order of hybrid buses ever placed in Europe.



Full roll out of 600 London hybrid buses by May 2016

Multimillion £ TCO savings

Hybrid articulated buses for Belfast's Rapid Transit System

Expected **30%** fuel savings

Similar technology to **New Bus for London**

Use of exchange at Clean Fleets
European workshop and Helpdesk





Innovative Electric Buses in Vienna

Clean Fleets case study

- 12 electric microbuses purchased for the city centre
- New technology: batteries charged through tram's overhead power lines at end stations
- Pre-procurement test phase with four buses



Johannes Zinner / Wiener Linien

Historic centre so needed zero emissions minus the infrastructure

Pantograph (extendable arm) used to recharge in 5-8 minutes

Backed by ambitious targets and strategy

Extensive market dialogue and testing

Vienna loaned the microbuses to Bremen to trial

Purchase price higher, operational and maintenance costs lower





Monetising emissions for a lease contract in Bremen

Clean Fleets case study

- Low emission vehicles available for all city staff
- CO₂ emissions between 96
 4 139 gCO₂/km
- CVD operational lifetime cost methodology used to monetise emissions



Stadt Bremen

CO2 emissions of best offers significantly lower than limit set

Environmental criteria had a limited impact on cost

Only diesel and CNG vehicles offered Target to reduce 40% CO₂ emissions compared to 1990

One of the very few authorities identified in Europe to have:

- used Option 3 of the CVD
- used ILO criteria in a vehicle tender





CONCLUSIONS

- Overarching policies, strategies and targets are fundamental
- Engaging with the market is essential –
 especially where innovation is concerned
- Joint procurement takes time but it can work
- Procurers step out of your comfort zone and use innovative procurement techniques
- There is a wealth of experience in Europe share it and use it!





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