

THE CLEAN FLEETS PROJECT

SIMON CLEMENT CLEAN FLEETS PROJECT CO-ORDINATOR ICLEI – LOCAL GOVERNMENTS FOR SUSTAINABILITY





Programme of the European Union

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CONTEXT – THE CLEAN VEHICLES DIRECTIVE

Directive 2009/33/EC (The Clean Vehicles Directive -CVD) obliges all public authorities and public transport operators to take into account:

- Fuel consumption
- CO2 emissions
- Harmful local emissions (NOx, PM, NMHC)





CONTEXT – THE CLEAN VEHICLES DIRECTIVE

Different options for implementation:

- Setting minimum requirements (technical specifications)
- Award criteria
- Monetising environmental impacts (following a specific methodology)





AIMS OF THE PROJECT

- To support public authorities in procuring cleaner vehicles, in line with the requirements of the CVD
- To promote the exchange of experience between authorities
- To contribute to the market introduction of alternative fuels and vehicle technologies



.....avoiding this↑





PROJECT CONSORTIUM

Mixture of advanced and learner cities, and sustainable mobility expert organisations:

- ICLEI (Co-ordinator)
- City of Rotterdam
- City of Bremen
- City of Stockholm
- Transport for London
- Zagreb Holding
- City of Sofia
- Freiburg VAG

- URTP Union of Romanian Transport Operators
- TÜV Nord
- Travel and Transport
 Limited (TTR)

ISIS





EUROPEAN WORKSHOPS

- Bremen, Dec 2013
- London, March 2014
- Stockholm, May/June 2014
- Rotterdam, Oct 2014



National workshops:

 Romania, Bulgaria, Croatia, Germany, UK, Sweden, Netherlands





GUIDANCE

 Guide on clean vehicle procurement & CVD implementation

Clean fle		; bit whicles	20.000° *********************************
	Pr	ocuring clean and efficient road vehicles	
	Cl	ean Fleets Guide	
	Glo	ssary	2
	1.	Introduction - why procure clean vehicles?	
	2.	Compliance with the Clean Vehicles Directive	
	З.	Cars and vans	
	4.	Heavy duty vehicles	15
	5.	Determining the appropriate vehicle technology	
	6.	Life cycle costing/total cost of ownership (LCC/TCO)	
	7.	Fleet management and working with service providers	
	An	nex 1: Using the "operational lifetime cost" option	
	An	nex 2 – Worked example of the OLC	

clean fleets purchasing clean public vehicles	VEHICLES - LIFE CYCLE COST (LCC) CALCULATOR Please fill in the <u>white</u> cells only - use European number formats (commas for decimals, dots for thousands										
RAL CONDITIONS											
Contract length/period of vehicle ownership	Year		10								
Discount rate	5		2								
Number of bids/offers			3								
JISITION COSTS											
Name of bidder		Prod	uct A			Product B		Product C			
Number of vehicles			10			10		10			
Purchase price	Curit	6	10.000.00	C/unit	6	10.000.00		10			
ferl Lesse price	<td></td> <td></td> <td>C/unit/year</td> <td></td> <td></td> <td>€/unit/year</td> <td>< 1.000.00</td> <td></td>			C/unit/year			€/unit/year	< 1.000.00			
COSTS OF ACQUISITION / UNIT		(10.000.00		•	10.000.00		C 8.982.59			
ATING COSTS					_						
Type of Fuel			Diesel		_	Electricity		LPG			
Fuel consumption per vehicle	1/100km		7.5	kWh/100km	-	2.5	1/100km	8.7			
Annual use of vehicle	1/1000		15,000	kinny100km		15,000	() 100km				
Fuel price	() ()		140	¢/cm		0.13	()				
Replacement battery price	Clunit	•	3,40	C/unit		3.000	¢/unit	s 1,10			
Lifetime of battery	Years			Years	•	5.000	Years				
(or) Battery lease price	€/unit/year			C/unit/year			€/unit/vear				
OPERATING COSTS / UNIT	4,4110,744	(14.010.12	4,4110,744	¢	3.129.50		13.170,53			
					_						
RTINANCE COSTS					_						
stimated annual service costs (incl. spare parts)				C/unit/year	¢	200,00	€/unit/year	€ 250,00			
(or) Annual service agreement MAINTENANCE COSTS / UNIT	€/unit/year	6	300	C/unit/year	6	1,796.52	C/unit/year	¢ 2,245,65	_		
MAINTENANCE COSTS/UNIT			2.694,78			1.796,52		C 2.245,65	_		
S AND OTHER COSTS											
Vehicle tax			150,00	€/unit/year			€/unit/year				
Insurance costs	€/unit/year	¢	350,00	€/unit/year		350,00	€/unit/year				
Infrastructure - one off investment costs	6				¢	1.000,00	¢	€ 1.500,00			
(or) Infrastructure - annual costs	C/year			C/year			C/year				
Other costs (click on expand button on the left)									_		
TOTAL OTHER COSTS / UNIT		(4.491.29		¢	4.143.90		C 5.991.29	_		
SIONS (OPERATIONAL LIFETIME COST-OLC)											
CO, Emissions	g/km		972	g/km		0	g/km	763			
Lifetime cost of CO. emissions / unit		e	4.374.36		· e			< 1.414.76			

Life cycle costing (LCC) tool (open for consultation)

www.clean-fleets.eu





CLEAN FLEETS HELPDESK

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- Free assistance from the consortium with clean vehicle procurement :
 - Tender support
 - Queries regarding implementation of the CVD





DISCUSSION FORUM



- Specialised discussion forum group dedicated to clean vehicle procurement, designed to:
 - share knowledge, experiences and ideas
 - post comments and network with other professionals

To sign up visit: <u>https://procurement-forum.eu</u> & join the Clean Fleets discussion Group

www.clean-fleets.eu



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