



The municipality Luleå Kommun

Procurement with requirements for
renewable energy

We are resource- and
energy efficient as well as
increasing the proportion
of renewable energy .

We have environmental
requirements when
purchasing products and
services.



Fuel requirements for products & services

- Different kind of requirements in different combinations
 - Qualification requirements
 - Mandatory requirements
 - Evaluation requirements
 - Special contract terms
- Dialogue is important - We need to talk about sustainability!
- Think functional



Example: Repair & Maintenance work

- A number of framework within the craftsman's team (e.g. Service technicians, painters, glass masters etc.)
- Stairs: Added value
 - X vehicles, for the client's assignment, that are operating on biogas, charging hybrids or electricity, gives a deduction on Y-kr at the tender price.
- Special contract terms:
 - In order to be credited, all value added under the environment and vehicles must be fulfilled no later than three months after the start of the contract.



Example: Pupil transport

Carbon / Energy requirements

The following requirements (the environmental car definition from 1 January 2013) apply until a new environmental car definition is developed. When a new definition has been developed, this must be followed when purchasing vehicles.

Passenger Car with maximum of 6 passengers

Passenger cars with maximum of 6 passengers used in the context of the transport mission must meet the criteria for the environmental car definition from 1 January 2013 or equivalent. The vehicles emission of carbon dioxide shall be calculated according to the formula:

Gasoline and diesel: Emissions of CO₂=95+0,0457*(service weight - 1372)

Gas and Biofuels: Emissions of CO₂=150+0,0457*(service weight - 1372)

At the request of the customer, the fuels used must be able to be reported. Vehicles that can be operated by biofuels must be run on at least 80 % of such fuel.

By biofuels is meant: liquid or gaseous fuels produced by biomass and complies with the law (2010:598) on sustainability criteria for biofuels and liquid fuels. If the vehicle can be operated on biofuels or electricity, fuel consumption should not exceed 9.2 litres of gasoline, 9,7 cubic meters of gas or consume more electrical energy than 37 kilowatt hours per 100 kilometres, when mixed driving.

Larger Passenger Cars/Minibuses with maximum of 8 passengers

Larger passenger cars/minibuses with maximum of 8 passengers used in the the context of the transport mission shall emit a maximum of 215g CO₂/km when mixed driving, if operated on gasoline or diesel.

For vehicles operated on biofuels, the emission must be maximum of 340g CO₂/km, when mixed driving.

At the request of the customer, the fuels used must be able to be reported. Vehicles that can be operated by biofuels must be run on at least 80% of such fuel.



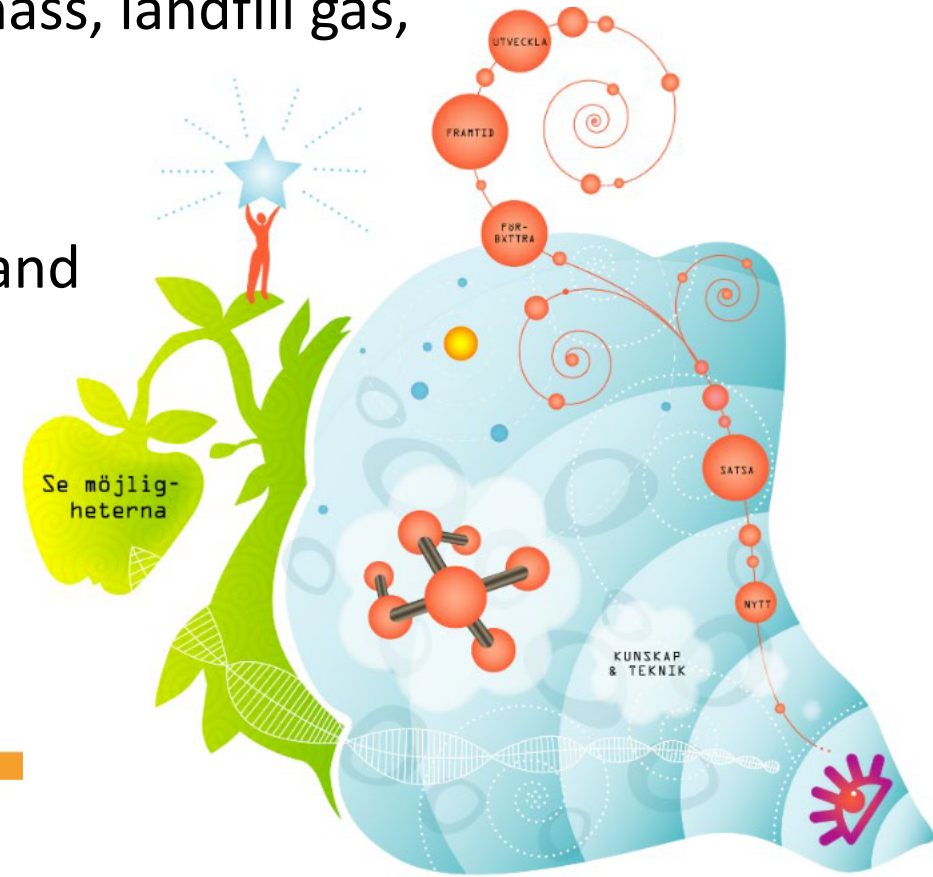
Example: Green energy

- **Mandatory requirement**

- The tender shall refer to electricity produced by using renewable energy sources as defined in *Directive 2009/28/EG, article 2 a1*, namely wind energy, solar energy, aerothermal energy (air heat), geothermal energy, hydrothermal energy (water heat), marine energy, hydropower, biomass, landfill gas, waste water treatment plants and biogas.

- **Qualification requirements**

- The tenderer must have routines to be able to secure and account for the origin of the electricity.



Example: Exhibition designer for the World heritage

- **Mandatory requirement:**

- When the municipality Luleå Kommun's guidelines advocate that trips in the service should;
 - Be replaced, as far as possible, with digital options such as Skype, Teams, telephone, video- and web conferencing.
 - Be planned and implemented in such a way as to minimize climate and environmental impact.
- The supplier should then take night train with his own sleeper compartment instead of flights and hotels, if early presence is required on site in Luleå.



Example: Earthworks

- **Mandatory requirements:**

- Fuel

- Diesel fuel that meets the requirements for environmental class 1 (MK1) or better must be used.
- Alkylate gasoline should be used for gasoline engines <20kW.

- Light vehicles (total weight under 3,5 tonnes)

- Passenger cars with higher carbon dioxide emissions than 200g/km should not be used.
- Light trucks with higher carbon dioxide emissions than 250g/km should not be used.
- Light trucks older than 8 years should not be used.

- Heavy vehicles (total weight above 3,5 tonnes)

- Heavy trucks must meet the requirements according to Euro class 4 or later Euro-requirements.
- Working machines

- Engines in work machines covered by EU regulations must meet the requirements of 'Step 3A' or later 'Step' requirements.
- The engines of the working machines that are not covered by the EU regulations may not exceed 10 years old.
- Hydraulic fluid cylinders must meet environmental requirements in accordance with Swedish Standard 15 54 34. Exceptions are made only in cases where the machine manufacturer/general agent issues a certificate stating clearly why it is not possible to use environmentally adapted hydraulic fluid for the current truck/construction machine.

- However, trucks/construction equipment delivered after 2002-01-01 should always use environmentally friendly hydraulic fluid. Fuels, oils, etc. must be stored in accordance with current regulations so that leaks from cargo tanks and cisterns do not flow into the terrain or enter the municipal management network.



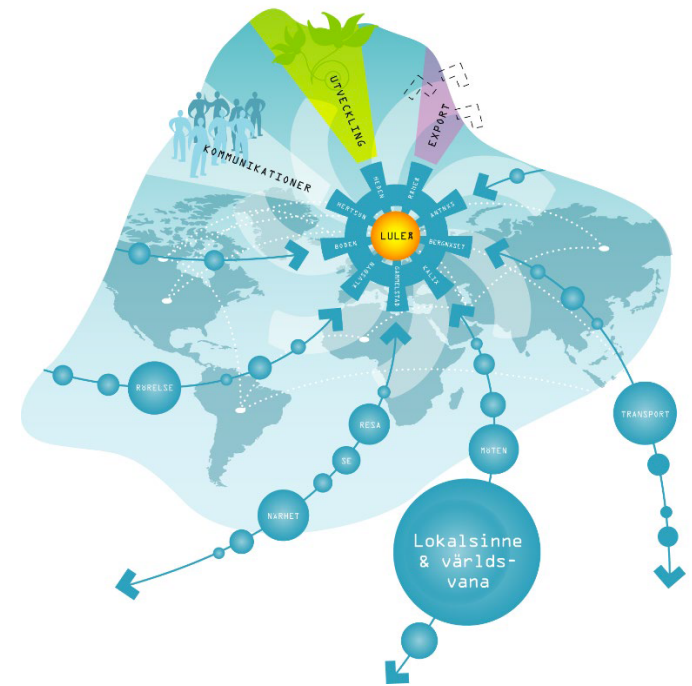
Example: Food

- For example: Dairy products and Food with transport
- Mandatory:
 - When carrying out the transport assignment, all vehicles must meet at least the requirements for Euro class 5.
- Special contract terms:
 - When purchasing vehicles that will be used in the transport assignment, must meet at least the requirements for Euro class 6 or the latest Euro class.



Follow-up

- There is no idea to have demands and requirements if we do not follow up!
- How?
 - Follow-up meetings
 - Tax Return/Self-report
 - Field inspection
 - Samplings
 - Scenario works and surveillance of trends and prices among other things.
 - Key figures



Example: Follow-up Pupil Transport

	Bensin & diesel: $CO_2=95+0,0457*(tjänstevikt-1372)$
	Gas och biodrivmedel: $CO_2=150+0,0457*(tjänstevikt-1372)$
	Större personbilar/minibussar 215 CO2 g/km
	Ålder 5 år, specialfordon 8 år
Formel-->	2020-06-16
	Bilar vid upphandlingen

	Anbud 1	Tjänstevikt	Drivmedel	Sittplatser	Utsläpp reg.	Utsläpp max	Årsmodell	Ålder ok?	Utsläpp ok?
xx taxi	ABC 123	1845	Diesel/HVO	5	140	172	2014-03-01	6,3	-32
xx taxi	ABC 123	1583	Diesel/HVO	5	99	160	2017-11-01	2,6	-61
xx taxi	ABC 123	1480	Diesel/HVO	5	104	155	2017-12-01	2,5	-51
xx taxi	ABC 123	2397	Diesel/HVO	8	181	215	2017-10-01	2,7	-34
xx taxi	ABC 123	1854	Diesel/HVO	5	117	1 523	2014-09-01	5,8	-1 406
xx taxi	ABC 123	2448	Diesel/HVO	8	232	215	2013-02-01	7,4	17
xx taxi	ABC 123	1902	Diesel/HVO	5	137	174	2015-12-01	4,5	-37
xx taxi	ABC 123	1548	Diesel/HVO	5	119	158	2015-04-01	5,2	-39
xx taxi	ABC 123	1419	Diesel/HVO	5	117	152	2012-10-01	7,7	-35
xx taxi	ABC 123	1898	Diesel/HVO	5	153	174	2016-08-01	3,9	-21
xx taxi	ABC 123	1898	Diesel/HVO	5	153	174	2016-09-01	3,8	-21
xx taxi	ABC 123	5140	Diesel/HVO	7	154	215	2015-12-01	4,5	-61
xx taxi	ABC 123	1342	Diesel/HVO	5	104	149	2015-05-01	5,1	-45
xx taxi	ABC 123	2490	Diesel/HVO	8	177	215	2015-10-01	4,7	-38
xx taxi	ABC 123	1548	Diesel/HVO	5	119	158	2016-11-01	3,6	-39
xx taxi	ABC 123	1768	Diesel/HVO	7	154	215	2015-10-01	4,7	-61
xx taxi	ABC 123	1659	Diesel/HVO	5	120	163	2016-11-01	3,6	-43

xx taxi	ODA756	1668	Diesel/HVO	5	120	164	2016-11-01	3,6	-44
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4.10 Fordon och utrustning

Personbilar av olika storlekskategorier (max 8 passagerare, exkl. förare) ska ha en högsta ålder om 5 år räknat från registreringsdatum (gäller löpande under hela kontraktperioden).

Specialfordon ska ha en högsta ålder om 8 år räknat från första registreringsdatum (gäller löpande under hela kontraktperioden).

xx taxi						87	2017-01-01	3,5	-87
xx taxi	ABC 123	2895	Diesel	8	181	215	2017-01-01	3,5	-34
xx taxi	ABC 123	2810	Diesel	8	181	215	2017-01-01	3,5	-34
xx taxi	ABC 123	2810	Diesel	8	181	215	2017-02-01	3,4	-34
xx taxi	ABC 123	2810	Diesel	8	181	215	2017-08-01	2,9	-34
xx taxi	TKS276	1872	Diesel/HVO100	4	127	175	2019-10-01	0,7	-48
xx taxi	ABC 123	1940	Diesel/HVO100	4	129	179	2018-09-01	1,8	-50
xx taxi	ABC 123	1874	(Bensin)/gas	4	121	173	2016-02-01	4,4	-52
xx taxi	ABC 123	1854	Diesel	5	117	147	2014-03-01	5,8	-1 406

tillkommen 20190605

NOTERING

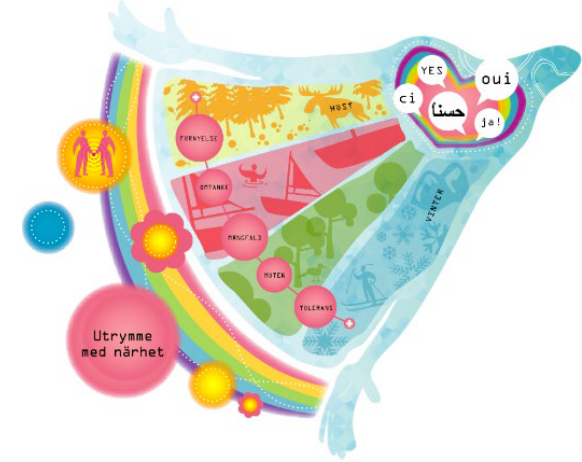
Företag	Creditsafe	Tillkom
Sirius omsorg holding AB	52	Tillkom 200203
Sirius	52	Tillkom 200203
Sirius	52	Tillkom 200203
Sirius	52	Tillkom 200203
Körs med HVO100 enligt uppgift från Bengt YB Stockholm AB	Rating saknas	Tillkom 200203
Körs med HVO100 enligt uppgift från Bengt Vikin Taxi AB	61	Tillkom 200203
Körs på gas (tankas i Boden) enl. uppgift Beng Taxameter i Stockholm AB	85	Tillkom 200203

Electric buses and charging stations



Next step

- **More and more stringent mandatory requirements**
 - Now we raise the bar!
- **Bonus-models**
 - On larger contracts
 - About greater reduction than set requirements
 - Based on how much further reduction
 - In relation to the contract sum
- **Energy in material production**
 - Environmental production declaration
- **Follow-up and Penalties**
 - Systematic follow-up
 - Awareness



Questions?



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LULEÅ KOMMUN