

## **NATIONAL QUESTIONNAIRE FOR FUELS AND VEHICLES: EECCA**

**Objectives of the Assessment:** To assess the current state of vehicle fuel quality, vehicle emission standards and other related national-level information in order to develop comparative material, which will enable decision-makers and experts to discuss problems and necessities and define possible solutions at a meeting in 2007.

The questionnaire comprises of 4 main sections:

1. Personal Information
2. Air Quality
3. Fuel Quality
4. Vehicles & Emissions

### **Please read the following instructions before filling in the questionnaire!**

4. We propose that you use **2005 or 2006** as a reporting year, and where asked, please specify the reporting year.\* If data for 2006 is not yet publicized, and the available information is for a previous year, please insert this information and note the particular year in the heading of the table. If 2006 data and updates are available, please provide this data and note the year.
5. You may not find available all required data. Please, fill in the available data:
  - a) If there are data gaps, insert N/A in the respective table cell;
  - b) If such data is not measured, monitored or reported in your country, insert N/R in the respective table cell;
  - c) Please, use the text boxes to present any useful information, which is not covered by the tables or which needs additional description.

### **1. Personal Information**

Reporting year*	2006
Country	Republic of Azerbaijan
Date report completed	28.12. 2007
Institution responsible for report	Ministry of Ecology and natural Resources
Address of institution	100 A B. Bagaev St., Baku
Position/Person responsible for report	Abdulov Imran, Deputy Head, Department for Ecology and Environmental Policies, Ministry of Ecology and natural Resources
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## 2. Air Quality

### 2.1 Institutional framework of air quality legislation

Institution name	Departments	Personnel*	Legal acts	Responsibility
Ministry of Ecology and natural Resources	Department for Environmental Monitoring		<ol style="list-style-type: none"> <li>1. The Law of Republic of Azerbaijan on Protection of Environment.</li> <li>2. Law on Protection of Atmospheric Air.</li> <li>3. Rules for State Registration of Hazardous Physical Impacts and Hazardous Emissions</li> <li>4. List of the objects, applied Maximal Allowable Emissions and Technical Norms of the Emissions</li> </ol>	Регулярное проведение мониторинга по компонентам окружающей среды, в том числе и по атмосферному воздуху.
Ministry of Ecology and natural Resources	Department for Environmental Protection		<ol style="list-style-type: none"> <li>5. Rules for Inventory of Physical Impact Sources and Hazardous Emissions to the Atmospheric Air.</li> <li>6. Rules for Carrying Out State Control in Sphere of Atmospheric Air Protection</li> <li>7. Rules for Implementation of Measures for Protection of Atmospheric Air by Legal Persons Imposing Chemical, Biological and Physical Threats on the Environment.</li> <li>8. Rules for Issuing Special Permits for Hazardous Emissions and Hazardous Physical Impacts.</li> <li>9. Hygienic and Ecological Norms of Atmospheric Air Quality, Identification of Allowable Physical Impact Levels and Rules for State Registration of Hazardous and Potentially Dangerous Substances.</li> <li>10. "The Volumes and Rules of Payment for Receiving Special Permits for Hazardous</li> </ol>	Контролирование производственных предприятий и других источников загрязняющих окружающую среду, принятие мер для предотвращения загрязнения.

			<p>Emissions and Hazardous Physical Impacts in the Atmospheric Air”.</p> <p>11. Rules for Certification of Compliance with Environmental Requirements.</p> <p>12. On Approval of the Rules of Certification Confirming Compliance of the Fuel, Technological Processes, Vehicles and other Means of Automobile Transport with Requirements for Atmospheric Air.</p> <p>13. On Identification of the Technical Emission Norms for the Stationary Sources of Hazardous Substances, as well as of Vehicles, Other Mobile Means and Devices Being the Sources of Atmospheric Air Pollution.</p>	
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### 3. Fuel Quality

#### 3.1 Contact Office(s)/Person(s)

Responsible Office(s) and Contact Person(s)	Institution	Responsibility	Contact Information	Email
	Ministry of Industry and Energy			

#### 3.2 Institutional framework for fuel quality management

Institution name	Institution type*	Responsibility	Frequency of fuel testing	Number of authorized testing labs
1	2	3	4	5
Ministry of Industry and Energy	Governmental	Introduces state policies in fuel-energy sector		



Oxygenates:									
- Methanol	%(v/v)								
- Ethanol	%(v/v)								
- Iso-propil alcohol	%(v/v)								
- Tert-butyl alcohol	%(v/v)								
- Iso-butyl alcohol	%(v/v)								
- Ethers with five or more carbon atoms per molecule	%(v/v)								
- Other oxygenates	%(v/v)								
Sulphur content	mg/kg								
Lead content	g/l								

**3.6 Are there any other additives in the fuel? If so, what are they and what quantity? - NO**

**3.7 Parameters for Market Fuels Used in Vehicles with Compression Ignition Engines (diesel) ( 2006 year)**

Parameter	Unit	Analytical and statistical results					Limiting value	
		No. of samples	Minimum	Maximum	Mean	Standard deviation	National specification	
							Minimum	Maximum
Cetane No (index)								
Density at 15°C	kg/m <sup>3</sup>							
Distillation – 95% Point	°C							
Polycyclic aromatic hydrocarbons	%(m/m)							
Sulphur content	mg/kg							

**Table 3.8 Number of samples in month (diesel) ( 2006 year)**

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	<b>Total</b>

**3.9 Fuel quality standards** (Please, shortly describe your domestic standards and any planned standards and the anticipated deadlines for their adoption, etc.)

Standards for diesel fuel-ГОСТ 305-82,  
Standards for unleaded gasoline- АЗС 059-2001.

**3.10 Fuel production, import, export and consumption (2006)**

Fuel grade	Production (1000 m <sup>3</sup> /year)	Import (1000 t/year)	Export (1000 m <sup>3</sup> /year)	Consumption** (1000 t/year)
1	Leaded gasoline is not produced in the country	<b>0</b>		
Total leaded petrol				
Total unleaded petrol	<b>1,136 mln. tons of gasoline</b>	<b>0</b>	<b>756,3 thousand tons</b>	
RON:				
RON:				

RON:				
RON:				
Total diesel	<b>2,117 mln. tons</b>	<b>0</b>	<b>1,4 mln. tons</b>	
Total LPG				
Other fuels (please specify) Compressed Natural Gas (CNG), dry				

\*If data for 2005 is not available, insert older data and indicate the year

\*\*Vehicle transport only (rail and marine transport excluded)

### 3.11 Fuel production by producers (\* insert reporting year)

<b>Refinery</b>	<b>Production of crude oil distillation (1000 m<sup>3</sup>/year)</b>

### 3.12 Fuel distribution

<b>Fuel distributors</b>	<b>Number of filling stations</b>
Azpetrol	

### 3.13 Promotion of environment friendly fuels (incentives, programs for unleaded petrol, low-sulphur petrol and diesel, biodiesel, bioethanol, LPG, etc.)

<b>Measure</b>	<b>Details</b>
Ban on leaded petrol	Since 1995, there is no leaded gasoline production in Azerbaijan
Tax differentiation	
Use of subsidies	
Other (please add):	
<b>Planned Measures</b>	During 2008-2012, it is planned to: -Ensure compliance of fuel-lubrication materials produced in Azerbaijan with Euro Standards -Ensure compliance of regulation of fuel-lubrication materials imported to Azerbaijan with Euro Standards

-Ensuring compliance of diesel fuel produced in Azerbaijan with Euro Standards
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## 4. Vehicle Emissions

### 4.1 Contact Office(s)/Person(s)

Responsible Office(s) and Contact Person(s)	Institution	Responsibility	Contact Information	Email
	Ministry of Transport	Introducing state policies in transport sector		
	State Traffic Police of the Ministry of Internal Affairs	Ensuring observance of traffic rules, carrying out technical inspection of the vehicles, controlling vehicle emissions		
	Department for Environmental Protection of Ministry of Ecology and Natural Resources	Controlling compliance with requirements of atmospheric air protection legislation, controlling vehicle emission levels		

### 4.2 National Fuel Quality Legislation (please list)

The Law on Transport, the Law on Energy
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### 4.3 Vehicle fleet structure<sup>[1]</sup>

Year: 2005	Total number of	Passenger Cars	Trucks	Buses

	<b>vehicles</b>						
Number (1000s) % of the total vehicle fleet	585,9	458,8		9,5		90,9	

**\*If data for 2005 is not available, insert older data and indicate the year**

**Table 4.4 Share with catalytic converters**

Year: (* please insert reporting year)	Vehicles with Catalytic Converters	
	Passenger cars	All vehicles
Number (000s)		
%		

**Table 4.5 Newly-registered passenger cars**

Year	Total number	Passenger cars			
		New		Second hand	
	1000s	1000s	%	1000s	%
1995					
2005	71,0	5,0	3,55	66,0	96,45

**\*If data for 2003 is not available, insert older data and indicate the year**

**Table 4.6 Vehicle aging**

Only cars registered in year 2005, in total, not in categories

Year: 2005*	0-5 years	6-10 years	>10 years
Total:			
Passenger cars (%)	90587 (88,7%)	150587 (87,02)	333843 (76,4%)
LDV (%)	585 (0,6%)	1698 (0,99%)	7987 (1,82%)
HDV (%)	7611 (7,5%)	15182 (8,7%)	76283 (17,45%)

Buses (%)	3271 (3,2%)	5562 (3,2%)	18895 (4,32%)
Total (%)			

**\*If data for 2005 is not available, insert older data and indicate the year**

**Table 4.7 Domestic vehicle production (if any)**

Type	2003	2004	2005
Passenger cars (%)			
LDV (%)			
HDV (%)			
Buses (%)			
Total (%)			

**\* 2002 is included in order to see the trend. If data is available, any previous year can be included too.**

**Table 4.8 Quantity of imported vehicles\*\***

Type	2003	2004	2006
Passenger cars (%)	22453	24150	29012
LDV+ HDV (%)	5750	6627	8733
Buses (%)	57	85	371
Total (1000s)			

**\* 2003 is included in order to see the trend. If data is available, any previous year can be included too.**

#### **4.9 Restrictions placed on imported vehicles (age limits, requirements for catalytic converters, installation of emission technology for the HDV, etc.)**

The Ordinance of President of Republic of Azerbaijan on Measures for Ensuring Compliance of Technical Norms of Vehicle Emissions in Republic of Azerbaijan with Euro Standards has been developed. These measures include:

- ban of importing vehicles older then 5 years from the developed western countries;
- ban of importing vehicles older then 5 years from the neighbouring countries.

#### **4.10 Information on retrofitting imported fleets (e.g. bus fleets) with emissions control technologies or cleaner engines**

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**4.11 Institutional framework for vehicle emission testing**

Institution name	Institution type	Personnel	Responsibility	Number of vehicles tested (vehicles/year)	Number of testing sites
1	2	3	4	5	6
State Traffic Police of the Ministry of Internal Affairs	Governmental		Ensuring observance of traffic rules, carrying out technical inspection of the vehicles, controlling vehicle emissions		
Department for Environmental Protection of Ministry of Ecology and Natural Resources			Controlling compliance with requirements of atmospheric air protection legislation, controlling vehicle emission levels	In August 2007, during the Clean Air Month, 3,783 vehicles were tested on the country's highways.	

**4.12 Legal and institutional framework of vehicle inspection and maintenance**

State Traffic Police of the Ministry of Internal Affairs Department for Environmental Protection of Ministry of Ecology and Natural Resources
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**4.13 Technical Assistance Received for Capacity Building in Vehicle Inspection and Maintenance**

N/A
Source: ..... (institution).....(department)

**4.14 National Vehicle exhaust emission requirements (ONLY light duty vehicles/passenger cars)**

	<b>Petrol</b>	<b>Diesel (g/kvt.hour)</b>
<b>CO</b>		
<b>HC</b>	ГОСТ 12.22.03-87	
<b>NO<sub>x</sub></b>		
<b>HC+NO<sub>x</sub></b>		
<b>PM</b>		
<b>Opacity</b>		

**4.15 Recent Developments/Planned Vehicle exhaust emission requirements, inspection and maintenance**

MoE and MoI of the country, in accordance with the joint plan, are conducting the Clean Air Month each summer. The event envisages inspection of the transport companies, the additional checkpoints for testing the vehicle emissions are arranged in the cities; in case the violations are identified, the respective measures are taken (penalties imposed, use of the vehicle restricted until respective repairs performed, etc.)
It is planned to: -create stationary and mobile ecological control points equipped with the modern control-measurement devices at the highways, cities and regions of the country during 2008-2010. -ensure technical inspections in compliance with Euro-2 by 2010.
Source: ..... (institution).....(department)

**4.16 Incentives for alternative fuels and vehicles (e.g. Flexi-fuel/CNG/LPG powered vehicles)**

<b>Incentive</b>	<b>Description</b>
Use of liquefied gas is beneficial for the drivers, since its cost is lower than these of gasoline or diesel	Certain number of the drivers prefers to switch to use of liquefied gas

**4.17 Promotion of environment friendly vehicles (such as import of only new vehicles, catalytic converters, fuel cells, etc.)**

<b>Measures</b>	<b>Details</b>
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1. Ban on the sale of new vehicle not equipped with catalytic converters	
2. Tax differentiation	
3. Use of subsidies	
4. Inspection and maintenance program	The Draft Ordinance of President of Republic of Azerbaijan on Measures for Ensuring Compliance of Technical Norms of Vehicle Emissions in Republic of Azerbaijan with Euro Standards defines the measures' plan, which requires improvement of technical inspection of the vehicles in accordance with Euri-2 by 2010.
5. Retrofit program	
6. Accelerated retirement program	
7. Scrappage programs	
8. Vehicle age caps	
9. Other (please add):	