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Legislation and institutional mechanisms on Energy statistics in the Republic of Azerbaijan

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Legal framework of Energy Statistics

□ Official Statistics Law

- Main law of the national statistics system in Azerbaijan
- Official Statistics Law has been accepted by the National Parliament of the Republic of Azerbaijan and confirmed by decree of the President of the Republic of Azerbaijan (1994)
- UN recommendations on Fundamental Principles of Official Statistics
- EU recommendations on statistics law model
- Global Assessment of the National Statistical System of the Republic of Azerbaijan implemented by the Eurostat, EFTA and UNECE in 2010

Legal framework of Energy Statistics

- **The ground samples from the Official Statistics Law of the Republic of Azerbaijan**
- **Independence of statistics.** *The state and non-government organizations have not rights to interfere in exercise of authority of the state statistical bodies and put pressure on staff of the statistical organs in carrying out of their tasks.*
- **Responsibilities of bodies.** *All legal entities as well as their representatives and branch offices and natural entities acting in the territory of the Republic of Azerbaijan are obliged to provide bodies of the state statistics with necessary statistical information for carrying out surveys in a certain volume and during a definite time. The information is presented based on free of charge formal statistical reports or in e-form*

(http://www.azstat.org/laws/law_en.pdf).

Legal framework of Energy Statistics

□ Access to administrative data

- *All state and local bodies should provide the SSC of Azerbaijan with access to statistical information which are collected, processed and stored in relevant domains, especially, in registers and other data files, to the extent that is necessary for the production of statistics, thus avoiding the imposition of response burdens on the units concerned, and shall be submitted to the SSC of Azerbaijan by given period according to the Program of statistical works.*

□ Relation between other institutions

- *The state statistical bodies have to work in close cooperation with other government authorities. They provide corresponding bodies with systematic information on results of their works and reporting system situation as well as economic and social processes occurring in the country and regions.*

Prerequisites for development of energy statistics

□ Reach energy resources

- contract of the century, 50 % of GDP, 51 million ton crude oil, 26.0 milliard cubic-meters of natural gas in 2010, oil pipeline BTC, South Caucasus gas pipeline

□ Creation of new institutions

- the Ministry of Industry and Energy of the Republic of Azerbaijan, the State Company on Alternative and Renewable Sources of Energy

□ Increasing of demand

- the national and international organizations – IEA, UN, JODI and etc.)

Prerequisites for development of energy statistics

- The Republic of Azerbaijan is the country with rich natural and energy resources.
- The successful realization of national oil strategy created conditions for implementation of transnational projects, and this, in turn, gave prerequisites for all-round and dynamic development of the energy sector, in connection of which there were changes in national economy.
- It resulted in need of compliance of official statistics to the changes, organization of energy statistics, which would meet the international standards, and preparation of National Energy Balance.
- Integration of Azerbaijan into the European space, its high growth influence on the energy market, transformation of the country into the reliable and alternative supplier of energy resources for the European countries created prerequisites for introduction of the international standards in energy statistics.

Policy of the Republic of Azerbaijan on energy statistics' development

- Different public institutions, such as Ministry of Industry and Energy, the State Oil Company, the State Company on Alternative and Renewable Sources of Energy, Joint-stock Company “Azenergo” are functioned for realization of energy policy in the country.
- Energy Sector in the Department of Industry and Construction Statistics has been created by the State Statistical Committee of the Republic of Azerbaijan in order to record statistics of energy.
- The State Program approved by the President of the country on «improvement of official statistics in the Republic of Azerbaijan during 2008-2012», which determines long-term strategy of statistics, the measures provided in real sector related with energy, has made 11,5 percent (6 from 52).

Activities and goals of energy statistics' development

□ Examples from the State Program

- Activity 1. Development of the methodological instructions on energy statistics (**Improvement of energy statistics taking into account main point of the national energy statistics, source, methods of surveys and applied concepts and definitions**)
- Activity 2. Development and improvement of the national energy balance according to the international standards (**Correction of the indicators of energy statistics according to the international standards; comparability of national energy balance indicators with indicators of developed countries**)
- Activity 3. Revision of the official statistical report forms on energy; analysis of existed indicators, preparation of methodological recommendations (**Correspondence of the existed report forms and methodology on energy statistics with international standards, improvement of the indicators, report forms and methodologies**)

Activities and goals of energy statistics' development

□ Examples from the State Program

- Activity 4. Improvement of the main indicator system of energy statistics. **(Harmonization of the indicators of national energy statistics with international indicators)**
- Activity 5. Creation and improvement of the alternative and renewable sources of energy. **(Obtaining of the statistical information on alternative and renewable sources of energy)**
- Activity 6. Statistical publication “Energy in Azerbaijan”. **(Systematization and analysis of the statistical information on energy, presentation of data to government, international organizations and other users)**

Policy of the Republic of Azerbaijan on energy statistics' development

- The State Statistical Committee of the Republic of Azerbaijan is the main executor and coordinator of the State Program, which reports about the course of implementation of this program to the Government and the President of the Republic of Azerbaijan.
- Activities provided within this program on energy statistics are already implemented, and the following five years' program - the project of which is in the stage of discussion, provides measures for improvement of methodology and indicators of energy statistics.

Measures for improvement of energy statistics

- Specialists of the State Statistical Committee of the Republic of Azerbaijan took part in many measures of the international organizations, such as the United Nations, IEA etc.
- During last five years 25 decisions regarding to energy statistics including energy balance, have been accepted by the State Statistical Committee of the Republic of Azerbaijan.
- Since 2007 the energy balance was compiled according to structure of Eurostat and since 2011 - based on requirements of document "International recommendations on energy statistics" (IRES) accepted by UN Statistical Commission.

System of indicators of energy statistics

- "The system of indicators of energy statistics" has been prepared by the StateStatCom of the Republic of Azerbaijan by means of summarization of methodologies of the United Nations, the IEA, the European Union and other international organizations.
- The main purpose of the system of indicators was definition of coverage of the energy statistics' indicators, its definition according to standards of IEA, UN, EU, preparation of calculation methodology, as well as obtaining necessary information for compilation of National Energy Balance.
- The system of indicators consists of two parts - "The list of main indicators on Energy Statistics" and "Description of main energy indicators".
- The system of indicators creates base for preparation of the corresponding questionnaires and system of metadata, understanding by respondents its value that as a result serves to improvement of quality of received data.

Experience of Azerbaijan in the field of classification of energy products


- The national version of the classification of energy products based on the "international recommendations on energy statistics" (IRES) has been developed and introduced by the State Statistics Committee.
- The classification of energy products provides comparison of data at the international level, characterizes relation of different classifications applied in the country, and has good possibilities for transitional codes (transitional keys).
- The list of energy products, its structure, as well as description and the main peculiarities of distinction of similar products is indicated in classification.

The practice of Azerbaijan on determination of conversion factors of energy products

№	Energy products	Net Calorific Values (Gj/metric tons)			
		Azerbaijan		World	
		Lower	Upper	Lower	Upper
1.	Crude oil	43,1	45,3	40,1	44,8
2.	Gasoline	43,2	46,3	42,5	44,8
3.	Aviation gasoline	43,4	46,5	42,5	44,8
4.	Jet fuel	43,2	46,2	42,0	44,8
5.	Diesel oil	42,7	45,5	41,4	43,3
6.	Kerosene	43,1	46,1	42,4	45,0
7.	Fuel oil (low-sulphur)	42,5	45,4	39,8	41,7
8.	Fuel oil (high-sulphur)	41,2	43,8	39,8	41,7
9.	Natural gas (cubic meter)	35,9	38,9	36,0	39,02
10.	LPG	47,4	52,4	44,8	52,2

Trends on improvement of energy statistics in the Republic of Azerbaijan

- During next years, measures for improvement of existing energy statistics and study the following new directions in this field are provided for:
- statistical assessment of energy dependence in separate fields of economy, improvement of indicators of power-efficiency, conducting survey on power-efficiency in households;
- develop methodology with the purpose of statistical assessment of rational use of natural resources and energy sources at the expense of new technologies, covering statistical indicators “green economy”;
- continue survey on consumption of energy products by natural entities and households in order to assessment of the consumption sector of energy balance.



Thank you for your attention!