

Improvement of energy statistics system and data quality in Georgia



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Progress and developments

- Memorandum of understanding between MOE, GEOSTAT and INOGATE Technical Secretariat
- Institutional arrangements
- Improved access on administrative sources
- International cooperation
- Increased knowledge of staff
- Develop methodology for data collection
- Data collection from energy sector and final consumers

Activities carried out (I)

- 1st ITS Technical Assistance Mission and Workshop for GEOSTAT and MOE on the identification of stakeholders and data items needed for energy balance compilation (March, 2013);
- Include survey on energy consumption in annual state statistical work program for 2014;
- Include costs for conducting survey on energy consumption in GEOSTAT's budget for 2014;
- Enlarge number of statisticians, who is working on energy statistics issues (cost for this person is included in GEOSTAT's budget for 2014 and 2015);

Activities carried out (II)

- Participate and attend trainings, workshops, study tours and share experience of various countries;
- Conduct preparatory work for surveys:
 - revise existing questionnaires in business and household surveys (add additional questions, tables etc.)
 - survey design
 - sampling frame
 - identification of respondents
 - methodology, instructions
 - new questionnaires

Energy Statistics Questionnaires (I)

Part I. Collection data from energy sector (energy companies)

Coal

1. Questionnaire A1 – (for coal mines)

Natural Gas

2. Questionnaire B1 – (for natural gas producers)

3. Questionnaire B2 – (for TSOs, UGS operators)

4. Questionnaire B3 – (for DSO)

5. Questionnaire B4 – (for natural gas suppliers)

Oil and petroleum products

6. Questionnaire C1 – (for crude oil producers)

7. Questionnaire C3 – (for oil products traders)

Energy Statistics Questionnaires (II)

Part I. Collection data from energy sector (energy companies)

Electricity

8. *Questionnaire D1 – (for electricity generation companies).*

9. *Questionnaire D2 – (for electricity transmission companies).*

10. *Questionnaire D3 – (for electricity distribution companies).*

11. *Questionnaire D4 – (for thermal power plants).*

Renewable

12. *Questionnaire F2 – (for producers and traders of pellets, briquettes, wood chips, charcoal etc.)*

Energy Statistics Questionnaires (III)

Part II. collection data on final energy consumption

Industry, construction and service sector

13. Questionnaire M1

Transport sector

14. Questionnaire T1 – (for rail transport)

15. Questionnaire T2 – (for air transport)

16. Questionnaire T3 – (for transport in inland waters)

17. Questionnaire T4 – (for transport on sea and coastal waters)

18. Questionnaire T5 – (for road transport (including Metro))

Agriculture, forestry and fishing sector

19. Questionnaire A11

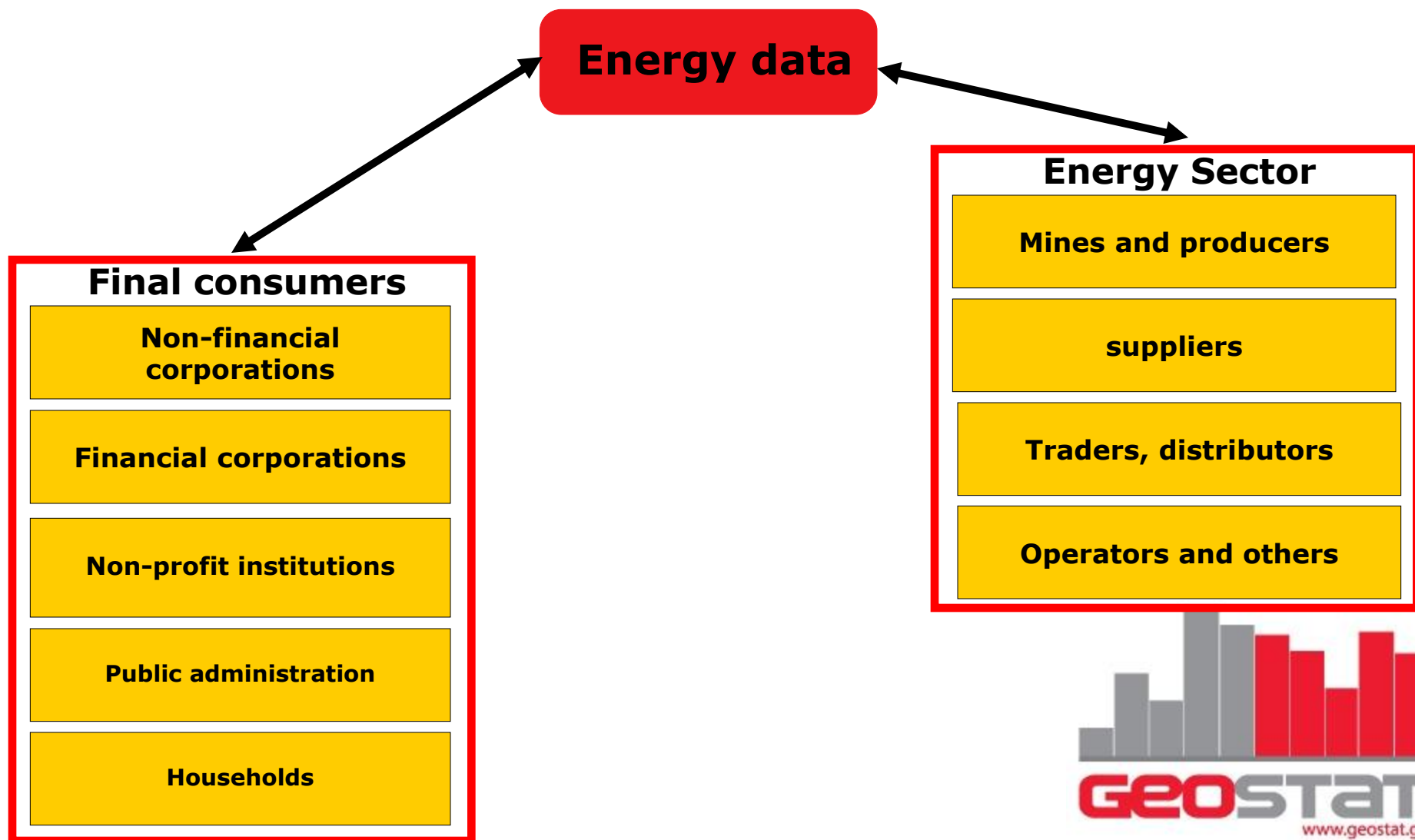
Household sector

20. Questionnaire H1

Other implemented activities

- Discuss survey questionnaires and instructions with the Ministry of Energy;
- 2nd ITS Technical Assistance mission (discuss and agree survey design, questionnaires, instructions and other related issues with INOGATE experts to avoid possible misunderstanding of questions, irrelevant items and possible overlapping (March 2014);
- Conduct field work activities and data collection – from April, 2014 – to September, 2014
- Database cleaning (checks and controls of data)– October, November 2014
- Review of survey results and compilation of energy balance with ITS assistance – October, November 2014

Data collection



data collection from

Energy Sector

	questionnaire	Number of respondents	respondents
Coal	A1	1	Coal mine
Natural Gas	B1	1	Oil and Gas corporation
	B2	1	Gas Transportation Company
	B3	25	Gas distribution Companies
	B4	14	Natural gas suppliers
Oil and petroleum products	C1	1	Oil and Gas corporation
	C3	61	Oil products traders
Electricity	D1, D2	1	Georgian State Electric System
	D3	3	Electricity distribution companies
	D4	3	Thermal Power Plants
Renewable	F2	-	-

data collection from

Final consumers

Non-financial Corporations

Use existing business survey and add additional table related consumption of energy forms

Survey object	Non-financial corporations (legal persons and individual entrepreneurs)
Coverage	1. All kind of economic activities (NACE rev. 1.1) except J, P, Q, L, and 52.62.2); 2. All regions, all municipalities
Survey method	Stratified Random Sampling Large companies – with full coverage; medium and small companies – using sampling method
Sampling size	App. 12500 enterprise
Data collection method	Online questionnaire (web-based application (PHP))

data collection from

Final consumers

Financial Corporations

Conduct new survey

Survey object	Financial corporations
Coverage	Banks, Microfinance Institutions and Insurance companies
Survey method	Census (full coverage survey)
Survey size	App. 20 Banks, 12 Microfinance Institutions and 14 Insurance companies
Data collection method	Online questionnaire (web-based application (PHP))

data collection from

Final consumers

Non-profit Institutions

Use existing annual survey for Non-profit institutions and add additional table related consumption of energy forms

Survey object	Non-profit institutions serving households
Coverage	1. All kind of economic activities 2. All regions
Survey method	Stratified Random Sampling
Sampling size	App. 400 entities
Data collection method	Online questionnaire (web-based application (PHP))

data collection from

Final consumers

Public Administration

Conduct new survey

Survey object and Coverage	Public Authorities, Ministries, Legal persons of Public law, other central and local government institutions; Public Schools
Survey method	full coverage
Sampling size	App. 2500 unit
Data collection method	Paper and online questionnaire (web-based application (PHP))

data collection from

Final consumers

Households

Use existing Quarterly Household Survey and add additional table related consumption of energy forms

Survey object	Households
Coverage	All regions
Survey method	Two stage stratified sampling
Sampling size	App. 3400 households
Data collection method	Face-to-face interview

Future plans (I)

- Formation of complete Energy Balance for 2013 (December, 2014);
- Implementation of international recommendations related energy statistics;
- Keep and improve cooperation with relevant institutions and main stakeholders;
- Active cooperation with administrative institutions and working with administrative sources;
- Active cooperation with international organizations and experts;
- Share experience of other countries;

Future plans (II)

- Working with methodology and data quality;
- Revise and improve existing system for energy data collection;
- Collect data on energy sector (annual basis);
- Conduct survey on energy consumption (regularly);
- Formation of complete energy balance (annual basis);

Thank you for attention!

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