

# Improvements and differences in comparison to the compilation of the 2013 energy balance



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# Activities carried out for preparation energy balance 2014

- Include survey on energy consumption in annual state statistical work program for 2015;
- Include costs for conducting survey on energy consumption in GEOSTAT's budget for 2015;
- Enlarge number of statisticians, working on energy statistics issues (one permanent staff)
- Improve knowledge and experience of statisticians.

# Activities carried out for preparation energy balance 2014

- Participate and attend trainings, workshops, study tours and share experience of various countries;
- Conduct preparatory work for surveys:
  - revise questionnaires
  - survey design
  - sampling frame
  - identification of respondents
  - revise and improve software for survey

# 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 and waste

12. *Questionnaire F2 – (for producers and traders of pallets, 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 - (for industry, construction and service sector)*

### 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 - (for rail agriculture sector)*

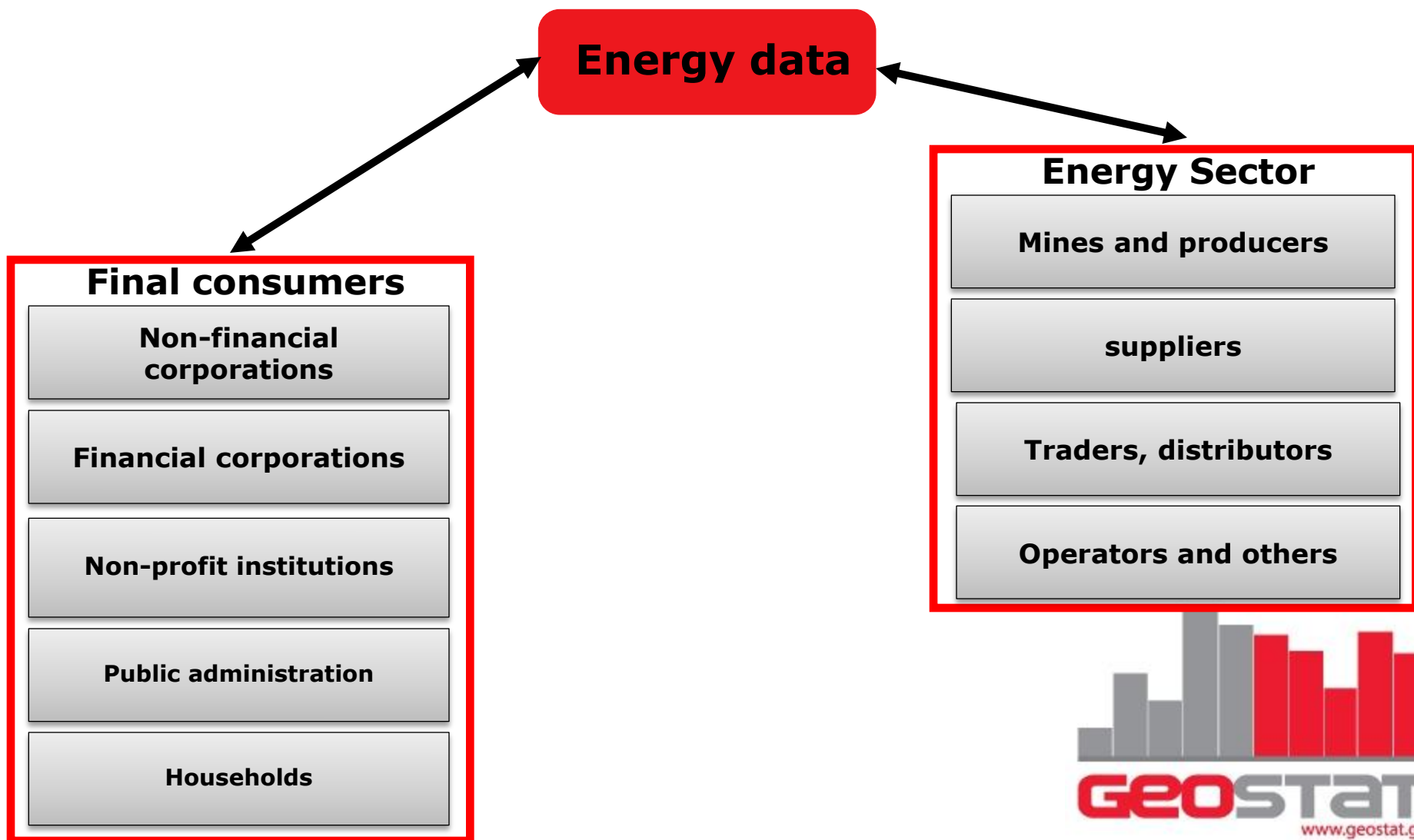
### Household sector

*20. Questionnaire H1 - (households)*

# Other implemented activities

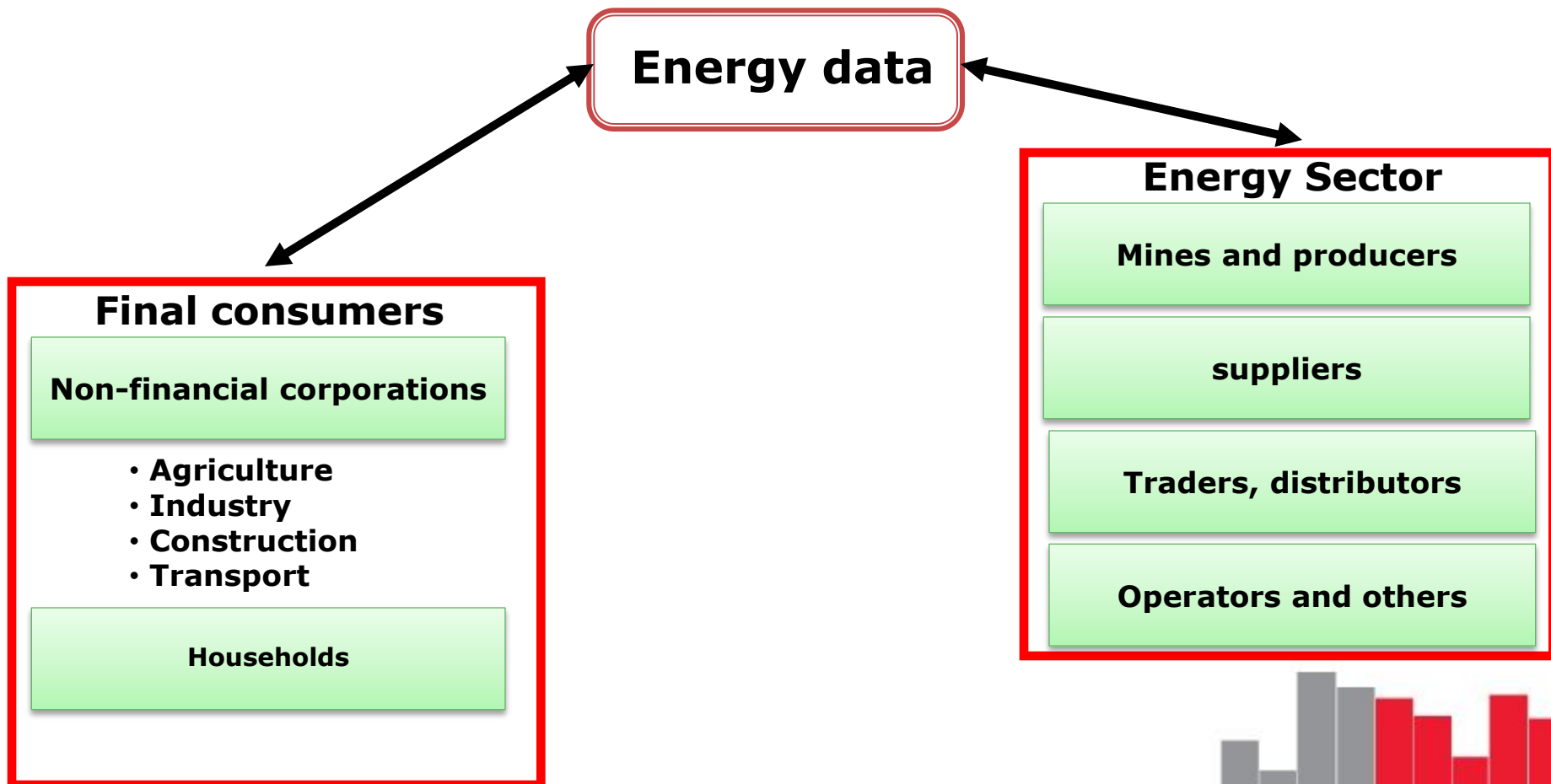
- Discuss survey design and questionnaires with the Ministry of Energy;
- Discuss/revise survey design and other related issues with INOGATE experts.
- Conduct field work activities and data collection – from April, 2015 – to September, 2015
- Database cleaning (checks and controls of data) – October, November 2015
- Revision of survey results and compilation of energy balance with ITS assistance –November 2015

# Data collection for 2013 energy Balance





# Data collection for 2014 energy Balance



# Energy Sector

	questionnaire	Number of respondents 2014	respondents
<b>Coal</b>	A1	1	Coal mine
<b>Natural Gas</b>	B1	1	Oil and Gas corporation
	B2	1	Gas Transportation Company
	B3	18	Gas distribution Companies
	B4	3	Natural gas suppliers
<b>Oil and petroleum products</b>	C1	1	Oil and Gas corporation
	C3	24	Oil products traders
<b>Electricity</b>	D1, D2	1	Georgian State Electric System
	D3	3	Electricity distribution companies
	D4	-	Thermal Power Plants
<b>Renewable and waste</b>	F2	-	



# data collection from

## Final consumers

### Non-financial Corporations

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

<b>Survey object</b>	Non-financial corporations (legal persons and individual entrepreneurs)
<b>Coverage</b>	1. Agriculture, Industry, Construction, Transport 2. All regions, all municipalities
<b>Survey method</b>	<b>Stratified Random Sampling</b> Large companies – with full coverage; medium and small companies – using sampling method
<b>Sampling size</b>	App. 5 000 enterprise
<b>Data collection method</b>	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

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

# Improvements and differences

- Changes in the Law on Official Statistics of Georgia
- Improved and updated sampling frame
- Increased knowledge of staff (interviewers, supervisors, operators, analytical staff)
- More active cooperation and communication with producers, providers and users of energy statistics data



# Improvements and differences

- Improve software for data collection and develop more details output tables
- Starting activities related production of monthly statistics (gas, oil)
- Use more and more administrative data for production of energy statistics

# Future plans (I)

- Implementation of international recommendations related energy statistics and ensure full compliance with international standards and methodologies;
- 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;

# Future plans (II)

- Share experience of various countries;
- Working with data quality;
- Collect data from energy sector (coal, natural gas, oil and petroleum products, electricity, renewable) every year
- Conduct survey on energy consumption in **industry, transport, agriculture and construction** sector as well as **households** every year
- Conduct survey on energy consumption in **service sector** – once in 3-5 year
- Formation of complete energy balance (annual basis);



Thank you for attention!

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