

Statistical product – Electricity Balance (yearly)

Processes	Sub-processes	Sub-process description
1 Specify needs		
	1.1 Identify needs	<p>Energy is one of the most important production infrastructures in the economy, and the production and consumption of electricity is conditioning the level of socio-economic development of that country. The main purpose of the electricity balance compilation is to provide information on electricity generation and consumption in separate sectors of the economy.</p> <p>The availability of electricity balance allows to study the level of electricity consumption in different sectors of the economy, trends of their change and to develop the energy saving projects in these spheres.</p>
	1.2 Consult & confirm needs	<p>The indicators are collected according to the Annual Statistical Program, which is also elaborated on the basis of users requirements to the statistical information taking into account the limits of available resources, the capacity of statistical information providers and cost-effectiveness. The statistical information users' opinions related to the indicators are studied through the working discussions, as well as through the "User satisfaction survey questionnaire" which is available on Armstat website (see: https://www.armstat.am/am/?nid=131).</p>
	1.3 Establish output objectives	<p>The provisions of RA Law on "Official Statistics" related to the statistical data confidentiality are strictly followed in the process of the collection, use, publication and storage of needed information (data) for the calculation of indicators.</p>
	1.4 Identify concepts	<p>The inclusion of indicators is stipulated by the availability of statistical information users' requirement.</p>

	1.5 Check data availability	The main information source that is being used is the data collected by Form-23 “The Distribution and Balance of Electricity by Branches of Industry” (annual) For electricity production part the information is provided by “RA Ministry of Energy Infrastructures and Natural Resources” (serves as an administrative register) , and for consumption from “Electric Network of Armenia” CSC.
	1.6 Prepare business case	Before the adoption of the statistical reporting forms by the RA State Council on Statistics and state registration by the RA Ministry of Justice, as a legal act, the discussions on indicators included in them and the instructions for their completion are carried out with different interested institutions and users, as well as the opinion of international experts is taken into account where possible.
2.Design		
	2.1 Design outputs	The data are collected based on the Law on "Official Statistics" and “Five Year Statistical Program”, as well as the Resolution No. 05-N of RA State Council on Statistics “On Approval of the Procedure for the collection of statistical data” dated 20 June 2016 and Resolution “On Approval of Annual Statistical Program”.
	2.2 Design variable descriptions	
	2.3. Design collection	The main form of the collection of statistical information is paper form form through the statistical reporting forms approved by the RA State Council on Statistics, according to the Annual Statistical Program. The electronic method of the collection of information is also applied.
	2.4 Design frame and sample	
	2.5 Design processing and analysis	
	2.6 Design production systems and workflow	

3.Build		
	3.1 Build collection instrument	The statistical reporting form needed for the collection of information and the instruction for filling in it are available in paper and electronic form (see link https://www.armstat.am/am/?nid=547).
	3.2 Build or enhance process components	The methodological guidelines and instructions necessary for information calculation and verification of needed information are available. Input software (Microsoft Office Access) has necessary tools for arithmetic and logical checks of input data, systems for checking the sum total, logical chains, organizations' registration, identification and tax payers registration numbers compliance and other automated checks' systems.
	3.3 Build or enhance dissemination components	The electricity balance compilation survey is conducted on an annual basis and is aimed at providing reliable information on the volumes of electricity produced in the republic, the electricity loses, export and import, as well as electricity consumption by different branches of industry and the population.
	3.4 Configure workflows	
	3.5 Test production system	
	3.6 Test statistical business production	
	3.7 Finalize production system	The composition of methodological clarifications on the completion of indicators available in statistical reporting form and provision to the statistical information providers (respondents) is carried out. The consents of information providers on indicators got during the workshops are summarized.
4.Collection		

	4.1 Create frame and	
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	select sample	
	4.2. Set up collection	
	4.3 Run collection	The main method of data collection is in paper form through the statistical reporting form approved by RA State Council on Statistics, according to the annual statistical program. The electronic method of data collection is also applied.
	4.4 Finalize collection	The collected information, after being arithmetically and logically cross checked, is input in the electronic environment. The information input is carried out automated, as well as by direct input of information in electronic environment.
5.Process		
	5.1 Integrate data	
	5.2 Classify and code	
	5.3.Review and validate	
	5.4 Edit and impute	
	5.5 Derive new variables and units	
	5.6 Calculate weights	
	5.7 Calculate aggregates	The summary data by separate statistical indicators are derived based on the input data through the pre-designed software.
	5.8 Finalize data files	
6.Analysis		
	6.1. Prepare draft outputs	The creation of indicator groups, as well as time series of statistical indicators is implemented based on obtained statistical summary data.
	6.2 Validate outputs	The methodological requirements to the received indicators are strictly followed during the whole process of indicators receiving according to the pre-defined classifications,

		methodological guidelines and the instruction on completing the statistical reporting form.
	6.3 Interpret and explain of outputs	The logical analysis of the received summary indicators is carried out using the dynamics of relevant indicators of the previous years.
	6.4 Apply disclosure control	The confidentiality of statistical indicators (not containing individual (personal) data) that is subject to publication, as well as requested by the users of statistical information is strictly followed according to the Law on Official Statistics and the Resolution of the SCS No 53 " Approval of the Order on Protection of Statistical Confidentiality" dated 25 June 2001, and only summarized data are provided (see: https://www.armstat.am/file/doc/99454478.pdf).
	6.5 Finalize outputs	
<i>7. Dissemination</i>		
	7.1 Update output system	The indicators on electricity balance available at Armstat.Bank (:http://armstatbank.am) are updated every year.
	7.2 Produce dissemination products	<p>All the production steps are implemented for the disseminating products: preparation of explanatory text, tables, charts and other materials, editing of these products and making them compliant with publishing standards.</p> <p>The information on the statistical indicators is published in Armenian, Russian, English through the yearbooks, statistical handbooks and monthly informational reports.</p> <ol style="list-style-type: none"> 1. Statistical Yearbook of Armenia (see the link: http://www.armstat.am/am/?nid=45); 2. Industry of the Republic of Armenia (once per 5 years) (see the link: http://www.armstat.am/am/?nid=82&id=1602);
	7.3 Manage release of dissemination products	The dissemination of statistical information is carried out according to the schedule envisaged by the Five-Year and Annual Statistical Programs. In case of the changes and adjustments made in the indicators provided by the providers of statistical information the indicators already published by

		the Armstat are also being changed and adjusted correspondingly.
	7.4 Promote dissemination products	Various information presented on the Armstat official website (indicators, metadata, notifications, news about the sphere, micro-data, etc.) is not only a statistical tool, but also dissemination tool of information on the Armstat activity, which promotes the effectiveness of the sector's activities.
	7.5 Manage user support	In case of the official request of the users of statistical information related to the information not being published, the calculation of additional indicators is carried out at possible extend and submitted to them following the principle of confidentiality of statistical information.
8.Evaluation		
	8.1 Gather evaluation input	The collection of data from the same source and/ or from the administrative register on relevant organizations is carried out for the purpose of making comparisons.
	8.2 Conduct evaluation	
	8.3 Agree an action plan	