**SUPPLY OF ELECTRICITY**

### Presentation

This note relates to the metadata of the follow-up production account. Thus, it describes the definition, range, sources, and methodology used in preparing follow-up production accounts.

### Definition and Scope

**Definition**

The Electricity industry records the output produced by companies engaged in generation, transmission and distribution of electricity for sale to industrial, commercial, residential and other users.

The following variables are measured: Gross Output (GO), Intermediate Consumption, and Value Added.

**Sub-industries / Sub-accounts**

The Production Account of the Electricity industry includes the following sub-industries: Generation, Transmission and Distribution of electric power. Generation of electric power comes mainly from hydraulic and thermal sources. Within thermal generation, the main sources are natural gas, carbon, and diesel-oil.

### Source Data

**Economic Surveys**

- **Source Name:** Survey of electric power generating companies.
  Reporting Institution: Electric power generating companies. Data gathered by the Central Bank.
  Data used: Accounting records (operating income and expenditure) and statistical records (consumption of basic inputs in volume and value, sales of energy and power by type of client, employment, net investment in fixed assets, etc.)
  Frequency: Annual.

- **Source Name:** Survey of electric power generating and distributing companies.
  Reporting Institution: Electric power generating and distributing companies. Data gathered by the Central Bank.
  Data used: Accounting records (operating income and expenditure) and statistical records (sales of energy and power by type of client, purchases of energy and power by type of provider company, employment, net investment in fixed assets, etc.)
  Frequency: Annual.

**Balance Sheets and/or Financial Statements**

- **Source Name:** Annual reports and balance sheets of electric power generating, transmitting, and distributing companies.
  Reporting Institution: Electric power generating, transmitting and distributing companies.
  Data used: Accounting data on operating income and expenses, economic information on the evolution of this industry
  Frequency: Annual.
Statistical Forms & Reports

- **Source Name**: Statistical yearbooks of electric power generation, energy balances, Superintendence of Electricity and Fuels (SEC).
  - **Data used**: Generation of electric energy by type of fuel, electric generation and capacity, purchases of energy and power by electricity distribution companies.
  - **Frequency**: Annual.

Other Statistics

- **Source Name**: Price and volume statistics.
  - **Data used**: Consumer Price Index (CPI), Wholesale Price Index (WPI), imports by product group.
  - **Frequency**: Monthly.

Compilation method

The compilation method to transform source data into the production account consists of the following stages:

Aggregation, imputation and validation

**Validations and Imputations**

Information resulting from surveys is validated with the financial background information reported by companies in their balance sheets and annual reports. They are also compared with the answers received in the previous year.

Classification

The information used for preparing the Production Account of this industry is classified as per the International Standard Industrial Classification Rev. 3 (ISIC Rev.3). Products associated to this industry are classified in terms of the Central Product Classification (CPC).

Estimation Procedures

Generally, the procedures used for estimating the follow-up production account depend on the information sources available:

- In the benchmark compilation, every five years, there is often more complete information available; it is then possible, with the source data, to determine the “best level” for the production account components.
- There is generally less complete information for follow-up compilation. So, in order to obtain the “best-change”, prices, quantities, and values from the source data above detailed are used as indicators, whose changes are applied to the levels of the 2003 benchmark production account, by extrapolation, deflation, inflactation, and identities.

The key aspects of the calculation procedure for the main aggregate transactions or variables of the Electricity follow-up production account are shown below.

i) Gross Output (GO). Value at constant prices is calculated by extrapolation, using quantity indexes. Value at current prices is determined by value extrapolation, using value indexes.

ii) Intermediate consumption (IC). Value at constant prices is determined by extrapolation, using quantity indexes of main inputs and GO as indicator of other
inputs. Value at current prices is determined by inflactation of records at constant prices.

iii) Value Added. Value at constant prices is determined by double indicator. Value at current prices is obtained as the difference between the GO (at basic prices) and the IC (at purchaser prices).

**Data Reconciliation**

Consistency of transaction flows among sub-industries: Electricity generation, transmission and distribution. The results obtained from the Electricity industry account are analyzed in terms of internal transversal consistency. This means that consistency of figures is examined with respect to record data disseminated by official bodies related to this industry, as to quantity, price and volume indicators, record data on electricity generation, purchases and sales of distribution companies, consumption of major fuels nationwide, etc.

In the same way, inter-temporal internal consistency of series is analyzed in both nominal and real terms, so that trend changes of series and specific phenomena of the benchmark year are identified. Regarding the Electricity industry, the most relevant of them are: electric market analysis, characteristics of the hydrology year, availability of fuels, evolution of prices of the main inputs, etc.

The electricity account is submitted to the balancing processes within the supply-use table framework.

**Data Access**

**Publication**

This industry is a component of the Electricity, Gas, and Water group of the CBCH's publications, except for benchmark compilation years disseminated for 73 industries.

**Production Account**

- Period: 2003 through 2007, Base 2003
  - Link: [http://www.bcentral.cl/publicaciones/estadisticas/actividad-economica-gasto/aeg01e.htm](http://www.bcentral.cl/publicaciones/estadisticas/actividad-economica-gasto/aeg01e.htm)
  - Tables: 1.37 through 1.41

  - Link: [http://www.bcentral.cl/publicaciones/estadisticas/actividad-economica-gasto/aeg01b.htm](http://www.bcentral.cl/publicaciones/estadisticas/actividad-economica-gasto/aeg01b.htm)
  - Tables: 1.30 through 1.47

- Period: 1986 through 1998, Base 1986
  - Tables: 1.29 through 1.56

**Value Added and GDP**

- Period: 1960 through 1985, Base 1977