



A country experience in energy data - France

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Beirut, July 3 2019 – technical assistance to Lebanon on energy statistics for sustainable development

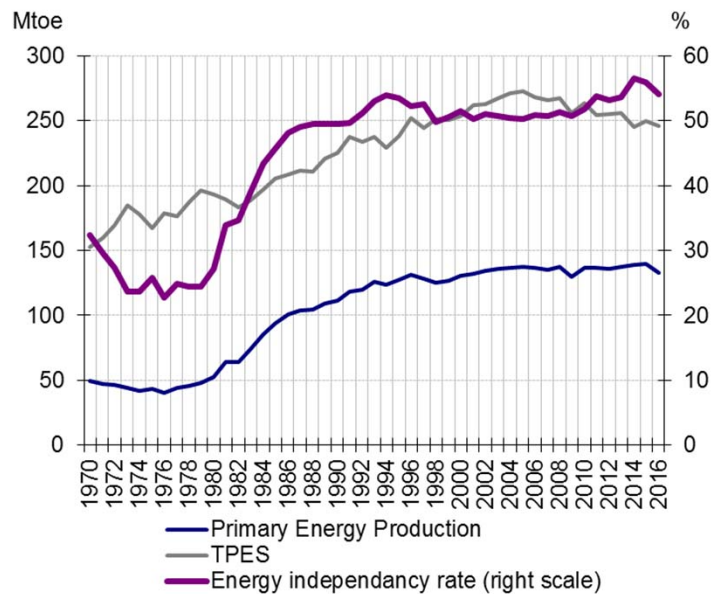
Outline

- Energy in France : an overview
- French energy statistics : the organizational framework
- The French legal basis for data collection
- National outputs of energy statistics

Energy in France: an overview

Energy in France – an overview

Production, TPES and self-sufficiency in France

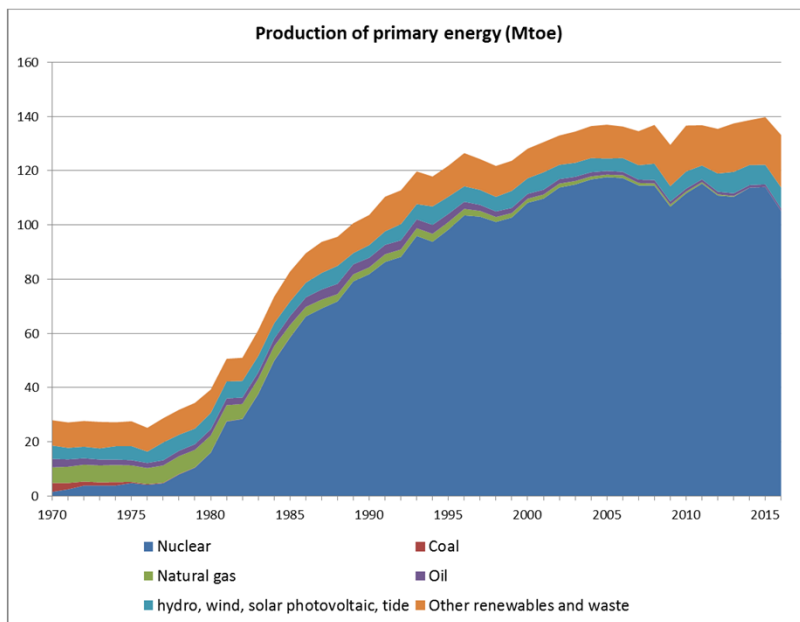


Geographical scope : Metropolitan France
Source : SDES, Energy balance for France 2016

Since the 1980s, France produces half of the energy the country consumes, due to the development of the nuclear sector

Energy in France – an overview

Production of primary energy in metropolitan France

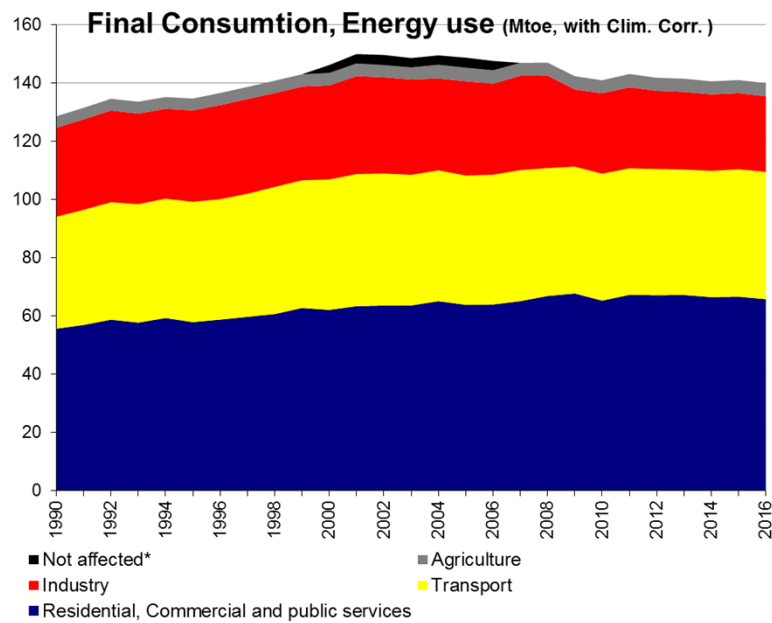


Geographical scope : Metropolitan France
Source : SDES, Energy balance for France 2016

Nuclear energy represents around 80% of primary energy production in France

Energy in France – an overview

Total final consumption of energy in metropolitan France



Geographical scope : Metropolitan France
Source : SDES, Energy balance for France 2016

Residential, commerce and services sectors are by far the first consumer sector in France.

French energy statistics: the organizational framework

French energy statistics: the organizational framework

National Council for Statistical Information (CNIS)

National Institute for Statistics (Insee)

**Ministry of
Agriculture**
*Statistical
Service*

**Ministry of
Labour**
*Statistical
Service*

**Ministry
of ...**
*Statistical
Service*

**Ministry for the
Ecological and
Inclusive Transition**
*Service for Data and
Statistical Studies
(SDES)*

The Ministry for the Ecological and Inclusive Transition

The Service for Data and Statistical Studies (SDES)

**Transport
Statistics**

**Housing
Statistics**

**Environment
Statistics**

**Energy
Statistics**

**Sustainable
Development
Indicators**

**Dissemination
and
data
management**

The Energy Statistics sub-directorate

- Led by a Deputy director
- One expert in charge of the development of energy accounts is directly attached to him (her)
 - The division of energy supply statistics
 - 7 people, specialized by type of energy (2 on renewables (1 temporarily), 2 on oil, petroleum products and coal, 3 on natural gas and / or electricity) + head of unit
 - The division of energy use statistics
 - 5 people, specialized by sector and / or topic (1 on prices and fiscal studies, 1 on international and local data, 1 on fuel poverty, residential, 1 on manufacturing, transports and climate, 1 on services, construction and agriculture) + head of unit
- They both use statistical surveys, administrative data, and analyze and disseminate them.

The French legal basis for data collection

The French legal framework: two types of data collection

- Official statistical surveys (loi de 1951)
 - Accuracy and methodology approved by the National Council for statistical information
 - List published in the Official Journal of the French Republic
 - Can be mandatory
- Administrative data collection
- Based on other legal acts (monitoring of importers, producers, distributors)
 - Data made available to the statistical system thanks to:
 - Article 7bis of the 1951 law about statistics.
 - Or texts within the Energy Code.

The official statistical surveys (loi de 1951)

- The official legal basis is the following legal text : Act n° 51-711 of 7 June 1951, amended concerning obligation, coordination and secrecy in the area of statistics
- This Act defines the rules for conducting statistical operations, i.e. registering under a statistics programme, confidentiality and obligation to reply
 - Two main steps (before collection):
 - Appraisal by the National Council for Statistical Information : is the survey of general interest ? Does it meet user needs?
 - French Label Committee :
 - checks the quality of the survey (data collection process, questionnaire, tests, methodology (sampling, editing, calibration,...)).
 - delivers a label of general interest and statistical quality (necessary condition to be an official survey). Decides on the mandatory status of the survey.

The collection of administrative data – the case of energy statistics

- French Energy Code, Book I, Title IV, Chapter II, Section I : government access to information necessary for energy policy, reporting obligations for concerned entities.
- Article L142-1 : *"any physical or moral person who transports, distributes, imports, stores, exports or provides energy is to provide, to the administrative authority, data on the activity necessary for :*
 - *1° application of the requirement of the Code relative to energy policy;*
 - *2° establishing of statistics for drafting of energy policy;*
 - *3° provision of information to specialist bodies under France's international commitments.*
 - *To this end, the minister responsible for energy establishes, by Order, the list of data to be provided"*
- Completed by orders and decrees listing data to be collected and/or disseminated by the administrative authority.

The importance of the EU regulations

- EU provides another legal justification for data collected through statistical surveys with a general framework:
 - European law for statistical survey : Council Regulation EC 223/2009 of 11 March 2009 on European statistics
- This is completed by regulations and directives specific to energy statistics:
 - EC Regulation 1099/2008 of the European Parliament and Council of 22 October 2008 on energy statistics, amended by Commission Regulation (EU) 2017/2010 of 9 November 2017
 - Directive on the transparency of gas and electricity prices charged to industrial end users (2008)
 - Directive on the promotion of the use of energy from renewable sources (2009)
 - Directive on energy efficiency (2012)

National Outputs of energy statistics

Dissemination of energy statistics is essential

- The French core dissemination tool is the official website: <http://www.statistiques.developpement-durable.gouv.fr/>
- It is completed by PDF booklets and leaflets, all redesigned in 2017:
 - Main publication : French Energy Balance (annual)
 - Booklets: Key Figures on Energy in France, Key Figures on Renewables, Key Figures on Climate
 - Monthly Dashboard : Wind, Photovoltaic, biogas for electricity, biomethane injection
 - Quarterly Report
- Other Annual and Non regular publications: Physical and Monetary balances (accounts) by energy
Prices of Energy, CO2 Emissions, ...
- Database: Hundreds of monthly and annual time series
- International reporting (IEA, Eurostat, JODI) monthly, quarterly and annually

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