

Data revision in ODYSSEE database (version of May 2011)

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This document summarizes the data revision observed in the ODYSSEE database in May 2011 after the last update of the database. It is organized by country and sector.

Austria

1. Industry

- Coal consumption in industry / steel revised :

This is due to the fact that the national energy balance allocates parts of coke consumption to non energetic consumption while Eurostat and IEA allocates total coke consumption to energetic consumption. Data in ODYSSEE are now coherent with international data sources.

Belgium

1. Residential

- Estimation of energy consumption by end uses in households : revision of oil consumption for space heating and water heating

Bulgaria

1. Transport

- Revision of data on car traffic : coherent with DGTREN data
- Revision of data on inland waterways traffic : coherent with DGTREN data

2. Services

- Revision of the number of employees in tertiary

Croatia

1. Macro

- Revision of macro economic data (GDP, Value added) by the Central Bureau of Statistic

2. Industry

- Revision of steel production: coherent with GHG national inventories and international sources (Word Steel)

3. Transport

- Revision of gasoline consumption for cars, trucks & light vehicles (coherent with total road)

4. Residential

- Revision of electricity consumption in households for space heating & specific uses

Cyprus

1. Industry

- Revision of all value added in constant prices by industrial branches (since 1995) and related consumption (since 1999)

2. Transport

- Revision of transport data on traffic coherent with DGTREN (DGTREN Energy and Transport in Figures)

Czech Rep

1. Industry

- Revision of production index by branch since 1995

2. Transport

- Revision of the number of air passengers since 2000 (domestic & international)
- Average distance driven by cars : Estimated from pkm, stock and 1.8 persons/car. Persons/car vary between 1.3 and 2 on working days and between 1.9 and 2.6 during weekends.

Denmark

1. Transport

- Revision of LPG consumption for road transport
- Revision of traffic of trucks and light vehicles

Finland

1. Industry

- Revision of energy consumption by industrial branches from 2000 to 2009
- Due to some problems of confidentiality, some consumptions by energy type are not fully coherent for 2008 and 2009 (wastes and biomass is for example for some branches include in “other solid fuels”)

2. Transport

- Revision of jet fuel consumption in transport : includes both domestic and international air consumption
- Revision of consumption of inland waterways transport

3. Residential

- Revision of the stock of permanently occupied dwellings: same as number of households
- Electricity consumption for 2008 and 2009 : includes also the consumption of real estates and holidays residences (these years will be revised later)

4. Services

- Revision of gas and electricity consumption of early 1990

France

1. Macro

- Revision of economic data from INSEE in chained-prices of 2005 according to the new nomenclature Nace Rev 2
- Revision of energy consumption for residential-tertiary-agriculture to take into account heat consumption (national balances from the Ministry did not take into account heat as a final energy)

2. Industry

- Revision of value added and production index (chained-prices of 2005 and 2005 as reference for production index)

3. Transport

- Revision of total road consumption : includes now foreign vehicles (the domestic consumption is included in domestic road consumption and is coherent with the sum of consumption of transport modes)
- Revision of gasoline and diesel consumption by vehicle type ; bioethanol and biodiesel are now given separately

4. Residential

- Revision of the specific consumption per electrical appliances (estimations)
- Revision of the wood consumption (to take into account auxiliary heating by stoves)
- Revision of energy consumption for water heating and cooking from CEREN

Germany

1. Macro

- Revision of the official German energy balance back to 2003. **Important revision for the consumption of agriculture (and a big difference with Eurostat) and a doubling of the heat consumption in industry/ households-tertiary-agriculture since 2003**

For agriculture, official values are from 2001-2007 from survey (and partly data from the ministry for agriculture). The data from 1990-2000 are estimates, based on the 2001-2007 data. There are no official data on consumption for agriculture in Germany.

2. Transport

- Revision of LPG consumption for cars
- Revision of road transport consumption since 1991

Data based on domestic fuel sales, both including sales to Germans and foreigners.

- Revision of energy consumption of cars: Data based on km driven by Germans in Germany and foreign countries

3. Industry

- Revision of some value added due to a change of methodology due to the new NACE definition . “Other industries” is still a residual. We still fight with two different energy statistics for industry with partly different definitions, missing energy carriers and also faults in both statistics. In 2005 there was a clear fault in the energy balance for paper industry. We corrected this mistake for paper (agreed by the people from the energy balance) but we could not correct total industrial energy consumption because then we had to change total official final energy consumption etc. Therefore, the mistake in paper industry now becomes visible in “other industries”.

4. Households

- Revision of the stock of permanently occupied dwelling: Calculated with a share of permanently occupied dwellings from Prognos model
- Revision electricity and heat consumption for space heating
- Revision of electricity consumption of cooking and electrical appliances

The definition of end-uses in the German end-use balances is different from the Odyssee definitions. Air conditioning is completely missing. Therefore, it is difficult to create these time series. The problem is even more important for services .

5. Services

- Revision of energy consumption since 2001

Strict tertiary is the total service consumption from survey data . Data are only available from 2001 to 2007, since the German surveys started in 2001. In Germany, it also includes agriculture,

construction industry and small industrial enterprises below 20 employees. Unfortunately, they do not exist any official data on energy consumption of these sectors in order to adapt the consumption to the definition in Odyssee.

Greece

1. Macro

- Revision of macro economic data since 2000 (expressed in €2005): A new methodology is used from the Hellenic Statistical Authority (EL.STAT ex NSSG) for GDP calculation.

2. Industry

- Revision of energy consumption of textile since 1996 (disruption in the previous data series)
- Revision of the value added of chemicals since 1990

Hungary

1. Industry

- Revision of the energy consumption of the steel industry, residual branches

2. Transport

- Revision of the average distance travelled by car from 2000 to 2007 (based on reprocessing of the Central Statistical Office)

Ireland

1. Macro

- Revision of economic data since 1990 ; national economic data available in M€2008 prices;
- Revision of coal consumption for the aggregate branch “residential tertiary and others” : peta non included in the last versions

2. Industry

- Revision of petroleum coke figures from 1990 to 2008 by branch
- Revision of coal figures from 2003 by branch
- Revision of all other oil products from 2005 onward by branch

Italy

1. Industry

- Revision of production index in industry from 1990 to 2009 (2005 base year) and in particular transport vehicle and textile
- Revision of paper production since 2001
- Revision of cement consumption (none conventional energy added)

2. Residential

- Revision of gas consumption for households and tertiary since 1997

3. Transport

- Revision of data on passage traffic for cars and rail for 2006-2007

- Revision of data on road goods traffic for 2006-2007

Latvia

1. Industry

- Revision of steel production from 2004
- Revision of some production index by branch (machinery, textile)

2. Transport

- Stock of vehicles – Revision from 1990 and based on modeling/evaluation
- Revision of car traffic in passenger kilometer coherent with DGTREN data (EC Commission)
- Revision of energy consumption by road mode since 1990

3. Households

- Revision of oil and biomass energy consumption by end uses - Data by end-uses are calculated based on households survey with a changing share of space heating, cooking and water heating and share of each energy

Luxemburg

1. Industry

- Revision of energy consumption for food, textile, mineral non metallic and chemicals (Eurostat)

2. Transport

- Revision of stock of cars since 2002

Norway

1. Industry

- Revision of value added by industrial branches and production index
- Revision of energy consumption in machinery and other industries

2. Transport

- Revision of the stock of trucks
- Revision of the traffic of cars and rail for passengers
- Revision of data on traffic for goods for road and rail

Netherlands

1. Industry

- Revision of total energy consumption of industry (the use of manufactured gases in particular in the chemistry sector is excluded)

2. Transport

- Revision of data on traffic, distance travelled and energy consumption of road goods transport (Data only refer to Dutch vehicles within The Netherlands)
- Revision of diesel consumption of road transport and by vehicles

- Revision of energy consumption for inland waterways

3. Households

- Revision of energy consumption by end-uses (in particular gas and electricity)
- Revision of the data on floor area of dwellings after 2006 (estimation)

Poland

1. Industry

- Revision of production index since 1995

2. Transport

- Revision of energy consumption by modes since 2006 (gasoline , diesel, fuel)

Portugal

1. Macro

- Revision of economic data since 1995
- Revision of main energy consumption by sector in 2007-2008 and 2009
- Revision of degree days according to Eurostat

2. Transport

- Revision of the stock of vehicles since 1990
- Revision of energy consumption by modes since 1990

3. Residential

- Revision of the stock of dwellings since 2005
- Revision of the stock of electrical appliances
- Revision of the energy consumption by end uses since 2005

4. Services

- Revision of the energy consumption by end uses since 2005 (2005 source DGEG; 2006-2009 estimation)

Romania

- Value added by branch : calculate with production index for 2008

1. Transport

2. Households

- Energy consumption by end uses : 2007-2008 calculated with the heating share of 2006 (normal climate)
- Number of households: 2006-2008 estimated according to the number of permanently occupied dwellings

Slovenia

1. Macro

- Economic data : revision of GDP and value added since 1995

2. Transport

- Revision of energy consumption of road since 1997

3. Residential

- Number of households: recalculated according to the 2002 Census methodology

Slovakia

1. Macro

- Coal consumption revised since 2005 in households and tertiary
- Revision of value added of agriculture and tertiary since 2007

2. Industry

- Revision of energy consumption for textile, paper and chemicals mainly before 2000
- Revision of all production indexes by branch since 2000
- Revision of the value added of machinery since 1993 and all branches since 2007

3. Transport

- Diesel consumption revised for road since 1993 and since 2000 for rail
- Revision of LPG consumption for cars

4. Residential

- Revision of energy consumption of space heating and water heating since 1990

Spain

1. Macro

- Revision of total primary consumption

2. Industry

- Revision of the value added and energy consumption of “other industries” and machinery in industry

3. Transport

- Revision of number of trucks and light vehicles and energy consumption , due to a double-counting of the stock of trucks in the previous version of the data base
- Traffic of bus : revision of data from the Ministry of Development

Sweden

1. Macro

- Revision of degree days (the degree days of reference are steady from 2000; obviously they have to be constant)

2. Industry

- Revision of value added by branch since 1990
- Revision of energy consumption by branch since 2005 (steel, non metallic of which cement, machinery, transport vehicles, other industries)

3. Transport

- Revision of the annual distance travelled by cars to take into account LPG vehicles

4. Residential

- Energy consumption by end uses : New calculation from model since 2000

5. Services

- Revision of value added by branch since 1993

UK

1. Industry

- Revision of coal consumption in industry
- Revision of value added by industrial branch from Blue Book 2010
- Revision of energy consumption of chemicals and non mineral metallic since 2000;

2. Transport

- Revision of gasoline and LPG energy consumption in transport since 1998
- Revision of diesel consumption for cars since 1998 (data before 1998 are calculated as a difference between total road consumption and the other modes)
- Revision of rail consumption since 1990 and in particular for electricity
- Electricity consumption of road transport: deleted

3. Services

- Revision of heat and gas consumption in tertiary and others

EU

1. Macro

- Total primary consumption : biomass primary consumption revised
- Energy balances: heat consumption revised (Eurostat) mainly since 2003 for industry and households-tertiary-agriculture)

2. Industry

- Value added by industrial branches from Eurostat except for “other industries” calculated by difference (In Eurostat construction is included in other industries)
- Energy consumption by branches : slight revision in Eurostat, and mainly in chemicals (“other industries” calculated by difference)

3. Transport

- Revision of the stock of trucks and light vehicles (calculated as a sum of EU countries)
- Energy consumption by modes : calculated as a sum of EU countries (revision for cars and trucks and light vehicles coherent with total road from Eurostat). Gasoline and diesel consumption by mode of transport include biofuels.
- Energy consumption of inland waterways consumption : revision from Eurostat

4. Households

- Revision of energy consumption for hot water and cooking (end uses energy consumption are calculated as a sum of EU countries)