

# Standard documentation Meta information

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on

## Useful energy analysis

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STATISTICS AUSTRIA  
Bundesanstalt Statistik Österreich  
A-1110 Vienna, Guglgasse 13  
Phone: +43 1 711 28-0  
[www.statistik.at](http://www.statistik.at)

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### Directorate spatial statistics Organizational unit energy and environment

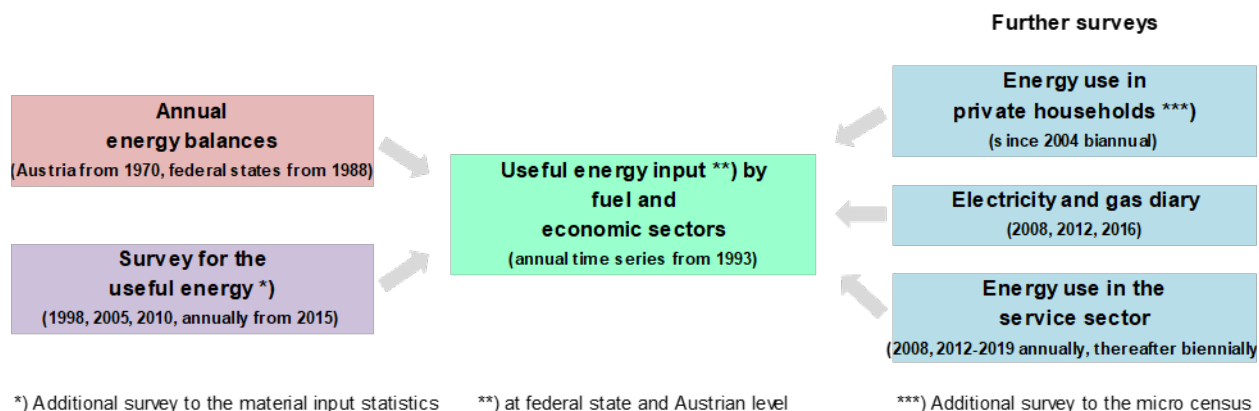
Contact person:  
Manfred Gollner  
Phone: +43 1 711 28-7573  
E-mail: [manfred.gollner@statistik.gv.at](mailto:manfred.gollner@statistik.gv.at)

Contact person:  
Manuela Strasser  
Phone: +43 1 711 28-7184  
E-mail: [manuela.strasser@statistik.gv.at](mailto:manuela.strasser@statistik.gv.at)

## Executive Summary

The aim of the useful energy analysis is to provide annually information on the end use of energy sources, broken down by economic sectors and useful energy categories. As data sources, surveys on useful energy are carried out in order to establish the structure of use for the energy sources at the sectoral level of the energy balance. Until 2015, these were voluntary sample surveys. From the reporting year 2015, the survey on useful energy analysis is carried out as a voluntary additional survey within the scope of the material input statistics. The structure of use for Austria is then applied to the final energy consumption of the economic sectors of the annually calculated national and regional energy balances. The results can be used to produce current useful energy analyses for Austria and the Federal provinces every year. Revisions to the energy balances therefore also lead to corresponding revisions to the useful energy analyses. The survey on the useful energy is the essential component for the useful energy analysis, which is why this report deals with this survey in the chapters relevant to the survey. The time series is based on the surveys on useful energy in 1998, 2005, 2010 and, after the reporting year 2015, on the annual survey in the context of the material input statistics. In addition to the manufacturing sector, the survey for the reporting year 1998 also included the economic sectors of agriculture and forestry, services and public administration. The following surveys for the reporting years 2005 and 2010 concentrated exclusively on the manufacturing sector (ÖNACE Sections B to F), because, in contrast to the other economic sectors, the manufacturing sector has a high degree of flexibility with regard to the fuels used. The sample included 3 000 companies in all three surveys. The sample was drawn from the statistical business register of Statistics Austria. In the survey for the reporting year 2005, special attention was paid to off-road traction away from public traffic areas in the construction industry. Due to the voluntary nature of the survey and the complex structure of the questionnaire used, the response rate was very low at 22 %. Since it was not possible to expand the sample for cost reasons, the construction sector was no longer collected separately for the 2010 survey. The response rate was increased to 42 %, mainly driven by the simplified structure of the questionnaire. To complete the results of the survey on useful energy in the industry sector, the results of the further surveys "Energy use in households" and "Energy use in the service sector" as well as the "Electricity and gas diary" are used to create the useful energy analysis (Figure 1).

**Figure 1: Data sources for creating the useful energy analysis.**



The survey on useful energy also serves to allocate the energy sources functionally defined in the energy balance for the transport sectors (railways, other land transport, pipeline transport, inland navigation, air transport) to the economic sectors that use them. Furthermore, the useful energy analysis divides the transport energy sources into traction in public areas, which is assigned to the transport sectors in the energy balance, and off-road traction away from public areas (e.g. construction site traffic and self-propelled work machines) as well as use in stationary engines. Both, off-road traction and use in stationary engines are assigned to the corresponding economic sectors.

For the 2010 and 2015 surveys, the monetary expenditure on the energy sources used was also collected, which was used for control purposes on the one hand and to complete missing data by means of calculated average prices on the other hand (quantity-value pairs).

The results of the useful energy analyses for Austria and the Federal provinces are published on the website of Statistics Austria two weeks after the energy balances.

## Useful energy analyses – Main Key Points

<b>Subject matter</b>	Breakdown of final energy consumption by useful energy categories
<b>Population</b>	All sectors of the energy balances: 13 industrial sectors (I1 to I13); five transport sectors (T1 to T5); one each for private and public services (O1), private households (O2) and agriculture (O3)
<b>Type of statistics</b>	Model calculation for determining annual time series, based on primary statistical surveys
<b>Data sources/Survey techniques</b>	Sample surveys on useful energy, surveys in the service sector and in households (special microcensus programme); electricity and gas diary; energy balances
<b>Reference period or due day</b>	Reporting period of the current energy balance
<b>Periodicity</b>	Annually
<b>Survey participation (primary statistics)</b>	Voluntary
<b>Main legal acts</b>	Contracts with the Federal Ministry for Climate Protection, Environment, Energy, Mobility, Innovation and Technology and the Federal provinces; Federal Act on Federal Statistics (Federal Statistics Act 2000) in the current version
<b>Most detailed regional breakdown</b>	Federal provinces
<b>Availability of results</b>	Final data: t + 11.5 months
<b>Other</b>	The results are updated after each survey on useful energy, applied to the final energy consumption of the current energy balances for Austria and the Federal provinces and published as an annual useful energy analysis