

# **COUNTRY PRACTICE IN ENERGY STATISTICS**

**Topic/Statistics: Energy Consumption of  
Small to Medium-sized Establishments in  
Manufacturing Industries and construction**

Institution/Organization: Statistics Austria

Country: Austria

Date: 28. 02. 2012

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## Abstract

Write a short abstract of the statistics, and try to limit it to one page. The purpose of the abstract is to give the reader a general overview of the statistics/topic. It should therefore include a brief overview of the background and the purpose of the statistics, the population, the sample (if relevant), the main data sources, and the main users of the statistics. The abstract should also mention what is the most important contribution or issue addressed in the country practice (e.g. the practice deals with challenges of using administrative data, using of estimation, quality control, etc.). If there are other elements that are considered important, please feel free to include them in the abstract.

Keep in mind that all relevant aspects of the statistical production will be covered in more detail under the different chapters in the template. Therefore, the abstract should be short and focused on the key elements. What the most important elements are can vary from statistics to statistics, but as a help to write an abstract you can use the table below. The table can either replace a text or can be filled out in addition to writing a short text.

The aim of this voluntary survey is to record energy consumption by small to medium-sized establishments in the producing sector to supplement the obligatory Material Consumption Survey for improving the sectoral structure of energy consumption and expenditure on energy in the context of Energy Balances and Energy Accounts (quality assurance measure for the drawing up of Energy Balances and Energy Accounts).

The introduction of this survey was prompted by the increased requirements to be met by Energy Balances and Energy Accounts. The original aim of Energy Balances was to depict the general Austrian energy supply situation with the accuracy and timeliness necessary for political decisions of general principle and to describe the role played by energy supply within the Austrian economy (National Accounts relevance). They now have the further purposes of documenting Austria's international commitments to storing energy sources (IEA agreement) and documenting the impacts of promotional measures (such as promotion of solar energy in Salzburg, Cogeneration Directive) and political steering measures (such as the Green Electricity Act) in a great degree of detail. They also serve as the basis of calculation of Austria's Kyoto-relevant, energy-based greenhouse gas emissions (reference analysis) by the Austrian Umweltbundesamt (Austrian Environment Agency) and the EU.

Moreover, changing basic political and economic conditions, such as the liberalisation of the energy market, severely reduce the availability of data for the supply account in the context of producing the balance sheet. These need to be replaced by developing and implementing new models, essentially building on an improved data basis for the consumption side of the balance sheet.

This statistics comprises consumption and the associated expenditure of small to medium-sized establishments in the manufacturing industry, broken down by fuels.

It is a voluntary sample survey with a sample size of 3 000 establishments which are not included in the sample of the Material Input Statistics. The data source used to define the universe is the Business Register.

The results are not published separately but as integrated part of the Energy Balances and the Energy Accounts.

| Key elements                                     |   |
|--|---|
| <b>Name of the statistics</b>                    | Energy Consumption of Small to Medium-sized Establishments in Manufacturing Industries and construction |
| <b>Background and purpose of the statistics</b>  | Energy consumption of small to medium sized industries  |
| <b>Population, sample and data sources</b>       | Sample survey with a sample size of 3000 establishments, drawn from the enterprise register             |
| <b>Main users</b>                                | Statistics Austria: Energy balance, Energy Accounts, National Accounts                                  |
| <b>Important contribution or issue addressed</b> | Energy balance, Energy Accounts, National Accounts  |
| <b>Other remarks</b>                             | Residence principle   |

# 1. General information

## 1.1. Name of the statistics/topic

The statistics/topic could either be a specific energy statistics (e.g. electricity production) or a topic within energy statistics (e.g. energy balances). For more information, please see Section III of the Instructions.

Energy Consumption of Small to Medium-sized Establishments in Manufacturing Industries and construction

## 1.2. History and purpose

State when the statistics were first published.

Due to the specific nature of this survey, which makes the results on their own not very meaningful, it is not published independently

Describe briefly the main purpose of producing the statistics and why it is relevant.

The survey on Energy Consumption of Small to Medium-sized Establishments in the Manufacturing Industry is a primary survey to supplement the Material Input Statistics with the sole aim of improving the data basis for the Energy Balances and Energy Accounts and thus meeting the increased requirements that apply to these bodies of statistics.

It comprises energy consumption in physical and monetary units in the industry sector broken down by energy sources, namely gasoline, diesel, LPG, gas oil, fuel oil, natural gas, electricity, district heat, fuel wood and solid biofuels.

## 1.3. Reference period

State the time period the data are collected for.

Calendar year

## 1.4. Frequency

Specify how often the statistics are disseminated (e.g. annually, monthly, quarterly, etc.). If the statistics are not produced at regular intervals, state at what times they have been produced in the past and the main reasons behind the irregularities.

2 yearly

## 1.5. Dissemination

Describe how the statistics are published (e.g. printed publications, online publications, online databases, etc.). If applicable, include the web address to the main website of the statistics.

The results are not published separately but as integrated part of the Energy Balances and the Energy Accounts.

## 1.6. Regional level

State the lowest geographical level (e.g. administrative regions, municipalities, etc.) for which the statistics are made available to the public.

Nuts 2

### 1.7. Main users

Identify the key users of the data and the main applications. Include both internal and external users, and if possible try to distinguish between end users and others.

Statistics Austria, Directorate Spatial Statistics: Energy balance, Energy Accounts, Directorate Makro Economics: National Accounts

### 1.8. Responsible authority

Write the name of the institution and department/office with the main responsibility for disseminating the statistics (e.g.: Statistics Norway, Department of Economics, Energy and the Environment).

Statistics Austria, Directorate Spatial Statistics, Energy & Environment

### 1.9. Legal basis and legally binding commitments

State the national legal basis for the data collection. Include a complete reference to the constitutional basis, and web address to an electronic version (e.g.: The Statistics Act of 16 June 1989 No. 54, §§2-2 and 2-3, [http://www.ssb.no/english/about\\_ssbt/statlaw/forskrift\\_en.html](http://www.ssb.no/english/about_ssbt/statlaw/forskrift_en.html)).

- [Federal Statistics Act 2000](#), as amended,

If the data collection is not based on a legal basis, give a short description of other agreements or volunteer arrangements.

- Five-year contracts with the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW) and the Austrian Federal Ministry of Economics, Family and Youth (BMWFJ, formerly BMWA)

If applicable, give reference to national and international commitments that are legally binding (e.g. EU statistical legal acts).

- [Regulation \(EC\) No. 1099/2008](#) of the European Parliament and of the Council of 22 October 2008 on Energy Statistics.

### 1.10. Resource requirements

Specify how the production of the statistics is financed (e.g. over the ordinary budget, project based support, financial support from other institutions or organization). If applicable, state the contracting entity (e.g.: Ministry, EU Commission, OECD). A contracting entity is any entity which is ordering a survey or the compilation of a statistics, and paying for it

The survey itself is financed from the ordinary budget, the implementation into energy balances and energy accounts is paid by BMLFUW and BMWFJ, of which each covers 50% of the implementation costs

Specify the resource requirements for producing the statistics (e.g. man-labour days, number of workers involved in the statistical production process of the statistics/topic in question).

~220 person days, 5 persons involved

## **1.11. International reporting**

List any international organizations and names of reporting schemes that the statistics are reported to. If available, also include the website where the reported data are published (e.g. International Energy Agency, Monthly Oil Statistics, UNSD, etc.).

Not relevant

## **2. Statistical concepts, methodology, variables and classifications**

### **2.1. Scope**

Describe the scope of the statistics (e.g. the statistics cover supply and use of all energy products in Norway, classified according to International Standard Industrial Classification of All Economic Activities – ISIC).

The statistics on Energy Consumption of Small and Medium-sized Establishments comprise energy consumption in physical and monetary units in the industry sector broken down by energy sources, namely gasoline, diesel, LPG, gas oil, fuel oil, natural gas, electricity, district heat, fuel wood and solid biofuels.

### **2.2. Definitions of main concepts and variables**

Describe the main concepts (e.g.: territory principle, resident principle, net calorific value, gross calorific value).

Resident principle

Describe the main variables (e.g. how are the different energy products defined in the statistics? How are production, intermediate consumption, final consumption, transformation, feed stock, the energy sector, etc. defined?).

Energy consumption is broken down by energy sources (gasoline, diesel, LPG, gas oil (2002 and 2004 only, since 2006 included into fuel oil), fuel oil, natural gas, electricity, district heat, fuel wood and biogenic energy sources).

### **2.3. Measurement units**

Describe in what unit the data is collected (e.g. physical unit (m<sup>3</sup>, metric tons), monetary unit (basic prices, market prices)). Describe in what unit the data is presented. Describe if the calorific values are collected (e.g. on a net vs. gross basis) and how they are used.

If applicable, describe the density of the energy product(s) and the estimated *thermal efficiency coefficients* of different energy products and consumer groups or by appliance. Thermal efficiency coefficient indicates the share of the energy products which is actually usable for end consumption. Descriptions of density and thermal efficiency coefficient could alternatively be put in an annex.

Except for electricity and district heat, energy source quantities could be reported in different units

- 1 or kg (gasoline, diesel, LPG, gas oil, fuel oil),
- Stacked cubic metres or kg (fuel wood and solid biofuels) and
- m<sup>3</sup> or kWh (natural gas)

and were then converted into compatible units for the purposes of the analysis with the aid of the following factors:

- Natural gas: 1 m<sup>3</sup> = 11.11 kWh
- Gasoline: 1 000 l = 745 kg
- Diesel: 1 000 l = 836 kg
- LPG: 1 000 l = 580 kg
- Gas oil: 1 000 l = 844 kg
- Fuel oil: 1 000 l = 921 kg
- Wood pellets: 1 srm = 652 kg
- Wood chips: 1 srm = 350 kg
- Fuelwood: 1fm = 615 kg
- Fuelwood: 1rm = 523 kg
- Fuelwood: 1srm = 308 kg
- Wood waste: 1fm = 600 kg
- Sawdust: 1srm = 165 kg
- Sawdust: 1fm = 500 kg
- Bark: 1srm = 236 kg

## 2.4. Classification scheme

Include references to relevant international and national standard classifications. If national, give a brief description of the standards. If available, include web addresses to the electronic version of the standards).

Classifications used are:

- OENACE 2003 or OENACE 2008 - classification of economic activities
- Sectoral classification of Joint IEA/ECE/EUROSTAT Questionnaires aggregated from NACE categories
- NUTS-classification for statistics on regional representation

## 2.5. Data sources

Give an overview of the different data sources used in the collection and compilation of the statistics/topic (e.g. household survey, enterprise/establishment survey, administrative data/registers, foreign trade statistics, production statistics and other primary/secondary data sources).

Examples of administrative sources/registers are: business register for enterprises and establishments, population register, land register, housing and building registers, tax registers, international trade registers, etc.

The data source used to define the universe is the Business Register

## 2.6. Population

Describe the entire group of units which is the focus of the statistics (the population).

Industrial establishments those are not included in the sample of the Material Input Statistics survey.

Specify the following statistical units:

- Reporting unit
- Observational unit
- Analytical unit

Examples of different kind of statistical units include: enterprise, enterprise group, kind-of-activity unit (KAU), local unit, establishment, homogeneous unit of production.

In most cases the reporting unit, observational unit and analytical unit are identical, but there are examples where this is not the case. In electricity statistics, you may find that energy companies (the reporting unit) provide data about different consumers like the individual household or manufacturing company (the observational unit). The analytical unit may be a group of energy consumers, defined by the ISIC.

- Reporting unit: Establishments in NACE Categories C (Division 14 only), D and F with more than 9 employees (2002 and 2004) and more than 2 employees (all following surveys).
- Observational unit: Industrial establishments those are not included in the sample of the Material Input Statistics survey.
- Analytical unit: Nace 2 digit level, IEA/EUROSAT/UNECE sectors

## 2.7. Sampling frame and sample characteristics

Describe the type of *sampling frame* used in the collection and compilation of the statistics (e.g. list, area or multiple frames). A sampling frame is the source material or device from which a sample is drawn. Note that the sampling frame might differ from the population.

Business Register

For each survey(s) used for the compilation of the statistics, specify the *sampling design* (e.g. random, stratified, etc.). Describe the routines employed for updating the sample. Include information about the sample size, and discuss to what extent the sample covers the population (e.g. energy consumption in the sample compared to total energy use by the population).

Note that chapter 2.7: *Sample frame and sample characteristics* may overlap with chapter 3.4: *Grossing up procedures*.

This is a concentrated random sample of 3 000 establishments in NACE categories C, D and F not included in the random sample for the Material Input Statistics (Austria's around 2 000 top-selling businesses) and employing more than nine (2002 and 2004) or two employees (all following surveys) in the survey period, respectively.

## 2.8. Collection method

For each survey used for the compilation of the statistics/topic, describe how the data are collected (e.g. face-to-face, telephone, self-administered, paper and internet-based questionnaires, or administrative data and registers).

By post and electronically, that is to say, the survey forms are sent by post but the respondents have the option of obtaining and returning the questionnaire electronically by e-mail. Since 2006 a web-based questionnaire (eQuest) is available.

The questionnaires of all surveys are shown in the Annexes.

They are so straightforward and self-explanatory that no additional explanations were necessary but a covering letter explaining the purpose of the survey to the respondents was attached.

## **2.9. Survey participation/response rate**

For each survey used for the compilation of the statistics/topic, specify the average response rate, or refer to response rates for specific surveys conducted.

Participation in this voluntary survey was 57.8% or 1 733 of the 2 999 establishments contacted in 2002, 44.9% or 1 353 of the 3 013 establishments contacted in 2004, only 27.9% or 838 of the 2 989 establishments contacted in 2006, 36.3% or 1089 of the 2 999 establishments contacted in 2008 and 45.1% or 1 348 of 2987 establishments contacted in 2010. In 2008 133 or 10 % of the participants and in 2010 502 or 37% used the web questionnaire.

## **3. The statistical production process**

### **3.1. Data capture and storage**

Describe how the data is captured and stored (e.g. if the respondent replies using Internet-based questionnaire, the received data are electronically transferred to the production database. Paper questionnaire responses are keyed manually to the production database).

Manual data capture by the department and electronically submitted data

### **3.2. Data editing**

Describe the regular routines employed for detecting and correcting errors. This may include:

- Manual routines for detecting and correcting errors
- Automatic error-detection (and correction)
- Micro- and macro editing procedures
- Data validation procedures
- Outlier identification
- Processes and sources used for quality controls

Plausibility checks of the stated quantities with reference to the stated values and annual average prices.

In addition, respondents were contacted by telephone if data were implausible.

### **3.3. Imputation**

Describe the principles for imputation and the assumptions that these principles are based on.  
Note that this chapter may overlap with chapter 3.2: *Data editing* and chapter 5.2: *Accuracy*

Two-stage imputation process:

Stage 1: missing quantities or values are calculated with reference to the corresponding datum, using the average price

Stage 2: addition to the following specified required criteria of contributors selected on the basis of the following specified hierarchical distance criteria:

| <b>Required criteria</b> | <b>Distance criteria (hierarchical)</b> |
|--------------------------|---|
| One heating fuel         | Land, NACE, number of employees         |
| Electricity              | NACE, number of employees               |

### **3.4. Grossing up procedures**

Describe how the population is divided into strata and what statistical models the estimations in the strata are based on. Describe how sub-indices are combined into aggregate indices and how uncertainty is estimated.

Free projection by weighting the individual cases according to their share of the universe broken down by 13 sectors at national level.

### **3.5. Analytical methods**

Give a description of any analytical methods used to adjust the data (e.g.: seasonal adjustment and temperature adjustment). A more detailed description of the analytical method can also be included as an annex.

In case of updating fuels use for space heating an extrapolation with heating degree days is done.

## **4. Dissemination**

### **4.1. Publications and additional documentation**

Describe the form of dissemination of the statistics/topics in question (e.g. printed publications, website, etc.). Please provide relevant website link(s) if available.

The information is published in the context of Energy Balances (Laender and Austria) and Energy Accounts (Austria). In view of the specific nature of the survey independent publication does not appear useful

Give a complete reference to publicly available statistics databases where data from the statistics can be extracted. Include web addresses if available online.

Not relevant

Indicate whether you charge users for access to the statistics at any level of aggregation.

Not relevant

### **4.2. Revisions**

Describe the current revision policies. E.g.: Is historical data revised when new methodology, new definitions, new classifications etc. are taken into use? Is the data continuously revised, or is the data revised at certain points in time (e.g. every third year, annually, etc.)?

Not relevant

If applicable, describe any major conceptual or methodological revisions that have been carried out for this statistic/topic in the past.

Not relevant

### **4.3. Microdata**

Describe how microdata are stored.

As excel files

Specify if microdata are available for scientific and/or public use. If so, describe under what conditions these are made available.

Not relevant

#### 4.4. Confidentiality

Describe the legal authority that regulates confidentiality, and what restrictions are applied to the publication of the statistics.

Not relevant

Describe the criteria used to suppress sensitive data in statistical tables (cell suppression).

Not relevant

Describe how confidential data are handled.

Not relevant

Describe any confidentiality standards that go beyond what is legally required.

Not relevant

### 5. Quality

#### 5.1. Relevance

State to which degree the statistical information meet the real needs of clients/users.

The main purpose of the survey is to improve the quality of Energy Balances and the Energy Accounts

#### 5.2. Accuracy

State the closeness of computations or estimates to the exact or true values that the statistics were intended to measure.

Whereas the sampling error is within acceptable limits for the producing sector as a whole, the uncertainty with respect to individual energy sources in some sectors is very high. This is due to the high variance in the energy source quantities consumed in combination with low numbers of cases. Due to the already relatively large sample size of nearly 30% (2002 & 2004) or 10% (2006-2010) of the universe, the only way to improve the sectoral structure is full coverage combined with more intensive respondent follow-up in order to improve the response rate. However, due to cost considerations this is currently not realistic. The primary aim of showing energy consumption by small and medium-sized establishments in the producing sector with sufficient accuracy has already been achieved.

Greater expenditure would be justified only in the case of the energy sources recorded exclusively in terms of consumption (fuel wood and solid biofuels), as this elicitation impacts upon the total supply of these energy sources in the Energy Balances and Energy Accounts. As regards fossil energy sources and also electricity and district heat, the sectoral fuzziness does not affect the total supply documented in the Energy Balances and Energy Accounts.

For sampling errors see tables 6 a-e in the annexed document

#### **Measurement and processing errors**

Discuss the measurement and processing errors that are relevant for the statistics. Try as far as possible to give an estimation of the size and scope of the errors.

None known

#### **Non-response errors**

State the size of the unit non-response and the item non-response, distributed by important variables in the population (e.g. region, industry). Consider if the non-response errors are systematic, and if so, describe the methods used to correct it. Indicate whether the effects of correcting non-response errors on the results have been analysed, and, if so, describe them.

42.2% (2002), 55.1% (2004), 82.1% (2006), 63.7% (2008) and 54.9% (2010) Unit Non Response.

Item Non Response is not relevant; firstly because missing individual data were calculated with the corresponding datum (quantity-value data pairs) with the respective average price and – secondly – missing required criteria were imputed.

#### **Sampling errors**

Discuss the size of the sampling errors. Compare the population and sample with regards to important properties (e.g. coefficient of variance).

No effects of the sample are observable, the representativeness is high.

#### **Other sources of error**

Discuss other sources of errors that might be relevant for the statistics. E.g.: Model assumption errors, coverage errors

Concentration of imputed cases with the average prices used is likely. Changes in the fuel consumption structure are underestimated potentially because of the extrapolation methodology (see Analytical methods)

### **5.3. Timeliness and punctuality**

Specify the time between the end of the reference period and publication.

If the statistics are published both as preliminary and final figures, specify the time between publication of preliminary and final figures. You should also point out whether the publication date is set according to certain rules (e.g. advance release calendar, a specific day or prior to other publications).

The results are available for the final Energy Balances of the respective year under review (current year under review 2012).

Point out if there have been any major discrepancies between the planned publication date and the actual publication date in recent years. If so, state the length of this discrepancy and its cause.

Not relevant

### **5.4. Accessibility**

Describe how easily accessible the statistics are. In particular, is there an advance release calendar to inform the users about when and where the data will be available and how to access them?

Are metadata and other user support services easily available? Are there particular groups that don't have access to the published statistics (e.g.: visually disadvantaged)?

Not relevant

## 5.5. Comparability

Discuss the comparability of the statistics over time, geographical areas and other domains.

### Comparability over time

Discuss comparability over time and include information about whether there have been any breaks in the time series of the statistics and why. Also describe any major changes in the statistical methodology that may have had an impact on comparability over time.

In those cases where the universe of a sector in a Land contains only a small number of establishments, breaks in the time sequence occur in some instances when there are minor changes within a sector when incorporating the results for the two surveys conducted in 2002 and 2004. The main reason for this is that certain establishments are no longer active or are active again or active for the first time and are therefore disregarded or taken into account for the first time, respectively in the projection.

The comparability between 2006 and former years is problematically in case of exclusive use of the sample survey. Due to the low response rate in 2006 the results in several sectors differ widely in fuels used and quantities consumed compared to results from 2002 and 2004. To smooth the resulting breaks in time series in the energy balances the fuel consumption of the establishments which reported data of high quality in 2004 and were extant in 2006 was estimated by assuming a constant consumption structure. In case of fuels use for space heating the extrapolation was done with heating degree days. In case of all other purposes it was done with the relation of sectoral consumption patterns between 2004 and 2006.

Since 2008 the respondence rate increases slowly but the 2006 implemented methodology is applied again because it improves the results significantly.

### Comparability over region

Discuss comparability over geographical areas, and include information about whether the statistics are comparable to relevant statistics published by other countries and/or international organisations.

Spatial comparability (sectoral and with regard to the energy sources included) with other EU or IEA member states (in the context of energy balances) is fulfilled.

### Comparability over other domains

Discuss comparability over domains, and include information about whether the statistics are comparable between different industries, different types of households etc.

Not relevant

## 5.6. Coherence and consistency

Discuss the coherence/consistency between preliminary and final figures.

Not relevant

Discuss the coherence/consistency between monthly, quarterly or yearly statistics within the same subject area. Can the results of different frequencies for the same reference period be combined in a reliable manner?

Not relevant

Discuss the coherence/consistency with other related statistics (also those produced by other institutions/organisations on the same subject).

Coherence with comparable primary statistics used as data sources for Energy Balances (Material Input Statistics, Sample Survey on Energy Consumption in the Service Sector, Sample Survey on Energy Consumption of Households and Useful Energy Analysis) is fulfilled.

## 6. Future plans

Are there any current or emerging issues that will need to be addressed in the future? These could include gaps in collection, timeliness issues, data quality concerns, funding risks, confidentiality concerns, simplifications to reduce respondents' burden etc.?

To save resources a reduction of survey frequency from two to four years is discussed for the future.

## Annexes

# Standard documentation Meta information

(Definitions, explanations, methods, quality)

on the Random Sample Surveys

## Energy Consumption of Small to Medium-sized Establishments in Manufacturing Industries and construction

This documentation is valid as of the reporting periods:

2002 - 2010

Status: February 2012



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## **Executive Summary**

The survey on Energy Consumption of Small to Medium-sized Establishments in the Manufacturing Industry is a primary survey to supplement the Material Input Statistics with the sole aim of improving the data basis for the Energy Balances and Energy Accounts and thus meeting the increased requirements that apply to these bodies of statistics. Due to the specific nature of this survey, which makes the results on their own not very meaningful, it is not published independently.

This statistics comprises consumption and the associated expenditure of small to medium-sized establishments in the manufacturing industry, broken down by fuels.

It is a voluntary sample survey with a sample size of 3 000 establishments which are not included in the sample of the Material Input Statistics. The data source used to define the universe is the Business Register.

The results are not published separately but as integrated part of the Energy Balances and the Energy Accounts.

| Important elements  |  |
|---|--|
| <b>Main purpose of the statistics</b>                     | Energy consumption of small to medium sized industries   |
| <b>Observed unit / reporting unit / presentation unit</b> | Establishments with more than 9 (until 2004) or more than (since 2006) respectively, that are not included in the sample of material input statistics  |
| <b>Type of statistics</b>                                 | Primary statistics   |
| <b>Data sources/Survey techniques</b>                     | Sample survey with a sample size of 3000 establishments, drawn from the enterprise register  |
| <b>Reference period or due day</b>                        | Even numbered years (2002, 2004, 2006, 2008, )   |
| <b>Periodicity</b>  | Two yearly   |
| <b>Survey participation</b>                               | Voluntary survey   |
| <b>Legal bases</b>  | Five-year contracts with the Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management and the Austrian Federal Ministry of Economy, Family and Youth, Federal Statistics Act 2000 in the current version, Regulation (EC) No. 1099/2008 of the European Parliament and of the Council of 22 October 2008 on Energy Statistics. |
| <b>Regional breakdown</b>                                 | Laender of Austria   |
| <b>Availability of the results</b>                        | Preliminary figures: not relevant<br>Final figures: t + 4  |
| <b>Other</b>  | Residence principle  |

# 1. General Information

## 1.1 Objective and purpose, history

The aim of this voluntary survey is to record energy consumption by small to medium-sized establishments in the producing sector to supplement the obligatory Material Input Survey for improving the sectoral structure of energy consumption and expenditure on energy in the context of Energy Balances and Energy Accounts (quality assurance measure for the drawing up of Energy Balances and Energy Accounts).

The introduction of this survey was prompted by the increased requirements to be met by Energy Balances and Energy Accounts. The original aim of Energy Balances was to depict the general Austrian energy supply situation with the accuracy and timeliness necessary for political decisions of general principle and to describe the role played by energy supply within the Austrian economy (National Accounts relevance). They now have the further purposes of documenting Austria's international commitments to storing energy sources (IEA agreement) and documenting the impacts of promotional measures (such as promotion of solar energy in Salzburg, Cogeneration Directive) and political steering measures (such as the Green Electricity Act) in a great degree of detail. They also serve as the basis of calculation of Austria's Kyoto-relevant, energy-based greenhouse gas emissions (reference analysis) by the Austrian Umweltbundesamt (Austrian Environment Agency) and the EU.

Moreover, changing basic political and economic conditions, such as the liberalisation of the energy market, severely reduce the availability of data for the supply account in the context of producing the balance sheet. These need to be replaced by developing and implementing new models, essentially building on an improved data basis for the consumption side of the balance sheet.

## 1.2 Contracting entity

- [Federal Statistics Act 2000](#), as amended,
- Austrian Federal Ministry of Economics, Family and Youth (BMWFJ, formerly BMWA) and
- Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLFUW).

## 1.3 Main users

Statistics Austria, Directorate Spatial Statistics

## 1.4 Legal basis

- [Federal Statistics Act 2000](#), as amended,
- [Regulation \(EC\) No. 1099/2008](#) of the European Parliament and of the Council of 22 October 2008 on Energy Statistics.
- Five-year contracts with BMLFUW and BMWFJ

## **2. Conception and production**

### ***2.1 Statistical concepts and methodology***

#### ***2.1.1 Statistical purpose***

The statistics on Energy Consumption of Small and Medium-sized Establishments comprise energy consumption in physical and monetary units in the industry sector broken down by energy sources, namely gasoline, diesel, LPG, gas oil, fuel oil, natural gas, electricity, district heat, fuel wood and solid biofuels.

#### ***2.1.2 Observed unit / reporting unit / presentation unit***

Industrial establishments those are not included in the sample of the Material Input Statistics survey.

#### ***2.1.3 Data sources, coverage***

The data source used to define the universe is the Business Register (UR).

#### ***2.1.4 Reporting unit and respondents***

Establishments in NACE Categories C (Division 14 only), D and F with more than 9 employees (2002 and 2004) and more than 2 employees (all following surveys)

#### ***2.1.5 Survey format***

Random sample survey

#### ***2.1.6 Sample characteristics***

This is a concentrated random sample of 3 000 establishments in NACE categories C, D and F not included in the random sample for the Material Input Statistics (Austria's around 2 000 top-selling businesses) and employing more than nine (2002 and 2004) or two employees (all following surveys) in the survey period, respectively.

#### ***2.1.7 Survey techniques / data transmission***

By post and electronically, that is to say, the survey forms are sent by post but the respondents have the option of obtaining and returning the questionnaire electronically by e-mail. Since 2006 a web-based questionnaire (eQuest) is available.

#### ***2.1.8 Survey questionnaire (including explanatory notes)***

The questionnaires of all surveys are shown in the Annexes.

They are so straightforward and self-explanatory that no additional explanations were necessary but a covering letter explaining the purpose of the survey to the respondents was attached.

### **2.1.9 Survey participation**

Participation in this voluntary survey was 57.8% or 1 733 of the 2 999 establishments contacted in 2002, 44.9% or 1 353 of the 3 013 establishments contacted in 2004, only 27.9% or 838 of the 2 989 establishments contacted in 2006, 36.3% or 1089 of the 2 999 establishments contacted in 2008 and 45.1% or 1 348 of 2987 establishments contacted in 2010. In 2008 133 or 10 % of the participants and in 2010 502 or 37% used the web questionnaire.

### **2.1.10 Survey items, derived data elements, indicators (including definitions)**

Energy consumption is broken down by energy sources (gasoline, diesel, LPG, gas oil (2002 and 2004 only, 2006 included into fuel oil), fuel oil, natural gas, electricity, district heat, fuel wood and biogenic energy sources).

Except for electricity and district heat, energy source quantities could be reported in different units

- 1 or kg (gasoline, diesel, LPG, gas oil, fuel oil),
- Stacked cubic metres or kg (fuel wood and solid biofuels) and
- m<sup>3</sup> or kWh (natural gas)

and were then converted into compatible units for the purposes of the analysis with the aid of the following factors:

|                 |                  |   |           |
|-----------------|------------------|---|-----------|
| • Natural gas:  | 1 m <sup>3</sup> | = | 11.11 kWh |
| • Gasoline:     | 1000 l           | = | 745 kg    |
| • Diesel:       | 1000 l           | = | 836 kg    |
| • LPG:          | 1000 l           | = | 580 kg    |
| • Gas oil:      | 1000 l           | = | 844 kg    |
| • Fuel oil:     | 1000 l           | = | 921 kg    |
| • Wood pellets: | 1 srm            | = | 652 kg    |
| • Wood chips:   | 1 srm            | = | 350 kg    |
| • Fuelwood:     | 1fm              | = | 615 kg    |
| • Fuelwood:     | 1rm              | = | 523 kg    |
| • Fuelwood:     | 1srm             | = | 308 kg    |
| • Wood waste:   | 1fm              | = | 600 kg    |
| • Sawdust:      | 1srm             | = | 165 kg    |
| • Sawdust:      | 1fm              | = | 500 kg    |
| • Bark:         | 1srm             | = | 236 kg    |

### **2.1.11 Classifications used**

- OENACE 2003 or OENACE 2008 - classification of economic activities
- Sectoral classification of Joint IEA/ECE/EUROSTAT Questionnaires aggregated from NACE categories
- NUTS-classification for statistics on regional representation

### **2.1.12 Regional breakdown of the results**

Laender (NUTS 2, federal provinces of Austria)

## 2.2 Production of Statistics, Processing, Quality assurance measures

### 2.2.1 Data capture

Manual data capture by the Department and electronically submitted data

### 2.2.2 Coding

Coding of NACE 2-digit/3-digit/4-digit selection criterion for Sectoral Structure of Energy Balances in accordance to Table 1.

Table 1: Balance Sector– NACE Correspondence:

| <b>Balance Sector</b> | <b>NACE 2003 division</b> | <b>Group 2003</b>          | <b>NACE 2008 division</b> | <b>Group 2008</b>          | <b>Name of the sectors</b>  |
|-----------------------|---------------------------|----------------------------|---------------------------|----------------------------|---|
| I 1                   |                           | 271,272,273,<br>2751, 2752 |                           | 241,242,243,<br>2451, 2452 | Making of iron, steel and ferrous alloys and pipes, other first processing of iron and steel                                      |
| I 2                   | 24                        |                            | 20, 21                    |                            | Making of chemicals and chemical products   |
| I 3                   |                           | 274,2753,<br>2754          |                           | 244,2453,<br>2454          | Making and first processing of nonferrous metals, light metal casting, heavy metal casting  |
| I 4                   | 26                        |                            | 23                        |                            | Making and processing of glass, making of stone and earthenware   |
| I 5                   | 34, 35                    |                            | 29, 30                    |                            | Vehicle construction  |
| I 6                   | 29                        |                            | 26, 27,<br>28             |                            | Mechanical engineering  |
| I 7                   | 13,14                     |                            | 07,08                     | 099                        | Mining of ores, mining of stones and earth, other mining  |
| I 8                   | 15, 16                    |                            | 10, 11,<br>12             |                            | Production of food and semi-luxury products, beverages, tobacco processing  |
| I 9                   | 21, 22                    |                            | 17, 18                    |                            | Manufacture and processing of paper and board, publishing, printing, duplication of pre-recorded sound, picture and data carriers |
| I 10                  | 20                        |                            | 16                        |                            | Working and processing of wood (excl. furniture manufacture)  |
| I 11                  | 45                        |                            | 41, 42,<br>43             |                            | Building  |
| I 12                  | 17,18, 19                 |                            | 13, 14,<br>15             |                            | Manufacture of textiles, textile goods and clothing, leather making and processing, footwear manufacture                          |
| I 13                  | 25, 28, 30<br>- 33, 36    |                            | 22, 31,<br>32             |                            | Other producing sector  |

### **2.2.3 Editing and verification of data sources used**

Plausibility check of the stated quantities with reference to the stated values and the following average prices:

Table 2: Average (gross) prices of fuels surveyed

| <b>Fuel</b>    | <b>Unit</b>  | <b>Prices per unit</b> |             |             |             |             |
|----------------|--------------|------------------------|-------------|-------------|-------------|-------------|
|                |              | <b>2002</b>            | <b>2004</b> | <b>2006</b> | <b>2008</b> | <b>2010</b> |
| Gasoline:      | 1 litre      | € 0.90                 | € 0.94      | € 1.15      | € 1.05      | € 1,05      |
| Diesel:        | 1 litre      | € 0.75                 | € 0.82      | € 0.95      | € 1.09      | € 1,09      |
| LPG:           | 1 kg         | € 1.80                 | € 2.00      | € 1.80      | € 1.80      | € 1,80      |
| Gas oil        | 1 litre      | € 0.35                 | € 0.56      | --          | --          | --          |
| Fuel oil:      | 1 litre      | € 0.20                 | € 0.46      | € 0.67      | € 0.85      | € 0,85      |
| Natural gas:   | 1 m3         | € 0.45                 | € 0.53      | € 0.45      | € 0.54      | € 0,54      |
| Electricity:   | 1 kWh        | € 0.15                 | € 0.15      | € 0.14      | € 0.14      | € 0,14      |
| District heat: | 1 kWh        | € 0.07                 | € 0.07      | € 0.07      | € 0.06      | € 0,06      |
| Fuel wood      | 1 stacked m3 | € 30.00                | € 30.00     | --          | --          | --          |
| Fuel wood      | 1 kg         | --                     | --          | € 0.110     | € 0.15      | € 0,15      |
| Solid biofuels | 1 stacked m3 | € 15.00                | € 15.00     | --          | --          | --          |
| Solid biofuels | 1 kg         | --                     | --          | € 0.20      | --          | --          |
| Wood pellets   | 1 srm        | --                     | --          | --          | € 117.00    | € 117,00    |
| Wood chips     | 1 srm        | --                     | --          | --          | € 13.20     | € 13,20     |

In addition, respondents were contacted by telephone if data were implausible.

### **2.2.4 Imputation (where responses are missing or data incomplete)**

Two-stage imputation process:

Stage 1: missing quantities or values are calculated with reference to the corresponding datum, using the average price

Stage 2: addition to the following specified required criteria of contributors selected on the basis of the following specified hierarchical distance criteria:

| <b>Required criteria</b> | <b>Distance criteria (hierarchical)</b> |
|--------------------------|---|
| One heating fuel         | Land, NACE, number of employees         |
| Electricity              | NACE, number of employees               |

### **2.2.5 Grossing up procedures (Weighting)**

Free projection by weighting the individual cases according to their share of the universe broken down by 13 sectors (Table 3a-e) at national level.

Table 3a: Universe subdivided by sectors and Laender 2002

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I1            | 0        | 0        | 7        | 0        | 2        | 1         | 2        | 0        | 1          | 13       |
| I2            | 1        | 6        | 23       | 22       | 8        | 11        | 8        | 6        | 41         | 126      |
| I3            | 0        | 0        | 5        | 4        | 3        | 3         | 3        | 0        | 6          | 24       |
| I4            | 17       | 17       | 53       | 53       | 19       | 55        | 15       | 16       | 18         | 263      |
| I5            | 2        | 3        | 15       | 27       | 7        | 19        | 4        | 7        | 10         | 94       |
| I6            | 30       | 96       | 273      | 338      | 101      | 222       | 126      | 92       | 214        | 1 492    |

|       |     |     |       |       |     |       |     |     |       |       |
|-------|-----|-----|-------|-------|-----|-------|-----|-----|-------|-------|
| I7    | 9   | 8   | 21    | 13    | 10  | 24    | 13  | 3   | 1     | 102   |
| I8    | 39  | 67  | 237   | 260   | 87  | 135   | 101 | 55  | 75    | 1 056 |
| I9    | 14  | 17  | 57    | 59    | 29  | 58    | 36  | 30  | 114   | 414   |
| I10   | 11  | 42  | 93    | 99    | 56  | 74    | 46  | 32  | 36    | 489   |
| I11   | 184 | 312 | 864   | 662   | 306 | 582   | 396 | 222 | 659   | 4 187 |
| I12   | 6   | 13  | 39    | 69    | 17  | 29    | 25  | 96  | 39    | 333   |
| I13   | 34  | 75  | 235   | 303   | 75  | 144   | 92  | 56  | 115   | 1 129 |
| Total | 347 | 656 | 1 922 | 1 909 | 720 | 1 357 | 867 | 615 | 1 329 | 9 722 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 3b: Universe subdivided by sectors and Laender 2004

| Sector | B   | C   | L     | U     | S   | ST    | T   | V   | VIE   | A      |
|--------|-----|-----|-------|-------|-----|-------|-----|-----|-------|--------|
| I1     | 0   | 2   | 7     | 0     | 2   | 2     | 2   | 0   | 1     | 16     |
| I2     | 2   | 10  | 27    | 26    | 11  | 15    | 13  | 6   | 36    | 146    |
| I3     | 0   | 1   | 4     | 5     | 3   | 3     | 2   | 1   | 2     | 21     |
| I4     | 15  | 17  | 64    | 50    | 21  | 52    | 13  | 17  | 20    | 269    |
| I5     | 3   | 3   | 16    | 35    | 9   | 19    | 7   | 7   | 10    | 109    |
| I6     | 41  | 115 | 288   | 387   | 110 | 246   | 130 | 101 | 208   | 1 626  |
| I7     | 10  | 8   | 24    | 13    | 8   | 28    | 15  | 5   | 0     | 111    |
| I8     | 42  | 62  | 251   | 267   | 100 | 140   | 101 | 55  | 69    | 1 087  |
| I9     | 14  | 16  | 54    | 63    | 26  | 60    | 40  | 25  | 124   | 422    |
| I10    | 15  | 45  | 99    | 88    | 53  | 78    | 44  | 30  | 35    | 487    |
| I11    | 209 | 314 | 937   | 730   | 332 | 632   | 421 | 210 | 801   | 4 586  |
| I12    | 3   | 13  | 35    | 60    | 17  | 22    | 24  | 89  | 36    | 299    |
| I13    | 38  | 75  | 220   | 286   | 76  | 137   | 99  | 55  | 104   | 1 090  |
| Total  | 392 | 681 | 2 026 | 2 010 | 768 | 1 434 | 911 | 601 | 1 446 | 10 269 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 3c: Universe subdivided by sectors and Laender 2006

| Sector | B     | C     | L     | U     | S     | ST    | T     | V     | VIE   | A      |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| I1     | 0     | 2     | 8     | 1     | 2     | 3     | 1     | 0     | 3     | 20     |
| I2     | 4     | 19    | 57    | 48    | 18    | 26    | 19    | 14    | 63    | 269    |
| I3     | 0     | 2     | 7     | 10    | 5     | 4     | 4     | 3     | 6     | 42     |
| I4     | 48    | 52    | 162   | 130   | 60    | 133   | 60    | 36    | 54    | 735    |
| I5     | 7     | 7     | 38    | 50    | 15    | 33    | 19    | 18    | 23    | 210    |
| I6     | 109   | 326   | 702   | 880   | 293   | 553   | 333   | 245   | 461   | 3 902  |
| I7     | 15    | 20    | 45    | 37    | 18    | 40    | 26    | 7     | 1     | 209    |
| I8     | 154   | 174   | 679   | 670   | 214   | 388   | 274   | 170   | 167   | 2 890  |
| I9     | 21    | 51    | 148   | 116   | 74    | 125   | 93    | 47    | 329   | 1 004  |
| I10    | 44    | 130   | 302   | 353   | 165   | 258   | 199   | 126   | 80    | 1 657  |
| I11    | 656   | 1 077 | 2 803 | 2 264 | 1 195 | 2 026 | 1 530 | 789   | 2 412 | 14 752 |
| I12    | 17    | 40    | 75    | 106   | 47    | 67    | 49    | 183   | 117   | 701    |
| I13    | 115   | 280   | 669   | 725   | 288   | 555   | 410   | 219   | 391   | 3 652  |
| Total  | 1 190 | 2 180 | 5 696 | 5 390 | 2 394 | 4 211 | 3 017 | 1 857 | 4 107 | 30 041 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 3d: Universe subdivided by sectors and Laender 2008

| Sector | B    | C    | L    | U    | S    | ST   | T    | V    | VIE  | A     |
|--------|------|------|------|------|------|------|------|------|------|-------|
| I1     | 0    | 1    | 8    | 2    | 1    | 2    | 1    | 2    | 3    | 20    |
| I2     | 7    | 15   | 49   | 41   | 17   | 24   | 18   | 19   | 61   | 251   |
| I3     | 1    | 2    | 7    | 11   | 3    | 4    | 3    | 3    | 4    | 38    |
| I4     | 38   | 39   | 152  | 129  | 50   | 116  | 56   | 34   | 49   | 663   |
| I5     | 4    | 3    | 33   | 49   | 15   | 33   | 17   | 18   | 14   | 186   |
| I6     | 94   | 271  | 579  | 766  | 248  | 493  | 288  | 233  | 426  | 3398  |
| I7     | 14   | 18   | 50   | 39   | 13   | 40   | 24   | 9    | 0    | 207   |
| I8     | 150  | 158  | 653  | 659  | 216  | 387  | 258  | 168  | 173  | 2822  |
| I9     | 14   | 40   | 95   | 92   | 45   | 66   | 50   | 40   | 161  | 603   |
| I10    | 27   | 84   | 239  | 298  | 119  | 186  | 127  | 98   | 64   | 1242  |
| I11    | 559  | 924  | 2635 | 2172 | 1140 | 1801 | 1365 | 785  | 2273 | 13654 |
| I12    | 13   | 35   | 72   | 107  | 56   | 67   | 47   | 163  | 95   | 655   |
| I13    | 102  | 245  | 577  | 641  | 279  | 480  | 347  | 200  | 315  | 3186  |
| Total  | 1023 | 1835 | 5149 | 5006 | 2202 | 3699 | 2601 | 1772 | 3638 | 26925 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 3e: Universe subdivided by sectors and Laender 2010

| Sector | B     | C     | L     | U     | S     | ST    | T     | V     | VIE   | A      |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| I1     | 0     | 3     | 20    | 9     | 1     | 19    | 4     | 2     | 4     | 62     |
| I2     | 11    | 25    | 71    | 59    | 27    | 32    | 24    | 18    | 73    | 340    |
| I3     | 1     | 5     | 18    | 21    | 5     | 9     | 7     | 4     | 6     | 76     |
| I4     | 35    | 51    | 161   | 157   | 51    | 124   | 67    | 39    | 49    | 734    |
| I5     | 7     | 10    | 43    | 70    | 24    | 50    | 21    | 22    | 23    | 270    |
| I6     | 115   | 331   | 674   | 963   | 286   | 602   | 334   | 278   | 487   | 4.070  |
| I7     | 12    | 17    | 47    | 38    | 20    | 46    | 21    | 10    | 0     | 211    |
| I8     | 160   | 175   | 698   | 734   | 228   | 430   | 272   | 178   | 205   | 3.080  |
| I9     | 17    | 46    | 113   | 115   | 57    | 77    | 56    | 49    | 166   | 696    |
| I10    | 37    | 102   | 229   | 316   | 127   | 190   | 132   | 90    | 59    | 1282   |
| I11    | 564   | 888   | 2.677 | 2.305 | 1.152 | 1.912 | 1.407 | 784   | 2.532 | 14.221 |
| I12    | 16    | 36    | 68    | 117   | 60    | 76    | 55    | 161   | 95    | 684    |
| I13    | 100   | 264   | 613   | 718   | 293   | 486   | 354   | 209   | 340   | 3.377  |
| Total  | 1.075 | 1.953 | 5.432 | 5.622 | 2.331 | 4.053 | 2.754 | 1.844 | 4.039 | 29.103 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

### 2.2.6 Compilation of the final data set, (other) models and statistical estimation techniques used

Regionalisation of the projection to the Laender of Austria takes place in two stages:

1. The data reported directly in respect of a province are attributed to that province (cf. Table 4 a-e)

Table 4a: Number of respondents by Laender and sectors 2002

| Sector | B | C  | L  | U  | S  | ST | T  | V  | VIE | A   |
|--------|---|----|----|----|----|----|----|----|-----|-----|
| I1     | 0 | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0   | 1   |
| I2     | 0 | 3  | 4  | 3  | 0  | 0  | 1  | 0  | 5   | 16  |
| I3     | 0 | 0  | 1  | 0  | 1  | 0  | 1  | 0  | 2   | 5   |
| I4     | 2 | 1  | 11 | 5  | 1  | 13 | 2  | 3  | 3   | 41  |
| I5     | 1 | 0  | 3  | 1  | 0  | 2  | 0  | 1  | 1   | 9   |
| I6     | 5 | 16 | 43 | 63 | 14 | 34 | 18 | 16 | 33  | 242 |

| Sector | B  | C   | L   | U   | S   | ST  | T   | V   | VIE | A    |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| I7     | 2  | 1   | 4   | 4   | 2   | 8   | 2   | 1   | 0   | 24   |
| I8     | 8  | 17  | 43  | 55  | 18  | 16  | 13  | 9   | 12  | 191  |
| I9     | 1  | 3   | 7   | 5   | 3   | 11  | 8   | 4   | 17  | 59   |
| I10    | 3  | 6   | 17  | 18  | 8   | 21  | 11  | 6   | 8   | 98   |
| I11    | 49 | 50  | 172 | 132 | 54  | 117 | 78  | 44  | 116 | 812  |
| I12    | 0  | 2   | 5   | 7   | 1   | 6   | 5   | 14  | 2   | 42   |
| I13    | 5  | 13  | 36  | 59  | 16  | 19  | 15  | 11  | 17  | 191  |
| Total  | 76 | 112 | 347 | 352 | 118 | 247 | 154 | 109 | 216 | 1731 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 4b: Number of respondents by Laender and sectors 2004

| Sector | B  | C  | L   | U   | S   | ST  | T   | V  | VIE | A    |
|--------|----|----|-----|-----|-----|-----|-----|----|-----|------|
| I1     | 0  | 0  | 1   | 0   | 1   | 0   | 0   | 0  | 1   | 3    |
| I2     | 2  | 4  | 7   | 7   | 2   | 3   | 1   | 0  | 8   | 34   |
| I3     | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1  | 2   | 6    |
| I4     | 5  | 6  | 16  | 9   | 6   | 12  | 2   | 5  | 1   | 62   |
| I5     | 1  | 0  | 5   | 6   | 3   | 8   | 2   | 2  | 5   | 32   |
| I6     | 5  | 22 | 36  | 54  | 20  | 34  | 21  | 18 | 24  | 234  |
| I7     | 3  | 4  | 8   | 6   | 2   | 11  | 6   | 2  | 0   | 42   |
| I8     | 8  | 8  | 29  | 42  | 14  | 16  | 16  | 9  | 5   | 147  |
| I9     | 1  | 2  | 14  | 14  | 4   | 8   | 8   | 4  | 23  | 78   |
| I10    | 3  | 12 | 13  | 28  | 8   | 21  | 14  | 9  | 3   | 111  |
| I11    | 13 | 18 | 61  | 59  | 20  | 46  | 23  | 17 | 34  | 291  |
| I12    | 2  | 5  | 11  | 23  | 6   | 7   | 6   | 20 | 7   | 87   |
| I13    | 11 | 17 | 42  | 51  | 18  | 31  | 26  | 9  | 21  | 226  |
| Total  | 54 | 98 | 243 | 299 | 105 | 198 | 126 | 96 | 134 | 1353 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 4c: Number of respondents by Laender and sectors 2006

| Sector | B  | C   | L   | U   | S   | ST  | T   | V   | VIE | A    |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| I1     | 0  | 0   | 1   | 0   | 1   | 0   | 0   | 0   | 2   | 4    |
| I2     | 3  | 4   | 7   | 7   | 2   | 4   | 1   | 0   | 11  | 39   |
| I3     | 0  | 0   | 0   | 0   | 1   | 1   | 2   | 1   | 1   | 6    |
| I4     | 5  | 6   | 23  | 13  | 7   | 17  | 5   | 5   | 2   | 83   |
| I5     | 1  | 0   | 4   | 8   | 4   | 10  | 3   | 3   | 5   | 38   |
| I6     | 8  | 33  | 54  | 80  | 24  | 52  | 32  | 24  | 37  | 344  |
| I7     | 3  | 5   | 10  | 8   | 2   | 13  | 6   | 2   | 0   | 49   |
| I8     | 16 | 16  | 55  | 64  | 18  | 24  | 24  | 13  | 8   | 238  |
| I9     | 2  | 3   | 20  | 18  | 7   | 11  | 13  | 6   | 35  | 115  |
| I10    | 3  | 17  | 21  | 41  | 13  | 27  | 17  | 13  | 5   | 157  |
| I11    | 33 | 40  | 137 | 117 | 47  | 103 | 70  | 41  | 71  | 659  |
| I12    | 2  | 5   | 12  | 24  | 7   | 8   | 8   | 26  | 7   | 99   |
| I13    | 14 | 23  | 60  | 79  | 25  | 51  | 38  | 14  | 30  | 334  |
| Total  | 90 | 152 | 404 | 459 | 158 | 321 | 219 | 148 | 214 | 2165 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 4d: Number of respondents by Laender and sectors 2008

| Sector | B | C | L | U | S | ST | T | V | VIE | A |
|--------|---|---|---|---|---|----|---|---|-----|---|
| I1     | 0 | 1 | 2 | 0 | 1 | 1  | 0 | 0 | 1   | 6 |

| Sector | B  | C   | L   | U   | S   | ST  | T   | V   | VIE | A    |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| I2     | 1  | 2   | 9   | 7   | 3   | 3   | 5   | 3   | 8   | 41   |
| I3     | 0  | 0   | 1   | 1   | 0   | 0   | 2   | 0   | 1   | 5    |
| I4     | 4  | 6   | 15  | 12  | 3   | 12  | 5   | 5   | 2   | 64   |
| I5     | 0  | 0   | 4   | 6   | 2   | 4   | 3   | 0   | 1   | 20   |
| I6     | 7  | 21  | 43  | 61  | 18  | 46  | 19  | 16  | 27  | 258  |
| I7     | 4  | 3   | 8   | 7   | 3   | 8   | 5   | 1   | 0   | 39   |
| I8     | 14 | 12  | 56  | 50  | 10  | 22  | 17  | 12  | 8   | 201  |
| I9     | 2  | 5   | 7   | 6   | 6   | 7   | 5   | 3   | 7   | 48   |
| I10    | 0  | 11  | 19  | 26  | 10  | 17  | 7   | 9   | 4   | 103  |
| I11    | 23 | 43  | 128 | 96  | 53  | 87  | 73  | 36  | 78  | 617  |
| I12    | 0  | 3   | 7   | 15  | 6   | 5   | 7   | 21  | 6   | 70   |
| I13    | 5  | 14  | 42  | 63  | 16  | 33  | 27  | 9   | 18  | 227  |
| Total  | 60 | 121 | 341 | 350 | 131 | 245 | 175 | 115 | 161 | 1699 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 4e: Number of respondents by Laender and sectors 2010

| Sector | B  | C   | L   | U   | S   | ST  | T   | V   | VIE | A    |
|--------|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| I1     | 0  | 1   | 5   | 1   | 1   | 2   | 1   | 0   | 1   | 12   |
| I2     | 2  | 6   | 17  | 10  | 5   | 11  | 8   | 6   | 17  | 82   |
| I3     | 0  | 1   | 3   | 5   | 1   | 1   | 1   | 1   | 1   | 14   |
| I4     | 5  | 9   | 24  | 21  | 7   | 17  | 6   | 8   | 1   | 98   |
| I5     | 0  | 3   | 5   | 11  | 3   | 7   | 2   | 1   | 2   | 34   |
| I6     | 9  | 41  | 80  | 101 | 30  | 77  | 40  | 30  | 52  | 460  |
| I7     | 5  | 6   | 10  | 18  | 7   | 16  | 10  | 3   | 0   | 75   |
| I8     | 19 | 8   | 42  | 47  | 16  | 32  | 28  | 22  | 16  | 230  |
| I9     | 4  | 6   | 8   | 9   | 7   | 19  | 6   | 6   | 12  | 77   |
| I10    | 6  | 18  | 40  | 57  | 22  | 38  | 31  | 19  | 5   | 236  |
| I11    | 27 | 49  | 144 | 128 | 66  | 118 | 78  | 43  | 133 | 786  |
| I12    | 1  | 6   | 14  | 36  | 9   | 7   | 13  | 31  | 10  | 127  |
| I13    | 13 | 26  | 63  | 83  | 29  | 52  | 39  | 24  | 31  | 360  |
| Total  | 91 | 180 | 455 | 527 | 203 | 397 | 263 | 194 | 281 | 2591 |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

2. The consumption data projected for Austria are reduced by the reports and distributed over the Laender according to the distribution of the rest of the universe (= universe less random sample cases less unit non response cases) (Table 5 a-e)

Table 5a: Distribution of sectoral non response cases across Laender 2002 in percent

| Sector | B   | C   | L    | U    | S    | ST   | T    | V   | VIE  | A     |
|--------|-----|-----|------|------|------|------|------|-----|------|-------|
| I1     | 0.0 | 0.0 | 50.0 | 0.0  | 16.7 | 8.3  | 16.7 | 0.0 | 8.3  | 100.0 |
| I2     | 0.9 | 2.7 | 17.3 | 17.3 | 7.3  | 10.0 | 6.4  | 5.5 | 32.7 | 100.0 |
| I3     | 0.0 | 0.0 | 21.1 | 21.1 | 10.5 | 15.8 | 10.5 | 0.0 | 21.1 | 100.0 |
| I4     | 6.8 | 7.2 | 18.9 | 21.6 | 8.1  | 18.9 | 5.9  | 5.9 | 6.8  | 100.0 |
| I5     | 1.2 | 3.5 | 14.1 | 30.6 | 8.2  | 20.0 | 4.7  | 7.1 | 10.6 | 100.0 |
| I6     | 2.0 | 6.4 | 18.4 | 22.0 | 7.0  | 15.0 | 8.6  | 6.1 | 14.5 | 100.0 |
| I7     | 9.0 | 9.0 | 21.8 | 11.5 | 10.3 | 20.5 | 14.1 | 2.6 | 1.3  | 100.0 |
| I8     | 3.6 | 5.8 | 22.4 | 23.7 | 8.0  | 13.8 | 10.2 | 5.3 | 7.3  | 100.0 |
| I9     | 3.7 | 3.9 | 14.1 | 15.2 | 7.3  | 13.2 | 7.9  | 7.3 | 27.3 | 100.0 |

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I10           | 2.0      | 9.2      | 19.4     | 20.7     | 12.3     | 13.6      | 9.0      | 6.6      | 7.2        | 100.0    |
| I11           | 4.0      | 7.8      | 20.5     | 15.7     | 7.5      | 13.8      | 9.4      | 5.3      | 16.1       | 100.0    |
| I12           | 2.1      | 3.8      | 11.7     | 21.3     | 5.5      | 7.9       | 6.9      | 28.2     | 12.7       | 100.0    |
| I13           | 3.1      | 6.6      | 21.2     | 26.0     | 6.3      | 13.3      | 8.2      | 4.8      | 10.4       | 100.0    |
| Total         | 3.4      | 6.8      | 19.7     | 19.5     | 7.5      | 13.9      | 8.9      | 6.3      | 13.9       | 100.0    |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 5b: Distribution of sectoral non response cases across Laender 2004 in percent

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I1            | 0.0      | 15.4     | 46.2     | 0.0      | 7.7      | 15.4      | 15.4     | 0.0      | 0.0        | 100.0    |
| I2            | 0.0      | 5.4      | 17.9     | 17.0     | 8.0      | 10.7      | 10.7     | 5.4      | 25.0       | 100.0    |
| I3            | 0.0      | 6.7      | 26.7     | 33.3     | 13.3     | 13.3      | 6.7      | 0.0      | 0.0        | 100.0    |
| I4            | 4.8      | 5.3      | 23.2     | 19.8     | 7.2      | 19.3      | 5.3      | 5.8      | 9.2        | 100.0    |
| I5            | 2.6      | 3.9      | 14.3     | 37.7     | 7.8      | 14.3      | 6.5      | 6.5      | 6.5        | 100.0    |
| I6            | 2.6      | 6.7      | 18.1     | 23.9     | 6.5      | 15.2      | 7.8      | 6.0      | 13.2       | 100.0    |
| I7            | 10.1     | 5.8      | 23.2     | 10.1     | 8.7      | 24.6      | 13.0     | 4.3      | 0.0        | 100.0    |
| I8            | 3.6      | 5.7      | 23.6     | 23.9     | 9.1      | 13.2      | 9.0      | 4.9      | 6.8        | 100.0    |
| I9            | 3.8      | 4.1      | 11.6     | 14.2     | 6.4      | 15.1      | 9.3      | 6.1      | 29.4       | 100.0    |
| I10           | 3.2      | 8.8      | 22.9     | 16.0     | 12.0     | 15.2      | 8.0      | 5.6      | 8.5        | 100.0    |
| I11           | 4.6      | 6.9      | 20.4     | 15.6     | 7.3      | 13.6      | 9.3      | 4.5      | 17.9       | 100.0    |
| I12           | 0.5      | 3.8      | 11.3     | 17.5     | 5.2      | 7.1       | 8.5      | 32.5     | 13.7       | 100.0    |
| I13           | 3.1      | 6.7      | 20.6     | 27.2     | 6.7      | 12.3      | 8.4      | 5.3      | 9.6        | 100.0    |
| Total         | 3.8      | 6.5      | 20.0     | 19.2     | 7.4      | 13.9      | 8.8      | 5.7      | 14.7       | 100.0    |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 5c: Distribution of sectoral non response cases across Laender 2006 in percent

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I1            | 0.0      | 12.5     | 43.8     | 6.3      | 6.3      | 18.8      | 6.3      | 0.0      | 6.3        | 100.0    |
| I2            | 0.4      | 6.5      | 21.7     | 17.8     | 7.0      | 9.6       | 7.8      | 6.1      | 22.6       | 100.0    |
| I3            | 0.0      | 5.6      | 19.4     | 27.8     | 11.1     | 8.3       | 5.6      | 5.6      | 13.9       | 100.0    |
| I4            | 6.6      | 7.1      | 21.3     | 17.9     | 8.1      | 17.8      | 8.4      | 4.8      | 8.0        | 100.0    |
| I5            | 3.5      | 4.1      | 19.8     | 24.4     | 6.4      | 13.4      | 9.3      | 8.7      | 10.5       | 100.0    |
| I6            | 2.8      | 8.2      | 18.2     | 22.5     | 7.6      | 14.1      | 8.5      | 6.2      | 11.9       | 100.0    |
| I7            | 7.5      | 9.4      | 21.9     | 18.1     | 10.0     | 16.9      | 12.5     | 3.1      | 0.6        | 100.0    |
| I8            | 5.2      | 6.0      | 23.5     | 22.9     | 7.4      | 13.7      | 9.4      | 5.9      | 6.0        | 100.0    |
| I9            | 2.1      | 5.4      | 14.4     | 11.0     | 7.5      | 12.8      | 9.0      | 4.6      | 33.1       | 100.0    |
| I10           | 2.7      | 7.5      | 18.7     | 20.8     | 10.1     | 15.4      | 12.1     | 7.5      | 5.0        | 100.0    |
| I11           | 4.4      | 7.4      | 18.9     | 15.2     | 8.1      | 13.6      | 10.4     | 6.3      | 16.6       | 100.0    |
| I12           | 2.5      | 5.8      | 10.5     | 13.6     | 6.6      | 9.8       | 6.8      | 26.1     | 18.3       | 100.0    |
| I13           | 3.0      | 7.7      | 18.4     | 19.5     | 7.9      | 15.2      | 11.2     | 6.2      | 10.9       | 100.0    |
| Total         | 3.9      | 7.3      | 19.0     | 17.7     | 8.0      | 14.0      | 10.0     | 6.1      | 14.0       | 100.0    |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 5d: Distribution of sectoral non response cases across Laender 2008 in percent

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I1            | 0.0      | 0.0      | 42.9     | 14.3     | 0.0      | 7.1       | 7.1      | 14.3     | 14.3       | 100.0    |

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I2            | 2.9      | 6.2      | 19.0     | 16.2     | 6.7      | 10.0      | 6.2      | 7.6      | 25.2       | 100.0    |
| I3            | 3.0      | 6.1      | 18.2     | 30.3     | 9.1      | 12.1      | 3.0      | 9.1      | 9.1        | 100.0    |
| I4            | 5.7      | 5.5      | 22.9     | 19.5     | 7.8      | 17.4      | 8.5      | 4.8      | 7.8        | 100.0    |
| I5            | 2.4      | 1.8      | 17.5     | 25.9     | 7.8      | 17.5      | 8.4      | 10.8     | 7.8        | 100.0    |
| I6            | 2.8      | 8.0      | 17.1     | 22.5     | 7.3      | 14.2      | 8.6      | 6.9      | 12.7       | 100.0    |
| I7            | 6.0      | 8.9      | 25.0     | 19.0     | 6.0      | 19.0      | 11.3     | 4.8      | 0.0        | 100.0    |
| I8            | 5.2      | 5.6      | 22.8     | 23.2     | 7.9      | 13.9      | 9.2      | 6.0      | 6.3        | 100.0    |
| I9            | 2.2      | 6.3      | 15.9     | 15.5     | 7.0      | 10.6      | 8.1      | 6.7      | 27.7       | 100.0    |
| I10           | 2.4      | 6.4      | 19.3     | 23.9     | 9.6      | 14.8      | 10.5     | 7.8      | 5.3        | 100.0    |
| I11           | 4.1      | 6.8      | 19.2     | 15.9     | 8.3      | 13.1      | 9.9      | 5.7      | 16.8       | 100.0    |
| I12           | 2.2      | 5.5      | 11.1     | 15.7     | 8.5      | 10.6      | 6.8      | 24.3     | 15.2       | 100.0    |
| I13           | 3.3      | 7.8      | 18.1     | 19.5     | 8.9      | 15.1      | 10.8     | 6.5      | 10.0       | 100.0    |
| Total         | 3.8      | 6.8      | 19.1     | 18.5     | 8.2      | 13.7      | 9.6      | 6.6      | 13.8       | 100.0    |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

Table 5e: Distribution of sectoral non response cases across Laender 2010 in percent

| <b>Sector</b> | <b>B</b> | <b>C</b> | <b>L</b> | <b>U</b> | <b>S</b> | <b>ST</b> | <b>T</b> | <b>V</b> | <b>VIE</b> | <b>A</b> |
|---------------|----------|----------|----------|----------|----------|-----------|----------|----------|------------|----------|
| I1            | 0,0      | 4,0      | 30,0     | 16,0     | 0,0      | 34,0      | 6,0      | 4,0      | 6,0        | 100,0    |
| I2            | 3,5      | 7,4      | 20,9     | 19,0     | 8,5      | 8,1       | 6,2      | 4,7      | 21,7       | 100,0    |
| I3            | 1,6      | 6,5      | 24,2     | 25,8     | 6,5      | 12,9      | 9,7      | 4,8      | 8,1        | 100,0    |
| I4            | 4,7      | 6,6      | 21,5     | 21,4     | 6,9      | 16,8      | 9,6      | 4,9      | 7,5        | 100,0    |
| I5            | 3,0      | 3,0      | 16,1     | 25,0     | 8,9      | 18,2      | 8,1      | 8,9      | 8,9        | 100,0    |
| I6            | 2,9      | 8,0      | 16,5     | 23,9     | 7,1      | 14,5      | 8,1      | 6,9      | 12,0       | 100,0    |
| I7            | 5,1      | 8,1      | 27,2     | 14,7     | 9,6      | 22,1      | 8,1      | 5,1      | 0,0        | 100,0    |
| I8            | 4,9      | 5,9      | 23,0     | 24,1     | 7,4      | 14,0      | 8,6      | 5,5      | 6,6        | 100,0    |
| I9            | 2,1      | 6,5      | 17,0     | 17,1     | 8,1      | 9,4       | 8,1      | 6,9      | 24,9       | 100,0    |
| I10           | 3,0      | 8,0      | 18,1     | 24,8     | 10,0     | 14,5      | 9,7      | 6,8      | 5,2        | 100,0    |
| I11           | 4,0      | 6,2      | 18,9     | 16,2     | 8,1      | 13,4      | 9,9      | 5,5      | 17,9       | 100,0    |
| I12           | 2,7      | 5,4      | 9,7      | 14,5     | 9,2      | 12,4      | 7,5      | 23,3     | 15,3       | 100,0    |
| I13           | 2,9      | 7,9      | 18,2     | 21,0     | 8,8      | 14,4      | 10,4     | 6,1      | 10,2       | 100,0    |
| Total         | 3,7      | 6,7      | 18,8     | 19,2     | 8,0      | 13,8      | 9,4      | 6,2      | 14,2       | 100,0    |

B – Burgenland, C – Carinthia, L – Lower Austria, U – Upper Austria, S – Salzburg, ST – Styria, T – Tyrol, V – Vorarlberg, VIE – Vienna, A - Austria

### 2.2.7 Other quality assurance measures

Contact by telephone in the case of implausible information (active), advice and assistance by telephone with completing the questionnaire (passive).

Due to the low response rate in 2006 the results in several sectors differ widely in fuels used and quantities consumed compared to results from 2002 and 2004. To smooth the resulting breaks in time series in the Energy Balances the fuel consumption of the establishments which reported data of high quality in 2004 and were extant in 2006 was estimated by assuming a constant consumption structure. In case of fuels use for space heating the extrapolation was done with heating degree days. In case of all other purposes it was done with the relation of sectoral consumption patterns between 2004 and 2006 derived from the results of the Material Input Statistics 2004 and 2006.

Than both data sets – extrapolation from 2004 and survey 2006 – were newly weighted and grossed up jointly.

The same methodology like 2006 was applied to all subsequent surveys.

## **2.3. Publication (accessibility)**

The information is published in the context of Energy Balances (Laender and Austria) and Energy Accounts (Austria). In view of the specific nature of the survey independent publication does not appear useful.

### ***2.3.1 Preliminary results***

Not relevant

### ***2.3.2 Final results***

2 month after the closing the survey

### ***2.3.3 Revisions***

Not relevant

### ***2.3.4 Published in:***

The results are not published separately but as integrated part of the energy balances and the energy accounts.

### ***2.3.5 Treatment of confidential data***

Not relevant

## **3. Quality**

### **3.1. Relevance**

The main purpose of the survey is to improve the quality of Energy Balances and the Energy Accounts.

### **3.2. Accuracy**

#### **3.2.1. Sampling effects, representativeness**

No effects of the sample are observable, the representativeness is high.

Table 6 a-e provides a summary of the sampling errors by sectors and energy sources. In the empty cells, the number of cases is too low (<2) to calculate a sampling error. Whereas the sampling error is within acceptable limits for the producing sector as a whole, the uncertainty with respect to individual energy sources in some sectors is very high. This is due to the high variance in the energy source quantities consumed in combination with low numbers of cases. Due to the already relatively large sample size of nearly 30 (2002 & 2004) or 10 (2006) of the universe, the only way to improve the sectoral structure is full coverage combined with more intensive respondent follow-up in order to improve the response rate. However, due to cost considerations this is currently not realistic. The primary aim of showing energy consumption by small and medium-sized establishments in the producing sector with sufficient accuracy has already been achieved.

Greater expenditure would be justified only in the case of the energy sources recorded exclusively in terms of consumption (fuel wood and solid biofuels), as this elicitation impacts upon the total supply of these energy sources in the Energy Balances and Energy Accounts. As regards fossil energy sources and also electricity and district heat, the sectoral fuzziness does not affect the total supply documented in the Energy Balances and Energy Accounts.

Table 6a: Percentage sampling errors by sectors and energy sources at 95 statistical certainty 2002

| <b>Sector</b> | <b>Gasoline</b> | <b>Diesel</b> | <b>LPG</b> | <b>Gas oil</b> | <b>Fuel oil</b> | <b>Natural gas</b> | <b>Electricity</b> | <b>District heat</b> | <b>Fuel wood</b> | <b>Biofuels</b> |
|---------------|-----------------|---------------|------------|----------------|-----------------|--------------------|--------------------|----------------------|------------------|-----------------|
| I1            |                 |               |            |                |                 |                    |                    |                      |                  |                 |
| I2            | 51.29           | 38.41         |            | 61.30          | 138.79          | 56.50              | 73.04              |                      |                  |                 |
| I3            | 48.61           | 107.37        |            | 22.94          |                 |                    | 55.26              |                      |                  |                 |
| I4            | 43.27           | 58.01         |            | 55.26          | 59.02           | 69.24              | 46.81              | 49.46                |                  |                 |
| I5            | 86.02           | 44.26         |            | 121.97         | 133.79          | 43.61              | 84.30              | 87.11                |                  |                 |
| I6            | 16.60           | 17.95         | 33.79      | 23.25          | 32.09           | 53.17              | 17.00              | 28.78                | 69.11            | 137.49          |
| I7            | 69.00           | 33.72         |            | 74.45          | 75.24           |                    | 75.99              |                      | 27.73            |                 |
| I8            | 20.97           | 24.51         | 99.03      | 17.00          | 34.72           | 41.40              | 18.14              | 60.66                | 62.27            | 158.11          |
| I9            | 33.96           | 138.47        |            | 30.15          | 80.96           | 106.23             | 33.96              | 73.52                |                  |                 |
| I10           | 34.45           | 35.70         | 41.41      | 53.60          | 80.08           | 47.08              | 29.11              | 122.84               | 49.92            | 39.88           |
| I11           | 12.93           | 13.47         | 43.02      | 9.63           | 25.83           | 21.65              | 11.27              | 30.55                | 30.02            | 60.14           |
| I12           | 26.52           | 51.03         | 57.01      | 24.98          | 73.88           | 81.37              | 37.76              | 35.98                |                  |                 |
| I13           | 19.03           | 18.74         | 79.21      | 26.39          | 49.88           | 66.16              | 23.46              | 85.61                | 37.91            | 17.08           |
| Total         | 7.98            | 12.38         | 29.91      | 9.50           | 22.37           | 22.92              | 9.38               | 28.42                | 23.41            | 27.77           |

Table 6b: Percentage sampling errors by sectors and energy sources at 95 statistical certainty 2004

| <b>Sector</b> | <b>Gasoline</b> | <b>Diesel</b> | <b>LPG</b> | <b>Gas oil</b> | <b>Fuel oil</b> | <b>Natural gas</b> | <b>Electricity</b> | <b>District heat</b> | <b>Fuel wood</b> | <b>Biofuels</b> |
|---------------|-----------------|---------------|------------|----------------|-----------------|--------------------|--------------------|----------------------|------------------|-----------------|
| I1            | 59.71           | 65.10         |            | 237.89         | 220.54          | 237.89             | 50.52              |                      |                  |                 |
| I2            | 68.50           | 49.46         | 126.47     | 117.19         | 125.06          | 92.34              | 49.76              | 127.91               |                  |                 |
| I3            | 212.41          | 90.66         | 129.37     | 117.12         |                 | 212.41             | 54.10              |                      |                  |                 |
| I4            | 58.21           | 53.54         | 163.05     | 69.43          | 112.15          | 108.76             | 33.88              | 138.57               | 134.11           | 181.57          |
| I5            | 57.81           | 44.04         | 194.59     | 79.71          | 69.10           | 87.20              | 63.00              | 115.83               | 188.81           |                 |
| I6            | 28.17           | 19.15         | 82.49      | 33.69          | 38.80           | 35.85              | 21.31              | 58.38                | 176.92           | 178.24          |
| I7            | 96.07           | 31.99         |            | 96.22          | 86.04           | 176.71             | 46.48              |                      | 137.33           | 193.51          |
| I8            | 41.37           | 27.31         | 195.62     | 29.04          | 38.17           | 41.99              | 20.58              | 79.23                | 66.31            | 191.97          |
| I9            | 35.21           | 32.76         | 190.94     | 72.99          | 74.44           | 52.83              | 44.07              | 67.57                | 195.86           | 148.88          |
| I10           | 74.93           | 23.25         | 154.42     | 87.22          | 166.61          | 116.57             | 30.04              | 105.87               | 94.50            | 39.70           |
| I11           | 25.65           | 23.19         | 114.31     | 28.76          | 46.48           | 41.00              | 20.99              | 51.68                | 62.11            | 68.91           |
| I12           | 36.94           | 22.92         | 99.38      | 43.55          | 53.36           | 73.96              | 26.35              | 112.14               | 168.53           | 119.16          |
| I13           | 25.34           | 19.08         | 93.51      | 39.98          | 48.82           | 57.90              | 27.62              | 88.12                | 73.94            | 33.65           |
| Total         | 15.40           | 15.58         | 65.07      | 15.10          | 19.61           | 20.20              | 11.25              | 27.88                | 39.72            | 27.87           |

Table 6c: Percentage sampling errors by sectors and energy sources at 95 statistical certainty 2006 (including the extrapolation 2004)

| <b>Sector</b> | <b>Gasoline</b> | <b>Diesel</b> | <b>LPG</b> | <b>Gas oil</b> | <b>Fuel oil</b> | <b>Natural gas</b> | <b>Electricity</b> | <b>District heat</b> | <b>Fuel wood</b> | <b>Biofuels</b> |
|---------------|-----------------|---------------|------------|----------------|-----------------|--------------------|--------------------|----------------------|------------------|-----------------|
| I1            | 122.0           | 92.6          | 178.6      | 178.6          | 178.6           | 177.9              | 111.3              |                      |                  |                 |
| I2            | 58.4            | 56.5          | 169.8      | 102.8          | 118.6           | 76.3               | 54.1               | 120.4                | 178.6            |                 |
| I3            | 126.0           | 97.9          | 156.8      | 141.5          | 178.6           | 178.6              | 118.5              | 178.6                |                  |                 |

| Sector | Gasoline | Diesel | LPG   | Gas oil | Fuel oil | Natural gas | Electricity | District heat | Fuel wood | Biofuels |
|--------|----------|--------|-------|---------|----------|-------------|-------------|---------------|-----------|----------|
| I4     | 54.3     | 38.4   | 144.1 | 47.3    | 107.9    | 63.2        | 41.5        | 132.8         | 143.5     | 118.3    |
| I5     | 37.7     | 33.4   | 123.8 | 56.9    | 60.3     | 75.0        | 47.9        | 134.2         | 166.6     | 176.3    |
| I6     | 20.1     | 15.4   | 39.7  | 26.2    | 29.6     | 29.8        | 20.5        | 42.0          | 145.1     | 98.5     |
| I7     | 95.6     | 26.5   | 143.2 | 86.4    | 104.4    | 110.9       | 32.2        |               | 111.9     | 133.4    |
| I8     | 39.4     | 21.1   | 143.5 | 24.3    | 27.5     | 42.4        | 18.6        | 115.9         | 57.7      | 153.5    |
| I9     | 30.7     | 25.9   | 151.0 | 49.6    | 57.9     | 41.4        | 34.5        | 54.4          | 131.6     | 113.0    |
| I10    | 66.2     | 27.9   | 182.0 | 138.9   | 115.9    | 87.3        | 44.4        | 89.1          | 51.7      | 73.4     |
| I11    | 23.4     | 21.1   | 36.8  | 82.3    | 21.5     | 25.5        | 63.9        | 52.0          | 77.7      | 40.5     |
| I12    | 33.8     | 24.3   | 166.2 | 33.9    | 48.9     | 96.0        | 32.6        | 113.3         | 144.6     | 76.6     |
| I13    | 24.7     | 13.9   | 72.4  | 33.1    | 37.8     | 31.5        | 22.6        | 62.5          | 50.1      | 23.6     |
| Total  | 13.9     | 14.0   | 49.9  | 29.4    | 17.7     | 22.9        | 13.2        | 28.9          | 31.8      | 60.7     |

Table 6d: Percentage sampling errors by sectors and energy sources at 95 statistical certainty 2008  
(including the extrapolation 2006)

| Sector | Gasoline | Diesel | LPG   | Fuel oil | Natural gas | Electricity | District heat | Fuel wood | Biofuels |
|--------|----------|--------|-------|----------|-------------|-------------|---------------|-----------|----------|
| I1     | 124.8    | 151.7  | 172.9 | 172.9    | 91.2        | 156.8       |               |           | 172.9    |
| I2     | 64.4     | 43.9   | 117.3 | 85.7     | 85.3        | 73.3        | 133.2         | 186.5     | 188.3    |
| I3     | 109.3    | 104.4  | 179.5 | 107.5    | 128.3       | 70.1        |               |           |          |
| I4     | 111.8    | 42.0   | 174.9 | 115.4    | 87.4        | 39.8        |               | 138.6     | 145.8    |
| I5     | 67.2     | 49.5   | 189.5 | 40.8     | 122.2       | 37.8        | 122.9         |           | 155.3    |
| I6     | 29.4     | 13.7   | 52.8  | 39.9     | 65.1        | 23.2        | 49.9          | 100.5     | 107.1    |
| I7     | 135.6    | 21.7   | 124.5 | 49.0     | 86.1        | 36.7        | 123.5         |           | 173.1    |
| I8     | 42.7     | 18.8   | 152.5 | 23.9     | 42.4        | 15.7        | 69.8          | 93.3      | 105.4    |
| I9     | 68.2     | 28.1   | 174.9 | 70.9     | 54.3        | 38.9        | 70.5          |           | 91.8     |
| I10    | 68.5     | 38.7   | 171.8 | 95.9     | 164.2       | 33.6        | 107.5         | 95.1      | 53.8     |
| I11    | 73.8     | 41.1   | 105.1 | 23.0     | 21.0        | 14.5        | 51.6          | 109.6     | 34.8     |
| I12    | 64.7     | 25.9   | 136.2 | 67.1     | 120.6       | 77.5        | 99.8          | 147.1     | 101.1    |
| I13    | 40.7     | 16.6   | 92.7  | 51.2     | 67.1        | 15.7        | 58.2          | 76.4      | 26.6     |
| Total  | 50.8     | 25.0   | 72.1  | 103.1    | 146.2       | 40.2        | 35.0          | 75.0      | 102.3    |

Table 6e: Percentage sampling errors by sectors and energy sources at 95 statistical certainty 2010  
(including the extrapolation 2008)

| Sector | Gasoline | Diesel | LPG   | Fuel oil | Natural gas | Electricity | District heat | Fuel wood | Biofuels |
|--------|----------|--------|-------|----------|-------------|-------------|---------------|-----------|----------|
| I1     | 192,5    | 189,7  | 193,3 | 158,4    | 186,6       | 106,8       |               |           | 140,8    |
| I2     | 180,1    | 125,2  | 100,9 | 145,0    | 70,6        | 85,5        | 71,1          |           | 116,5    |
| I3     | 95,9     | 53,5   | 86,5  | 90,0     | 91,5        | 89,7        |               |           |          |
| I4     | 98,4     | 76,9   | 95,0  | 80,5     | 134,5       | 31,5        | 130,6         | 192,0     | 114,8    |
| I5     | 71,7     | 14,9   | 169,5 | 143,0    | 187,9       | 139,6       | 184,5         |           | 126,2    |
| I6     | 38,3     | 21,9   | 68,0  | 39,3     | 43,3        | 24,3        | 63,8          | 105,5     | 98,9     |
| I7     | 79,8     | 47,3   | 89,7  | 38,4     | 82,1        | 103,4       | 96,5          |           | 153,6    |
| I8     | 66,6     | 33,1   | 76,5  | 38,4     | 51,5        | 19,2        | 66,9          | 140,7     | 91,0     |
| I9     | 77,6     | 54,5   | 128,3 | 94,2     | 143,8       | 45,0        | 144,9         |           | 167,5    |
| I10    | 75,4     | 45,1   | 121,8 | 132,9    | 120,5       | 27,3        | 60,9          | 108,5     | 39,5     |
| I11    | 105,0    | 32,1   | 94,6  | 33,0     | 40,4        | 17,4        | 45,0          | 92,4      | 61,9     |
| I12    | 50,3     | 31,3   | 141,5 | 58,6     | 115,0       | 35,4        | 103,9         | 169,5     | 61,6     |

| Sector | Gasoline | Diesel | LPG  | Fuel oil | Natural gas | Electricity | District heat | Fuel wood | Biofuels |
|--------|----------|--------|------|----------|-------------|-------------|---------------|-----------|----------|
| I13    | 35,5     | 17,5   | 92,2 | 46,7     | 36,9        | 32,0        | 57,3          | 69,7      | 29,8     |
| Total  | 86,9     | 25,2   | 45,7 | 23,4     | 32,0        | 13,1        | 35,3          | 56,6      | 30,4     |

### 3.2.2. Non-sampling effects

#### 3.2.2.1 Quality of data sources used

Not relevant

#### 3.2.2.2 Coverage (misclassifications, undercoverage/overcoverage)

As the comparison in Table 7 a-d shows the sectoral cover of the response cases corresponds approximately to the universe.

Table 7a: Sectoral distribution of universe, sample and response cases 2002 in percent

| Sector | Universe | Sample | Response cases |
|--------|----------|--------|----------------|
| I1     | 0.13     | 0.10   | 0.06           |
| I2     | 1.30     | 1.27   | 0.92           |
| I3     | 0.25     | 0.27   | 0.29           |
| I4     | 2.71     | 2.67   | 2.37           |
| I5     | 0.97     | 1.00   | 0.52           |
| I6     | 15.35    | 15.34  | 13.98          |
| I7     | 1.05     | 1.10   | 1.39           |
| I8     | 10.86    | 10.87  | 11.03          |
| I9     | 4.26     | 4.24   | 3.41           |
| I10    | 5.03     | 5.04   | 5.66           |
| I11    | 43.07    | 43.03  | 46.91          |
| I12    | 3.43     | 3.40   | 2.43           |
| I13    | 11.61    | 11.64  | 11.03          |
| Total  | 100.00   | 100.00 | 100.00         |

Table 7b: Sectoral distribution of universe, sample and response cases 2004 in percent

| Sector | Universe | Sample | Response cases |
|--------|----------|--------|----------------|
| I1     | 0.16     | 0.40   | 0.22           |
| I2     | 1.42     | 2.22   | 2.51           |
| I3     | 0.20     | 0.63   | 0.44           |
| I4     | 2.62     | 4.15   | 4.58           |
| I5     | 1.06     | 2.62   | 2.37           |
| I6     | 15.83    | 17.46  | 17.29          |
| I7     | 1.08     | 1.96   | 3.10           |
| I8     | 10.59    | 9.86   | 10.86          |
| I9     | 4.11     | 6.07   | 5.76           |
| I10    | 4.74     | 6.84   | 8.20           |
| I11    | 44.66    | 24.83  | 21.51          |
| I12    | 2.91     | 6.14   | 6.43           |
| I13    | 10.61    | 16.83  | 16.70          |
| Total  | 100.00   | 100.00 | 100.00         |

Table 7c: Sectoral distribution of universe, sample and response cases 2006 (including extrapolation 2004) in percent

| <b>Sector</b> | <b>Universe</b> | <b>Sample</b> | <b>Response cases</b> |
|---------------|-----------------|---------------|-----------------------|
| I1            | 0.07            | 0.00          | 0.18                  |
| I2            | 0.90            | 0.74          | 1.80                  |
| I3            | 0.14            | 0.03          | 0.28                  |
| I4            | 2.45            | 1.71          | 3.83                  |
| I5            | 0.70            | 0.57          | 1.76                  |
| I6            | 12.99           | 13.55         | 15.89                 |
| I7            | 0.70            | 1.60          | 2.26                  |
| I8            | 9.62            | 10.57         | 10.99                 |
| I9            | 3.34            | 3.88          | 5.31                  |
| I10           | 5.52            | 5.82          | 7.25                  |
| I11           | 49.11           | 48.28         | 30.44                 |
| I12           | 2.33            | 1.87          | 4.57                  |
| I13           | 12.16           | 12.41         | 15.43                 |
| Total         | 100.00          | 100.00        | 100.00                |

Table 7d: Sectoral distribution of universe, sample and response cases 2008 (including extrapolation 2006) in percent

| <b>Sector</b> | <b>Universe</b> | <b>Sample</b> | <b>Response cases</b> |
|---------------|-----------------|---------------|-----------------------|
| I1            | 0,07            | 0,30          | 0,35                  |
| I2            | 0,93            | 2,70          | 2,41                  |
| I3            | 0,14            | 0,86          | 0,29                  |
| I4            | 2,46            | 4,09          | 3,77                  |
| I5            | 0,69            | 2,21          | 1,18                  |
| I6            | 12,62           | 21,72         | 15,19                 |
| I7            | 0,77            | 1,88          | 2,30                  |
| I8            | 10,48           | 10,17         | 11,83                 |
| I9            | 2,24            | 3,90          | 2,83                  |
| I10           | 4,61            | 5,59          | 6,06                  |
| I11           | 50,71           | 24,87         | 36,32                 |
| I12           | 2,43            | 5,85          | 4,12                  |
| I13           | 11,83           | 15,87         | 13,36                 |
| Total         | 100,00          | 100,00        | 100,00                |

Table 7e: Sectoral distribution of universe, sample and response cases 2010 (including extrapolation 2008) in percent

| <b>Sector</b> | <b>Universe</b> | <b>Sample</b> | <b>Response cases</b> |
|---------------|-----------------|---------------|-----------------------|
| I1            | 0,21            | 0,40          | 0,46                  |
| I2            | 1,17            | 2,36          | 3,16                  |
| I3            | 0,26            | 0,58          | 0,54                  |
| I4            | 2,52            | 3,23          | 3,78                  |
| I5            | 0,93            | 1,52          | 1,31                  |
| I6            | 13,98           | 14,57         | 17,75                 |
| I7            | 0,73            | 1,52          | 2,89                  |
| I8            | 10,58           | 9,39          | 8,88                  |
| I9            | 2,39            | 3,12          | 2,97                  |
| I10           | 4,41            | 18,12         | 9,11                  |
| I11           | 48,86           | 27,65         | 30,34                 |

| <b>Sector</b> | <b>Universe</b> | <b>Sample</b> | <b>Respondence cases</b> |
|---------------|-----------------|---------------|--------------------------|
| I12           | 2,35            | 4,64          | 4,90                     |
| I13           | 11,60           | 12,90         | 13,89                    |
| Total         | 100,00          | 100,00        | 100,00                   |

### **3.2.2.3 Missing responses (unit non-response, item non-response)**

42.2% (2002), 55.1% (2004), 82.1% (2006), 63.7% (2008) and 54.9% (2010) Unit Non Response. Item Non Response is not relevant; firstly because missing individual data were calculated with the corresponding datum (quantity-value data pairs) with the respective average price and – secondly - missing required criteria were imputed.

### **3.2.2.4 Measurement errors (entry errors)**

None known

### **3.2.2.5 Processing errors**

None known

### **3.2.2.6 Model assumption effects**

Concentration of imputed cases with the average prices used is likely. Changes in the fuel consumption structure are underestimated potentially because of the extrapolation 2004 (see chapter other quality measures)

## **3.3. Timeliness and punctuality**

The results are available for the final Energy Balances of the respective year under review (current year under review 2012).

## **3.4. Comparability**

### **3.4.1 Comparability over time**

In those cases where the universe of a sector in a Land contains only a small number of establishments, breaks in the time sequence occur in some instances when there are minor changes within a sector when incorporating the results for the two surveys conducted in 2002 and 2004. The main reason for this is that certain establishments are no longer active or are active again or active for the first time and are therefore disregarded or taken into account for the first time, respectively in the projection.

The comparability between 2006 and former years is problematically in case of exclusive use of the sample survey. Due to the low response rate in 2006 the results in several sectors differ widely in fuels used and quantities consumed compared to results from 2002 and 2004. To smooth the resulting breaks in time series in the energy balances the fuel consumption of the establishments which reported data of high quality in 2004 and were extant in 2006 was estimated by assuming a constant consumption structure. In case of fuels use for space heating the extrapolation was done with heating degree days. In case of all other purposes it was done with the relation of sectoral consumption patterns between 2004 and 2006.

Since 2008 the respondence rate increases slowly but the 2006 implemented methodology is applied again because it improves the results significantly.

### **3.4.2 International and regional comparability**

Spatial comparability (sectoral and with regard to the energy sources included) with other EU or IEA member states (in the context of energy balances) is fulfilled.

### **3.4.3 Comparability over other domains**

Not relevant

## **3.5. Coherence**

Coherence with comparable primary statistics used as data sources for Energy Balances (Material Input Statistics. Sample Survey on Energy Consumption in the Service Sector, Sample Survey on Energy Consumption of Households and Useful Energy Analysis) is fulfilled.

## **4. Outlook**

To save resources a reduction of survey frequency from two to four years is discussed for the future.

## **Reference to supplementary documentation/publications**

- Energy balances 1970 – 2009: Documentation of Methods – Quality Report. Statistics Austria. Vienna 2011

## **Annex**

- Questionnaire 2002
- Questionnaire 2004
- Questionnaire 2006
- Questionnaire 2008
- Results for 2002 by Laender. Sector and Energy Source
- Results for 2004 by Laender. Sector and Energy Source
- Results for 2006 by Laender. Sector and Energy Source
- Results for 2008 by Laender. Sector and Energy Source

## Questionnaire 2002



Establishment

Adress

Code

### Direktoriate Spatial statistics

Official in charge: Richard Riess  
Telephone: +43 (1) 711 28-7304, -7239  
Fax: +43 (1) 711 28-7323  
e-mail: richard.riess@statistik.gv.at

### Survey on energy consumption in manufacturing industries 2002

| Transport fuels                      | Unit  | Amount               | Value in €           |                          | Purposes <sup>2)</sup>   |
|--------------------------------------|---|----------------------|----------------------|--------------------------|--------------------------|
|                                      |   |                      | Car                  | others <sup>3)</sup>     |                          |
| Gasoline                             | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Diesel                               | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LPG                                  | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Other fuels used</b>              |   |                      |                      |                          |                          |
| Gasoil                               | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fuel oil                             | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| LPG                                  | litre   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Natural gas <sup>1)</sup>            | m <sup>3</sup>  | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Elektricity <sup>1)</sup>            | kWh   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| District heating <sup>1)</sup>       | kWh   | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Fuelwood                             | <input type="checkbox"/> rm <sup>2)</sup> <input type="checkbox"/> kg | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Biomass (chips, pellets, briquettes) | <input type="checkbox"/> rm <sup>2)</sup> <input type="checkbox"/> kg | <input type="text"/> | <input type="text"/> | <input type="checkbox"/> | <input type="checkbox"/> |

<sup>1)</sup> Please use your last annual bill and fill in  
the respective periods (z.B.: 10/2002 - 09/2003):

.. /20.. - .. /20..

.. /20.. - .. /20..

<sup>2)</sup> Tick appropriate

<sup>3)</sup> e.g. lightning, computing, process heat, power sets etc

<sup>4)</sup> including cooking and water heating

Thank you for attending the survey. Please submit the filled in questionnaire to Statistics Austria until

30<sup>th</sup> of January 2004  
latest

### Contact for further inquiries

Name  
Telephone  
Fax  
e-mail

## Questionnaire 2004



Establishment  
Address  
Code

**Direktoriat Spatial statistics**  
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Fax: +43 (1) 711 28-7323  
e-mail: richard.riess@statistik.gv.at

### Survey on energy consumption in manufacturing industries 2004

No of registered vehicles

No of unregistered vehicles  
(e.g., diggers, forklifts etc.)

#### Transport fuels

#### Unit

#### Amount

#### Value in € (gross-net)<sup>2)</sup>

#### Purposes<sup>3)</sup>

Car      others<sup>4)</sup>—> please specify

Gasoline

litre






Diesel

litre






LPG

Kg <sup>3)</sup> litre






#### Other fuels used

#### Purposes<sup>3)</sup>

Space heating<sup>5)</sup> others<sup>4)</sup>—> please specify

Gasoil

litre






Fuel oil

litre






LPG

Kg <sup>3)</sup> litre






Natural gas<sup>1)</sup>

m<sup>3</sup>






Electricity<sup>1)</sup>

kWh






District heating<sup>1)</sup>

kWh






Fuelwood

stere <sup>3)</sup> kg






Biomass (chips, pellets,  
briquettes)

stere <sup>3)</sup> kg






Other fuels<sup>6)</sup> .....






#### heated area in m<sup>2</sup>

<sup>1)</sup>Please use your last annual bill—>Value = Overall price incl. Network and other charges

<sup>2)</sup>Delete as applicable

<sup>3)</sup> Tick appropriate

<sup>4)</sup>e.g. lightning, computing, process heat, power sets etc

<sup>5)</sup>including cooking and water heating

<sup>6)</sup>e.g. Hardcoal, lignite, coke, solar, heat pumps etc.. Please specify (also units, in case of solar m<sup>2</sup> collector area)

Thank you for attending the survey. Please submit the filled in questionnaire to Statistics Austria until

**30. September 2005**

latest

#### Contact for further inquiries

Name  
Telephone  
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e-mail

## Questionnaire 2006



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 Fax: (01) 71128-8155  
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### Survey on energy consumption in manufacturing industries 2006

|   |                      |                                  |                               |   |   |                          |  |              |                          |
|---|----------------------|----------------------------------|-------------------------------|---|---|--------------------------|--|--------------|--------------------------|
| No of registered vehicles until 3,5 t                             | <input type="text"/> | Annaly driven kilometers         | <input type="text"/>          | No of unregistered vehicles (e.g., diggers, forklifts etc.) |   | <input type="text"/>     |  |              |                          |
| above 3,5 t   | <input type="text"/> | Annaly driven kilometers         | <input type="text"/>          |   |   |                          |  |              |                          |
| <b>Transport fuels</b>  |                      | <b>Unit</b>                      | <b>Amount</b>                 | <b>Value in Euro</b>  | <b>gross<sup>1)</sup></b>                     | <b>net</b>               | <b>Purposes<sup>1)</sup></b>   |              |                          |
| Gasoline  |                      | litre                            | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> Car <input type="checkbox"/> Others <sup>2)</sup>   |              |                          |
| Diesel  |                      | litre                            | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| LPG   |                      | kg <sup>1)</sup> litre           | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Natural gas   |                      | m <sup>3</sup>                   | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| <b>Other fuels used</b>   |                      | <b>Unit</b>                      | <b>Amount</b>                 | <b>Value in Euro</b>  | <b>gross<sup>1)</sup></b>                     | <b>net</b>               | <b>Purposes<sup>1)</sup></b>   |              |                          |
| Electricity <sup>3)</sup>   |                      | kWh                              | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |              |                          |
| Natural gas <sup>3)</sup>   |                      | m <sup>3</sup> <sup>1)</sup> kWh | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| District heating <sup>3)</sup>                                    |                      | kWh                              | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Fuel oil and gas oil  |                      | kg <sup>1)</sup> litre           | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| LPG   |                      | kg <sup>1)</sup> litre           | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Pellets, Wood briquettes  |                      | kg                               | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Wood chips, bark  |                      | stere <sup>1)</sup> kg           | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Others, please specify <sup>4)</sup>                              | <input type="text"/> | (Unit)                           | <input type="text"/>          | <input type="text"/>  | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/>  |              |                          |
| Heat pumps  |                      | Installed capacity in kW         | <input type="text"/>          | Space heating   |   | <input type="checkbox"/> | Others <sup>2)</sup> <input type="checkbox"/>  |              |                          |
| Solar pannels   |                      | Surface area in m <sup>2</sup>   | <input type="text"/>          | Space heating   |   | <input type="checkbox"/> | Others <sup>2)</sup> <input type="checkbox"/>  |              |                          |
| PV pannels  |                      | Surface area in m <sup>2</sup>   | <input type="text"/>          |   |   |                          |  |              |                          |
| <b>Overall area of the establishment</b><br>(building areas only) |                      | in m <sup>2</sup>                | of which heated during winter | in m <sup>2</sup>   | and airconditioned during summer respectively |                          | in m <sup>2</sup>  |              |                          |
| <b>Mainly used heating system<sup>1)</sup></b>                    |                      | Central heating system           | <input type="checkbox"/>      | Stove   | <input type="checkbox"/>                      | Other                    | <input type="text"/>   |              |                          |
| <b>Age of the heating system<sup>1)</sup></b>                     |                      | below 5                          | <input type="checkbox"/>      | 5 until below 10  | <input type="checkbox"/>                      | 10 until below 20        | <input type="checkbox"/>   | 20 and older | <input type="checkbox"/> |

<sup>1)</sup> Tick appropriate

<sup>2)</sup> e.g. lightning, computing, process heat, power sets etc

<sup>3)</sup> Please use your last annual bill; Value = Overall price including all fees and taxes

<sup>4)</sup> e.g. hard coal, lignite coal briquettes, coke, fuel wood etc.; **please specify the unit!**

Contact for futher inquiries:

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## Questionnaire 2008



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### Survey on energy consumption in manufacturing industries 2008

|   |   |   |   |  |   |  |  |
|---|---|---|---|--|---|--|--|
| No of registered vehicles   | until 3,5 t                                     | <input type="text"/>                            | Annually driven kilometers                | <input type="text"/>                       | No of unregistered vehicles (e.g.. diggers, forklifts etc.) |  | <input type="text"/>   |
|   | above 3,5 t                                     | <input type="text"/>                            | Annually driven kilometers                | <input type="text"/>                       |   |  |  |
| <b>Transport fuels</b>  |   | <b>Unit</b>                                     | <b>Amount</b>                             | <b>Value in Euro</b>                       | <b>gross<sup>1)</sup></b>                                   | <b>net</b>   | <b>Purposes<sup>1)</sup></b>   |
| Gasoline  |   | litre   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Car <input type="checkbox"/> Others <sup>2)</sup>   |
| Diesel  |   | litre   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Car <input type="checkbox"/> Others <sup>2)</sup>   |
| LPG   |   | kg <sup>1)</sup> litre <input type="checkbox"/> | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Car <input type="checkbox"/> Others <sup>2)</sup>   |
| Natural gas   |   | m <sup>3</sup>                                  | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Car <input type="checkbox"/> Others <sup>2)</sup>   |
| <b>Other fuels used</b>   |   | <b>Unit</b>                                     | <b>Amount</b>                             | <b>Value in Euro</b>                       | <b>gross<sup>1)</sup></b>                                   | <b>net</b>   | <b>Purposes<sup>1)</sup></b>   |
| Electricity <sup>3)</sup>   |   | kWh   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| Natural gas <sup>3)</sup>   |   | kWh   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| District heating <sup>3)</sup>  |   | kWh   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| Fuel oil and gas oil  |   | litre   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| LPG   |   | kg <sup>1)</sup> litre <input type="checkbox"/> | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| Pellets   |   | stere   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| Wood chips, bark  |   | stere   | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| Others, please specify <sup>4)</sup>  | <input type="text"/>                            | (Unit)  | <input type="text"/>                      | <input type="text"/>                       | <input type="checkbox"/>                                    | <input type="checkbox"/>                             | <input type="checkbox"/> Space heating <input type="checkbox"/> Cooking, water heating <input type="checkbox"/> Others <sup>2)</sup> |
| <input type="checkbox"/> We kindly ask you to fill in amounts and/or values for at least one fuel used for space heating. If this is impossible because space heating is included in the operating costs of the rent for your premises please tick the box ahead. |   |   |   |  |   |  |  |
| Heat pumps  |   | Installed capacity in kW                        | <input type="text"/>                      |  | <input type="checkbox"/> Space heating                      | <input type="checkbox"/> Water heating               |  |
| Solar panels  |   | Surface area in m <sup>2</sup>                  | <input type="text"/>                      |  | <input type="checkbox"/> Space heating                      | <input type="checkbox"/> Water heating               |  |
| PV panels   |   | Surface area in m <sup>2</sup>                  | <input type="text"/>                      |  |   |  |  |
| <b>Overall area of the establishment</b><br>(building areas only)   | <b>in m<sup>2</sup></b>                         |   | <b>of which heated during winter</b>      | <b>in m<sup>2</sup></b>                    |   | <b>and airconditioned during summer respectively</b> | <b>in m<sup>2</sup></b>  |
| <b>Mainly used heating system<sup>1)</sup></b>  | Central heating system <input type="checkbox"/> |   | Stove <input type="checkbox"/>            | Other <input type="checkbox"/>             |   |  |  |
| <b>Age of the heating system<sup>1)</sup></b>   | below 5 <input type="checkbox"/>                |   | 5 until below 10 <input type="checkbox"/> | 10 until below 20 <input type="checkbox"/> |   | 20 and older <input type="checkbox"/>                |  |

<sup>1)</sup> Tick appropriate

<sup>2)</sup> e.g. lightning, computing, process heat, power sets etc

<sup>3)</sup> Please use your last annual bill; Value = Overall price including all fees and taxes

<sup>4)</sup> e.g. hard coal, lignite coal briquettes, coke, fuel wood etc.; please specify the unit!

Contact for further inquiries:

Name:

Telephone:

e-mail:

Fax:

## Questionnaire 2010

### Survey on energy consumption in manufacturing industries 2010

| Transport fuels  | Unit                                  | Amount                   | Value in Euro            | gross <sup>1)</sup>                     |   | Purposes <sup>1)</sup>   |                          |                          |
|--|---------------------------------------|--------------------------|--------------------------|---|---|--------------------------|--------------------------|--------------------------|
|  |                                       |                          |                          | gross <sup>1)</sup>                     | net <sup>1)</sup>                             | Car                      | Others <sup>2)</sup>     |                          |
| Gasoline   | litre                                 | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Diesel   | litre                                 | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| LPG  | (kg <sup>1)</sup> litre <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Natural gas  | kg                                    | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Other fuels used   | Unit                                  | Amount                   | Value in Euro            | gross <sup>1)</sup>                     |   | Space heating            | Purposes <sup>1)</sup>   |                          |
|  |                                       |                          |                          | gross <sup>1)</sup>                     | net <sup>1)</sup>                             |                          |                          |                          |
| Electricity <sup>3)</sup>  | kWh                                   | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Period of the latest annual electricity bill: from <input type="text"/> DD.MM.YY to <input type="text"/> DD.MM.YY  |                                       |                          |                          | OR number of days: <input type="text"/> |   |                          |                          |                          |
| Natural gas <sup>4)</sup>  | kWh                                   | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| District heating <sup>3)</sup>   | kWh                                   | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Fuel oil and gas oil   | litre                                 | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| LPG  | (kg <sup>1)</sup> litre <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Pellets, Woodbriquettes  | (kg <sup>1)</sup> stere <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Wood chips   | stere                                 | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Fuel wood  | (kg <sup>1)</sup> stere <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Waste wood   | (kg <sup>1)</sup> stere <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Wood residues <sup>4)</sup>  | (kg <sup>1)</sup> stere <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Bark   | (kg <sup>1)</sup> stere <sup>1)</sup> | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Others, please specify <sup>5)</sup>   | (unit)                                | <input type="text"/>     | <input type="text"/>     | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| We kindly ask you to fill in amounts and/or values for at least one fuel used for space heating. If this is impossible because space heating is included in the operating costs of the rent for your premises please tick the box ahead. |                                       |                          |                          |   |   |                          |                          |                          |
| Heat pumps   | Installed capacity in kW              | <input type="text"/>     | <input type="checkbox"/> | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Solar panels   | Surface area in m <sup>2</sup>        | <input type="text"/>     | <input type="checkbox"/> | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| PV panels  | Surface area in m <sup>2</sup>        | <input type="text"/>     | <input type="checkbox"/> | <input type="checkbox"/>                | <input type="checkbox"/>                      | <input type="checkbox"/> | <input type="checkbox"/> |                          |
| Overall area of the establishment<br>(building areas only)   | in m <sup>2</sup>                     | <input type="text"/>     | of which heated during   | in m <sup>2</sup>                       | and airconditioned during summer respectively | in m <sup>2</sup>        | number                   |                          |
| Mainly used heating systems<br>(number)  | Central heating                       | <input type="checkbox"/> | District heating         | <input type="checkbox"/>                | Others please specify                         | <input type="text"/>     | <input type="checkbox"/> |                          |
| Age of the heating system (number)   | below 5                               | <input type="checkbox"/> | 5 to below 10            | <input type="checkbox"/>                | 10 to below 20                                | <input type="checkbox"/> | 20 and older             | <input type="checkbox"/> |

<sup>1)</sup> Tick appropriate

<sup>2)</sup> e.g. lightning, computing, process heat, power sets etc

<sup>3)</sup> Please use your last annual bill; Value = Overall price including all fees and taxes

<sup>4)</sup> e.g. Off-cuts, shavings, sawdust

<sup>5)</sup> e.g. hard coal, lignite coal briquettes, coke, etc.; please specify the unit!

Contact for further inquiries:

Name:

Telephone:

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**Results for 2002 by Laender, Sector and Energy Source**

| Land     | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|----------|--------|------------|----------|-------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
| <b>B</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 2          | 6        | 0     | 33       | 15         | 126               | 255             | 1                 | 0           | 0          |
|          | I3     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I4     | 10         | 1 561    | 0     | 124      | 259        | 526               | 2 219           | 220               | 1           | 0          |
|          | I5     | 0          | 10       | 0     | 1        | 19         | 50                | 46              | 10                | 0           | 0          |
|          | I6     | 80         | 281      | 3     | 159      | 102        | 253               | 3 479           | 758               | 43          | 130        |
|          | I7     | 3          | 3 299    | 1     | 109      | 520        | 779               | 7 485           | 0                 | 3           | 0          |
|          | I8     | 25         | 690      | 7     | 640      | 409        | 1 409             | 11 344          | 251               | 33          | 411        |
|          | I9     | 18         | 217      | 0     | 32       | 15         | 187               | 2 907           | 1 746             | 0           | 0          |
|          | I10    | 14         | 367      | 2     | 16       | 16         | 46                | 2 607           | 241               | 812         | 4 870      |
|          | I11    | 251        | 5 620    | 13    | 409      | 184        | 1 145             | 7 143           | 784               | 268         | 758        |
|          | I12    | 7          | 28       | 0     | 42       | 130        | 594               | 871             | 62                | 3           | 7          |
|          | I13    | 34         | 287      | 2     | 78       | 114        | 233               | 4 826           | 358               | 226         | 1 229      |
| <b>C</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 14         | 30       | 1     | 107      | 51         | 488               | 1 271           | 4                 | 0           | 0          |
|          | I3     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I4     | 11         | 2 058    | 0     | 142      | 290        | 561               | 2 100           | 235               | 1           | 0          |
|          | I5     | 1          | 6        | 0     | 3        | 58         | 25                | 100             | 31                | 0           | 0          |
|          | I6     | 234        | 968      | 12    | 548      | 361        | 1 180             | 9 783           | 2 574             | 339         | 33         |
|          | I7     | 2          | 2 465    | 1     | 109      | 482        | 779               | 7 537           | 0                 | 3           | 0          |
|          | I8     | 39         | 933      | 4     | 975      | 488        | 2 081             | 12 912          | 489               | 94          | 774        |
|          | I9     | 29         | 247      | 0     | 61       | 16         | 199               | 3 617           | 2 006             | 0           | 0          |
|          | I10    | 52         | 1 634    | 32    | 58       | 57         | 66                | 11 475          | 1 178             | 3 652       | 21 229     |
|          | I11    | 472        | 9 980    | 35    | 746      | 273        | 2 131             | 12 913          | 1 791             | 456         | 1 674      |
|          | I12    | 13         | 55       | 0     | 114      | 239        | 1 090             | 1 997           | 113               | 5           | 13         |
|          | I13    | 100        | 674      | 5     | 151      | 339        | 481               | 10 315          | 764               | 455         | 2 252      |
| <b>L</b> | I1     | 1          | 21       | 0     | 0        | 0          | 0                 | 2 533           | 868               | 0           | 0          |
|          | I2     | 30         | 152      | 10    | 1 121    | 286        | 4 148             | 7 568           | 25                | 0           | 0          |
|          | I3     | 5          | 32       | 0     | 317      | 22         | 23                | 2 142           | 0                 | 0           | 0          |
|          | I4     | 40         | 3 927    | 0     | 236      | 746        | 1 678             | 6 199           | 617               | 4           | 0          |
|          | I5     | 5          | 31       | 0     | 27       | 264        | 143               | 611             | 267               | 0           | 0          |
|          | I6     | 695        | 2 733    | 30    | 1 393    | 1 109      | 2 803             | 26 393          | 8 902             | 392         | 96         |
|          | I7     | 5          | 6 276    | 2     | 392      | 1 353      | 1 892             | 20 538          | 0                 | 7           | 0          |
|          | I8     | 163        | 3 508    | 13    | 3 369    | 1 755      | 11 030            | 54 096          | 1 683             | 251         | 4 972      |
|          | I9     | 74         | 1 468    | 0     | 139      | 63         | 1 150             | 15 229          | 11 337            | 0           | 0          |
|          | I10    | 119        | 3 702    | 18    | 172      | 127        | 177               | 25 889          | 2 290             | 16 910      | 45 932     |
|          | I11    | 1 277      | 25 477   | 49    | 2 116    | 623        | 6 123             | 33 714          | 4 181             | 1 350       | 5 615      |
|          | I12    | 41         | 185      | 1     | 289      | 900        | 3 368             | 5 928           | 350               | 17          | 40         |
|          | I13    | 259        | 2 141    | 18    | 537      | 895        | 1 415             | 36 828          | 2 502             | 1 148       | 8 087      |
| <b>U</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 30         | 129      | 5     | 623      | 516        | 2 438             | 6 816           | 25                | 0           | 0          |
|          | I3     | 5          | 20       | 0     | 181      | 11         | 23                | 1 828           | 0                 | 0           | 0          |
|          | I4     | 36         | 4 264    | 0     | 266      | 894        | 2 863             | 8 546           | 705               | 2           | 0          |
|          | I5     | 7          | 60       | 0     | 28       | 506        | 215               | 880             | 304               | 0           | 0          |
|          | I6     | 1 162      | 3 277    | 37    | 1 896    | 1 209      | 3 932             | 35 742          | 9 162             | 563         | 114        |
|          | I7     | 3          | 3 437    | 1     | 141      | 630        | 1 002             | 9 109           | 0                 | 13          | 1          |
|          | I8     | 155        | 3 873    | 22    | 4 136    | 2 068      | 8 010             | 52 823          | 2 306             | 346         | 2 718      |
|          | I9     | 72         | 897      | 0     | 135      | 62         | 761               | 11 925          | 7 689             | 0           | 0          |
|          | I10    | 110        | 3 724    | 19    | 159      | 231        | 152               | 26 408          | 2 441             | 8 658       | 52 686     |
|          | I11    | 1 024      | 20 179   | 37    | 1 649    | 608        | 4 475             | 25 991          | 4 384             | 934         | 3 282      |
|          | I12    | 80         | 346      | 1     | 509      | 1 708      | 10 141            | 11 329          | 638               | 30          | 115        |
|          | I13    | 314        | 2 776    | 24    | 777      | 1 201      | 2 263             | 47 130          | 3 036             | 1 577       | 10 129     |
| <b>S</b> | I1     | 0          | 5        | 0     | 0        | 0          | 0                 | 527             | 209               | 0           | 0          |
|          | I2     | 12         | 50       | 2     | 262      | 120        | 1 005             | 2 038           | 10                | 0           | 0          |
|          | I3     | 2          | 10       | 0     | 90       | 6          | 33                | 1 410           | 0                 | 0           | 0          |
|          | I4     | 13         | 1 743    | 0     | 99       | 311        | 631               | 2 947           | 264               | 1           | 0          |
|          | I5     | 2          | 14       | 0     | 7        | 136        | 58                | 234             | 73                | 0           | 0          |
|          | I6     | 264        | 974      | 34    | 516      | 610        | 985               | 18 802          | 2 535             | 148         | 36         |
|          | I7     | 2          | 2 859    | 1     | 159      | 551        | 890               | 8 420           | 0                 | 3           | 0          |

| Lan<br>d   | Secto<br>r | Gasoline<br>t | Diesel t | LPG t | Gasoil<br>t | Fuel oil<br>t | Natural gas<br>10³m3 | Electricity<br>MWh | District heat<br>MWh | Fuel<br>wood t | Biofuels t |
|------------|------------|---------------|----------|-------|-------------|---------------|----------------------|--------------------|----------------------|----------------|------------|
|            | I8         | 55            | 1 318    | 5     | 1 329       | 532           | 2 837                | 18 136             | 649                  | 75             | 917        |
|            | I9         | 35            | 444      | 0     | 79          | 30            | 523                  | 11 274             | 3 491                | 0              | 0          |
|            | I10        | 65            | 2 197    | 11    | 82          | 76            | 89                   | 16 901             | 3 546                | 4 904          | 28 213     |
|            | I11        | 469           | 8 523    | 21    | 842         | 208           | 2 135                | 12 955             | 1 531                | 460            | 1 613      |
|            | I12        | 18            | 76       | 0     | 113         | 347           | 1 679                | 2 380              | 165                  | 8              | 19         |
|            | I13        | 80            | 649      | 5     | 144         | 262           | 420                  | 10 845             | 828                  | 618            | 2 391      |
| <b>ST</b>  | I1         | 0             | 3        | 0     | 0           | 0             | 0                    | 263                | 104                  | 0              | 0          |
|            | I2         | 17            | 69       | 3     | 361         | 165           | 1 382                | 2 802              | 14                   | 0              | 0          |
|            | I3         | 4             | 15       | 0     | 136         | 9             | 17                   | 1 371              | 0                    | 0              | 0          |
|            | I4         | 36            | 5 148    | 0     | 294         | 795           | 1 495                | 7 890              | 1 219                | 2              | 0          |
|            | I5         | 8             | 40       | 0     | 21          | 337           | 184                  | 708                | 178                  | 0              | 0          |
|            | I6         | 555           | 2 175    | 24    | 1 434       | 957           | 2 033                | 23 410             | 6 207                | 324            | 79         |
|            | I7         | 4             | 9 300    | 4     | 437         | 2 345         | 4 291                | 43 000             | 0                    | 7              | 0          |
|            | I8         | 85            | 1 997    | 8     | 1 928       | 1 004         | 4 850                | 26 608             | 1 579                | 128            | 1578       |
|            | I9         | 65            | 805      | 0     | 136         | 58            | 669                  | 11 491             | 6 912                | 0              | 0          |
|            | I10        | 87            | 2 893    | 13    | 121         | 122           | 141                  | 19 848             | 1 957                | 5 399          | 33 615     |
|            | I11        | 847           | 18 586   | 41    | 1 505       | 476           | 8 477                | 40 525             | 3 181                | 973            | 3 060      |
|            | I12        | 31            | 120      | 0     | 201         | 810           | 2 281                | 5 255              | 237                  | 11             | 27         |
|            | I13        | 153           | 1 248    | 11    | 340         | 503           | 825                  | 22 626             | 1 625                | 730            | 4 765      |
| <b>T</b>   | I1         | 0             | 5        | 0     | 0           | 0             | 0                    | 527                | 209                  | 0              | 0          |
|            | I2         | 13            | 58       | 2     | 233         | 105           | 903                  | 1 825              | 9                    | 0              | 0          |
|            | I3         | 2             | 11       | 0     | 98          | 6             | 12                   | 1 865              | 0                    | 0              | 0          |
|            | I4         | 9             | 1 165    | 0     | 68          | 744           | 456                  | 2 699              | 191                  | 1              | 0          |
|            | I5         | 1             | 8        | 0     | 4           | 78            | 33                   | 134                | 42                   | 0              | 0          |
|            | I6         | 315           | 1 151    | 19    | 681         | 480           | 1 097                | 11 656             | 3 289                | 184            | 45         |
|            | I7         | 5             | 4 172    | 1     | 177         | 836           | 1 224                | 14 116             | 0                    | 4              | 0          |
|            | I8         | 72            | 1 570    | 7     | 1 571       | 885           | 3 471                | 21 163             | 713                  | 95             | 1 185      |
|            | I9         | 47            | 511      | 0     | 101         | 52            | 385                  | 8 013              | 3 776                | 0              | 0          |
|            | I10        | 48            | 3 617    | 8     | 64          | 60            | 65                   | 33 847             | 1 055                | 3 550          | 66 320     |
|            | I11        | 659           | 12 139   | 24    | 1 100       | 339           | 2 696                | 15 876             | 2 076                | 542            | 2 042      |
|            | I12        | 27            | 144      | 1     | 192         | 446           | 1 981                | 3 961              | 206                  | 37             | 23         |
|            | I13        | 94            | 856      | 19    | 221         | 340           | 489                  | 13 593             | 1 360                | 420            | 3 248      |
| <b>V</b>   | I1         | 0             | 0        | 0     | 0           | 0             | 0                    | 0                  | 0                    | 0              | 0          |
|            | I2         | 9             | 37       | 2     | 197         | 90            | 754                  | 1 528              | 8                    | 0              | 0          |
|            | I3         | 0             | 0        | 0     | 0           | 0             | 0                    | 0                  | 0                    | 0              | 0          |
|            | I4         | 9             | 1 520    | 0     | 68          | 248           | 460                  | 2 750              | 191                  | 1              | 0          |
|            | I5         | 2             | 14       | 0     | 6           | 117           | 58                   | 252                | 63                   | 0              | 0          |
|            | I6         | 226           | 798      | 12    | 459         | 348           | 817                  | 9 290              | 2 215                | 136            | 32         |
|            | I7         | 0             | 973      | 0     | 31          | 138           | 223                  | 4 109              | 0                    | 1              | 0          |
|            | I8         | 42            | 746      | 3     | 742         | 513           | 1 865                | 14 950             | 373                  | 50             | 610        |
|            | I9         | 35            | 430      | 0     | 73          | 30            | 358                  | 5 735              | 3 491                | 0              | 0          |
|            | I10        | 40            | 1 097    | 6     | 46          | 41            | 48                   | 7 640              | 783                  | 2 644          | 15 682     |
|            | I11        | 356           | 6 565    | 25    | 563         | 160           | 1 487                | 9 811              | 1 106                | 1 029          | 2 110      |
|            | I12        | 124           | 403      | 1     | 633         | 1 863         | 8 195                | 14 493             | 1 030                | 40             | 96         |
|            | I13        | 63            | 455      | 4     | 140         | 177           | 321                  | 8 716              | 555                  | 325            | 1 674      |
| <b>VIE</b> | I1         | 0             | 3        | 0     | 0           | 0             | 0                    | 263                | 104                  | 0              | 0          |
|            | I2         | 67            | 253      | 10    | 1 187       | 542           | 4 554                | 10 004             | 67                   | 0              | 0          |
|            | I3         | 9             | 23       | 0     | 204         | 11            | 23                   | 2 683              | 0                    | 0              | 0          |
|            | I4         | 16            | 1 305    | 0     | 78          | 259           | 553                  | 2 137              | 220                  | 1              | 0          |
|            | I5         | 2             | 26       | 0     | 10          | 463           | 75                   | 742                | 94                   | 0              | 0          |
|            | I6         | 562           | 1 929    | 25    | 1 039       | 762           | 2 196                | 21 550             | 7 046                | 322            | 75         |
|            | I7         | 0             | 329      | 0     | 16          | 69            | 111                  | 1 005              | 0                    | 0              | 0          |
|            | I8         | 50            | 1 333    | 4     | 1 131       | 486           | 3 038                | 18 337             | 510                  | 68             | 835        |
|            | I9         | 149           | 1 638    | 0     | 254         | 148           | 1 465                | 24 577             | 14 577               | 0              | 0          |
|            | I10        | 47            | 1 230    | 7     | 73          | 44            | 119                  | 9 212              | 1 243                | 3 076          | 16 600     |
|            | I11        | 1 202         | 21 175   | 37    | 1 855       | 467           | 4 570                | 35 560             | 4 490                | 898            | 3 130      |
|            | I12        | 42            | 178      | 1     | 261         | 803           | 3 666                | 5 473              | 605                  | 18             | 43         |
|            | I13        | 140           | 936      | 8     | 311         | 563           | 646                  | 15 467             | 2 774                | 558            | 3 259      |
| <b>A</b>   | I1         | 2             | 37       | 0     | 0           | 0             | 0                    | 4 113              | 1 495                | 0              | 0          |
|            | I2         | 194           | 785      | 36    | 4 124       | 1 891         | 15 799               | 34 108             | 163                  | 0              | 0          |

| Land | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------|--------|------------|----------|-------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
|      | I3     | 27         | 111      | 0     | 1 025    | 65         | 132               | 11 298          | 0                 | 0           | 0          |
|      | I4     | 180        | 22 692   | 1     | 1 374    | 4 546      | 9 223             | 37 486          | 3 862             | 12          | 0          |
|      | I5     | 28         | 210      | 0     | 108      | 1 978      | 841               | 3 706           | 1 064             | 0           | 0          |
|      | I6     | 4 091      | 14 285   | 196   | 8 127    | 5 937      | 15 297            | 160 105         | 42 687            | 2 451       | 640        |
|      | I7     | 23         | 33 111   | 11    | 1 572    | 6 924      | 11 192            | 115 320         | 0                 | 41          | 3          |
|      | I8     | 685        | 15 968   | 72    | 15 821   | 8 139      | 38 591            | 230 370         | 8 553             | 1 140       | 14 000     |
|      | I9     | 525        | 6 657    | 0     | 1 009    | 472        | 5 698             | 94 769          | 55 026            | 0           | 0          |
|      | I10    | 582        | 20 462   | 117   | 792      | 773        | 902               | 153 827         | 14 734            | 49 605      | 285 145    |
|      | I11    | 6 557      | 128 242  | 282   | 10 786   | 3 338      | 33 240            | 194 490         | 23 525            | 6 908       | 23 284     |
|      | I12    | 382        | 1 536    | 5     | 2 353    | 7 247      | 32 995            | 51 688          | 3 406             | 170         | 383        |
|      | I13    | 1 238      | 10 021   | 96    | 2 698    | 4 394      | 7 093             | 170 346         | 13 802            | 6 056       | 37 035     |

S: Statistics Austria, Energy statistics. – B: Burgenland, C: Carinthia, L: Lower Austria, U: Upper Austria, S: Salzburg, ST: Styria, T: Tyrol, V: Vorarlberg, VIE: Vienna, A: Austria.

#### Results for 2004 by Laender, Sector and Energy Source

| Land     | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|----------|--------|------------|----------|-------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
| <b>B</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 8          | 10       | 0     | 0        | 0          | 534               | 3 793           | 0                 | 0           | 0          |
|          | I3     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I4     | 7          | 894      | 0     | 62       | 170        | 1 240             | 4 290           | 43                | 21          | 16         |
|          | I5     | 6          | 17       | 0     | 11       | 27         | 30                | 370             | 52                | 1           | 0          |
|          | I6     | 52         | 377      | 6     | 167      | 136        | 392               | 6 270           | 640               | 25          | 25         |
|          | I7     | 3          | 3 178    | 0     | 115      | 309        | 755               | 8 168           | 0                 | 6           | 28         |
|          | I8     | 17         | 485      | 4     | 407      | 313        | 392               | 8 818           | 249               | 57          | 114        |
|          | I9     | 21         | 70       | 0     | 15       | 34         | 77                | 2 068           | 248               | 0           | 6          |
|          | I10    | 19         | 237      | 1     | 56       | 2          | 3                 | 3 186           | 305               | 139         | 6 186      |
|          | I11    | 246        | 7 774    | 12    | 1 008    | 102        | 426               | 10 669          | 1 658             | 321         | 1 191      |
|          | I12    | 1          | 29       | 0     | 4        | 7          | 112               | 525             | 531               | 0           | 2          |
|          | I13    | 43         | 290      | 2     | 78       | 123        | 152               | 6 725           | 236               | 194         | 1 141      |
| <b>C</b> | I1     | 1          | 2        | 0     | 0        | 1          | 0                 | 3 754           | 0                 | 0           | 0          |
|          | I2     | 3          | 89       | 0     | 27       | 147        | 107               | 1 819           | 207               | 0           | 0          |
|          | I3     | 1          | 3        | 1     | 30       | 0          | 0                 | 345             | 260               | 0           | 0          |
|          | I4     | 10         | 704      | 0     | 74       | 207        | 1 407             | 4 556           | 47                | 23          | 18         |
|          | I5     | 3          | 16       | 0     | 14       | 28         | 37                | 477             | 77                | 2           | 0          |
|          | I6     | 136        | 1 114    | 17    | 397      | 483        | 857               | 18 437          | 1 679             | 66          | 66         |
|          | I7     | 15         | 2 570    | 0     | 457      | 227        | 152               | 7 256           | 0                 | 4           | 16         |
|          | I8     | 25         | 835      | 7     | 469      | 547        | 514               | 12 934          | 467               | 89          | 180        |
|          | I9     | 23         | 76       | 0     | 45       | 36         | 81                | 2 480           | 268               | 0           | 7          |
|          | I10    | 113        | 702      | 2     | 156      | 7          | 7                 | 11 899          | 838               | 572         | 19 527     |
|          | I11    | 365        | 11 184   | 18    | 1 511    | 172        | 650               | 15 952          | 2 512             | 499         | 1 536      |
|          | I12    | 9          | 23       | 1     | 50       | 67         | 236               | 1 688           | 78                | 1           | 54         |
|          | I13    | 79         | 595      | 4     | 134      | 275        | 145               | 22 792          | 557               | 263         | 2 000      |
| <b>L</b> | I1     | 4          | 7        | 0     | 0        | 4          | 0                 | 13 646          | 0                 | 0           | 0          |
|          | I2     | 15         | 272      | 1     | 58       | 559        | 723               | 5 861           | 692               | 0           | 0          |
|          | I3     | 3          | 11       | 3     | 121      | 0          | 0                 | 1 382           | 1 042             | 0           | 0          |
|          | I4     | 30         | 3 572    | 3     | 212      | 772        | 7 816             | 19 831          | 205               | 101         | 79         |
|          | I5     | 10         | 82       | 0     | 52       | 148        | 136               | 3 348           | 2 678             | 16          | 0          |
|          | I6     | 332        | 2 824    | 45    | 917      | 935        | 2 928             | 42 217          | 4 494             | 181         | 178        |
|          | I7     | 13         | 7 947    | 0     | 297      | 1 522      | 448               | 14 474          | 0                 | 38          | 65         |
|          | I8     | 116        | 3 162    | 27    | 2 169    | 1 801      | 2 442             | 53 686          | 1 341             | 281         | 742        |
|          | I9     | 90         | 277      | 0     | 83       | 110        | 340               | 7 064           | 787               | 5           | 35         |
|          | I10    | 125        | 1 617    | 6     | 411      | 17         | 19                | 23 610          | 2 793             | 1 008       | 45 711     |
|          | I11    | 1 065      | 35 721   | 50    | 4 556    | 470        | 2 186             | 48 032          | 7 778             | 1 768       | 4 720      |
|          | I12    | 25         | 87       | 0     | 120      | 406        | 808               | 6 018           | 466               | 4           | 197        |
|          | I13    | 167        | 1 912    | 5     | 429      | 886        | 512               | 39 391          | 1 719             | 912         | 6 484      |
| <b>U</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 18         | 309      | 1     | 77       | 382        | 426               | 5 559           | 657               | 0           | 0          |
|          | I3     | 4          | 14       | 4     | 151      | 0          | 0                 | 1 727           | 1 302             | 0           | 0          |

| Lan<br>d | Secto<br>r | Gasoline<br>t | Diesel t | LPG<br>t | Gasoil<br>t | Fuel oil<br>t | Natural gas<br>10³m³ | Electricity<br>MWh | District heat<br>MWh | Fuel<br>wood t | Biofuels<br>t |
|----------|------------|---------------|----------|----------|-------------|---------------|----------------------|--------------------|----------------------|----------------|---------------|
|          | I4         | 20            | 2 463    | 1        | 235         | 779           | 7 334                | 20 361             | 258                  | 99             | 67            |
|          | I5         | 32            | 202      | 0        | 137         | 345           | 507                  | 6 404              | 747                  | 17             | 0             |
|          | I6         | 429           | 3 808    | 73       | 1 239       | 1 350         | 3 324                | 61 801             | 7 779                | 277            | 433           |
|          | I7         | 4             | 3 173    | 0        | 124         | 347           | 677                  | 7 041              | 0                    | 16             | 28            |
|          | I8         | 124           | 3 771    | 28       | 2 153       | 2 105         | 2 514                | 55 617             | 1 595                | 318            | 763           |
|          | I9         | 100           | 352      | 0        | 62          | 249           | 492                  | 10 921             | 1 285                | 2              | 23            |
|          | I10        | 101           | 1 422    | 6        | 280         | 14            | 17                   | 19 989             | 1 742                | 1 130          | 35 654        |
|          | I11        | 880           | 26 336   | 39       | 3 481       | 371           | 1 538                | 46 092             | 6 496                | 1 131          | 3 621         |
|          | I12        | 61            | 201      | 1        | 264         | 440           | 1 282                | 7 383              | 594                  | 6              | 89            |
|          | I13        | 219           | 2 380    | 7        | 634         | 1 014         | 771                  | 48 004             | 3 029                | 1 119          | 9 405         |
| S        | I1         | 1             | 4        | 0        | 0           | 7             | 0                    | 2 253              | 0                    | 0              | 0             |
|          | I2         | 5             | 106      | 0        | 29          | 178           | 161                  | 2 533              | 311                  | 0              | 0             |
|          | I3         | 9             | 13       | 1        | 61          | 0             | 0                    | 3 275              | 3 126                | 0              | 0             |
|          | I4         | 7             | 1 134    | 0        | 87          | 238           | 1 980                | 6 613              | 64                   | 31             | 25            |
|          | I5         | 7             | 43       | 0        | 165         | 55            | 74                   | 1 085              | 155                  | 4              | 0             |
|          | I6         | 122           | 1 050    | 14       | 344         | 326           | 864                  | 15 810             | 1 776                | 62             | 64            |
|          | I7         | 3             | 3 184    | 0        | 157         | 224           | 167                  | 4 484              | 0                    | 6              | 24            |
|          | I8         | 44            | 1 272    | 10       | 818         | 709           | 802                  | 19 947             | 627                  | 97             | 287           |
|          | I9         | 39            | 148      | 0        | 33          | 120           | 127                  | 4 990              | 494                  | 1              | 11            |
|          | I10        | 68            | 869      | 3        | 214         | 9             | 10                   | 12 585             | 1 630                | 730            | 24 276        |
|          | I11        | 377           | 11 981   | 18       | 1 592       | 172           | 709                  | 16 916             | 3 122                | 532            | 1 607         |
|          | I12        | 10            | 37       | 0        | 69          | 142           | 340                  | 2 338              | 116                  | 2              | 18            |
|          | I13        | 53            | 597      | 3        | 152         | 287           | 178                  | 14 673             | 1 015                | 303            | 1 985         |
| ST       | I1         | 1             | 2        | 0        | 0           | 1             | 0                    | 3 754              | 0                    | 0              | 0             |
|          | I2         | 8             | 144      | 1        | 33          | 267           | 214                  | 4 053              | 731                  | 0              | 0             |
|          | I3         | 1             | 12       | 4        | 170         | 0             | 0                    | 922                | 521                  | 0              | 0             |
|          | I4         | 20            | 2 853    | 1        | 207         | 1 259         | 5 748                | 15 316             | 324                  | 83             | 66            |
|          | I5         | 30            | 105      | 0        | 80          | 149           | 194                  | 2 357              | 311                  | 7              | 0             |
|          | I6         | 281           | 2 321    | 38       | 769         | 742           | 2 274                | 40 513             | 3 954                | 147            | 150           |
|          | I7         | 10            | 9 497    | 0        | 579         | 832           | 474                  | 14 355             | 0                    | 20             | 69            |
|          | I8         | 62            | 1 880    | 15       | 1 308       | 1 072         | 1 339                | 28 935             | 976                  | 171            | 414           |
|          | I9         | 103           | 312      | 0        | 72          | 135           | 299                  | 9 944              | 1 488                | 2              | 43            |
|          | I10        | 150           | 1 531    | 11       | 832         | 30            | 37                   | 26 829             | 2 295                | 727            | 56 980        |
|          | I11        | 740           | 22 341   | 32       | 3 018       | 333           | 1 333                | 31 849             | 5 621                | 992            | 2 972         |
|          | I12        | 15            | 61       | 0        | 108         | 221           | 443                  | 3 431              | 147                  | 7              | 24            |
|          | I13        | 100           | 1 631    | 8        | 323         | 443           | 335                  | 24 064             | 1 004                | 434            | 3 876         |
| T        | I1         | 1             | 2        | 0        | 0           | 1             | 0                    | 3 754              | 0                    | 0              | 0             |
|          | I2         | 7             | 123      | 0        | 35          | 237           | 214                  | 2 661              | 415                  | 0              | 0             |
|          | I3         | 1             | 4        | 1        | 35          | 0             | 0                    | 473                | 260                  | 0              | 0             |
|          | I4         | 8             | 860      | 0        | 62          | 168           | 1 304                | 4 093              | 47                   | 23             | 18            |
|          | I5         | 6             | 30       | 0        | 29          | 46            | 65                   | 818                | 129                  | 3              | 0             |
|          | I6         | 141           | 1 190    | 23       | 402         | 443           | 1 090                | 19 737             | 2 497                | 585            | 77            |
|          | I7         | 7             | 4 384    | 0        | 155         | 414           | 256                  | 11 195             | 0                    | 8              | 36            |
|          | I8         | 46            | 1 201    | 31       | 913         | 729           | 798                  | 19 470             | 559                  | 96             | 284           |
|          | I9         | 75            | 186      | 0        | 133         | 98            | 187                  | 5 788              | 612                  | 1              | 15            |
|          | I10        | 51            | 1 010    | 2        | 157         | 15            | 7                    | 15 177             | 762                  | 809            | 51 337        |
|          | I11        | 491           | 15 254   | 30       | 2 095       | 213           | 874                  | 22 064             | 3 367                | 651            | 2 278         |
|          | I12        | 19            | 64       | 1        | 101         | 163           | 617                  | 3 419              | 177                  | 30             | 29            |
|          | I13        | 80            | 1 034    | 2        | 239         | 604           | 180                  | 18 083             | 733                  | 421            | 3 413         |
| V        | I1         | 0             | 0        | 0        | 0           | 0             | 0                    | 0                  | 0                    | 0              | 0             |
|          | I2         | 3             | 61       | 0        | 17          | 118           | 107                  | 1 316              | 207                  | 0              | 0             |
|          | I3         | 0             | 0        | 0        | 6           | 0             | 0                    | 95                 | 0                    | 0              | 0             |
|          | I4         | 14            | 696      | 0        | 129         | 212           | 2 543                | 6 202              | 51                   | 163            | 20            |
|          | I5         | 7             | 31       | 0        | 43          | 46            | 73                   | 1 066              | 129                  | 3              | 0             |
|          | I6         | 115           | 875      | 14       | 285         | 300           | 871                  | 16 663             | 1 475                | 58             | 59            |
|          | I7         | 1             | 1 367    | 0        | 49          | 116           | 84                   | 4 204              | 0                    | 3              | 198           |
|          | I8         | 27            | 691      | 6        | 461         | 498           | 644                  | 11 907             | 273                  | 52             | 756           |
|          | I9         | 43            | 154      | 0        | 31          | 65            | 135                  | 3 669              | 486                  | 1              | 10            |
|          | I10        | 40            | 481      | 2        | 103         | 4             | 5                    | 6 144              | 533                  | 474            | 14 782        |
|          | I11        | 249           | 7 302    | 11       | 998         | 110           | 418                  | 10 637             | 1 877                | 323            | 953           |

| Land       | Sector | Gasoline t | Diesel t | LPGt | Gasoil t | Fuel oil t | Natural gas 10³m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------------|--------|------------|----------|------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
|            | I12    | 93         | 202      | 2    | 394      | 563        | 3 318             | 15 748          | 677               | 11          | 111        |
|            | I13    | 49         | 395      | 4    | 111      | 237        | 116               | 11 207          | 398               | 181         | 1 424      |
| <b>VIE</b> | I1     | 1          | 4        | 0    | 0        | 0          | 482               | 3 130           | 0                 | 0           | 0          |
|            | I2     | 24         | 418      | 1    | 132      | 998        | 705               | 8 232           | 1 714             | 0           | 0          |
|            | I3     | 4          | 1        | 0    | 9        | 0          | 97                | 786             | 0                 | 0           | 0          |
|            | I4     | 9          | 995      | 0    | 80       | 290        | 2 253             | 6 228           | 81                | 41          | 49         |
|            | I5     | 14         | 56       | 0    | 43       | 46         | 194               | 1 171           | 129               | 3           | 0          |
|            | I6     | 246        | 1 955    | 30   | 598      | 609        | 2 030             | 30 640          | 5 101             | 128         | 130        |
|            | I7     | 0          | 0        | 0    | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|            | I8     | 29         | 877      | 8    | 606      | 482        | 654               | 13 605          | 380               | 73          | 214        |
|            | I9     | 209        | 575      | 0    | 127      | 263        | 834               | 17 103          | 2 150             | 3           | 48         |
|            | I10    | 51         | 549      | 2    | 148      | 6          | 8                 | 8 082           | 812               | 372         | 16 552     |
|            | I11    | 978        | 28 825   | 42   | 4 556    | 391        | 1 719             | 41 629          | 6 612             | 1 275       | 3 787      |
|            | I12    | 30         | 75       | 1    | 150      | 259        | 939               | 5 186           | 284               | 4           | 46         |
|            | I13    | 101        | 813      | 2    | 198      | 384        | 293               | 17 271          | 826               | 313         | 2 584      |
| <b>A</b>   | I1     | 9          | 20       | 0    | 0        | 15         | 482               | 30 290          | 0                 | 0           | 0          |
|            | I2     | 93         | 1 532    | 5    | 407      | 2 886      | 3 190             | 35 828          | 4 935             | 0           | 0          |
|            | I3     | 22         | 59       | 14   | 584      | 0          | 97                | 9 005           | 6 512             | 0           | 0          |
|            | I4     | 125        | 14 171   | 6    | 1 148    | 4 096      | 31 625            | 87 492          | 1 122             | 586         | 357        |
|            | I5     | 114        | 582      | 1    | 575      | 891        | 1 309             | 17 097          | 4 406             | 55          | 0          |
|            | I6     | 1 854      | 15 514   | 259  | 5 118    | 5 325      | 14 629            | 252 088         | 29 394            | 1 529       | 1 183      |
|            | I7     | 58         | 35 299   | 0    | 1 934    | 3 990      | 3 012             | 71 177          | 0                 | 101         | 465        |
|            | I8     | 491        | 14 174   | 136  | 9 303    | 8 256      | 10 099            | 224 918         | 6 468             | 1 235       | 3 754      |
|            | I9     | 704        | 2 150    | 1    | 601      | 1 110      | 2 573             | 64 026          | 7 818             | 15          | 198        |
|            | I10    | 719        | 8 416    | 34   | 2 356    | 105        | 112               | 127 502         | 11 709            | 5 961       | 271 006    |
|            | I11    | 5 392      | 166 718  | 252  | 22 816   | 2 334      | 9 853             | 243 839         | 39 042            | 7 493       | 22 665     |
|            | I12    | 263        | 778      | 7    | 1 260    | 2 269      | 8 095             | 45 736          | 3 070             | 65          | 569        |
|            | I13    | 891        | 9 649    | 37   | 2 299    | 4 252      | 2 681             | 202 210         | 9 516             | 4 140       | 32 311     |

S: Statistics Austria, Energy statistics. – B: Burgenland, C: Carinthia, L: Lower Austria, U: Upper Austria, S: Salzburg, ST: Styria, T: Tyrol, V: Vorarlberg, VIE: Vienna, A: Austria.

### Results for 2006 by Laender, Sector and Energy Source

| Land     | Sector | Gasoline t | Diesel t | LPGt | Gasoil t | Fuel oil t | Natural gas 10³m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|----------|--------|------------|----------|------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
| <b>B</b> | I1     | 0          | 0        | 0    | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I2     | 9          | 10       | 0    | 0        | 0          | 561               | 3 807           | 0                 | 0           | 0          |
|          | I3     | 0          | 0        | 0    | 0        | 0          | 0                 | 0               | 0                 | 0           | 0          |
|          | I4     | 21         | 2 051    | 163  | 175      | 418        | 3 137             | 10 094          | 93                | 69          | 15         |
|          | I5     | 12         | 34       | 1    | 41       | 46         | 61                | 927             | 200               | 2           | 10         |
|          | I6     | 99         | 924      | 70   | 345      | 307        | 940               | 15 309          | 1 556             | 87          | 138        |
|          | I7     | 5          | 3 378    | 44   | 150      | 314        | 792               | 9 481           | 0                 | 7           | 43         |
|          | I8     | 70         | 1 672    | 139  | 1 308    | 1 097      | 1 332             | 32 160          | 2 135             | 146         | 441        |
|          | I9     | 33         | 90       | 1    | 34       | 45         | 134               | 2 744           | 246               | 2           | 13         |
|          | I10    | 48         | 777      | 7    | 153      | 16         | 9                 | 9 057           | 1 171             | 647         | 18 832     |
|          | I11    | 583        | 16 323   | 44   | 1 220    | 359        | 944               | 21 025          | 4 603             | 1 172       | 2 315      |
|          | I12    | 15         | 81       | 12   | 69       | 117        | 413               | 2 637           | 697               | 4           | 33         |
|          | I13    | 98         | 795      | 8    | 189      | 231        | 283               | 14 386          | 651               | 735         | 3 096      |
| <b>C</b> | I1     | 1          | 5        | 2    | 0        | 3          | 263               | 3 242           | 0                 | 0           | 0          |
|          | I2     | 9          | 146      | 184  | 40       | 236        | 376               | 3 982           | 323               | 0           | 0          |
|          | I3     | 3          | 5        | 9    | 41       | 1          | 29                | 1 196           | 807               | 0           | 0          |
|          | I4     | 25         | 1 910    | 186  | 192      | 463        | 3 370             | 10 583          | 99                | 73          | 16         |
|          | I5     | 10         | 33       | 1    | 44       | 42         | 65                | 1 021           | 233               | 2           | 12         |
|          | I6     | 279        | 2 796    | 235  | 960      | 1 028      | 2 527             | 47 170          | 4 654             | 252         | 361        |
|          | I7     | 18         | 4 410    | 54   | 574      | 399        | 291               | 12 119          | 0                 | 8           | 53         |
|          | I8     | 78         | 2 007    | 154  | 1 402    | 1 356      | 1 414             | 36 320          | 2 514             | 163         | 505        |

| Land      | Sector | Gasoline t | Diesel t | LPGt | Gasoil t | Fuel oil t | Natural gas 10 <sup>3</sup> m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|-----------|--------|------------|----------|------|----------|------------|--------------------------------|-----------------|-------------------|-------------|------------|
|           | I9     | 68         | 219      | 2    | 114      | 113        | 312                            | 6 758           | 701               | 4           | 32         |
|           | I10    | 194        | 2 253    | 48   | 419      | 43         | 25                             | 28 786          | 3 189             | 2 016       | 56 089     |
|           | I11    | 969        | 27 291   | 72   | 2 032    | 611        | 1 586                          | 36 155          | 7 707             | 1 409       | 3 615      |
|           | I12    | 37         | 125      | 27   | 172      | 272        | 735                            | 5 528           | 340               | 9           | 114        |
|           | I13    | 226        | 1 956    | 20   | 442      | 594        | 496                            | 48 216          | 1 732             | 1 504       | 7 319      |
| <b>L</b>  | I1     | 3          | 10       | 4    | 1        | 7          | 526                            | 8 869           | 0                 | 0           | 0          |
|           | I2     | 36         | 486      | 165  | 107      | 909        | 1 716                          | 13 946          | 1 158             | 3           | 0          |
|           | I3     | 15         | 23       | 43   | 186      | 6          | 132                            | 5 380           | 3 631             | 0           | 0          |
|           | I4     | 72         | 6 498    | 581  | 510      | 1 316      | 12 568                         | 34 226          | 296               | 224         | 52         |
|           | I5     | 45         | 167      | 3    | 199      | 234        | 287                            | 5 936           | 2 777             | 19          | 51         |
|           | I6     | 604        | 6 155    | 464  | 1 994    | 1 976      | 6 623                          | 100 105         | 9 839             | 571         | 785        |
|           | I7     | 19         | 9 960    | 357  | 468      | 1 689      | 596                            | 22 099          | 0                 | 43          | 176        |
|           | I8     | 347        | 7 631    | 622  | 5 626    | 4 815      | 5 905                          | 143 782         | 9 475             | 579         | 2 045      |
|           | I9     | 213        | 683      | 7    | 270      | 315        | 1 034                          | 19 346          | 1 693             | 21          | 101        |
|           | I10    | 322        | 5 345    | 47   | 1 061    | 110        | 64                             | 63 382          | 8 777             | 4 476       | 130 845    |
|           | I11    | 2 482      | 72 968   | 198  | 5 337    | 1 583      | 4 420                          | 90 923          | 19 934            | 3 907       | 9 253      |
|           | I12    | 66         | 246      | 48   | 293      | 701        | 1 406                          | 11 302          | 837               | 15          | 307        |
|           | I13    | 488        | 4 818    | 57   | 1 125    | 1 520      | 1 252                          | 85 016          | 4 179             | 3 724       | 17 471     |
| <b>U</b>  | I1     | 2          | 9        | 4    | 1        | 7          | 526                            | 6 485           | 0                 | 0           | 0          |
|           | I2     | 33         | 450      | 128  | 109      | 594        | 1 154                          | 11 251          | 916               | 1           | 0          |
|           | I3     | 10         | 15       | 28   | 124      | 4          | 88                             | 3 587           | 2 420             | 0           | 0          |
|           | I4     | 51         | 4 927    | 441  | 502      | 1 247      | 10 802                         | 31 799          | 334               | 201         | 42         |
|           | I5     | 61         | 224      | 4    | 262      | 318        | 498                            | 7 581           | 1 233             | 11          | 115        |
|           | I6     | 727        | 7 651    | 609  | 2 622    | 2 652      | 7 244                          | 128 148         | 14 046            | 732         | 1 322      |
|           | I7     | 12         | 7 096    | 110  | 377      | 731        | 989                            | 16 721          | 0                 | 26          | 105        |
|           | I8     | 323        | 8 052    | 780  | 5 616    | 5 076      | 5 863                          | 141 945         | 9 189             | 583         | 1 978      |
|           | I9     | 159        | 549      | 5    | 197      | 368        | 852                            | 16 818          | 1 620             | 9           | 65         |
|           | I10    | 367        | 6 528    | 51   | 1 153    | 124        | 74                             | 73 110          | 9 038             | 5 471       | 146 912    |
|           | I11    | 2 050      | 57 379   | 171  | 4 300    | 1 287      | 3 315                          | 82 593          | 16 948            | 2 916       | 7 398      |
|           | I12    | 109        | 405      | 67   | 485      | 770        | 1 905                          | 14 000          | 1 028             | 20          | 216        |
|           | I13    | 532        | 5 217    | 56   | 1 311    | 1 534      | 1 524                          | 88 347          | 5 348             | 4 129       | 19 776     |
| <b>S</b>  | I1     | 1          | 8        | 6    | 0        | 10         | 263                            | 3 619           | 0                 | 0           | 0          |
|           | I2     | 10         | 142      | 49   | 36       | 225        | 408                            | 4 328           | 350               | 1           | 0          |
|           | I3     | 12         | 15       | 14   | 62       | 2          | 44                             | 4 378           | 3 810             | 0           | 0          |
|           | I4     | 22         | 2 387    | 530  | 256      | 526        | 3 935                          | 13 339          | 113               | 84          | 19         |
|           | I5     | 18         | 67       | 1    | 212      | 70         | 102                            | 2 027           | 367               | 3           | 18         |
|           | I6     | 244        | 2 535    | 227  | 808      | 801        | 2 372                          | 40 544          | 4 455             | 231         | 326        |
|           | I7     | 7          | 4 811    | 64   | 275      | 380        | 297                            | 9 002           | 0                 | 10          | 62         |
|           | I8     | 102        | 2 449    | 191  | 1 770    | 1 541      | 1 737                          | 44 543          | 3 000             | 168         | 626        |
|           | I9     | 99         | 352      | 3    | 142      | 233        | 437                            | 10 718          | 952               | 6           | 44         |
|           | I10    | 185        | 3 120    | 25   | 624      | 98         | 34                             | 35 836          | 6 879             | 2 894       | 72 164     |
|           | I11    | 1 066      | 30 513   | 83   | 2 294    | 709        | 1 724                          | 38 835          | 10 394            | 1 547       | 3 977      |
|           | I12    | 39         | 152      | 33   | 216      | 374        | 852                            | 6 471           | 395               | 10          | 83         |
|           | I13    | 209        | 1 978    | 27   | 469      | 617        | 544                            | 37 017          | 2 235             | 1 845       | 7 202      |
| <b>ST</b> | I1     | 2          | 7        | 3    | 1        | 5          | 395                            | 4 864           | 0                 | 0           | 0          |
|           | I2     | 15         | 202      | 69   | 45       | 341        | 565                            | 6 659           | 796               | 1           | 0          |
|           | I3     | 5          | 14       | 41   | 170      | 2          | 44                             | 2 024           | 1 210             | 0           | 0          |
|           | I4     | 52         | 5 904    | 435  | 477      | 1 724      | 9 226                          | 26 875          | 399               | 203         | 60         |
|           | I5     | 57         | 150      | 7    | 174      | 182        | 252                            | 3 836           | 727               | 6           | 35         |
|           | I6     | 468        | 4 789    | 408  | 1 559    | 1 497      | 4 925                          | 84 129          | 8 410             | 428         | 605        |

| Land       | Sector | Gasoline t | Diesel t | LPGt  | Gasoil t | Fuel oil t | Natural gas 10 <sup>3</sup> m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------------|--------|------------|----------|-------|----------|------------|--------------------------------|-----------------|-------------------|-------------|------------|
|            | I7     | 12         | 9 544    | 94    | 626      | 760        | 434                            | 18 430          | 0                 | 19          | 91         |
|            | I8     | 185        | 4 506    | 358   | 3 317    | 2 832      | 3 499                          | 81 031          | 5 590             | 344         | 1 176      |
|            | I9     | 182        | 564      | 17    | 225      | 281        | 754                            | 17 434          | 2 023             | 10          | 94         |
|            | I10    | 328        | 4 875    | 38    | 1 417    | 108        | 79                             | 63 041          | 7 426             | 3 988       | 133 256    |
|            | I11    | 1 832      | 50 032   | 139   | 3 840    | 1 181      | 2 899                          | 65 181          | 15 024            | 2 677       | 6 634      |
|            | I12    | 59         | 227      | 45    | 302      | 550        | 1 229                          | 9 574           | 567               | 19          | 122        |
|            | I13    | 400        | 4 390    | 40    | 952      | 1 100      | 1 080                          | 68 575          | 3 339             | 2 948       | 14 376     |
| <b>T</b>   | I1     | 1          | 5        | 2     | 0        | 3          | 263                            | 3 242           | 0                 | 0           | 0          |
|            | I2     | 11         | 148      | 56    | 38       | 259        | 471                            | 4 378           | 404               | 1           | 0          |
|            | I3     | 2          | 5        | 8     | 32       | 5          | 15                             | 760             | 403               | 0           | 0          |
|            | I4     | 26         | 2 453    | 208   | 223      | 517        | 3 920                          | 12 415          | 118               | 88          | 20         |
|            | I5     | 27         | 79       | 2     | 110      | 98         | 151                            | 2 381           | 533               | 5           | 26         |
|            | I6     | 276        | 2 842    | 225   | 927      | 951        | 2 711                          | 47 151          | 5 174             | 764         | 364        |
|            | I7     | 10         | 5 586    | 84    | 258      | 516        | 348                            | 15 084          | 0                 | 11          | 72         |
|            | I8     | 130        | 3 047    | 245   | 2 352    | 1 982      | 2 224                          | 56 324          | 5 799             | 214         | 819        |
|            | I9     | 136        | 403      | 5     | 244      | 209        | 531                            | 12 020          | 1 036             | 7           | 53         |
|            | I10    | 212        | 3 798    | 30    | 693      | 80         | 40                             | 47 088          | 5 173             | 3 314       | 118 859    |
|            | I11    | 1 432      | 38 114   | 105   | 2 952    | 876        | 2 178                          | 49 756          | 10 794            | 1 951       | 5 340      |
|            | I12    | 45         | 171      | 32    | 251      | 355        | 948                            | 7 063           | 416               | 37          | 86         |
|            | I13    | 303        | 3 126    | 32    | 713      | 1 108      | 720                            | 51 772          | 2 508             | 2 324       | 11 610     |
| <b>V</b>   | I1     | 1          | 2        | 1     | 0        | 2          | 132                            | 1 621           | 0                 | 0           | 0          |
|            | I2     | 9          | 118      | 45    | 30       | 207        | 376                            | 3 480           | 323               | 0           | 0          |
|            | I3     | 2          | 3        | 5     | 27       | 1          | 15                             | 693             | 403               | 0           | 0          |
|            | I4     | 21         | 1 239    | 114   | 186      | 307        | 3 254                          | 8 600           | 65                | 185         | 11         |
|            | I5     | 23         | 69       | 1     | 109      | 85         | 141                            | 2 314           | 467               | 5           | 24         |
|            | I6     | 208        | 2 022    | 161   | 650      | 656        | 2 300                          | 37 673          | 3 340             | 190         | 267        |
|            | I7     | 2          | 1 493    | 20    | 67       | 121        | 91                             | 4 859           | 0                 | 3           | 203        |
|            | I8     | 87         | 1 917    | 154   | 1 377    | 1 301      | 1 965                          | 39 370          | 2 307             | 134         | 1 095      |
|            | I9     | 73         | 241      | 2     | 96       | 121        | 302                            | 6 742           | 641               | 4           | 118        |
|            | I10    | 137        | 2 184    | 19    | 425      | 44         | 25                             | 25 684          | 3 964             | 2 388       | 56 402     |
|            | I11    | 758        | 20 091   | 54    | 1 488    | 453        | 1 105                          | 25 483          | 5 762             | 1 012       | 2 474      |
|            | I12    | 203        | 639      | 193   | 832      | 1 298      | 4 872                          | 29 428          | 1 589             | 40          | 342        |
|            | I13    | 171        | 1 476    | 17    | 359      | 494        | 421                            | 28 556          | 1 330             | 1 176       | 5 505      |
| <b>VIE</b> | I1     | 2          | 9        | 2     | 1        | 3          | 742                            | 6 378           | 0                 | 0           | 0          |
|            | I2     | 42         | 568      | 167   | 165      | 1 203      | 1 588                          | 14 872          | 1 924             | 2           | 0          |
|            | I3     | 11         | 10       | 19    | 91       | 3          | 153                            | 3 171           | 1 614             | 0           | 0          |
|            | I4     | 33         | 2 094    | 203   | 195      | 499        | 3 828                          | 11 332          | 116               | 88          | 37         |
|            | I5     | 32         | 104      | 2     | 122      | 97         | 279                            | 2 710           | 533               | 5           | 26         |
|            | I6     | 411        | 3 997    | 296   | 1 238    | 1 229      | 4 083                          | 64 665          | 8 385             | 368         | 558        |
|            | I7     | 1          | 275      | 5     | 17       | 29         | 23                             | 642             | 0                 | 1           | 5          |
|            | I8     | 83         | 1 901    | 154   | 1 366    | 1 176      | 1 577                          | 35 003          | 2 457             | 136         | 505        |
|            | I9     | 468        | 1 384    | 15    | 540      | 704        | 2 267                          | 41 537          | 4 074             | 27          | 195        |
|            | I10    | 92         | 1 376    | 12    | 280      | 29         | 22                             | 16 347          | 2 147             | 1 186       | 34 581     |
|            | I11    | 2 219      | 60 348   | 165   | 5 199    | 1 327      | 3 550                          | 79 410          | 18 312            | 3 132       | 7 675      |
|            | I12    | 113        | 387      | 85    | 513      | 874        | 2 389                          | 16 623          | 1 069             | 27          | 230        |
|            | I13    | 323        | 2 706    | 28    | 630      | 825        | 843                            | 47 146          | 2 409             | 2 042       | 9 618      |
| <b>A</b>   | I1     | 12         | 55       | 26    | 5        | 40         | 3 111                          | 38 320          | 0                 | 0           | 0          |
|            | I2     | 173        | 2 269    | 864   | 569      | 3 973      | 7 216                          | 66 704          | 6 193             | 9           | 0          |
|            | I3     | 61         | 91       | 167   | 734      | 25         | 520                            | 21 189          | 14 299            | 0           | 0          |
|            | I4     | 325        | 29 463   | 2 861 | 2 716    | 7 017      | 54 041                         | 159 263         | 1 633             | 1 216       | 272        |
|            | I5     | 285        | 927      | 21    | 1 273    | 1 171      | 1 836                          | 28 732          | 7 070             | 58          | 317        |
|            | I6     | 3 316      | 33 712   | 2 696 | 11 103   | 11 098     | 33 725                         | 564 895         | 59 858            | 3 622       | 4 727      |
|            | I7     | 85         | 46 553   | 832   | 2 812    | 4 939      | 3 862                          | 108 436         | 0                 | 127         | 810        |
|            | I8     | 1 405      | 33 184   | 2 798 | 24 134   | 21 177     | 25 515                         | 610 477         | 42 465            | 2 469       | 9 189      |
|            | I9     | 1 432      | 4 485    | 58    | 1 862    | 2 389      | 6 623                          | 134 115         | 12 985            | 90          | 713        |
|            | I10    | 1 884      | 30 256   | 277   | 6 226    | 651        | 371                            | 362 330         | 47 765            | 26 379      | 767 941    |

| Land | Sector | Gasoline t | Diesel t | LPGt  | Gasoil t | Fuel oil t | Natural gas 10³m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------|--------|------------|----------|-------|----------|------------|-------------------|-----------------|-------------------|-------------|------------|
|      | I11    | 13 391     | 373 060  | 1 032 | 28 660   | 8 385      | 21 720            | 489 362         | 109 480           | 19 723      | 48 681     |
|      | I12    | 686        | 2 432    | 544   | 3 132    | 5 311      | 14 750            | 102 626         | 6 938             | 180         | 1 533      |
|      | I13    | 2 749      | 26 463   | 286   | 6 190    | 8 023      | 7 162             | 469 029         | 23 731            | 20 428      | 95 973     |

S: Statistics Austria, Energy statistics. – B: Burgenland, C: Carinthia, L: Lower Austria, U: Upper Austria, S: Salzburg, ST: Styria, T: Tyrol, V: Vorarlberg, VIE: Vienna, A: Austria.

### Results for 2008 by Laender, Sector and Energy Source

| Land     | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³ m³ | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|----------|--------|------------|----------|-------|----------|------------|--------------------|-----------------|-------------------|-------------|------------|
| <b>B</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                  | 0               | 0                 | 0           | 0          |
|          | I2     | 7          | 67       | 0     | 0        | 130        | 426                | 4 606           | 217               | 6           | 1          |
|          | I3     | 0          | 5        | 0     | 0        | 10         | 17                 | 59              | 0                 | 0           | 0          |
|          | I4     | 21         | 2 350    | 1     | 228      | 543        | 2 798              | 9 432           | 0                 | 7           | 3 298      |
|          | I5     | 2          | 12       | 0     | 17       | 20         | 13                 | 288             | 109               | 0           | 9          |
|          | I6     | 49         | 620      | 1     | 172      | 154        | 1 156              | 11 470          | 2 273             | 22          | 846        |
|          | I7     | 2          | 2 133    | 34    | 41       | 85         | 27                 | 6 056           | 108               | 0           | 13         |
|          | I8     | 34         | 1 150    | 10    | 981      | 823        | 587                | 19 964          | 1 501             | 85          | 892        |
|          | I9     | 17         | 46       | 0     | 14       | 18         | 48                 | 1 502           | 226               | 0           | 69         |
|          | I10    | 10         | 861      | 16    | 24       | 3          | 78                 | 6 424           | 1 941             | 54          | 4 974      |
|          | I11    | 638        | 14 308   | 14    | 627      | 184        | 602                | 9 955           | 3 068             | 686         | 3 023      |
|          | I12    | 5          | 39       | 0     | 31       | 53         | 232                | 1 991           | 195               | 2           | 15         |
|          | I13    | 33         | 409      | 0     | 73       | 88         | 190                | 7 613           | 997               | 80          | 3 717      |
| <b>C</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                  | 0               | 0                 | 0           | 0          |
|          | I2     | 14         | 146      | 0     | 18       | 264        | 922                | 9 979           | 470               | 13          | 2          |
|          | I3     | 1          | 10       | 0     | 9        | 10         | 33                 | 117             | 0                 | 0           | 0          |
|          | I4     | 20         | 2 281    | 1     | 218      | 530        | 2 716              | 9 154           | 0                 | 7           | 3 201      |
|          | I5     | 2          | 9        | 0     | 19       | 9          | 10                 | 216             | 82                | 0           | 7          |
|          | I6     | 141        | 1 781    | 3     | 150      | 787        | 3 323              | 32 960          | 6 532             | 63          | 2 432      |
|          | I7     | 3          | 3 199    | 51    | 132      | 57         | 41                 | 9 084           | 162               | 0           | 20         |
|          | I8     | 36         | 1 234    | 10    | 953      | 984        | 630                | 21 432          | 1 612             | 92          | 957        |
|          | I9     | 50         | 135      | 0     | 15       | 77         | 140                | 4 381           | 661               | 0           | 202        |
|          | I10    | 28         | 2 327    | 43    | 24       | 48         | 210                | 17 368          | 5 248             | 147         | 13 448     |
|          | I11    | 1 048      | 23 518   | 24    | 593      | 740        | 990                | 16 363          | 5 042             | 1 128       | 4 969      |
|          | I12    | 13         | 97       | 0     | 33       | 175        | 571                | 4 901           | 480               | 4           | 36         |
|          | I13    | 79         | 973      | 1     | 67       | 316        | 452                | 18 130          | 2 375             | 191         | 8 851      |
| <b>L</b> | I1     | 3          | 423      | 0     | 7        | 55         | 60                 | 9 885           | 0                 | 0           | 106        |
|          | I2     | 43         | 448      | 0     | 92       | 775        | 2 838              | 30 705          | 1 446             | 41          | 7          |
|          | I3     | 2          | 30       | 0     | 56       | 2          | 99                 | 352             | 0                 | 0           | 0          |
|          | I4     | 83         | 9 468    | 4     | 867      | 2 237      | 11 275             | 38 004          | 0                 | 29          | 13 288     |
|          | I5     | 15         | 89       | 0     | 123      | 145        | 95                 | 2 088           | 789               | 0           | 67         |
|          | I6     | 303        | 3 819    | 6     | 1 009    | 1 000      | 7 124              | 70 666          | 14 005            | 135         | 5 215      |
|          | I7     | 9          | 8 958    | 143   | 115      | 414        | 114                | 25 435          | 453               | 0           | 56         |
|          | I8     | 148        | 5 047    | 42    | 4 267    | 3 652      | 2 575              | 87 636          | 6 591             | 375         | 3 914      |
|          | I9     | 127        | 340      | 0     | 107      | 124        | 353                | 11 015          | 1 661             | 0           | 509        |
|          | I10    | 85         | 7 014    | 129   | 198      | 20         | 632                | 52 342          | 15 817            | 442         | 40 527     |
|          | I11    | 2 983      | 66 923   | 67    | 2 926    | 868        | 2 817              | 46 562          | 14 348            | 3 210       | 14 140     |
|          | I12    | 27         | 197      | 0     | 124      | 298        | 1 161              | 9 954           | 976               | 8           | 73         |
|          | I13    | 183        | 2 254    | 1     | 378      | 511        | 1 048              | 41 990          | 5 499             | 442         | 20 499     |
| <b>U</b> | I1     | 1          | 141      | 0     | 2        | 18         | 20                 | 3 295           | 0                 | 0           | 35         |
|          | I2     | 37         | 381      | 0     | 114      | 623        | 2 413              | 26 099          | 1 229             | 35          | 6          |

| Land | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³ m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------|--------|------------|----------|-------|----------|------------|--------------------|-----------------|-------------------|-------------|------------|
|      | I3     | 4          | 50       | 0     | 94       | 3          | 166                | 586             | 0                 | 0           | 0          |
|      | I4     | 71         | 8 086    | 3     | 760      | 1 890      | 9 629              | 32 456          | 0                 | 24          | 11 348     |
|      | I5     | 22         | 132      | 0     | 179      | 218        | 140                | 3 096           | 1 170             | 0           | 100        |
|      | I6     | 399        | 5 023    | 8     | 1 313    | 1 328      | 9 370              | 92 947          | 18 421            | 177         | 6 859      |
|      | I7     | 7          | 6 826    | 109   | 137      | 265        | 87                 | 19 379          | 345               | 0           | 43         |
|      | I8     | 151        | 5 149    | 43    | 4 243    | 3 835      | 2 627              | 89 397          | 6 723             | 383         | 3 993      |
|      | I9     | 124        | 332      | 0     | 79       | 147        | 345                | 10 764          | 1 623             | 0           | 497        |
|      | I10    | 105        | 8 672    | 160   | 244      | 26         | 782                | 64 714          | 19 555            | 547         | 50 106     |
|      | I11    | 2 470      | 55 417   | 55    | 2 418    | 724        | 2 333              | 38 558          | 11 881            | 2 659       | 11 709     |
|      | I12    | 38         | 278      | 0     | 231      | 366        | 1 643              | 14 089          | 1 381             | 11          | 104        |
|      | I13    | 198        | 2 435    | 2     | 442      | 518        | 1 132              | 45 365          | 5 941             | 478         | 22 146     |
| S    | I1     | 0          | 0        | 0     | 0        | 0          | 0                  | 0               | 0                 | 0           | 0          |
|      | I2     | 15         | 157      | 0     | 303      | 262        | 993                | 10 747          | 506               | 14          | 3          |
|      | I3     | 1          | 15       | 0     | 29       | 1          | 50                 | 176             | 0                 | 0           | 0          |
|      | I4     | 29         | 3 248    | 1     | 1 065    | 716        | 3 868              | 13 038          | 0                 | 10          | 4 559      |
|      | I5     | 7          | 40       | 0     | 120      | 30         | 42                 | 936             | 354               | 0           | 30         |
|      | I6     | 130        | 1 639    | 3     | 862      | 429        | 3 057              | 30 323          | 6 010             | 58          | 2 238      |
|      | I7     | 2          | 2 133    | 34    | 126      | 73         | 27                 | 6 056           | 108               | 0           | 13         |
|      | I8     | 51         | 1 742    | 14    | 2 733    | 1 272      | 889                | 30 239          | 2 274             | 129         | 1 351      |
|      | I9     | 56         | 151      | 0     | 103      | 64         | 156                | 4 882           | 736               | 0           | 226        |
|      | I10    | 42         | 3 475    | 64    | 108      | 15         | 313                | 25 933          | 7 836             | 219         | 20 079     |
|      | I11    | 1 293      | 29 017   | 29    | 1 645    | 388        | 1 222              | 20 189          | 6 221             | 1 392       | 6 131      |
|      | I12    | 21         | 151      | 0     | 325      | 206        | 893                | 7 657           | 751               | 6           | 56         |
|      | I13    | 90         | 1 108    | 1     | 437      | 248        | 515                | 20 642          | 2 703             | 218         | 10 077     |
| ST   | I1     | 1          | 70       | 0     | 1        | 9          | 10                 | 1 648           | 0                 | 0           | 18         |
|      | I2     | 23         | 235      | 0     | 53       | 403        | 1 490              | 16 120          | 759               | 22          | 4          |
|      | I3     | 2          | 20       | 0     | 38       | 0          | 66                 | 235             | 0                 | 0           | 0          |
|      | I4     | 63         | 7 188    | 3     | 510      | 1 846      | 8 559              | 28 849          | 0                 | 22          | 10 087     |
|      | I5     | 15         | 89       | 0     | 131      | 137        | 95                 | 2 088           | 789               | 0           | 67         |
|      | I6     | 253        | 3 185    | 5     | 854      | 821        | 5 941              | 58 932          | 11 680            | 112         | 4 349      |
|      | I7     | 7          | 6 826    | 109   | 182      | 221        | 87                 | 19 379          | 345               | 0           | 43         |
|      | I8     | 90         | 3 086    | 26    | 2 612    | 2 230      | 1 574              | 53 580          | 4 030             | 229         | 2 393      |
|      | I9     | 85         | 228      | 0     | 69       | 86         | 236                | 7 385           | 1 113             | 0           | 341        |
|      | I10    | 65         | 5 388    | 99    | 156      | 12         | 486                | 40 208          | 12 150            | 340         | 31 132     |
|      | I11    | 2 040      | 45 754   | 46    | 1 984    | 610        | 1 926              | 31 834          | 9 809             | 2 195       | 9 667      |
|      | I12    | 26         | 187      | 0     | 143      | 260        | 1 107              | 9 495           | 931               | 7           | 70         |
|      | I13    | 153        | 1 883    | 1     | 344      | 398        | 875                | 35 084          | 4 595             | 370         | 17 127     |
| T    | I1     | 1          | 70       | 0     | 1        | 9          | 10                 | 1 648           | 0                 | 0           | 18         |
|      | I2     | 14         | 146      | 0     | 36       | 245        | 922                | 9 979           | 470               | 13          | 2          |
|      | I3     | 0          | 5        | 0     | 8        | 1          | 17                 | 59              | 0                 | 0           | 0          |
|      | I4     | 31         | 3 525    | 1     | 349      | 807        | 4 197              | 14 147          | 0                 | 11          | 4 947      |
|      | I5     | 7          | 43       | 0     | 68       | 61         | 46                 | 1 008           | 381               | 0           | 33         |
|      | I6     | 152        | 1 917    | 3     | 497      | 511        | 3 575              | 35 465          | 7 029             | 68          | 2 617      |
|      | I7     | 4          | 4 053    | 65    | 80       | 159        | 52                 | 11 506          | 205               | 0           | 25         |
|      | I8     | 60         | 2 037    | 17    | 1 735    | 1 462      | 1 040              | 35 377          | 2 661             | 151         | 1 580      |
|      | I9     | 65         | 174      | 0     | 64       | 55         | 180                | 5 633           | 849               | 0           | 260        |
|      | I10    | 46         | 3 826    | 71    | 107      | 12         | 345                | 28 550          | 8 627             | 241         | 22 106     |
|      | I11    | 1 537      | 34 489   | 34    | 1 508    | 447        | 1 452              | 23 996          | 7 394             | 1 655       | 7 287      |
|      | I12    | 16         | 121      | 0     | 108      | 152        | 714                | 6 126           | 600               | 5           | 45         |
|      | I13    | 109        | 1 348    | 1     | 208      | 323        | 627                | 25 116          | 3 289             | 265         | 12 261     |

| Land        | Sector | Gasoline t | Diesel t   | LPG t | Gasoil t  | Fuel oil t | Natural gas 10³ m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|-------------|--------|------------|------------|-------|-----------|------------|--------------------|-----------------|-------------------|-------------|------------|
| <b>V</b>    | I1     | 1          | 141        | 0     | 2         | 18         | 20                 | 3 295           | 0                 | 0           | 35         |
|             | I2     | 17         | 179        | 0     | 43        | 303        | 1 135              | 12 282          | 579               | 16          | 3          |
|             | I3     | 1          | 15         | 0     | 28        | 1          | 50                 | 176             | 0                 | 0           | 0          |
|             | I4     | 18         | 2 004      | 1     | 248       | 409        | 2 387              | 8 045           | 0                 | 6           | 2 813      |
|             | I5     | 9          | 55         | 0     | 94        | 73         | 59                 | 1 296           | 490               | 0           | 42         |
|             | I6     | 123        | 1 546      | 2     | 405       | 408        | 2 884              | 28 609          | 5 670             | 54          | 2 111      |
|             | I7     | 2          | 1 706      | 27    | 36        | 65         | 22                 | 4 845           | 86                | 0           | 11         |
|             | I8     | 39         | 1 319      | 11    | 1 064     | 1 005      | 673                | 22 900          | 1 722             | 98          | 1 023      |
|             | I9     | 53         | 143        | 0     | 43        | 54         | 148                | 4 631           | 698               | 0           | 214        |
|             | I10    | 34         | 2 838      | 52    | 80        | 8          | 256                | 21 175          | 6 399             | 179         | 16 395     |
|             | I11    | 891        | 19 994     | 20    | 869       | 265        | 842                | 13 911          | 4 287             | 959         | 4 224      |
|             | I12    | 58         | 429        | 0     | 360       | 562        | 2 536              | 21 746          | 2 132             | 17          | 160        |
|             | I13    | 65         | 805        | 1     | 134       | 184        | 374                | 14 991          | 1 963             | 158         | 7 318      |
| <b>VI E</b> | I1     | 1          | 141        | 0     | 6         | 15         | 20                 | 3 295           | 0                 | 0           | 35         |
|             | I2     | 58         | 594        | 0     | 139       | 1 010      | 3 761              | 40 684          | 1 916             | 54          | 10         |
|             | I3     | 1          | 15         | 0     | 28        | 1          | 50                 | 176             | 0                 | 0           | 0          |
|             | I4     | 29         | 3 248      | 1     | 300       | 765        | 3 868              | 13 038          | 0                 | 10          | 4 559      |
|             | I5     | 7          | 40         | 0     | 67        | 53         | 42                 | 936             | 354               | 0           | 30         |
|             | I6     | 226        | 2 843      | 4     | 750       | 745        | 5 303              | 52 604          | 10 426            | 100         | 3 882      |
|             | I7     | 0          | 0          | 0     | 0         | 0          | 0                  | 0               | 0                 | 0           | 0          |
|             | I8     | 41         | 1 395      | 12    | 1 176     | 1 013      | 712                | 24 221          | 1 822             | 104         | 1 082      |
|             | I9     | 222        | 594        | 0     | 176       | 229        | 617                | 19 276          | 2 906             | 0           | 891        |
|             | I10    | 23         | 1 913      | 35    | 54        | 6          | 172                | 14 275          | 4 314             | 121         | 11 053     |
|             | I11    | 2 612      | 58 594     | 59    | 2 647     | 675        | 2 467              | 40 768          | 12 562            | 2 811       | 12 380     |
|             | I12    | 37         | 269        | 0     | 214       | 364        | 1 589              | 13 630          | 1 336             | 11          | 100        |
|             | I13    | 101        | 1 251      | 1     | 214       | 280        | 582                | 23 311          | 3 053             | 246         | 11 380     |
| <b>A</b>    | I1     | 7          | 986        | 1     | 20        | 124        | 140                | 23 065          | 0                 | 0           | 246        |
|             | I2     | 228        | 2 353      | 0     | 798       | 4 015      | 14 902             | 161 201         | 7 593             | 216         | 39         |
|             | I3     | 12         | 165        | 0     | 293       | 29         | 547                | 1 935           | 0                 | 0           | 0          |
|             | I4     | 364        | 41 397     | 16    | 4 543     | 9 742      | 49 297             | 166 162         | 0                 | 125         | 58 098     |
|             | I5     | 86         | 511        | 0     | 819       | 745        | 542                | 11 953          | 4 516             | 0           | 386        |
|             | I6     | 1 777      | 22 372     | 34    | 6 013     | 6 181      | 41 733             | 413 976         | 82 046            | 789         | 30 550     |
|             | I7     | 34         | 35 834     | 571   | 847       | 1 339      | 456                | 101 740         | 1 813             | 0           | 223        |
|             | I8     | 650        | 22 159     | 184   | 19<br>763 | 16 276     | 11 305             | 384 746         | 28 935            | 1 648       | 17 184     |
|             | I9     | 801        | 2 142      | 2     | 669       | 854        | 2 224              | 69 468          | 10 474            | 0           | 3 210      |
|             | I10    | 441        | 36 315     | 670   | 997       | 150        | 3 273              | 270 991         | 81 887            | 2 289       | 209 821    |
|             | I11    | 15 513     | 348<br>013 | 348   | 15<br>217 | 4 902      | 14 650             | 242 136         | 74 612            | 16<br>695   | 73 530     |
|             | I12    | 241        | 1 769      | 0     | 1 568     | 2 436      | 10 448             | 89 589          | 8 781             | 70          | 658        |
|             | I13    | 1 011      | 12 465     | 8     | 2 297     | 2 866      | 5 795              | 232 242         | 30 416            | 2 447       | 113 374    |

S: Statistics Austria, Energy statistics. – B: Burgenland, C: Carinthia, L: Lower Austria, U: Upper Austria, S: Salzburg, ST: Styria, T: Tyrol, V: Vorarlberg, VIE: Vienna, AU: Austria.

### Results for 2010 by Laender, Sector and Energy Source

| Land     | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³ m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|----------|--------|------------|----------|-------|----------|------------|--------------------|-----------------|-------------------|-------------|------------|
| <b>B</b> | I1     | 0          | 0        | 0     | 0        | 0          | 0                  | 0               | 0                 | 0           | 2 066      |

| Land | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10 <sup>3</sup> m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|------|--------|------------|----------|-------|----------|------------|--------------------------------|-----------------|-------------------|-------------|------------|
|      | I2     | 28         | 122      | 0     | 0        | 3          | 402                            | 1 210           | 8 070             | 372         | 149        |
|      | I3     | 0          | 2        | 0     | 0        | 1          | 3                              | 18              | 205               | 0           | 23 194     |
|      | I4     | 13         | 4 189    | 0     | 104      | 278        | 767                            | 996             | 10 553            | 119         | 7 994      |
|      | I5     | 4          | 58       | 0     | 0        | 2          | 31                             | 288             | 2 706             | 622         | 106        |
|      | I6     | 73         | 1 044    | 0     | 1        | 70         | 553                            | 2 672           | 23 941            | 4 981       | 12 295     |
|      | I7     | 3          | 2 224    | 8     | 0        | 6          | 375                            | 55              | 21 725            | 448         | 16         |
|      | I8     | 36         | 1 966    | 6     | 9        | 168        | 2 805                          | 2 303           | 41 563            | 1 989       | 170        |
|      | I9     | 28         | 140      | 0     | 0        | 2          | 18                             | 304             | 5 347             | 470         | 0          |
|      | I10    | 12         | 844      | 13    | 0        | 0          | 90                             | 209             | 8 573             | 1 034       | 10 885     |
|      | I11    | 758        | 13 175   | 16    | 1        | 152        | 710                            | 1 165           | 12 915            | 3 004       | 73         |
|      | I12    | 6          | 62       | 0     | 0        | 4          | 98                             | 334             | 2 535             | 206         | 12 628     |
|      | I13    | 34         | 521      | 1     | 0        | 22         | 255                            | 422             | 21 669            | 690         | 615        |
| C    | I1     | 1          | 604      | 3     | 0        | 0          | 94                             | 90              | 2 837             | 0           | 3 998      |
|      | I2     | 53         | 290      | 0     | 0        | 6          | 914                            | 787             | 8 757             | 877         | 179        |
|      | I3     | 0          | 6        | 0     | 0        | 2          | 13                             | 74              | 855               | 0           | 35 042     |
|      | I4     | 22         | 5 870    | 0     | 145      | 389        | 1 400                          | 2 206           | 23 595            | 166         | 13 026     |
|      | I5     | 6          | 64       | 0     | 0        | 2          | 36                             | 353             | 2 866             | 622         | 191        |
|      | I6     | 196        | 3 204    | 1     | 2        | 244        | 1 762                          | 6 698           | 66 451            | 14 035      | 18 021     |
|      | I7     | 2          | 4 381    | 13    | 0        | 36         | 205                            | 131             | 263 014           | 52          | 3          |
|      | I8     | 41         | 2 073    | 8     | 10       | 156        | 2 407                          | 2 287           | 38 265            | 2 487       | 68         |
|      | I9     | 56         | 365      | 0     | 1        | 6          | 57                             | 1 176           | 13 762            | 2 251       | 0          |
|      | I10    | 35         | 2 929    | 19    | 0        | 1 398      | 271                            | 580             | 29 004            | 5 511       | 4 609      |
|      | I11    | 1 154      | 20 721   | 31    | 1        | 242        | 1 194                          | 1 425           | 21 501            | 4 923       | 32         |
|      | I12    | 13         | 126      | 9     | 0        | 7          | 229                            | 488             | 5 253             | 715         | 11 114     |
|      | I13    | 102        | 1 383    | 2     | 0        | 201        | 687                            | 931             | 44 241            | 2 460       | 219        |
| L    | I1     | 6          | 2 721    | 20    | 0        | 0          | 437                            | 1 009           | 25 284            | 0           | 2 654      |
|      | I2     | 170        | 920      | 0     | 0        | 22         | 3 227                          | 4 799           | 45 989            | 3 957       | 149        |
|      | I3     | 3          | 45       | 0     | 0        | 8          | 138                            | 312             | 3 827             | 0           | 28 422     |
|      | I4     | 63         | 21 002   | 0     | 474      | 1 295      | 3 718                          | 6 403           | 56 794            | 560         | 10 901     |
|      | I5     | 25         | 341      | 0     | 0        | 16         | 260                            | 1 597           | 15 388            | 3 740       | 114        |
|      | I6     | 433        | 6 321    | 2     | 4        | 397        | 3 262                          | 15 082          | 143 409           | 34 111      | 12 901     |
|      | I7     | 5          | 11 191   | 203   | 0        | 32         | 1 037                          | 293             | 88 513            | 237         | 2          |
|      | I8     | 172        | 8 217    | 29    | 40       | 816        | 8 989                          | 10 374          | 161 154           | 8 834       | 48         |
|      | I9     | 126        | 770      | 0     | 2        | 15         | 221                            | 2 136           | 31 656            | 3 928       | 0          |
|      | I10    | 77         | 5 885    | 38    | 0        | 1          | 560                            | 1 360           | 78 382            | 15 580      | 2 342      |
|      | I11    | 3 534      | 63 269   | 77    | 3        | 718        | 3 501                          | 4 616           | 61 491            | 14 691      | 36         |
|      | I12    | 27         | 241      | 1     | 0        | 13         | 491                            | 1 410           | 12 690            | 1 198       | 5 890      |
|      | I13    | 220        | 3 416    | 6     | 0        | 140        | 1 433                          | 2 900           | 97 231            | 5 051       | 139        |
| U    | I1     | 3          | 1 453    | 11    | 0        | 0          | 233                            | 460             | 13 470            | 0           | 1 628      |
|      | I2     | 138        | 752      | 0     | 0        | 17         | 2 612                          | 2 199           | 26 147            | 2 852       | 128        |
|      | I3     | 1          | 36       | 0     | 0        | 32         | 82                             | 442             | 4 595             | 0           | 17 986     |
|      | I4     | 71         | 20 528   | 0     | 748      | 2 292      | 3 804                          | 13 508          | 62 581            | 1 034       | 5 556      |
|      | I5     | 50         | 533      | 0     | 0        | 15         | 326                            | 2 687           | 25 540            | 5 454       | 279        |
|      | I6     | 576        | 9 085    | 3     | 5        | 678        | 4 914                          | 20 211          | 207 678           | 47 568      | 7 569      |
|      | I7     | 2          | 8 123    | 23    | 0        | 20         | 904                            | 1 135           | 61 292            | 174         | 3          |
|      | I8     | 184        | 8 867    | 46    | 80       | 683        | 10 817                         | 9 765           | 167 010           | 11 127      | 226        |
|      | I9     | 104        | 747      | 0     | 2        | 23         | 179                            | 2 027           | 29 925            | 3 878       | 0          |
|      | I10    | 94         | 7 794    | 53    | 0        | 4          | 839                            | 1 758           | 69 794            | 8 810       | 3 626      |
|      | I11    | 3 036      | 56 143   | 66    | 4        | 625        | 3 092                          | 3 844           | 54 426            | 12 959      | 36         |
|      | I12    | 71         | 662      | 2     | 0        | 80         | 732                            | 1 659           | 18 197            | 2 038       | 10 224     |

| Land      | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³ m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|-----------|--------|------------|----------|-------|----------|------------|--------------------|-----------------|-------------------|-------------|------------|
|           | I13    | 264        | 3 765    | 9     | 0        | 187        | 1 945              | 2 487           | 115 559           | 6 549       | 0          |
| <b>S</b>  | I1     | 0          | 12       | 0     | 0        | 0          | 0                  | 14              | 12                | 0           | 1 826      |
|           | I2     | 61         | 348      | 0     | 0        | 7          | 1 005              | 911             | 9 968             | 1 230       | 459        |
|           | I3     | 0          | 8        | 0     | 0        | 5          | 13                 | 72              | 1 014             | 0           | 10 702     |
|           | I4     | 19         | 6 198    | 1     | 152      | 414        | 1 153              | 1 458           | 16 495            | 213         | 17 150     |
|           | I5     | 19         | 231      | 0     | 0        | 5          | 107                | 875             | 8 470             | 2 293       | 177        |
|           | I6     | 169        | 2 660    | 1     | 2        | 179        | 1 569              | 5 804           | 58 923            | 12 283      | 11 987     |
|           | I7     | 2          | 4 845    | 15    | 0        | 13         | 229                | 140             | 31 270            | 61          | 2 066      |
|           | I8     | 59         | 2 789    | 9     | 13       | 205        | 3 041              | 3 650           | 54 189            | 4 245       | 149        |
|           | I9     | 49         | 364      | 0     | 1        | 7          | 86                 | 1 099           | 19 961            | 1 950       | 23 194     |
|           | I10    | 43         | 3 408    | 21    | 0        | 1          | 496                | 707             | 38 059            | 37 618      | 7 994      |
|           | I11    | 1 513      | 27 272   | 33    | 1        | 313        | 1 584              | 1 888           | 26 928            | 7 098       | 106        |
|           | I12    | 40         | 208      | 1     | 0        | 13         | 563                | 890             | 8 446             | 1 162       | 12 295     |
|           | I13    | 97         | 1 632    | 2     | 0        | 67         | 665                | 1 001           | 45 758            | 2 678       | 16         |
| <b>ST</b> | I1     | 8          | 3 060    | 22    | 0        | 0          | 495                | 864             | 24 890            | 0           | 170        |
|           | I2     | 92         | 413      | 0     | 0        | 28         | 992                | 926             | 13 395            | 1 507       | 0          |
|           | I3     | 0          | 21       | 0     | 0        | 4          | 26                 | 158             | 2 349             | 0           | 10 885     |
|           | I4     | 45         | 14 786   | 0     | 370      | 1 759      | 5 828              | 3 526           | 47 455            | 423         | 73         |
|           | I5     | 27         | 410      | 0     | 0        | 14         | 208                | 1 887           | 17 410            | 4 351       | 12 628     |
|           | I6     | 367        | 5 779    | 2     | 7        | 417        | 3 361              | 14 300          | 125 779           | 28 243      | 615        |
|           | I7     | 5          | 11 065   | 36    | 0        | 118        | 1 258              | 3 407           | 87 169            | 141         | 3 998      |
|           | I8     | 112        | 5 584    | 18    | 25       | 384        | 5 870              | 5 887           | 97 747            | 6 026       | 179        |
|           | I9     | 68         | 468      | 0     | 1        | 8          | 147                | 1 144           | 20 045            | 2 888       | 35 042     |
|           | I10    | 60         | 5 346    | 30    | 0        | 1          | 795                | 3 196           | 46 443            | 6 061       | 13 026     |
|           | I11    | 2 552      | 47 099   | 55    | 3        | 664        | 3 261              | 3 105           | 45 989            | 11 738      | 191        |
|           | I12    | 29         | 270      | 1     | 0        | 17         | 659                | 1 123           | 11 546            | 992         | 18 021     |
|           | I13    | 172        | 2 527    | 4     | 0        | 126        | 1 107              | 2 149           | 76 001            | 3 813       | 3          |
| <b>T</b>  | I1     | 1          | 543      | 6     | 0        | 0          | 92                 | 183             | 4 451             | 0           | 68         |
|           | I2     | 47         | 424      | 0     | 0        | 5          | 997                | 760             | 12 998            | 662         | 0          |
|           | I3     | 2          | 39       | 0     | 0        | 3          | 43                 | 121             | 1 392             | 0           | 4 609      |
|           | I4     | 26         | 11 509   | 0     | 211      | 565        | 1 619              | 1 977           | 21 712            | 241         | 32         |
|           | I5     | 12         | 159      | 0     | 0        | 5          | 91                 | 784             | 7 367             | 1 688       | 11 114     |
|           | I6     | 189        | 3 199    | 1     | 2        | 241        | 1 767              | 7 506           | 72 366            | 13 682      | 219        |
|           | I7     | 9          | 5 842    | 13    | 0        | 10         | 253                | 86              | 31 076            | 52          | 2 654      |
|           | I8     | 61         | 3 113    | 11    | 15       | 231        | 3 732              | 3 685           | 61 538            | 3 512       | 149        |
|           | I9     | 51         | 365      | 0     | 3        | 23         | 73                 | 1 150           | 15 013            | 2 056       | 28 422     |
|           | I10    | 45         | 3 377    | 137   | 0        | 1          | 336                | 779             | 36 555            | 3 477       | 10 901     |
|           | I11    | 1 845      | 33 756   | 40    | 2        | 748        | 1 831              | 2 399           | 34 775            | 8 069       | 114        |
|           | I12    | 24         | 169      | 1     | 0        | 14         | 483                | 684             | 7 782             | 592         | 12 901     |
|           | I13    | 118        | 1 901    | 3     | 0        | 86         | 1 088              | 1 227           | 54 995            | 2 703       | 2          |
| <b>V</b>  | I1     | 1          | 360      | 3     | 0        | 0          | 58                 | 90              | 2 392             | 0           | 48         |
|           | I2     | 33         | 174      | 0     | 0        | 43         | 548                | 514             | 6 246             | 497         | 0          |
|           | I3     | 0          | 5        | 0     | 0        | 2          | 10                 | 773             | 8 582             | 0           | 2 342      |
|           | I4     | 14         | 4 924    | 0     | 107      | 299        | 884                | 1 145           | 12 260            | 127         | 36         |
|           | I5     | 12         | 188      | 0     | 0        | 5          | 92                 | 863             | 8 183             | 1 865       | 5 890      |
|           | I6     | 174        | 2 548    | 1     | 2        | 167        | 1 388              | 6 396           | 59 105            | 11 574      | 139        |
|           | I7     | 1          | 2 486    | 8     | 0        | 6          | 125                | 55              | 17 296            | 33          | 1 628      |
|           | I8     | 47         | 2 104    | 7     | 10       | 146        | 2 398              | 2 251           | 39 390            | 2 227       | 128        |
|           | I9     | 43         | 327      | 0     | 1        | 6          | 62                 | 848             | 14 330            | 1 692       | 17 986     |
|           | I10    | 28         | 2 110    | 15    | 0        | 0          | 213                | 478             | 19 075            | 2 412       | 5 556      |

| Land    | Sector | Gasoline t | Diesel t | LPG t | Gasoil t | Fuel oil t | Natural gas 10³ m3 | Electricity MWh | District heat MWh | Fuel wood t | Biofuels t |
|---------|--------|------------|----------|-------|----------|------------|--------------------|-----------------|-------------------|-------------|------------|
|         | I11    | 1 049      | 19 006   | 26    | 1        | 220        | 1 051              | 2 051           | 22 558            | 4 110       | 279        |
|         | I12    | 78         | 512      | 3     | 0        | 32         | 1 164              | 4 441           | 33 417            | 1 911       | 7 569      |
|         | I13    | 72         | 1 048    | 2     | 0        | 63         | 480                | 700             | 35 977            | 1 568       | 3          |
| VI<br>E | I1     | 1          | 541      | 4     | 0        | 0          | 88                 | 137             | 3 593             | 0           | 226        |
|         | I2     | 197        | 958      | 0     | 0        | 19         | 2 825              | 12 408          | 88 665            | 6 577       | 0          |
|         | I3     | 0          | 9        | 0     | 0        | 3          | 16                 | 108             | 1 041             | 0           | 3 626      |
|         | I4     | 20         | 6 287    | 0     | 166      | 445        | 1 216              | 1 557           | 16 029            | 190         | 36         |
|         | I5     | 13         | 174      | 0     | 0        | 5          | 98                 | 943             | 8 332             | 1 865       | 10 224     |
|         | I6     | 304        | 4 479    | 1     | 3        | 299        | 2 266              | 11 985          | 100 392           | 22 195      | 0          |
|         | I7     | 0          | 0        | 0     | 0        | 0          | 0                  | 0               | 0                 | 0           | 1 826      |
|         | I8     | 53         | 2 300    | 8     | 12       | 176        | 2 586              | 2 851           | 47 727            | 4 528       | 459        |
|         | I9     | 155        | 1 050    | 0     | 2        | 21         | 209                | 3 071           | 44 013            | 5 675       | 10 702     |
|         | I10    | 39         | 1 893    | 11    | 0        | 0          | 154                | 681             | 13 968            | 1 887       | 17 150     |
|         | I11    | 3 780      | 57 897   | 72    | 3        | 678        | 3 144              | 4 293           | 57 275            | 13 756      | 177        |
|         | I12    | 36         | 320      | 2     | 0        | 21         | 564                | 1 435           | 12 827            | 1 244       | 11 987     |
|         | I13    | 120        | 1 693    | 3     | 0        | 78         | 769                | 1 656           | 54 808            | 3 365       | 2 066      |
| A       | I1     | 22         | 9294     | 68    | 0        | 0          | 1498               | 2848            | 76930             | 0           | 137        |
|         | I2     | 818        | 4401     | 0     | 0        | 152        | 13522              | 24513           | 220236            | 18530       | 1 131      |
|         | I3     | 7          | 171      | 1     | 0        | 61         | 343                | 2080            | 23861             | 0           | 0          |
|         | I4     | 292        | 95293    | 3     | 2479     | 7735       | 20389              | 32775           | 267475            | 3071        | 56 137     |
|         | I5     | 168        | 2159     | 0     | 0        | 68         | 1249               | 10277           | 96262             | 22500       | 405        |
|         | I6     | 2480       | 38318    | 12    | 27       | 2693       | 20842              | 90654           | 858044            | 18867       | 90 245     |
|         | I7     | 29         | 50157    | 319   | 0        | 241        | 4387               | 5303            | 601355            | 1197        | 2 910      |
|         | I8     | 764        | 37014    | 142   | 214      | 2965       | 42645              | 43052           | 708583            | 44974       | 28 149     |
|         | I9     | 680        | 4597     | 0     | 12       | 110        | 1052               | 12955           | 194050            | 24788       | 2 173      |
|         | I10    | 433        | 33586    | 337   | 0        | 1406       | 3754               | 9749            | 339853            | 82390       | 253 826    |
|         | I11    | 19222      | 338339   | 417   | 19       | 4360       | 19368              | 24785           | 337858            | 80349       | 99 021     |
|         | I12    | 324        | 2572     | 20    | 0        | 202        | 4982               | 12465           | 112693            | 10059       | 1 992      |
|         | I13    | 1200       | 17887    | 32    | 0        | 970        | 8428               | 13473           | 546238            | 28879       | 126 567    |

S: Statistics Austria, Energy statistics. – B: Burgenland, C: Carinthia, L: Lower Austria, U: Upper Austria, S: Salzburg, ST: Styria, T: Tyrol, V: Vorarlberg, VIE: Vienna, AU: Austria.