

## Quality table for the survey of energy consumption in industry in 2010 (EACEI)

<b>Survey identity card</b>	
<b>Name</b>	Survey on energy consumption in industry, Excluding agrifood
<b>Year of survey</b>	The survey data are from 2010.
<b>Frequency</b>	Annual survey
<b>Service in charge of the survey</b>	INSEE – Business Statistics Division (DSE) for the 2010 survey

<b>Technical characteristics</b>	
<b>Scope and coverage of survey</b>	<p>The scope of the survey by INSEE covers establishments in part of the extraction industry and the manufacturing industry (excluding agrifood and sawmills). The activities are those defined by the following NAF rev. 2 codes: 07, 08, 09.9 and 13 to 33 (except 16.10A, 16.10B, 19.10Z, 19.20Z, 20.13A, 24.46Z) and 38.3. Except for 20.11Z (big energy consumer), the headcount threshold is set at 20 employees (failing this, salaried workers) on average over the year (10 employees for 20.11Z).</p> <p>Only establishments with production activity are included in the scope.</p> <p>The survey covering the agrifood industry and sawmills is conducted by the Statistics and Forecasting Service (SSP) of the Ministry for Agriculture, of Food processing and the Forest.</p> <p>This quality table only concerns the survey carried out by INSEE.</p>
<b>Geographical scope</b>	France (including overseas departments)
<b>Statistical unit used in the survey</b>	Establishment
<b>Size of reference population</b>	19 715
<b>Sample size</b>	11 000
<b>Number of companies that were given a questionnaire test</b>	19 before the switch to the Label Committee in 2001. As the questionnaire has barely changed, no tests since this annual survey.
<b>Compulsory or non-compulsory nature of the survey</b>	Compulsory
<b>Collection mode</b>	Online collection. Letter sent indicating the availability of an online form, but replies possible by hard-copy questionnaire on request.

<b>Technical characteristics (cont'd)</b>	
<b>Users committee</b>	with external users <input checked="" type="checkbox"/> without external users <input type="checkbox"/> no <input type="checkbox"/>

<b>Key dates from launch until the publication of results</b>	
<b>First launch meeting</b>	2010 survey dialogue committee: 24/09/2010.
<b>Favourable opinion from the National Council for Statistical Information (CNIS)</b>	21 July 2006
<b>Meeting of the approvals committee ("Label Committee") of the CNIS</b>	4 December 2006
<b>Launch of collection</b>	4 January 2011
<b>End of clerks work</b>	5 May 2011
<b>Feedback to companies</b>	Before the launch of the survey in 2011
<b>First publication on the basis of provisional results</b>	September 2011 for the scope of INSEE, January 2012 for the joint scope of INSEE and SSP.

<b>Survey sample</b>	
<b>Sampling method</b>	Simple stratified random sampling. Included in the sample: <ul style="list-style-type: none"> <li>• all establishments employing 20 or more employees in the sectors where energy consumption is the highest (23.32Z, 23.51Z and 23.52Z);</li> <li>• all establishments employing 10 or more employees in the industrial gas manufacturing sector (20.11Z);</li> <li>• all establishments employing 250 or more employees;</li> <li>• by sampling, establishments with 20 to 249 employees in the least consuming sectors. The sampling strata are defined by crossing the activity codified NTE (specific working level of the EACEI: either division, or group, or class of NAF rev 2) with the size bracket of the establishment (20 to 49 employees, 50 to 99 employees, 100 to 249 employees).</li> </ul>
<b>Number of target variables for the dissemination of results (or for the studies)</b>	47

<b>Survey sample (cont'd)</b>	
<b>List of target variables for the dissemination of results (or for the studies)</b>	16 variables of purchased quantities of energy 11 purchase value variables 6 diverse variables (self-production of electricity, type of tariff...) 14 stock variables.
<b>Number of disseminated sub-populations</b>	4
<b>List of disseminated sub-populations</b>	Division of NAF rev. 2 Size bracket (20-49; 50-99; 100-249; 250-499; 500-999; 1000-1999; 2000 or more) Region NCE (specific energy classification)
<b>Population of the exhaustive strata surveyed as a proportion of all the units of the sample</b>	31.2 %
<b>Sampling rates</b>	55.8 %

<b>Indicators relating to production</b>	
<b>Are there any follow-ups?</b>	Yes
<b>If so, what type and how many?</b>	A first reminder to all non-respondents, a second to reminder, and two letters for the pre-litigation procedure.
<b>Number of units in the initial sample</b>	10 998
<b>Number of returned surveys</b>	9 587
<b>Number 'outside the scope' (including units that have disappeared) amongst the returned questionnaires</b>	1 146
<b>Number entering the scope</b>	148
<b>Number of useable questionnaires</b>	8 441

<b>Indicators relating to production (cont'd)</b>		
<b>Survey response rate</b>	85.7 %	
<b>Response rate for each target variable from the population of respondents</b>	<p><b>Target variables</b></p> <p>Quantities purchased</p> <p>Purchase value</p> <p>Type of tariff</p> <p>Other electricity variables</p> <p>Stock</p> <p>NB: Over the whole survey scope, the partial non-response rate for the quantities purchased is 2.9%. The quantity purchased (for example) is considered as missing once another variable relating to the same energy is completed.</p>	<p><b>Taux de réponse</b></p> <p>97.1 %</p> <p>96.4 %</p> <p>81.2 %</p> <p>97.1 %</p> <p>98.6 %</p>
<b>Non-response treatment</b>	<p><b>Treatment of partial non-responses and errors:</b> Partial non-responses are corrected using methods based on the mean per stratum.</p> <p><b>Treatment of total non-responses:</b> Two methods are used to treat total non-responses. For establishments for which we have a valid response N-1, we use this response to estimate response N. The quantities of year N will be calculated by assigning growth coefficients to the quantities of year N-1.</p> <p>For the other establishments, the method used to treat total non-responses is hot deck, i.e. we enter the data in the non-returned questionnaires (duplicated) with that of correctly completed questionnaires (duplicating) taken at random from the same stratum.</p>	
<b>Estimation procedures</b>	The establishments entering the survey scope between the sample selection and the attainment of the results are taken into account by reweighting.	

## Accuracy indicators

The coefficient of variation, expressed as a percentage, for the estimations of each target variable and for the divisions of Naf rev. 2.

	Global	Median
<b>Total consumption in TOE*</b>	0.5	1.7
<b>Total purchase bill</b>	0.5	1.6
<b>Overall quantities in TOE*</b>		3.2
<b>Overall purchases</b>		3.4
<b>Quantity in TOE:</b>		
Electricity	0.6	1.5
Steam	1.4	2.4
Natural mains gas	1.4	2.9
Other mains gas	1.8	15.8
Coal	0.4	2.9
Lignite-lean coal	4.0	1.1
Coal coke	1.6	2.2
Oil coke	3.5	6.1
Butane propane	2.6	5.0
Heavy fuel	3.5	2.6
Domestic fuel	1.0	4.7
Other petroleum products	4.0	2.4
Black liquor	1.3	30.3
Wood and wood by-products	1.4	5.2
Special renewable fuels	3.1	4.0
Special non-renewable fuels	3.9	1.9
<b>Purchase value:</b>		
Electricity	0.5	1.6
Steam	1.3	2.0
Natural mains gas	1.2	3.1
Other mains gas	2.1	16.3
Coal	0.3	1.5
Lignite-lean coal	3.1	1.0
Coal coke	1.3	2.1
Oil coke	2.7	4.8
Butane propane	2.2	5.9
Heavy fuel	3.2	3.8
Domestic fuel	6.9	5.4

N.B.:

The coefficient of variation is the ratio between the standard deviation of the estimation and the value of the estimation. The standard deviation that we can deduce from this coefficient by multiplying it by the value of the estimation is used to produce the confidence interval (generally speaking a "95%" interval can be produced by carrying over from either side of the estimation value twice the value of the standard deviation).

The lower the value of the coefficient of variation, the more accurate the estimation.

50% of the divisions in the EACEI scope have a coefficient of variation for the studies total which is lower than 1.7%.

The coefficient of variation for the studies total over the whole scope is 0.5 %

Dissemination	
<b>Has the survey been archived?</b>	Yes
<b>Is there any documentation to be disseminated?</b>	no documentation <input type="checkbox"/> basic documentation <input checked="" type="checkbox"/> a comprehensive data dictionary <input checked="" type="checkbox"/> a comprehensive data dictionary <input checked="" type="checkbox"/>
<b>Number of publications, by type</b>	<p>➤ type « Infos Rapides »</p> <p>« 4 Pages » (Insee Première, the 4 pages on industrial statistics or equivalent)</p> <p>➤ type CD-Rom, « Insee-Résultats », Insee-résultats on the Web (Insee.fr) Minitel, web</p> <p>➤ articles, studies - Energy balance of France (SoeS)</p>