

Industry Trends in Relation to Energy Consumption

(In 10,000kl; crude oil equivalents)

Industry (=with a target in terms of energy consumption)	Fiscal 1990	Fiscal 1997	Fiscal 1998	Fiscal 1999	Fiscal 2000	Fiscal 2001	Fiscal 2002	Compared to fiscal 1990(%)	Compared to fiscal 2000(%)
1 Federation of Electric Power Companies	10,800	11,200	10,900	11,700	12,000	11,700	12,800	18.5%	9.4%
(Portion attributed to industry:these figures are used in the calculation of the 35-industry totals below)	1,210	1,300	1,240	1,280	1,300	1,270	1,410	16.5%	11.0%
2 Petroleum Association of Japan	1,282	1,700	1,666	1,671	1,675	1,672	1,651	28.7%	-1.3%
3 Japan Gas Association	68	52	49	49	46	43	45	-33.6%	5.4%
4 Japan Iron and Steel Federation()	6,396	6,411	6,032	6,170	6,003	5,849	5,972	-6.6%	2.1%
5 Japan Chemical Industry Association	2,807	3,147	3,058	3,168	3,129	2,990	3,024	7.7%	1.1%
6 Cement Association of Japan	861	851	756	747	745	714	674	-21.7%	-5.6%
7 Japan Paper Association	906	931	914	920	945	924	929	2.5%	0.6%
8 Communications Industry Association of Japan Japan Electronics and Information Technology Industry Association Japan Electric Manufacturers Association Japan Business Machine and Information System Industries Association	672	914	836	848	891	853	868	29.0%	1.7%
9 Japan Federation of Construction Contractors	429	416	409	336	324	301	286	-33.4%	-5.0%
10 Japan Automobile Manufacturers Association	410	376	356	343	333	313	316	-23.0%	0.9%
11 Japan Auto Parts Industries Association	379	416	402	395	372	362	379	-0.1%	4.7%
12 Japan Mining Industry Association	205	210	213	218	214	216	215	4.5%	-0.9%
13 Japan Federation of Housing Organizations	155	168	163	169	164	164	160	3.6%	-2.1%
14 Japan Lime Association()	92.9	73.2	65.9	70.5	71.8	64.2	68.9	-25.8%	7.3%
15 The Japan Rubber Manufacturers Association	90.5	94.0	94.0	95.2	91.6	88.9	93.1	2.9%	4.7%
16 Flat Glass Association()	71.4	65.0	58.8	55.4	53.8	55.1	53.3	-25.4%	-3.2%
17 Federation of Pharmaceutical Manufacturers' Association of Japan; Japan Pharmaceutical manufacturers Association	75.3	100	102	106	104	106	105	39.1%	-0.7%
18 Japan Aluminum Association	73.4	84.5	79.8	83.1	80.8	76.8	78.9	7.4%	2.7%
19 Brewers Association of Japan	52.6	58.8	58.9	56.8	52.6	51.9	48.1	-8.5%	-7.2%
20 Japan Electric Wire and Cable Makers' Association()	58.8	61.0	58.4	56.9	57.1	53.2	50.1	-14.7%	-5.8%
21 Japan Auto-body Industries Association, Inc.	48.4	48.1	48.1	47.7	49.0	49.4	50.3	4.0%	1.9%
22 Japan Dairy Industry Association	40.2	48.4	50.2	51.2	49.9	51.4	54.7	36.1%	6.5%
23 Japan Society of Industrial Machinery Manufacturers	37.8	37.0	34.8	33.2	33.2	31.8	31.7	-16.1%	-0.4%
24 Japan Brass Makers Association	37.0	35.4	31.6	32.7	33.3	26.7	27.8	-24.8%	4.3%
25 Japan Bearing Industrial Association	36.8	36.6	34.4	34.0	35.5	32.9	34.7	-5.7%	5.3%
26 Japan Sugar Refiners' Association	24.5	22.2	21.6	21.6	22.2	22.0	20.3	-17.2%	-8.0%
27 Japan Coal Energy Center()	21.1	8.7	9.0	8.7	8.0	6.5	1.8	-91.2%	-71.7%
28 Japan Sanitary Equipment Industry Association	22.4	21.4	18.3	18.4	18.3	18.2	17.0	-24.3%	-6.6%
29 The Japan Soft Drinks Association	20.3	30.7	32.5	35.4	38.1	39.9	41.2	102.7%	3.3%
30 Limestone Association of Japan	22.6	22.0	21.1	20.9	20.9	20.6	19.0	-15.9%	-8.0%
31 Japan machine Tool Builders' Association()	14.5	14.5	16.3	13.7	14.1	13.3	11.9	-17.9%	-10.4%
32 Flour Millers Association	10.8	12.6	12.9	12.7	12.5	12.4	12.5	15.7%	1.0%
33 The Shipbuilders' Association of Japan; The Cooperative Association of Japan Shipbuilders	9.8	14.3	13.9	13.6	12.6	12.5	15.6	58.9%	24.2%
34 Japan Industry Vehicles Association	3.2	3.5	3.3	3.4	3.4	3.0	3.1	-3.3%	3.6%
35 Japan Association of Rolling Stock Industries	2.4	2.0	2.0	2.0	1.9	1.9	1.7	-28.5%	-9.6%
Revisions (Note3)	-155	-166	-141	-144	-226	-210	-202		
Total	16,493	17,619	16,822	17,045	16,781	16,299	16,566	0.4%	1.6%
Average energy consumption in the past 6 years					16,855				

Note1: The Japan Coal Energy Center's goal is to achieve a reduction in amount of electric power used.

Note2: Total energy consumption for the 35 industries are calculated on the basis of "generating end" electric power input for the respective industries on a fiscal year basis. On the other hand, in follow-up surveys, industries may choose to report energy consumption in terms of "demand end" electric power input per unit output (as have Japan Gas Association, Japan Iron and Steel Federation, Communications Industry Association of Japan, Japan Electronics and Information Technology Industry Association, Japan electric Manufacturers Association, Japan Business Machine and Information System Industries Association, Japan Automobile manufacturers Association, Japan Mining Industry Association, Japan machine Tool Builders' Association)
Revisions are defined as the differences between the totals of data submitted by industries and the totals of the revised industry figures.

Note3: Due to a revision of the Caloric Value Table, calculations of emissions from FY2000 on are based on different heat conversion coefficients from those used through FY1999