

DATA PROFILE: Fukuoka Region, Japan



Population, Fukuoka Urban Area, 2010	2,350,000
Population, Fukuoka City, 2010	1,400,000 ¹
Employed Population, Fukuoka Urban Area, 2005	1,080,000 ²
Employed Population, Fukuoka City, 2005	650,000
Unemployed Population, Fukuoka Urban Area, 2005	79,000 ³
Unemployed Population, Fukuoka City, 2005	48,000 ⁴
Total GMP, Fukuoka Urban Area.....	9.3 Trillion Yen ⁵

ENERGY

Governance

Energy is privatized, and Kyushu Electric Power Co., Inc. supplies electricity and other services to the island of Kyushu (the most southerly of Japan's main islands where Fukuoka is located). The following energy data only applies to electricity use.

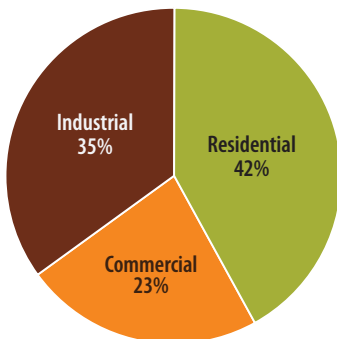
Energy Use per Capita

The average energy consumption per capita in the Kyushu area is 3,000 kWh per year (2010).

Source: Handbook of Electric Power Industry (2010 edition)

Energy Use by Sector

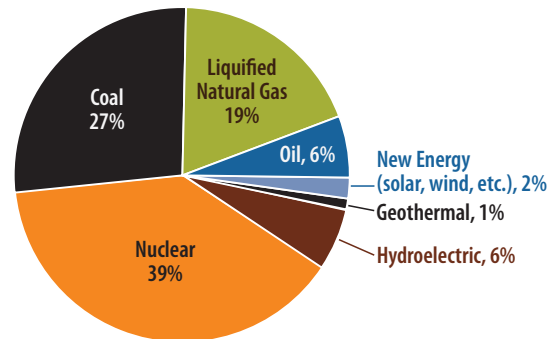
Energy Use by Sector, Kyushu Area (Average Figure)



Source: Kyushu Electric Power Co., Inc.

Energy Sources

Energy Sources, Kyushu (2001)



Source: Kyushu Electric Power Co., Inc. Power Supply Plan for FY2011

¹ Source: The Basic Resident Registration

² Employed population includes: at work (All persons who worked for pay or profit or worked as unpaid family workers for at least one hour during the survey week.) plus not at work (among the persons who were not at work during the survey week, the following are classified as employed persons not at work. 1) Employees who were absent from work but received or were to receive wages or salaries for the time off. 2) Self-employed workers whose absence from work has not exceeded 30 days).

³ Persons are classified as unemployed if they do not have a job, have actively looked for work during the survey period and are currently available for work. Actively looking for work may include the job seeking at the job center.

⁴ Source: 2000 and 2005 Population Census of Japan; 2002 and 2007 Employment Status Survey

⁵ Source: Gross Municipality Product Report by the Fukuoka Prefectural Government

Energy Pricing

METER RATES FOR GENERAL HOUSEHOLDS

CONTRACT CATEGORY			UNIT	RATE* (TAX INCLUDED)
A	Minimum charge	First 12kWh	(per contract)	294.00
	Energy charge	Over 12kWh	1kWh	16.10
B	Demand charge	10A	(per contract)	283.50
		15 A	(per contract)	425.25
		20 A	(per contract)	567.00
		30 A	(per contract)	850.50
		40 A	(per contract)	1,134.00
		50 A	(per contract)	1,417.50
		60 A	(per contract)	1,701.00
	Energy charge	First 120kWh	1kWh	16.10
		Over 120kWh up to 300kWh	1kWh	20.34
		Over 300kWh	1kWh	21.72
Minimum monthly charges		(per contract)	294.00	
C	Demand charge		.8kWh	283.50
	Energy Charge	First 120kWh	1kWh	16.10
		Over 120kWh up to 300kWh	1kWh	20.34
		Over 300kWh	1kWh	21.72

* If there is no electricity usage whatsoever, the demand charge will be halved.

Source: Electricity Rate, Kyushu Electric Power Co., Inc.

Greenhouse Gas Emissions

- Total emissions: 7,320 thousand metric tonnes
- Emissions per capita: 5,300 metric tonnes

GREEN HOUSE GAS EMISSIONS, 2008

	REDUCTION TARGETS FOR 2008 (SET IN 2004)	INCREASE AND DECREASE (2004 TO 2008)
Household (Emissions per household)	-8%	14%
Industry (Emissions per floor area)	-14%	20%
Automobile (Emissions per vehicle per capita)	-8%	-1%

Source: Annual Report on Environment in Fukuoka City

WASTE

Governance

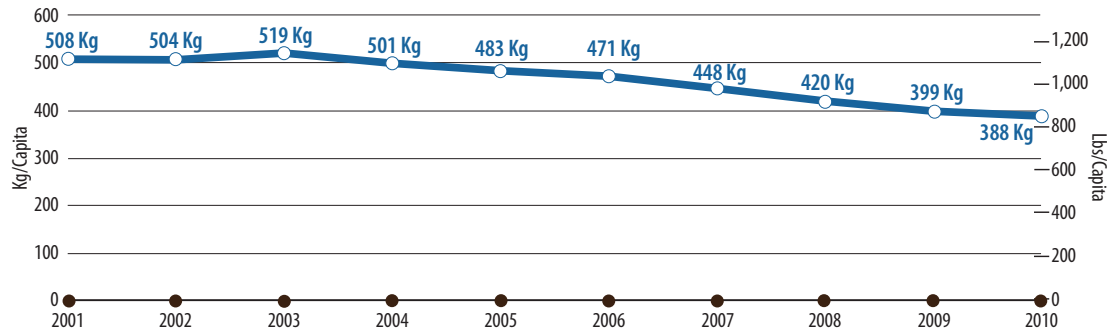
Waste is classified as either general or industrial waste by the Waste Management and Public Cleansing Law. General waste is defined as any waste other than industrial waste, including domestic waste generated from households and commercial waste generated by offices and restaurants. Industrial waste is dealt with by the individual corporations that generate it. The collection and transport of domestic waste is handled by approved collectors or the city, and the final disposal is handled by the city. Commercial waste collection and transport is handled by approved collectors or disposal agents, and the final disposal is handled by the city.

Recyclable items from domestic waste are collected by the city, publicly-run recycling stations, or private bodies of community or voluntary groups. The collection of recyclable items from commercial waste is done by a private body. Recyclable items are collected from treatment facilities of Fukuoka City and sold to private recycling manufacturers.

Solid Waste per Capita

Solid waste is the combined amount of domestic and commercial waste treatments and excludes recycling.

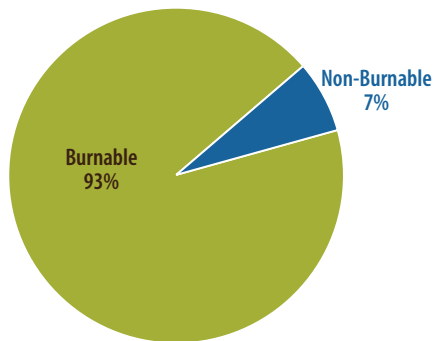
Annual Solid Waste per Capita, Fukuoka (2001 – 2010)



Source: The Third Fukuoka City Municipal Waste Management Plan

Solid Waste Disposal

Solid Waste Disposal, Fukuoka City



Source: Annual Report on Environment in Fukuoka City

Solid waste is divided into burnable (93%) and non-burnable (7%) garbage. The non-burnable waste is broken into smaller pieces, and the ferrous metal and aluminum is removed and buried in landfills. Burnable residues are incinerated and the ashes are landfilled. The heat produced by the incinerator can be used to generate electricity.

Solid Waste Reduction Targets (metric tonnes)

	2002	2010 TARGET (SET IN 2004)	PRELIMINARY REPORT FOR 2010 (ACTUAL WASTE)	2015 TARGET (SET IN 2004)
Domestic Waste	320,000	315,000	281,000	310,000
Commercial Waste	369,000	335,000	283,000	310,000
Total	689,000	650,000	564,000	620,000

Source: The Third Fukuoka City Municipal Waste Management Plan

Recycling Targets

	2002 (BASE YEAR)	2015 (TARGET YEAR)
Total	15%	30%

Source: The Third Fukuoka City Municipal Waste Management Plan

Waste Management Pricing

		PRICING	RATE
Domestic waste	Burnable, non-burnable, glass containers, PET bottles	Paid garbage bags designated by Fukuoka City	Price per bag: Large (45 yen/45 liter), Medium (30 yen/30 liter), Small (15 yen/15 liter)
	Oversized garbage	Disposal ticket	300 yen, 500 yen, 1,000 yen (per ticket)
Commercial waste	Burnable garbage, non-burnable garbage	Up to contract	Collection and transport charge = (143 yen/50 liter) + Disposal cost (14 yen/kg) Upper limit Until 2013/31/Mar – (9 yen/kg) from 2013/1/Apr to 2015/31/Mar – (11 yen/kg)

Source: The Fukuoka City Ordinance for Solid Waste Management and Waste Reduction

WATER

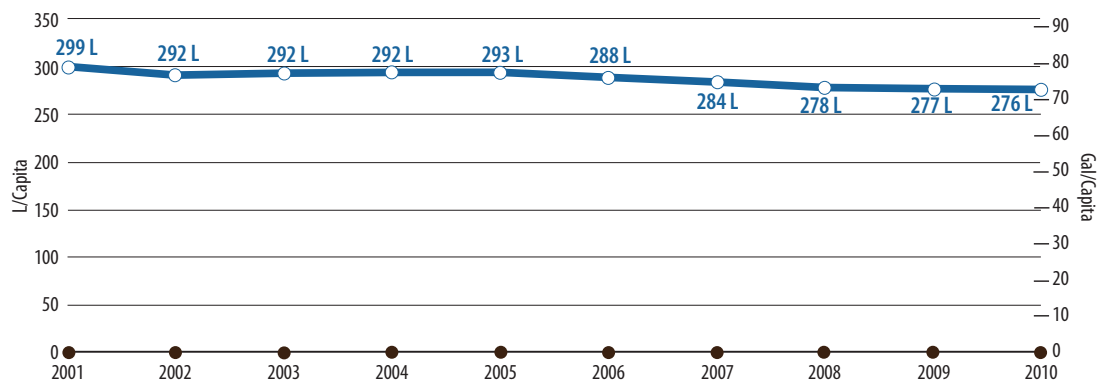
Governance

Drinking water, sewerage, rainwater drainage, and reclaimed water works are all operated by Fukuoka City. Part of the operation of treatment facilities for sewerage, rainwater drainage and reclaimed water is commissioned to private contractors.

Source: The Local Public Enterprise Law

Water Consumption per Capita

Daily Water Consumption per Capita, Fukuoka City (2001 – 2010)



Based on the Fukuoka Fundamental City Plan, Fukuoka's goal is to reduce water reduction to 310 liters/capita (81.89 gallons/capita) by 2015.

Source: The Annual Statistics Report of Fukuoka City Water Works

Note: The target goal is higher than actual 2010 consumption of 276 liters/capita. This is because when the target was set, the Water Works Bureau had projected that the water use amount would increase to this level, but as the table shows the increase was not as bad as expected.

Water Quality Targets

Japanese domestic water quality is regulated by the Water Works Law under which all water-related entities are obliged to meet the standards set by the government. Fukuoka City does not set standards by specific target year, but manages water quality by setting standards stricter than the national one.

ITEM	UNIT	NATIONAL WATER QUALITY STANDARD ¹	TARGET VALUE ²	AVERAGE (2011.4)
Trihalomethane	mg/L	less than 0.1	0.03 or less	0.014
Anion surfactant	mg/L	less than 0.2	0.15 or less	less than 0.02
Chromaticity	degree	less than 5	less than 1	less than 1
Turbidity	degree	less than 1 ³	less than 0.1	less than 0.1
Residual of chlorine	mg/L	less than 1.0 (more than 0.1) ³	0.9	0.42
2-Methylisoborneol	mg/L	less than 0.00001	0.000005 or less	less than 0.000001
Geosmin	mg/L	less than 0.00001	0.000005 or less	0.000001
Musty Odorant (TON)	degree	less than 3 ³	less than 1	less than 1
Potassium permanganate consumption	mg/L	less than 3 ³	2.5 or less	0.9
Ultraviolet absorbance	—	—	0.08 or less	0.028
Pesticides ⁴	—	1 ^{3,4}	0.1 ⁴	0.01 or less

Note: Drinking Water quality test results of Fukuoka City are an average of eight water supply stations.

¹ Tap water

² Purification Plant

³ Targets values are based on the complementary items for water quality management. (Those items are not-legally binding with target values and set to complement the standards.)

⁴ 101 items are listed as "Pesticides". The total of "each measurement value/each target value" should not be more than 1.

Source: Water Supply Act

Drinking Water Pricing

Water charges are calculated and charged once every two months on the basis of water consumption as measured by the bimonthly water meter reading. Rates are calculated according to a combination of minimum and commodity charges:

- Minimum charges are determined by a water rate system based on the diameter size of supply pipe.
- Commodity charges are determined by customer class and are billed to customers according to their purpose for using water. The rate for domestic use is less than the rate for commercial use.
- Commodity charges also include progressive water rate systems which is designed to promote water conservation as consumption increases, so the unit price per cubic meter also increases.

Bi-Monthly Base Charge

Water charges = (Minimum charge + Commodity charge) X 1.05 (The calculated amount includes local and consumption tax).

MINIMUM CHARGES

PURPOSE	DIAMETER OF SUPPLY PIPE(MM)	RATE(YEN)
Domestic, Industrial, Public bathhouse	13	1,700
	20	2,660
	25	6,220
	40	21,840
	50	42,200
	75	119,400
	100	258,400
	150	638,000
	200	1,022,000
	250	1,892,000

COMMODITY CHARGES

PURPOSE	DIAMETER OF SUPPLY PIPE(MM)	WATER CONSUMPTION	RATE PER 1M ³ (YEN)
Domestic	25mm and below	1m ³ -20m ³	17
		40mm and above	1m ³ -20m ³
		21m ³ -40m ³	155
		41m ³ -60m ³	243
		61m ³ -100m ³	284
		101m ³ -200m ³	335
		201m ³ over	387
Industrial	25mm and below	1m ³ -20m ³	17
		40mm and above	1m ³ -20m ³
		21m ³ -60m ³	243
		61m ³ -200m ³	335
		201m ³ -600m ³	416
		601m ³ -2,000m ³	497
		2,000m ³ over	542
Public bathhouse	25mm and below	1m ³ -20m ³	17
		40mm and above	1m ³ -20m ³
		21m ³ over	44
Temporary water supply*	1m ³ over	973	

* Temporary water supply for construction site etc. (Minimum charge is not added.)

Source: The Fukuoka City Ordinance for Water Supply

The information in this data profile was compiled by the City of Fukuoka City Government with edits and modifications by the IRBC Secretariat for space and content. For any questions regarding the information provided here, please contact:

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