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Transport, Energy and Communications DETEC
Swiss Federal Office of Energy SFOE

June 2010

Energy Consumption in Switzerland 2009

Extract from the Swiss Energy Statistics 2009

Available from August 2010 (German/French)

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Final Energy Consumption

Table 1

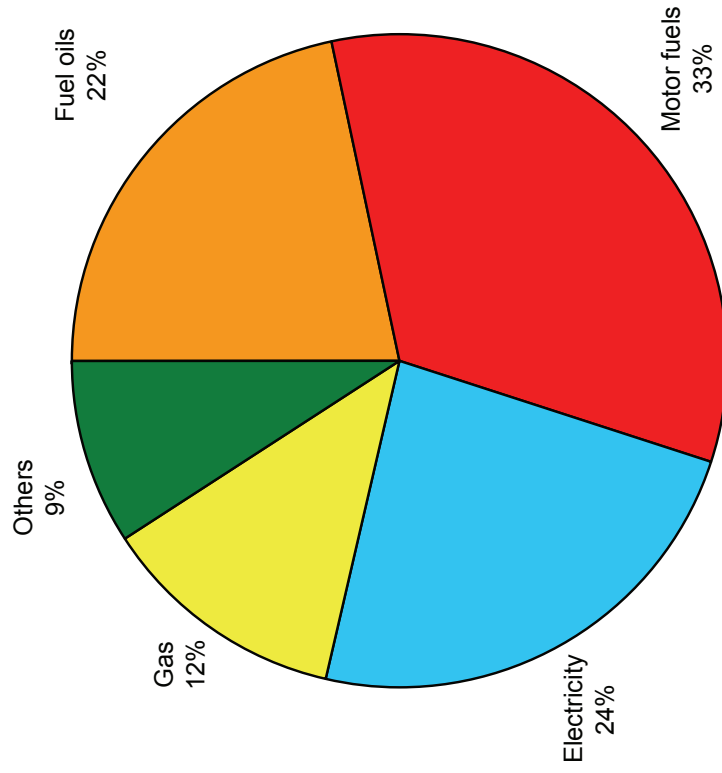
Energy source	Final consumption in original units		Final consumption in TJ		Change in % 2008-2009	Share in %	
	2008	2009	2008	2009		2008	2009
Petroleum products	11'633'000 t	11'330'000 t	496'170	483'280	- 2,6	55,1	55,1
Electricity	58'729 GWh	57'494 GWh	211'420	206'980	- 2,1	23,5	23,6
Gas *	30'767 GWh	29'539 GWh	110'760	106'340	- 4,0	12,3	12,1
Coal	261'000 t	243'000 t	6'720	6'290	- 6,4	0,7	0,7
Wood	-	-	34'910	35'660	2,1	3,9	4,1
District heating	4'492 GWh	4'461 GWh	16'170	16'060	- 0,7	1,8	1,8
Waste	-	-	12'170	10'640	- 12,6	1,4	1,2
Other renewable Energy	-	-	11'560	12'310	6,5	1,3	1,4
thereof Biofuels			490	350	-28,6	0,05	0,04
Biogas **			1'530	1'520	-0,7	0,17	0,17
Solar thermal			1'440	1'630	13,2	0,16	0,19
Ambient heat from soil, groundwater, air, etc.			8'100	8'800	8,6	0,90	1,00
Total final consumption	-	-	899'880	877'560	- 2,5	100	100

* Net calorific value (NCV: 36,3 MJ/Norm m³); in gas industry the gross calorific value (GCV: 40,3 MJ/Norm m³) is commonly used; NCV = 0,9 * GCV

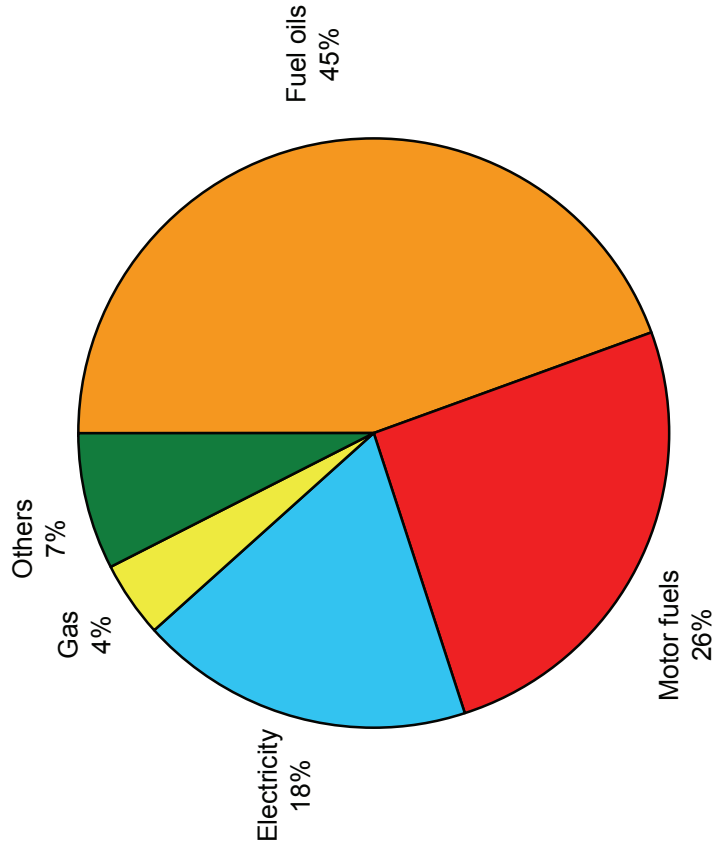
** In 2009, 150 TJ of Biogas was injected into the gas distribution system and is included in Gas (2008: 110 TJ)



Final Energy Consumption 2009
(Total: 877'560 TJ)



Final Energy Consumption 1980
(Total: 697'110 TJ)





Petroleum Products

Table 2

	Consumption in 1000 t		Consumption in TJ		Change in %	Share in %	
	2008	2009	2008	2009	2008-2009	2008	2009
<u>Fuel oils</u>							
Extra-light heating oil	4'432	4'259	188'810	181'440	- 3,9	38,1	37,5
Heavy fuel oil	95	69	3'910	2'840	-27,4	0,8	0,6
Petroleum coke	33	38	1'160	1'330	14,7	0,2	0,3
Others	94	100	4'320	4'600	6,5	0,9	1,0
Total fuel oils	4'654	4'466	198'200	190'210	- 4,0	39,9	39,4
<u>Motor fuels</u>							
Gasoline	3'375	3'283	143'440	139'530	- 2,7	28,9	28,9
Diesel oil	2'186	2'221	93'560	95'060	1,6	18,9	19,7
Aviation fuel	1'418	1'360	60 '970	58'480	- 4,1	12,3	12,1
Total motor fuels	6'979	6'864	297'970	293'070	- 1,6	60,1	60,6
<u>Total petroleum products</u>	11'633	11'330	496'170	483'280	- 2,6	100	100



Electricity

Table 3

	GWh (1 GWh = 3,6 TJ)		Change in % 2008-2009	Share in %	
	2008	2009		2008	2009
<u>Production:</u>					
Hydroelectric plants	37'559	37'136	- 1,1	56,1	55,8
Nuclear power plants	26'132	26'119	- 0,0	39,0	39,3
Conventional thermal power plants and other plants	3'276	3'239	- 1,1	4,9	4,9
Domestic production	66'967	66'494	- 0,7	100	100
Consumption by storage pumps (-)	2'685	2'523	- 6,0	4,0	3,8
Net production	64'282	63'971	- 0,5	96,0	96,2
Import (+)	50'273	52'002	3,4	-	-
Export (-)	51'408	54'159	5,4	-	-
Export balance	-1'135	-2'157	-	1,8	3,5
Domestic consumption	63'147	61'814	- 2,1	100,0	100,0
Losses (-)	4'418	4'320	- 2,2	7,0	7,0
Final consumption	58'729	57'494	- 2,1	93,0	93,0
<u>Final consumption by sector:</u>				100	100
Households	17'897	17'920	0,1	30,5	31,2
Agriculture	1'013	1'002	- 1,1	1,7	1,7
Industry	19'280	18'209	- 5,6	32,8	31,7
Services	15'730	15'663	- 0,4	26,8	27,2
Transport*	4'809	4'700	- 2,3	8,2	8,2

* of which railways 2009: 3'064 GWh (2008: 3'142 GWh)



Gas

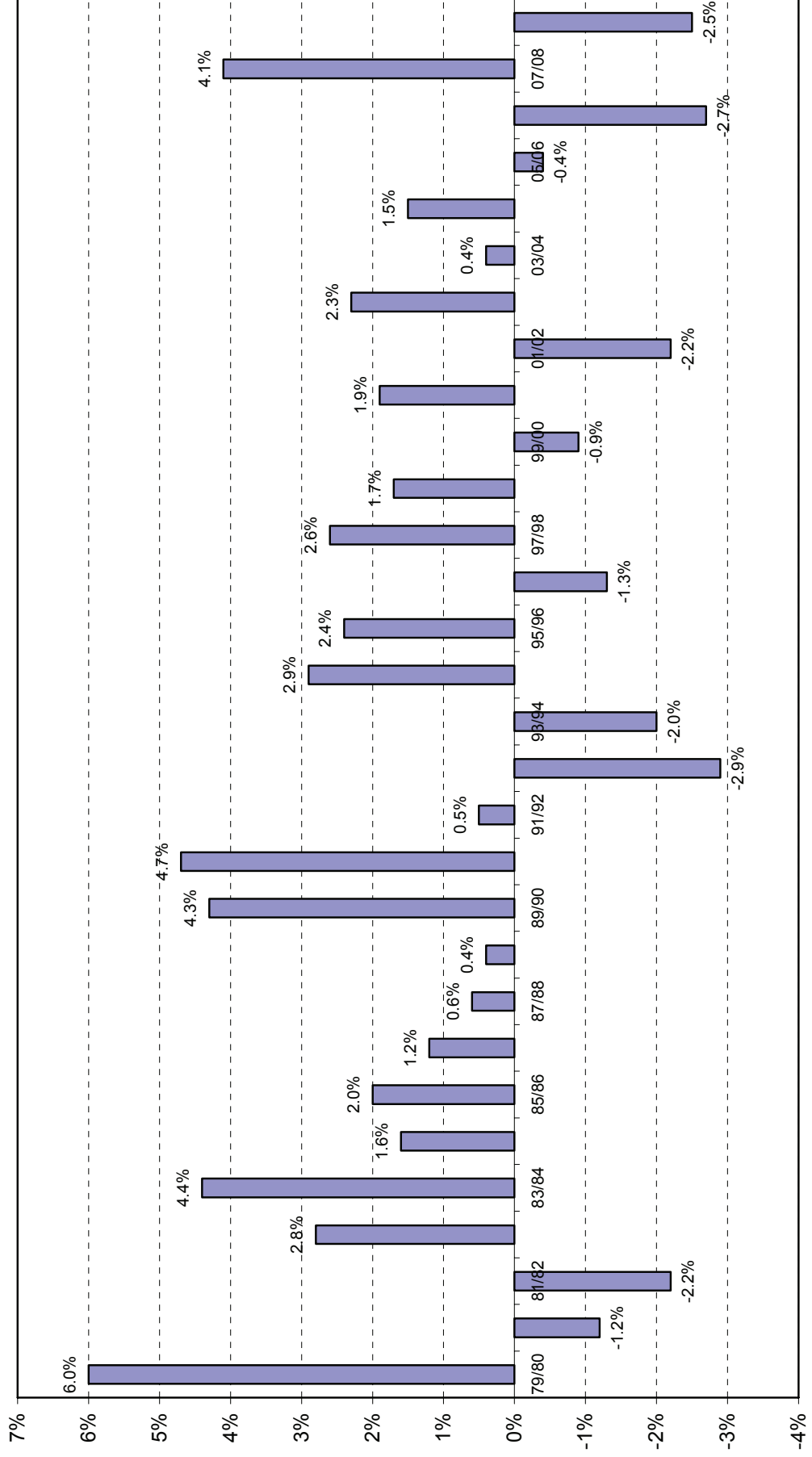
Table 4

	GWh* (1 GWh = 3,6 TJ)		TJ		Change in %
	2008	2009	2008	2009	2008-2009
Gas-works gas made of propane/butane	15	-	50	-	-
Feed-in of biogas into the gas distribution system	30	40	110	150	-
Imports of natural gas	32'648	31'335	117'530	112'810	- 4,0
Total	32'693	31'375	117'690	112'960	- 4,0
less:					
Natural gas used for district heating and electricity production	1'698	1'617	6'110	5'820	-
Distribution losses and gasworks' own consumption	228	219	820	800	-
Final consumption	30'767	29'539	110'760	106'340	- 4,0

* Net calorific value (NCV: 36,3 MJ/Norm m³); in gas industry the gross calorific value (GCV: 40,3 MJ/Norm m³) is commonly used; NCV = 0,9 * GCV.



Rate of Change in Final Energy Consumption per Year





Final Energy Consumption since 1910

