
Energy Consumption in Switzerland 2018

Extract from the Swiss Overall Energy Statistics 2018

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BBL/Bundespublikationen, 3003 Bern

Phone +41 58 465 50 50

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Final Energy Consumption

Table 1

Energy source	Final consumption in original units		Final consumption in TJ		Change in %	Share in %	
	2017	2018	2017	2018	2017-2018	2017	2018
Petroleum products	9'743'000 t	9'556'000 t	418'020	409'930	-1.9	49.2	49.3
Electricity	58'483 GWh	57'647 GWh	210'540	207'530	-1.4	24.8	25.0
Gas¹	33'024 GWh	31'188 GWh	118'880	112'280	-5.6	14.0	13.5
Coal	190'000 t	176'000 t	4'610	4'290	-6.9	0.5	0.5
Wood	-	-	40'870	38'310	-6.3	4.8	4.6
District heating	5'503 GWh	5'389 GWh	19'810	19'400	-2.1	2.3	2.3
Waste	-	-	10'670	10'870	1.9	1.3	1.3
Other renewable Energy thereof:	-	-	26'420	28'270	7.0	3.1	3.4
Biogenic fuels	-	-	5'520	7'520	36.2	0.6	0.9
Biogas ²	-	-	1'740	1'840	5.7	0.2	0.2
Solar thermal	-	-	2'510	2'560	2.0	0.3	0.3
Ambient heat from soil, groundwater, air, etc.	-	-	16'650	16'350	-1.8	2.0	2.0
Total final consumption	-	-	849'820	830'880	-2.2	100.0	100.0

¹ 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

² In 2018, 1'170 TJ of Biogas was injected into the gas distribution system and is included in Gas (2017: 1'080 TJ)

Petroleum Products

Table 2

Energy source	Final consumption in 1000 t		Final consumption in TJ		Change in %	Share in %	
	2017	2018	2017	2018	2017-2018	2017	2018
Fuel oils	2'983'000	2'699'000	127'930	115'630	-9.6	30.6	28.2
thereof:							
Extra-light heating oil	2'884'000	2'593'000	123'720	111'240	-10.1	29.6	27.1
Heavy fuel oil	2'000	1'000	80	40	-50.0	0.0	0.0
Petroleum coke	24'000	34'000	760	1'080	42.1	0.2	0.3
Others	73'000	71'000	3'360	3'270	-2.7	0.8	0.8
Motor fuels	6'760'000	6'857'000	290'100	294'300	1.4	69.4	71.8
thereof:							
Gasoline	2'338'000	2'301'000	99'600	98'020	-1.6	23.8	23.9
Aviation fuel	1'758'000	1'858'000	75'950	80'270	5.7	18.2	19.6
Diesel oil	2'664'000	2'698'000	114'550	116'010	1.3	27.4	28.3
Final consumption	9'743'000	9'556'000	418'020	409'930	-1.9	100.0	100.0

Electricity

Table 3

	GWh (1 GWh =3.6 TJ)		Change in %	Share in %	
	2017	2018	2017-2018	2017	2018
<u>Production</u>					
Hydroelectric plants	36'666	37'428	2.1	59.6	55.4
Nuclear power plants	19'499	24'414	25.2	31.7	36.1
Conventional thermal power plants:	2'851	3'008	5.5	4.6	4.5
thereof:					
non-renewable	1'669	1'839	10.2	2.7	2.7
renewable	1'182	1'169	-1.1	1.9	1.7
Miscellaneous renewables:	2'471	2'708	9.6	4.0	4.0
thereof:					
Wood	322	290	-9.9	0.5	0.4
Biogas	334	352	5.4	0.5	0.5
Photovoltaics	1'683	1'944	15.5	2.7	2.9
Wind	133	122	-8.3	0.2	0.2
Domestic production	61'487	67'558	9.9	100.0	100.0
Consumption by storage pumps (-)	4'160	3'987	-4.2	6.8	5.9
Net production	57'327	63'571	10.9	93.2	94.1
Import (+) ¹	36'496	31'020	-15.0	-	-
Export (-) ¹	30'946	32'607	5.4	-	-
Domestic consumption	62'877	61'984	-1.4	100.0	100.0
Losses (-)	4'394	4'337	-1.3	7.0	6.4
Final consumption	58'483	57'647	-1.4	93.0	93.0
<u>Final consumption by sector:</u>					
Households	19'228	19'085	-0.7	32.9	33.1
Agriculture	972	966	-0.6	1.7	1.7
Industry	17'896	17'311	-3.3	30.6	30.0
Services	15'664	17'195	9.8	26.8	29.8
Transport ²	4'723	3'090	-34.6	8.1	5.4

¹ physical

² thereof railways 2018: 3'090 GWh (2017: 3'149 GWh)

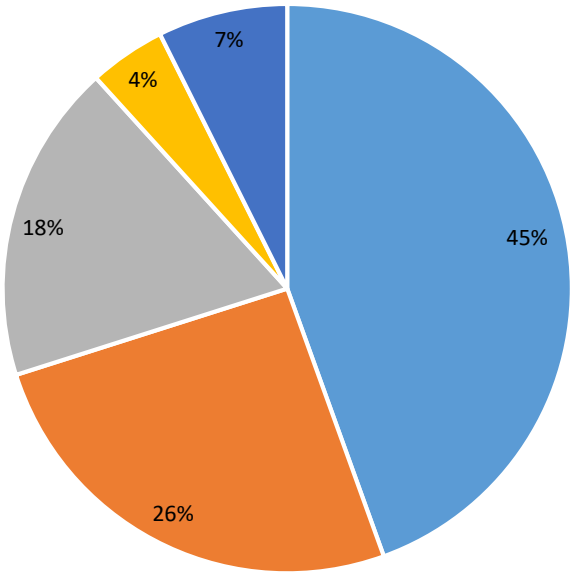
Gas

Table 4

	GWh ¹ (1 GWh =3.6 TJ)		TJ		Change in %
	2017	2018	2017	2018	2017-2018
Imports of natural gas	34'998	33'197	125'990	119'510	-5.1
Feed-in of biogas into the gas distribution system	301	325	1'080	1'170	8.3
Total	35'299	33'522	127'070	120'680	-5.0
Natural gas used for district heating and electricity production (-)	2'167	2'228	7'800	8'020	
Distribution losses and gasworks' own consumption (-)	108	106	390	380	
Final consumption	33'024	31'188	118'880	112'280	-5.6

¹ 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.

Final Energy Consumption 1980
(Total: 698'290 TJ)



Final Energy Consumption 2018
(Total: 830'880 TJ)

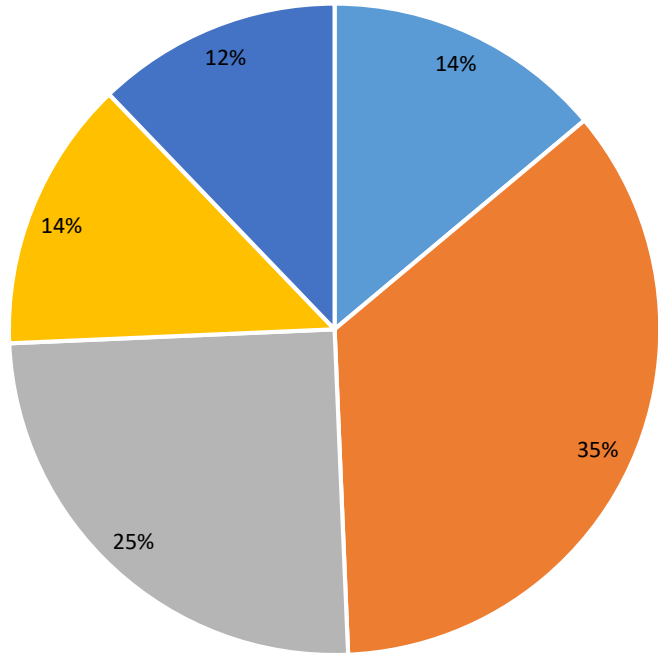
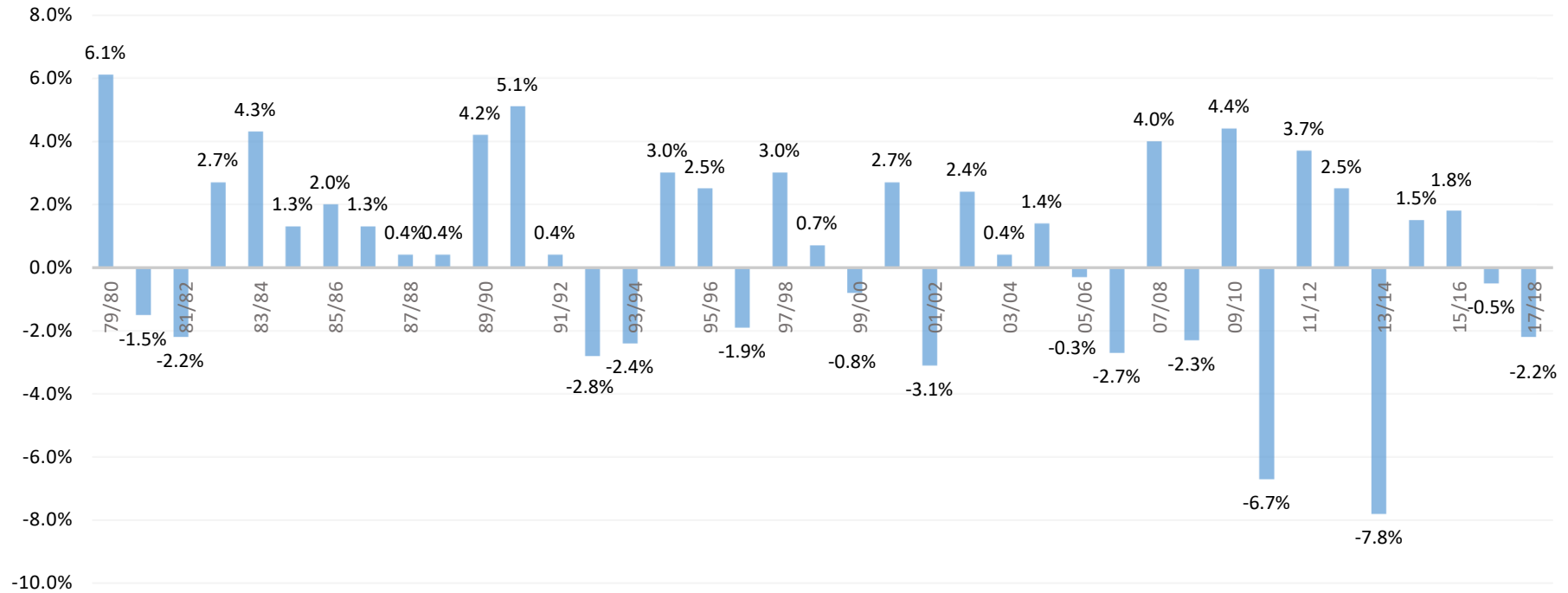


Figure 1

- Fuel oils
- Motor fuels
- Electricity
- Gas
- Others

Rate of Change in Final Energy Consumption per Year

Figure 2



Final Energy Consumption since 1910

Figure 3

