



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

June 2018

Energy Consumption in Switzerland 2017

Extract from the Swiss Overall Energy Statistics 2017

Available from August 2018 (German/French)

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Final Energy Consumption

Table 1

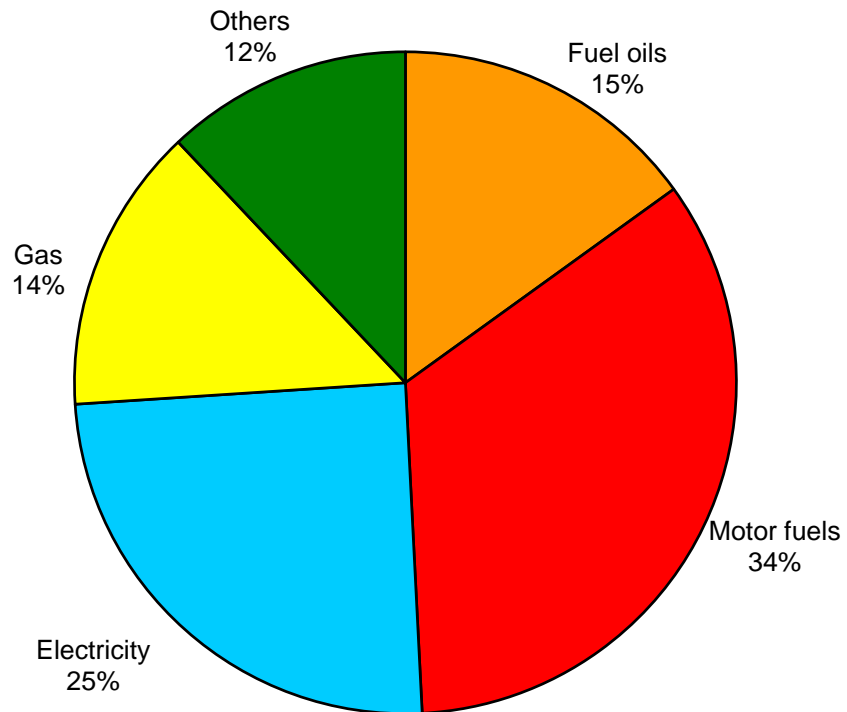
Energy source	Final consumption in original units		Final consumption in TJ		Change in % 2016-2017	Share in %	
	2016	2017	2016	2017		2016	2017
Petroleum products	9'982'000 t	9'743'000 t	428'170	418'020	-2,4	50,2	49,2
Electricity	58'239 GWh	58'483 GWh	209'660	210'540	0,4	24,6	24,8
Gas *	32'563 GWh	33'028 GWh	117'230	118'900	1,4	13,7	14,0
Coal	197'000 t	190'000 t	4'790	4'610	-3,8	0,6	0,5
Wood	-	-	38'980	38'610	-0,9	4,6	4,5
District heating	5'444 GWh	5'575 GWh	19'600	20'070	2,4	2,3	2,4
Waste	-	-	10'790	12'500	15,8	1,3	1,5
Other renewable Energy	-	-	23'680	26'540	12,1	2,8	3,1
thereof Biogenic fuels			3'560	5'630	58,1	0,4	0,7
Biogas **			1'740	1'750	0,6	0,2	0,2
Solar thermal			2'450	2'510	2,4	0,3	0,3
Ambient heat from soil, groundwater, air, etc.			15'930	16'650	4,5	1,9	2,0
Total final consumption	-	-	852'900	849'790	-0,4	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

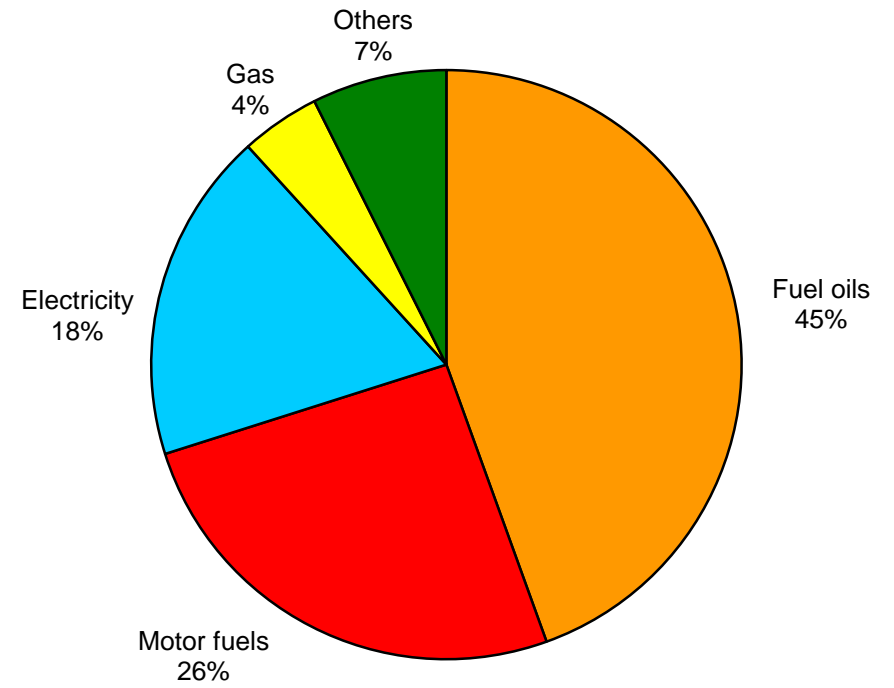
** In 2017, 1'100 TJ of Biogas was injected into the gas distribution system and is included in Gas (2016: 1'000 TJ)



Final Energy Consumption 2017
(Total: 849'790 TJ)



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





Petroleum Products

Table 2

	Consumption in 1000 t		Consumption in TJ		Change in %	Share in %	
	2016	2017	2016	2017	2016-2017	2016	2017
<u>Fuel oils</u>							
Extra-light heating oil	3'085	2'884	132'350	123'720	-6,5	30,9	29,6
Heavy fuel oil	3	2	120	80	-33,3	0,0	0,0
Petroleum coke	28	24	890	760	-14,6	0,2	0,2
Others	65	73	2'990	3'360	12,4	0,7	0,8
Total fuel oils	3'181	2'983	136'350	127'930	-6,2	31,8	30,6
<u>Motor fuels</u>							
Gasoline	2'412	2'338	102'750	99'600	-3,1	24,0	23,8
Diesel oil	2'672	2'664	114'900	114'550	-0,3	26,8	27,4
Aviation fuel	1'717	1'758	74'170	75'950	2,4	17,3	18,2
Total motor fuels	6'801	6'760	291'820	290'100	-0,6	68,2	69,4
<u>Total petroleum products</u>	9'982	9'743	428'170	418'020	-2,4	100	100



Electricity

Table 3

	GWh (1 GWh = 3,6 TJ)		Change in %	Share in %	
	2016	2017		2016	2017
<u>Production:</u>					
Hydroelectric plants	36'326	36'666	0,93	59,0	59,6
Nuclear power plants	20'235	19'499	-3,6	32,8	31,7
Conventional thermal power plants: <i>thereof</i>	3'072	2'852	-7,2	5,0	4,6
- <i>non-renewable</i>	1'891	1'669	-11,7	3,1	3,1
- <i>renewable</i>	1'181	1'183	0,2	1,9	1,9
Miscellaneous renewables: <i>thereof</i>	1'983	2'470	24,6	3,2	4,0
- <i>Wood</i>	220	322	46,4	0,4	0,5
- <i>Biogas</i>	321	333	3,7	0,5	0,5
- <i>Photovoltaics</i>	1'333	1'683	26,3	2,2	2,7
- <i>Wind</i>	109	133	22,0	0,2	0,2
Domestic production	61'616	61'487	-0,2	100	100
Consumption by storage pumps (-)	2'922	4'160	42,4	4,7	6,8
Net production	58'694	57'327	-2,3	95,3	93,2
Import (+)*	34'096	36'496	-4,0	-	-
Export (-)*	30'173	30'946	-9,2	-	-
Export balance	3'923	5'550	41,5	6,3	8,8
Domestic consumption	62'617	62'877	0,4	100	100
Losses (-)	4'378	4'394	0,4	7,0	7,0
Final consumption	58'239	58'483	0,4	93,0	93,0
<u>Final consumption by sector:</u>				100	100
Households	19'078	19'228	0,8	32,8	32,9
Agriculture	976	972	-0,4	1,7	1,6
Industry	17'761	17'896	0,8	30,5	30,6
Services	15'622	15'664	0,3	26,8	26,8
Transport**	4'802	4'723	-1,6	8,2	8,1

* physical

** thereof railways 2017: 3'149 GWh (2016: 3'199 GWh)



Gas

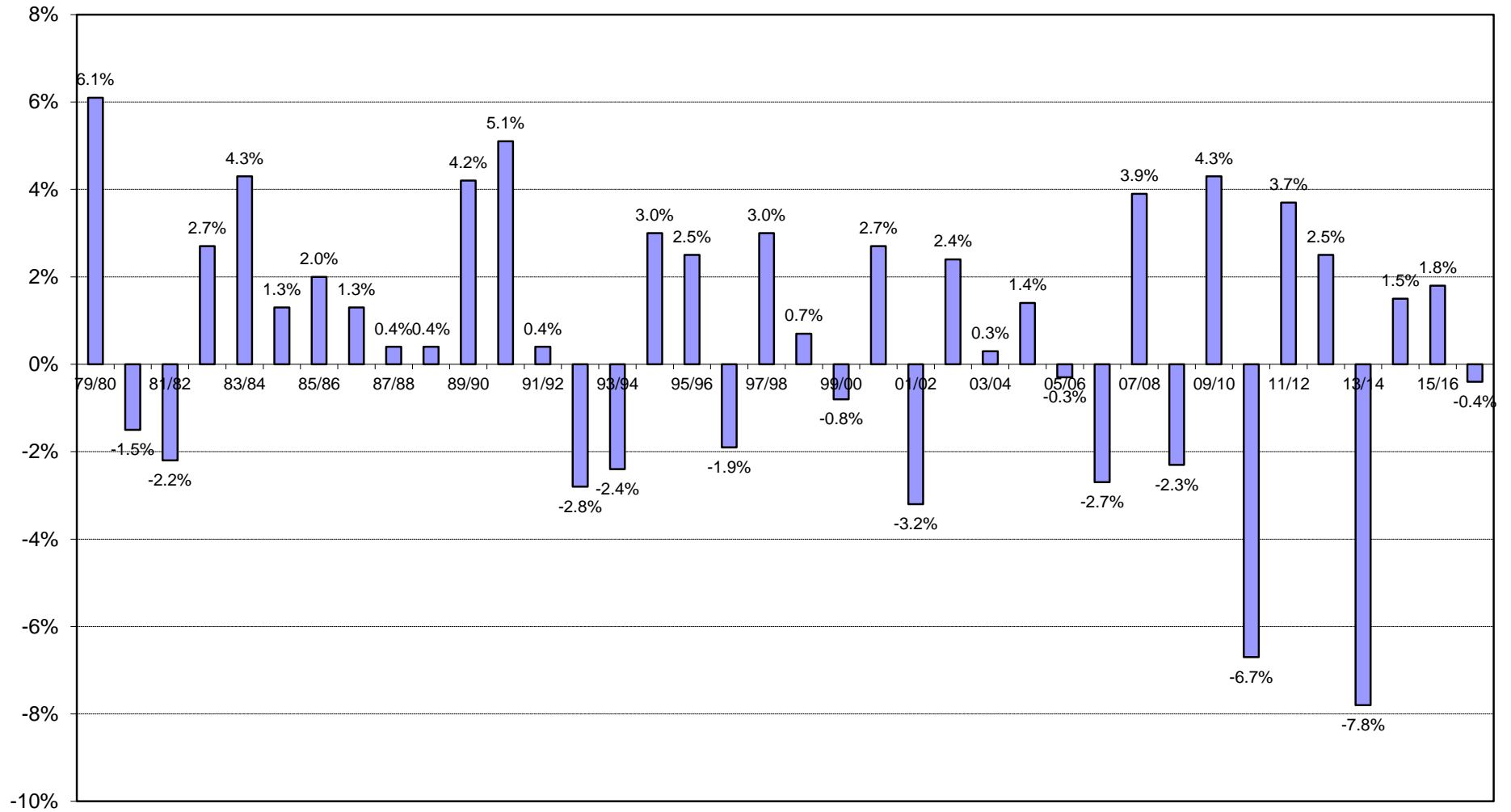
Table 4

	GWh* (1 GWh = 3,6 TJ)		TJ		Change in %
	2016	2017	2016	2017	2016-2017
Gas-works gas made of propane/butane	-	-	-	-	-
Feed-in of biogas into the gas distribution system	277	307	1'000	1'100	-
Imports of natural gas	34'849	34'998	125'460	125'990	0,4
Total	35'126	35'305	126'460	127'090	0,4
less:					
Natural gas used for district heating and electricity production	2'453	2'167	8'830	7'800	-
Distribution losses and gasworks' own consumption	110	110	400	390	-
Final consumption	32'563	33'028	117'230	118'900	1,4

* 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

