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Transport, Energy and Communications DETEC

Swiss Federal Office of Energy SFOE

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Energy Consumption in Switzerland 2024

Extract from the Swiss Overall Energy Statistics 2024

Available from August 2025 (German/French)

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Switzerland's energy balance for 2024 (in TJ)

Table 1a

	Wood	Coal	Waste	Crude oil	Petroleum products	Gas	Hydro	Nuclear	Other renewable energy	Electricity	District heating	Total
Inland production	48'860		55'440	0			174'010		56'320			334'630
+ Imports	2'400	2'510	4'740	112'000	285'470	100'480		250'720	8'750	93'440		860'510
+ Exports	-80	-10		0	-16'290					-145'270		-161'650
+ Change in stock ¹		60		780	-4'350							-3'510
= Total energy supply	51'180	2'560	60'180	112'780	264'830	100'480	174'010	250'720	65'070	-51'830	0	1'029'980
+ Transformation sector:												
• Hydro plants							-174'010			174'010		0
• Nuclear plants								-250'720		82'740	1'370	-166'610
• Conventional thermal electricity, CHP and heat plants	-4'970	0	-48'240		-390	-6'570				9'110	25'440	-25'620
• Gas-fired power plants						0						0
• Refinery				-112'780	112'780							0
• Renewables	-4'290					1'700			-26'680	25'930		-3'340
+ Own use, distribution losses, used for storage					-5'490	-130				-32'920	-2'730	-41'270
+ Non-energy use					-16'920							-16'920
= Total final consumption	41'920	2'560	11'940	0	354'810	95'480	0	0	38'390	207'040	24'080	776'220

¹ + decrease in stock

- increase in stock

Balance of renewable energy 2024

Table1b

	Hydro- power	Wood and wood charcoal	Municipal and industrial waste	Gas	Liquid biofuels	Biogases	Solar	Wind	Ambient heat	Renewable electricity	Renewable heat	Total
Inland production	174'013	48'864	23'871		442	6'712	24'053	614	24'502	0	0	303'071
+ Imports		2'400	2'371		8'754					7'641		21'166
+ Exports		-80								-46'493		-46'573
+ Change in stock												
= Total energy supply	174'013	51'184	26'242	0	9'196	6'712	24'053	614	24'502	-38'852	0	277'664
+ Transformation sector:												
Hydropower plants												
Run-of-river power plants	-69'851									69'851		0
Storage power plants	-104'162									86'821		-17'341
Solar use												
Photovoltaics							-21'458			21'458		0
Use of ambient heat												
Use of biomass												
Automatic wood-fired systems		-5'966		0						1'402	2'657	-1'908
Thermal plants with wood part		-3'301								830	1'032	-1'439
Biogas plants in agriculture				72		-1'604				742		-790
Wind plants								-614		614		0
Use of renewable waste												
Waste incineration plants			-23'766							3'926	7'961	-11'879
Thermal power plants for industrial waste			-32							24		-8
Landfill gas power plants						-4				0	0	-4
Biogas plants in industry				680		-1'273				306		-287
Energy use in wastewater treatment plants												
Sewage gas plants				837		-1'590				553		-200
Biogas plants treating industrial wastewater				107		-141				25		-9
+ Own use and distribution losses												
Renewable share of distribution losses										-10'586	-1'186	-11'772
= Total final consumption	0	41'917	2'443	1'696	9'196	2'100	2'594	0	24'502	137'115	10'464	232'027

Final Energy Consumption

Table 2

Energy source	Final consumption in original units		Final consumption in TJ		Change in %	Share in %	
	2023	2024	2023	2024	2023-2024	2023	2024
Petroleum products	8'310'000 t	8'266'000 t	356'570	354'810	-0.5	46.4	45.7
Electricity	56'710 GWh	57'512 GWh	204'160	207'040	1.4	26.6	26.7
Gas¹	26'088 GWh	26'522 GWh	93'920	95'480	1.7	12.2	12.3
Coal	126'000 t	107'000 t	3'060	2'560	-16.3	0.4	0.3
Wood	-	-	42'250	41'920	-0.8	5.5	5.4
District heating	6'125 GWh	6'689 GWh	22'050	24'080	9.2	2.9	3.1
Waste	-	-	11'250	11'940	6.1	1.5	1.5
Other renewable Energy thereof:	-	-	35'060	38'390	9.5	4.6	4.9
Biogenic fuels	-	-	7'350	9'200	25.2	1.0	1.2
Biogas ²	-	-	2'120	2'100	-0.9	0.3	0.3
Solar thermal	-	-	2'630	2'590	-1.5	0.3	0.3
Ambient heat from soil, groundwater, air, etc.	-	-	22'970	24'500	6.7	3.0	3.2
Total final consumption	-	-	768'320	776'220	1.0	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 2024, 1'700 TJ of Biogas was injected into the gas distribution system and is included in Gas (2023: 1'580 TJ)

Petroleum Products

Table 3

Energy source	Final consumption in t		Final consumption in TJ		Change in %	Share in %	
	2023	2024	2023	2024	2023-2024	2023	2024
Fuel oils	2'060'000	1'962'000	88'320	84'200	-4.7	24.8	23.7
thereof:							
Extra-light heating oil	1'965'000	1'884'000	84'300	80'820	-4.1	23.6	22.8
Heavy fuel oil	1'000	0	40	0	-	0.0	0.0
Petroleum coke	24'000	15'000	760	480	-36.8	0.2	0.1
Others	70'000	63'000	3'220	2'900	-9.9	0.9	0.8
Motor fuels	6'250'000	6'304'000	268'250	270'610	0.9	75.2	76.3
thereof:							
Gasoline	2'073'000	2'050'000	88'310	87'330	-1.1	24.8	24.6
Aviation fuel	1'649'000	1'799'000	71'240	77'720	9.1	20.0	21.9
Diesel oil	2'528'000	2'455'000	108'700	105'570	-2.9	30.5	29.8
Final consumption	8'310'000	8'266'000	356'570	354'810	-0.5	100.0	100.0

Electricity

Table 4

	GWh (1 GWh =3.6 TJ)		Change in %	Share in %	
	2023	2024	2023-2024	2023	2024
<u>Production</u>					
Hydroelectric plants	40'780	48'337	18.5	56.1	59.6
Nuclear power plants	23'334	22'983	-1.5	32.1	28.4
Conventional thermal power plants:	2'493	2'530	1.5	3.4	3.1
thereof:					
non-renewable	1'442	1'433	-0.6	2.0	1.8
renewable	1'051	1'097	4.4	1.4	1.4
Miscellaneous renewables:	6'137	7'204	17.4	8.4	8.9
thereof:					
Wood	606	620	2.3	0.8	0.8
Biogases	448	452	0.9	0.6	0.6
Photovoltaics	4'914	5'961	21.3	6.8	7.4
Wind	169	171	1.2	0.2	0.2
Domestic production	72'744	81'054	11.4	100.0	100.0
Consumption by storage pumps (-)	5'375	4'817	-10.4	7.4	5.9
Net production	67'369	76'237	13.2	92.6	94.1
Import (+) ¹	27'462	25'955	-5.5	-	-
Export (-) ¹	33'856	40'354	19.2	-	-
Domestic consumption	60'975	61'838	1.4	100.0	100.0
Losses (-)	4'265	4'326	1.4	7.0	7.0
Final consumption	56'710	57'512	1.4	93.0	93.0
<u>Final consumption by sector:</u>				100	100
Households	19'426	19'818	2.0	34.3	34.5
Agriculture	935	925	-1.1	1.6	1.6
Industry	16'434	16'419	-0.1	29.0	28.5
Services	14'596	14'744	1.0	25.7	25.6
Transport ²	5'319	5'606	5.4	9.4	9.7

¹ physical

² thereof railways 2024: 3'077 GWh (2023: 3'022 GWh)

thereof electromobility 2024: 1'109 GWh (2023: 858 GWh)

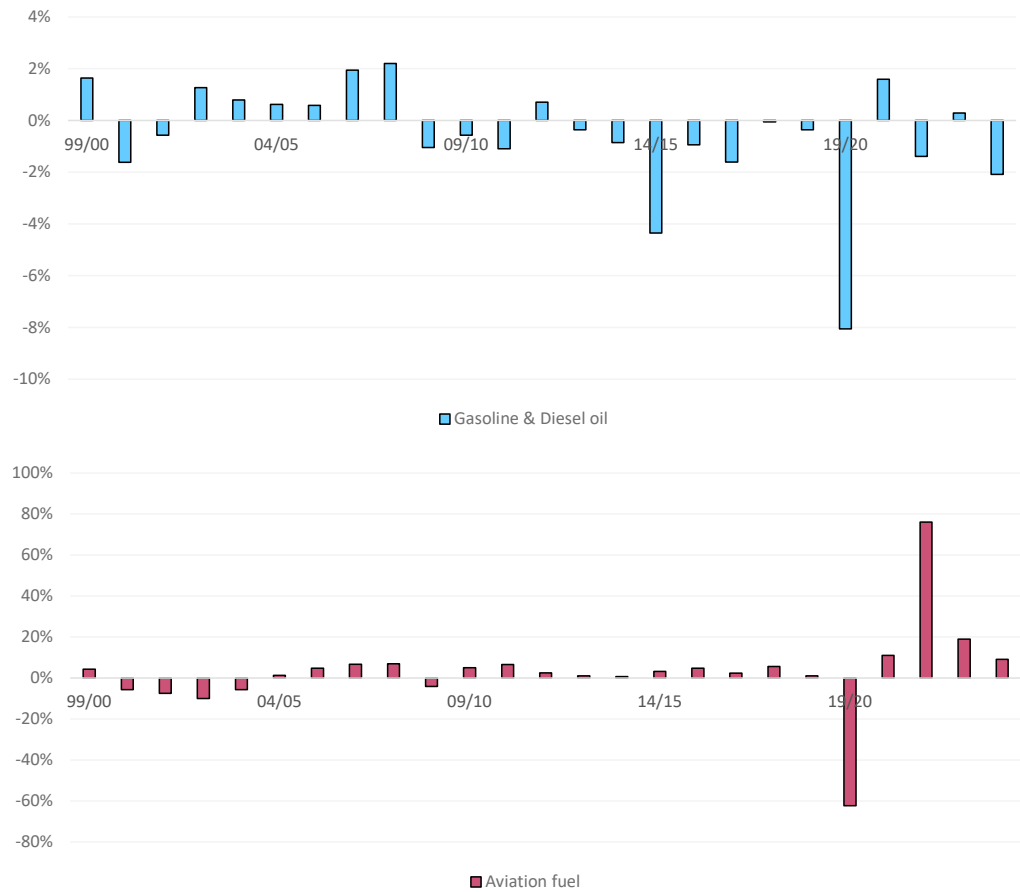
Gas

Table 5

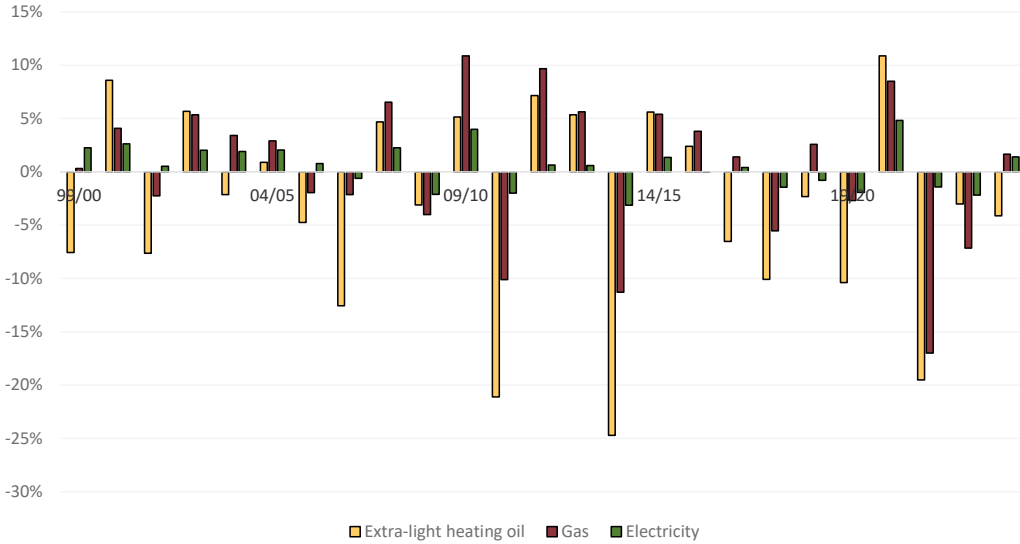
	GWh ¹ (1 GWh =3.6 TJ)		TJ		Change in %
	2023	2024	2023	2024	2023-2024
Imports of natural gas	27'483	27'911	98'930	100'480	1.6
dont LGN	43	53	150	190	26.7
Feed-in of biogas into the gas distribution system	438	471	1'580	1'700	7.6
Total	27'921	28'382	100'510	102'180	1.7
Natural gas used for district heating and electricity production (-)	1'797	1'825	6'470	6'570	
Distribution losses and gasworks' own consumption (-)	36	35	120	130	
Final consumption	26'088	26'522	93'920	95'480	1.7

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.

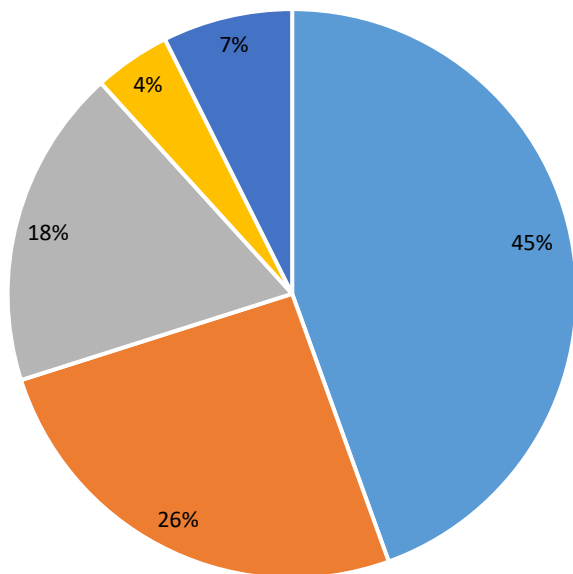
Changes in consumption of gasoline & diesel oil and aviation fuel, 2000-2024



Changes in consumption of electricity, gas and heating oil, 2000-2024



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



Final Energy Consumption 2024
(Total: 776'220 TJ)

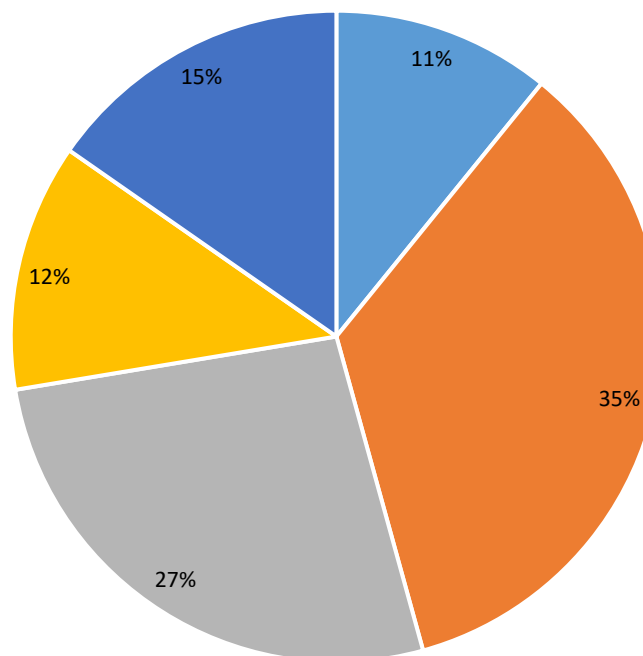
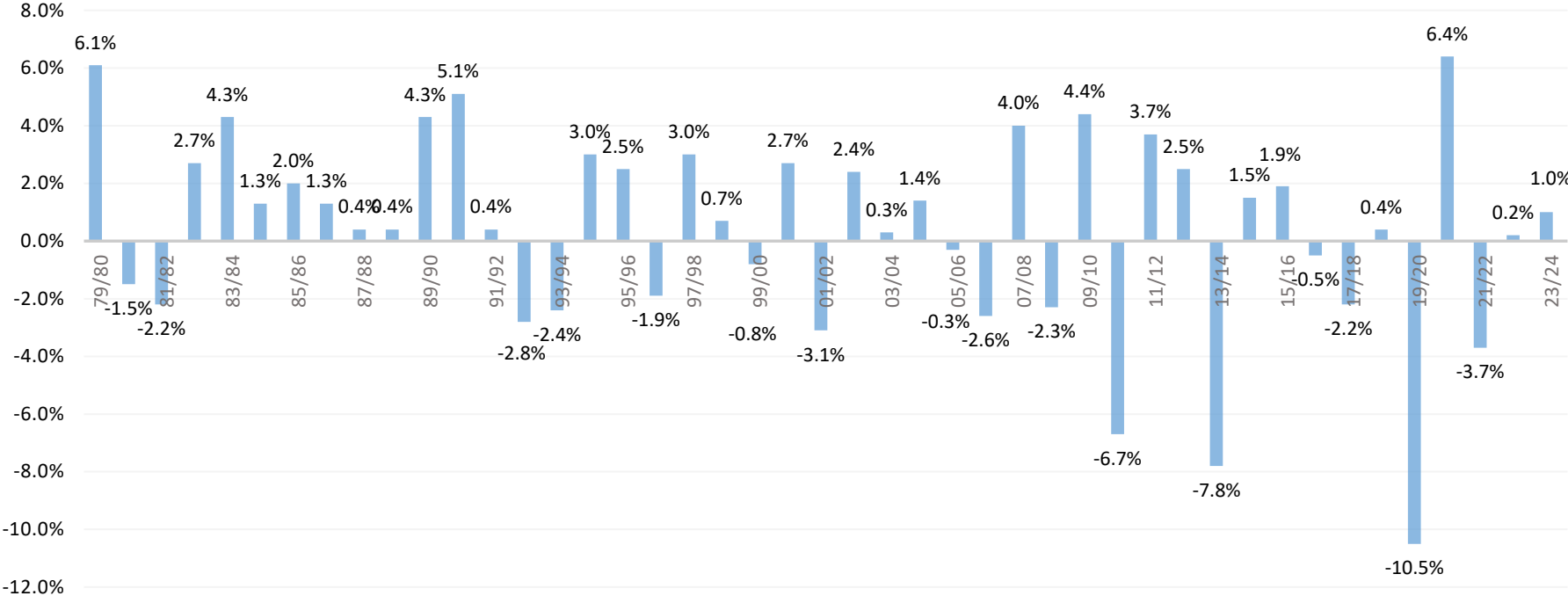


Figure 3

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

Rate of Change in Final Energy Consumption per Year

Figure 4



Final Energy Consumption since 1910

Figure 5

