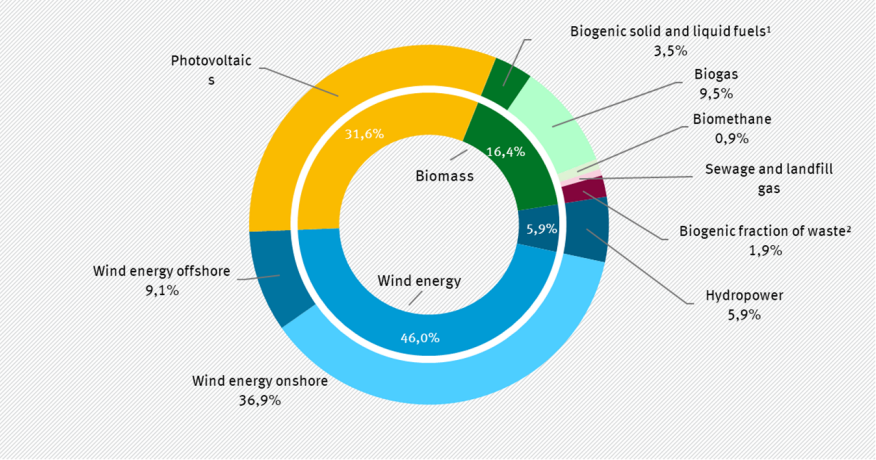


Gross electricity production from renewable energy sources in Germany in the year 2025

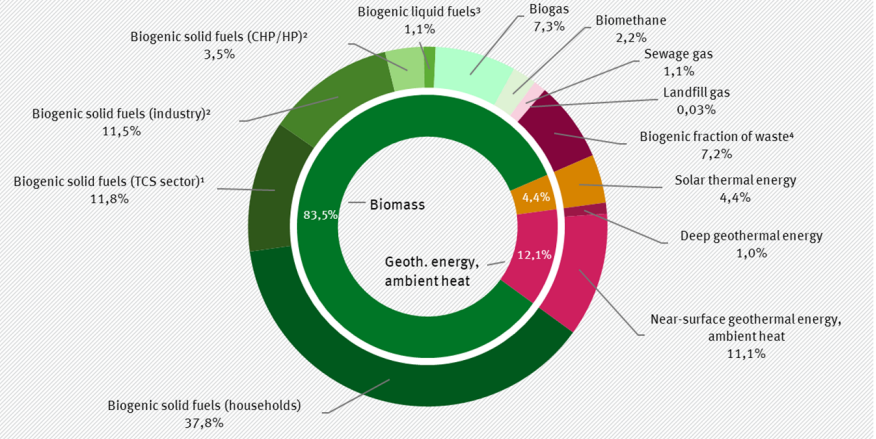
Total: 291,5 Terawatthours (TWh)



¹ Incl. sewage sludge; ² biogenic fraction of waste in waste incineration plants estimated at 50 %
Notice: electricity production from geothermal power plants (0,1%) not shown because of very small share
Source: Working Group on Renewable Energy-Statistics (AGEE-Stat); as of September 2026

Final energy consumption from renewable energy sources for heating and cooling in Germany in

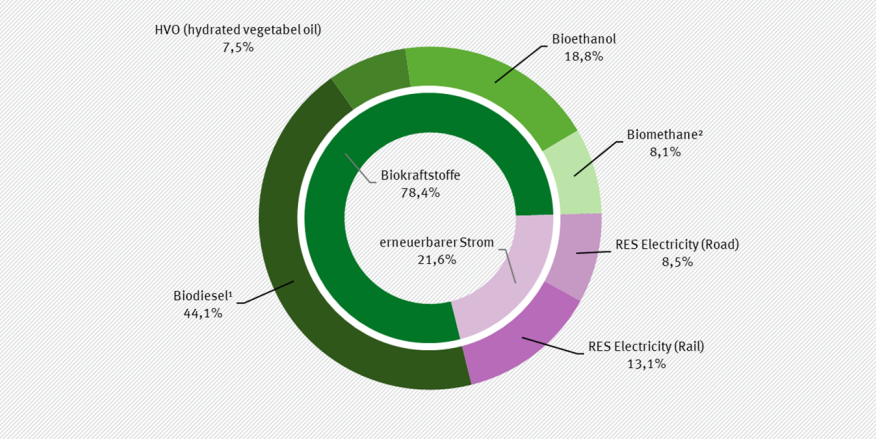
Total: 212,2 terawatthours (TWh)



¹ TCS corresponds to trade, commercial and service sector; ² incl. sewage sludge and charcoal; ³ incl. biofuels used in agriculture, forestry, construction and military;
Source: Working Group on Renewable Energy-Statistics (AGEE-Stat); as of September 2026

Final energy consumption from renewable sources in the transport sector¹ in Germany in the year

Total: 48,3 terawatthours (TWh)



¹ consumption fuel in the transport sector (excl. agriculture, forestry, construction and military), plus electricity
² based on heating value, from 2023 incl. Bio-LNG
Notice: share of vegetable oil and RFNBO not shown because of very small contribution
Source: Working Group on Renewable Energy-Statistics (AGEE-Stat); as of September 2026

Umwelt
Bundesamt

AGEE
stat
Arbeitsgruppe Erneuerbare Energien - Statistik

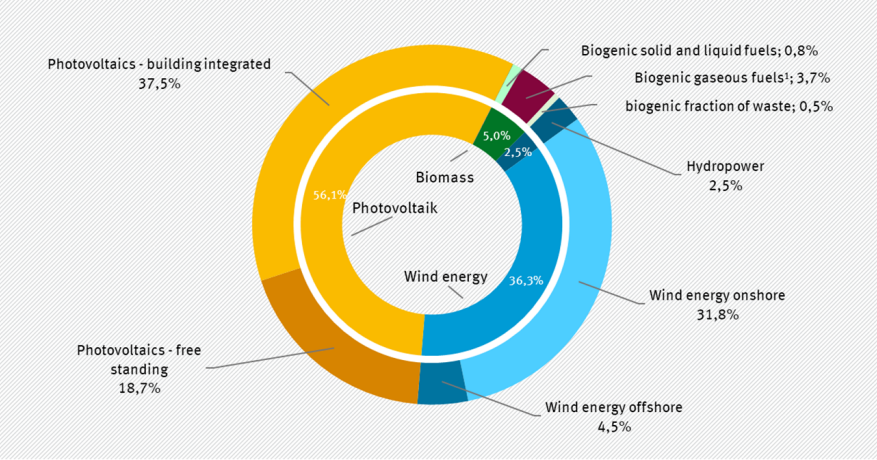
Renewable Energy Sources in Germany
Key information of the year 2025 at a glance

Working Group on Renewable Energy-Statistics (AGEE-Stat)
Status: September 2026

Renewable energy sources in the year 2025		RE 2025	Share of renewable energy	avoided GHG-emissions
		[GWh]	[%]	[1.000 t CO ₂ -Äq.]
Gross electricity production	Hydropower	17.080	3,2	12.084
	Wind energy onshore	107.608	20,3	71.634
	Wind energy offshore	26.553	5,0	18.037
	Solar Photovoltaic	92.200	17,4	58.854
	Solid biofuels & sewage sludge	10.007	1,9	6.483
	Liquid biofuels	82	< 0,1	14
	Biogas	27.722	5,2	12.365
	Biomethane	2.713	0,5	1.305
	Sewage gas	1.567	0,3	957
	Landfill gas	159	< 0,1	94
	Biogenic fraction of waste	5.586	1,1	3.952
	Geothermal energy	226	< 0,1	130
Total		291.503	55,1	185.909
Final energy consumption for heating and cooling	Solid biofuels & charcoal (households)	80.155	7,2	13.107
	Solid biofuels & charcoal (TCS sector)	25.140	2,3	5.425
	Solid biofuels & sewage sludge (industry)	24.502	2,2	6.863
	Solid biofuels & sewage sludge (HP/CHP)	7.336	0,7	1.848
	Liquid biofuels	2.264	0,2	438
	Biogas	15.438	1,4	2.628
	Biomethane	4.641	0,4	735
	Sewage gas	2.331	0,2	724
	Landfill gas	72	< 0,1	24
	Biogenic fraction of waste	15.297	1,4	3.608
	Solar thermal energy	9.238	0,8	2.513
	Deep geothermal energy	2.105	0,2	604
Final energy consumption transport	Near-surface geothermal energy & ambient heat	23.640	2,1	4.916
	Total	212.159	19,2	43.433
	Biodiesel / HVO	24.876	4,1	7.258
	Bioethanol	9.068	1,5	2.688
	Biomethane	3.898	0,6	2.223
	Bio-Jetfuel	85	< 0,1	-
	RFNBO	11	< 0,1	-
	RE electricity consumption transport	10.404	1,7	3.563
	Total	48.342	8,0	15.732

Installed capacity for renewables-based electricity generation in Germany in the year 2025

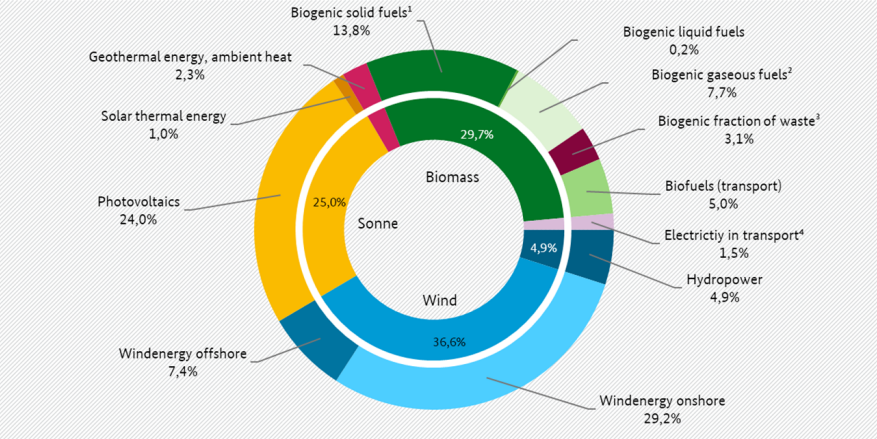
Total: 214,5 Gigawatt (GW)



¹ Biogas, biomethane, landfill gas and sewage gas
Notice: geothermal power plants are not shown here because of their very small share (0,03%).
Source: Working Group on Renewable Energy-Statistics (AGEE-Stat); as of September 2026

Greenhouse gas emissions avoided through the use of renewable energy sources in the year 2025

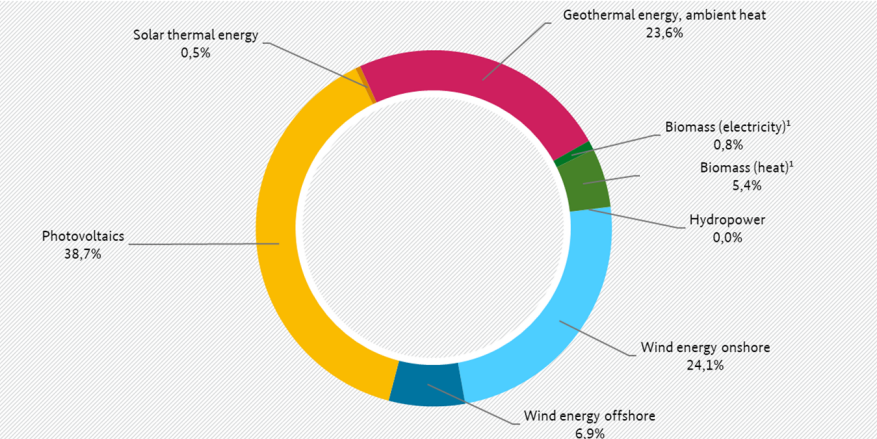
Total: 245,1 million tons CO₂-equivalents



¹ incl. sewage sludge, without charcoal; ² biogas, biomethane, sewage gas and landfill gas; ³ biogenic fraction of waste in waste incineration plants estimated at 50 %; ⁴ electricity consumption in the transport sector according to German electricity mix
Source: AGEE-Stat based on data of the German Environment Agency (UBA); as of September 2026

Investment in construction of renewable energy plants in Germany in the year 2025

Total investment: 36,6 billion Euro



¹ Solid, liquid and gaseous biomass
Source: Centre for Solar and Hydrogen Research Baden-Württemberg (ZSW); as of September 2026

Development of renewable energy sources		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Gross final energy consumption EU-Directive ¹	TWh	388,6	407,4	432,5	446,4	465,4	485,7	510,2	498,7	514,9	557,2
Gross electricity production	TWh	191,1	217,7	225,3	243,6	253,5	240,1	256,4	276,3	287,7	291,5
Final energy consumption for heating and cooling	TWh	163,5	167,6	174,8	175,3	176,8	194,6	204,0	186,8	197,1	212,2
Final energy consumption in the transport sector ²	TWh	33,6	34,6	36,0	36,0	44,3	39,9	41,4	44,8	43,1	48,3
Primary energy consumption	PJ	1.678,0	1.787,0	1.832,0	1.895,0	1.973,0	1.970,0	2.054,0	2.058,0	2.127,0	2.206,0

¹ according to the European Directive EU-RL 2009/28/EG (RED I), EU-RL (EU) 2018/2001 (RED II), EU-RL (EU) 2023/2413;
² consumption of biogenic fuels, RFNBO and renewables-based electricity in the transport sector (excluding consumption in agriculture, forestry and military)

Shares of renewable energy sources in %		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
of gross final energy consumption EU-Directive ¹	%	14,9	15,5	16,7	17,3	19,1	19,3	20,8	21,5	22,5	23,9
of gross national electricity consumption	%	31,8	36,2	37,9	42,2	45,4	41,8	46,4	53,0	54,4	55,1
of final energy consumption for heating and cooling	%	13,2	13,5	14,4	14,3	14,7	15,4	17,5	17,4	18,1	19,2
of final energy consumption in the transport sector	%	5,2	5,2	5,6	5,5	7,5	6,7	6,9	7,6	7,3	8,0
of primary energy consumption	%	12,4	13,2	13,9	14,8	16,6	15,8	17,6	19,4	20,1	20,8