

Table 17.06-- ELECTRICITY GENERATION, BY SOURCE: 2009 TO 2022

[Millions of kWh generated]

Year	Total	Petroleum	Coal	Wind	Biomass 1/
2009	11,010.534	8,289.107	1,500.166	251.427	284.427
2010	10,836.036	8,087.337	1,545.513	261.120	283.474
2011	10,723.333	7,923.925	1,424.036	340.812	312.627
2012	10,469.268	7,482.760	1,537.340	378.234	280.976
2013	10,267.052	7,222.766	1,403.754	503.310	329.364
2014	10,204.158	6,925.919	1,511.184	578.617	334.030
2015	10,119.500	7,023.150	1,337.412	612.772	320.941
2016	9,948.846	6,640.316	1,497.380	639.127	359.466
2017	9,812.968	6,633.596	1,375.724	532.055	292.762
2018	9,796.773	6,748.947	1,311.203	601.934	305.513
2019	9,749.997	6,864.169	1,301.946	529.310	291.542
2020	9,079.019	6,149.205	1,165.147	592.238	256.221
2021	9,182.190	6,155.207	1,084.555	657.891	282.637
2022	9,337.434	6,655.178	647.758	625.422	277.000
Year	Geothermal	Hydro	Other gases 2/	Solar	Others 3/
2009	167.591	112.649	22.345	1.390	381.432
2010	200.595	70.423	21.915	1.770	363.880
2011	223.888	93.141	35.250	3.593	366.061
2012	260.997	114.581	47.036	4.608	362.736
2013	274.841	78.295	41.330	19.466	393.927
2014	253.841	94.083	62.204	39.262	405.019
2015	230.340	121.170	50.155	54.397	369.163
2016	260.102	90.849	51.006	88.511	322.089
2017	322.592	66.075	52.022	175.019	363.123
2018	110.089	96.520	55.722	184.576	382.269
2019	(4/)	94.542	5.624	268.138	394.726
2020	9.640	98.820	2.874	484.030	320.844
2021	183.751	114.971	-	507.234	195.944
2022	208.346	110.081	-	555.043	258.545

1/ Biomass includes biogenic municipal solid waste, other biomass liquid (biofuel), other biomass solids agricultural by-products, and wood and wood waste.

2/ Other gases include blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

3/ Others include other fuel, including but not limited to non-biogenic municipal solid waste and energy storage.

4/ In May 2018, the Puna Geothermal Venture facility shut down due to a volcanic eruption and reopened in October 2020. Residual fuel was used during the closure period.

Source: U.S. Department of Energy, Energy Information Administration, Form EIA-923 detailed data with previous form data (EIA-906/920) <<https://www.eia.gov/electricity/data/eia923/>> accessed July 12, 2024 and calculations by Hawaii State Department of Business, Economic Development and Tourism.