



Australian Government

Department of the Environment and Energy

Australian Energy Statistics, Table O

Australian electricity generation, by fuel type, physical units

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Table O1
Australian electricity generation, by fuel type, physical units

	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels																												
Black coal	87,573.0	89,511.0	94,325.1	97,872.7	100,544.1	102,522.1	106,089.6	109,452.2	116,969.5	118,586.3	123,833.5	134,264.0	116,774.7	115,296.6	121,182.3	127,788.5	130,231.6	132,368.5	129,569.3	127,270.5	123,724.5	116,948.8	116,654.4	111,491.1	105,772.4	107,639.4	114,295.0	118,264.0
Brown coal	33,594.0	36,048.0	34,559.0	33,248.0	34,890.0	35,832.0	39,427.0	41,893.0	46,633.0	49,703.0	50,200.0	52,223.0	56,493.0	55,160.3	55,572.8	53,377.8	54,552.8	54,375.8	54,658.7	56,981.4	56,068.3	55,298.1	55,067.7	47,555.1	46,076.2	50,970.3	48,795.9	43,633.8
Natural gas	14,359.0	10,772.0	11,633.0	12,295.0	12,199.0	14,913.0	12,445.0	11,426.0	12,934.0	16,001.0	16,245.0	17,271.0	31,730.0	29,375.3	30,919.4	23,802.9	22,725.9	31,849.9	34,955.8	37,660.4	44,585.4	48,996.2	48,571.6	51,053.4	54,393.9	52,916.9	50,536.1	51,257.1
Oil products	3,552.0	3,396.0	2,362.0	2,421.0	2,320.0	2,738.0	2,805.0	2,175.0	1,821.0	1,729.0	1,784.0	2,044.0	2,446.0	1,661.0	1,388.7	2,841.0	3,058.0	2,893.0	4,058.0	3,388.0	3,106.8	3,093.8	2,702.5	4,464.3	5,012.4	6,828.5	5,655.6	6,288.4
Other a														1,792.2	1,817.0	434.0	517.0	479.0	106.0	3,579.9	2,991.0	2,716.1	1,088.1	1,945.3				
Total non-renewable	139,078.0	139,727.0	142,879.1	145,836.7	149,953.1	156,005.1	160,766.6	164,946.2	178,357.5	186,019.3	192,062.5	205,802.0	207,443.7	203,285.4	210,880.2	208,244.2	211,085.3	221,966.2	223,347.8	228,880.1	230,476.0	227,053.0	224,084.2	216,509.2	211,254.7	218,355.2	219,282.5	219,443.3
Renewable fuels																												
Biomass	750.0	769.0	670.0	670.0	670.0	723.0	928.0	965.0	1,029.0	1,133.0	1,134.0	645.0	950.0	1,583.6	1,799.5	3,830.0	3,911.0	3,953.0	4,596.0	2,795.2	2,777.4	2,101.7	3,043.7	3,143.5	3,499.4	3,592.2	3,789.9	3,625.1
Wind					4.0	7.0	7.0	7.0	8.0	28.0	58.0	210.0	364.0	703.1	705.0	885.0	1,713.1	2,611.1	3,093.1	3,823.8	5,051.7	6,084.9	6,969.7	7,959.6	10,252.0	11,466.6	12,199.5	12,482.8
Hydro	14,880.0	16,103.0	15,768.0	16,953.0	16,649.0	16,239.0	15,731.0	16,852.0	15,733.0	16,563.0	16,720.0	16,933.0	16,054.0	16,490.0	16,331.1	15,612.2	16,029.2	14,517.0	12,056.9	11,869.4	13,548.7	16,806.7	14,083.3	18,269.6	18,421.0	13,445.0	15,318.2	16,531.3
Large-scale solar PV																									49.7	107.2	457.2	672.4
Small-scale solar PV			10.9	13.3	15.9	18.9	23.4	27.8	33.5	37.7	43.5	50.0	58.3	58.3	68.1	77.8	90.3	104.7	122.8	155.6	424.9	1,530.4	2,558.7	3,826.3	4,366.3	5,424.1	6,381.0	7,399.3
Geothermal														0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.2	0.5
Total renewable	15,630.0	16,872.0	16,448.9	17,636.3	17,338.9	16,987.9	16,689.4	17,851.8	16,803.5	17,761.7	17,955.5	17,838.0	17,426.3	18,835.0	18,904.2	20,405.5	21,744.1	21,186.3	19,869.3	18,644.5	21,803.1	26,524.2	26,656.0	33,199.4	36,588.7	34,035.7	38,146.0	40,711.3
Total	154,708.0	156,599.0	159,328.0	163,473.0	167,292.0	172,993.0	177,456.0	182,798.0	195,161.0	203,781.0	210,018.0	223,640.0	224,870.0	222,120.4	229,784.4	228,649.7	232,829.4	243,152.5	243,217.1	247,524.7	252,279.1	253,577.2	250,740.2	249,708.6	247,843.4	252,390.8	257,428.6	260,154.6

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal	115,330.3	120,831.9
Brown coal	47,008.3	38,312.7
Natural gas	48,891.7	54,929.2
Oil products	6,006.7	6,285.4
Total non-renewable	217,237.0	220,359.2
Renewable fuels		
Biomass	3,578.1	3,636.9
Wind	13,027.5	12,668.1
Hydro	18,051.9	13,933.2
Large-scale solar PV	591.2	765.9
Small-scale solar PV	6,880.9	8,082.0
Geothermal	0.4	0.5
Total renewable	42,130.0	39,086.5
Total	259,367.0	259,445.7

Totals may not add due to rounding.
a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.
(e) estimate only, see method note

Table O2
Electricity generation in New South Wales, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal	67,650.3	64,398.6	60,732.2	60,453.7	56,798.6	54,626.3	52,562.2	55,334.5	56,105.2
Brown coal									
Natural gas	2,445.1	4,681.3	4,742.7	4,212.1	5,168.7	5,528.3	4,528.4	4,628.6	3,291.6
Oil products	24.7	5.6	61.4	42.1	190.9	170.7	284.3	289.5	316.2
Other a	336.6	493.6	266.1						
Total non-renewable	70,456.7	69,579.1	65,802.4	64,707.9	62,158.2	60,325.3	57,374.9	60,252.6	59,712.9
Renewable fuels									
Biomass	674.7	681.1	613.3	822.3	838.8	882.3	1,023.2	1,046.3	822.3
Wind	41.3	432.5	530.1	697.6	832.6	899.2	1,376.0	1,898.8	1,865.4
Hydro	3,173.7	3,820.8	5,267.0	3,792.8	5,651.6	4,213.1	3,113.7	5,191.0	6,201.0
Large-scale solar PV						10.6	60.2	399.5	567.6
Small-scale solar PV	36.3	119.2	526.3	657.7	857.6	964.9	1,211.2	1,461.9	1,706.8
Geothermal									
Total renewable	3,926.0	5,053.6	6,936.7	5,970.4	8,180.6	6,970.1	6,784.3	9,997.6	11,163.2
Total	74,382.7	74,632.7	72,739.1	70,678.3	70,338.8	67,295.4	64,159.2	70,250.2	70,876.1

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal	54,111.0	57,455.0
Brown coal		
Natural gas	3,540.0	3,857.6
Oil products	308.7	320.9
Total non-renewable	57,959.7	61,633.5
Renewable fuels		
Biomass	811.8	822.3
Wind	2,064.5	1,492.3
Hydro	7,137.9	4,115.5
Large-scale solar PV	506.9	611.5
Small-scale solar PV	1,577.8	1,864.7
Geothermal		
Total renewable	12,098.8	8,906.3
Total	70,058.5	70,539.7

Totals may not add due to rounding.

a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.

(e) estimate only, see method note

Table O3
Electricity generation in Victoria, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal								31.9	
Brown coal	52,094.0	51,541.7	51,066.5	52,059.7	45,317.6	43,977.7	48,336.8	46,202.2	43,633.8
Natural gas	1,451.9	1,697.9	1,289.8	1,142.5	3,247.7	3,239.3	2,390.9	1,892.2	2,587.8
Oil products	20.4	1.1	38.2	4.0	10.7	145.8	156.0	70.6	140.2
Other a	61.1	115.9	114.5						
Total non-renewable	53,627.4	53,356.6	52,509.0	53,206.2	48,576.0	47,362.8	50,883.7	48,197.0	46,361.8
Renewable fuels									
Biomass	292.0	303.4	339.6	859.3	845.1	886.9	672.2	747.7	713.2
Wind	573.0	1 406.0	1 434.4	1 416.2	2 005.1	2 771.9	3 067.8	3,341.8	3,581.6
Hydro	557.8	843.7	1 118.5	1 047.4	940.3	1 103.0	1 170.9	1,207.6	959.2
Large-scale solar PV						4.4	9.1	11.5	13.8
Small-scale solar PV	24.1	66.2	205.5	378.7	580.1	674.2	874.8	1,056.1	1,231.7
Geothermal									
Total renewable	1,446.9	2,619.3	3,098.0	3,701.6	4,370.6	5,440.4	5,794.8	6,364.7	6,499.6
Total	55,074.4	55,975.9	55,607.0	56,907.8	52,946.6	52,803.2	56,678.5	54,561.7	52,861.4

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal		
Brown coal	45,700.1	38,312.7
Natural gas	1,628.5	4,126.9
Oil products	110.1	140.2
Total non-renewable	47,438.8	42,579.8
Renewable fuels		
Biomass	761.4	714.4
Wind	3,703.1	3,761.1
Hydro	1,084.3	882.1
Large-scale solar PV	13.3	15.4
Small-scale solar PV	1,141.3	1,335.3
Geothermal		
Total renewable	6,703.5	6,708.3
Total	54,142.3	49,288.1

Totals may not add due to rounding.

na not available.

a Includes multi-fuel fired power plants.

(e) estimate only, see method note

Table O4
Electricity generation in Queensland, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal	50,882.2	49,713.7	45,864.3	45,417.3	44,415.6	40,260.7	44,553.8	48,015.8	50,975.5
Brown coal									
Natural gas	9,257.2	12,020.6	14,595.3	15,303.4	13,909.5	15,454.3	18,248.5	13,816.9	13,764.1
Oil products	711.4	370.7	373.7	306.0	1,042.6	959.5	1,197.2	1,199.1	1,118.0
Other ^a	691.8	1,025.9	1,038.7	15.7	54.2				
Total non-renewable	61,542.6	63,130.9	61,872.0	61,042.4	59,421.9	56,674.5	63,999.5	63,031.9	65,857.5
Renewable fuels									
Biomass	1,588.5	1,548.0	920.7	1,124.8	1,239.2	1,485.8	1,641.4	1,771.8	1,786.0
Wind	27.3	30.9	27.3	27.7	30.7	33.7	32.5	28.4	27.7
Hydro	820.2	572.8	965.6	723.2	684.1	820.9	649.1	491.7	694.4
Large-scale solar PV						4.0	5.9	7.3	34.1
Small-scale solar PV	50.8	121.3	400.6	760.3	1,310.2	1,460.6	1,788.0	2,055.9	2,335.9
Geothermal	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.2	0.5
Total renewable	2,487.3	2,273.5	2,314.7	2,636.5	3,264.7	3,805.5	4,117.5	4,355.3	4,878.6
Total	64,029.9	65,404.4	64,186.7	63,678.9	62,686.6	60,480.0	68,117.0	67,387.1	70,736.1

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal	49,894.6	52,434.8
Brown coal		
Natural gas	13,220.3	13,076.2
Oil products	1,156.6	1,117.7
Total non-renewable	64,271.5	66,628.7
Renewable fuels		
Biomass	1,718.7	1,787.7
Wind	27.7	27.7
Hydro	543.6	657.3
Large-scale solar PV	16.8	79.8
Small-scale solar PV	2,184.0	2,523.1
Geothermal	0.4	0.5
Total renewable	4,491.2	5,076.2
Total	68,762.7	71,704.9

Totals may not add due to rounding.

^a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.

(e) estimate only, see method note

Table O5
Electricity generation in Western Australia, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal	8,738.0	9,612.2	10,352.3	10,783.3	10,276.9	10,885.3	10,523.4	10,912.7	11,183.3
Brown coal									
Natural gas	14,556.1	16,006.3	18,115.7	17,538.3	17,645.1	20,880.0	20,412.8	21,899.6	22,299.3
Oil products	1,464.4	1,373.4	1,413.8	1,171.2	2,045.0	2,486.1	4,223.5	3,347.4	4,038.4
Other a	2,153.0	1,017.8	1,029.4	1,072.4	1,855.8				
Total non-renewable	26,911.5	28,009.7	30,911.2	30,565.2	31,822.8	34,251.4	35,159.7	36,159.7	37,521.0
Renewable fuels									
Biomass	119.6	121.2	111.7	125.7	108.3	124.0	126.9	94.6	188.8
Wind	675.1	664.0	719.3	1,278.7	1,300.2	1,578.8	1,643.2	1,476.5	1,584.8
Hydro	na	na	na		221.3	205.4	206.1	217.0	218.9
Large-scale solar PV						24.1	23.9	28.3	34.3
Small-scale solar PV	18.7	57.5	198.1	331.4	449.5	495.8	622.1	760.8	941.1
Geothermal									
Total renewable	813.4	842.7	1,029.0	1,735.8	2,079.3	2,428.2	2,622.2	2,577.2	2,967.9
Total	27,724.9	28,852.4	31,940.2	32,301.0	33,902.1	36,679.6	37,781.9	38,736.8	40,488.9

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal	11,324.7	10,942.1
Brown coal		
Natural gas	22,251.9	22,491.6
Oil products	3,687.2	4,038.3
Total non-renewable	37,263.9	37,472.0
Renewable fuels		
Biomass	180.8	193.6
Wind	1,538.6	1,527.9
Hydro	218.9	218.9
Large-scale solar PV	33.0	34.3
Small-scale solar PV	852.3	1,066.4
Geothermal		
Total renewable	2,823.6	3,041.1
Total	40,087.5	40,513.1

Totals may not add due to rounding.

na not available.

a Includes multi-fuel fired power plants.

(e) estimate only, see method note

Table O6
Electricity generation in South Australia, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal									
Brown coal	4,887.4	4,526.6	4,231.6	3,008.0	2,237.5	2,098.5	2,633.6	2,593.7	
Natural gas	7,371.4	6,937.0	6,693.1	6,703.2	7,060.9	5,998.1	5,003.8	4,956.0	6,054.4
Oil products	63.2	163.9	89.3	97.8	141.0	106.9	197.3	136.2	117.0
Other ^a	337.4	335.4	266.9		8.5				
Total non-renewable	12,659.4	11,962.9	11,280.9	9,809.0	9,447.9	8,203.5	7,834.7	7,685.9	6,171.4
Renewable fuels									
Biomass	86.1	85.5	77.8	70.6	72.6	80.9	84.9	94.6	87.9
Wind	2,020.2	2,029.0	2,890.3	3,126.5	3,313.5	4,150.3	4,291.9	4,398.0	4,340.5
Hydro	4.1	4.2	4.1	4.4	5.9	5.9	10.8	6.5	3.5
Large-scale solar PV						1.4	1.7	2.0	3.9
Small-scale solar PV	23.4	50.7	182.8	398.1	558.6	677.9	802.2	895.5	1,000.8
Geothermal									
Total renewable	2,133.8	2,169.4	3,155.0	3,599.6	3,950.6	4,916.5	5,191.6	5,396.6	5,436.6
Total	14,793.2	14,132.3	14,435.9	13,408.6	13,398.5	13,120.0	13,026.3	13,082.4	11,608.0

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal		
Brown coal	1,308.1	
Natural gas	4,976.9	7,699.0
Oil products	128.7	109.6
Total non-renewable	6,413.8	7,808.7
Renewable fuels		
Biomass	78.7	92.1
Wind	4,562.2	4,803.3
Hydro	5.0	3.5
Large-scale solar PV	2.5	4.7
Small-scale solar PV	959.1	1,091.4
Geothermal		
Total renewable	5,607.4	5,994.9
Total	12,021.2	13,803.6

Totals may not add due to rounding.

^a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.

(e) estimate only, see method note

Table O7
Electricity generation in Tasmania, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal									
Brown coal									
Natural gas	705.3	1,109.8	1,506.0	1,562.7	1,752.5	985.0	131.0	858.0	893.5
Oil products	64.5	73.9	94.9	60.5	12.1	19.7	18.9	90.3	21.6
Other ^a					26.8				
Total non-renewable	769.8	1,183.7	1,600.9	1,623.3	1,791.4	1,004.7	149.9	948.3	915.1
Renewable fuels									
Biomass	25.1	29.0	29.9	33.3	33.0	30.6	34.6	27.3	26.8
Wind	486.9	489.3	483.5	423.1	477.5	818.0	1,055.1	1,056.0	1,082.7
Hydro	7,313.6	8,307.2	9,451.5	8,515.5	10,766.4	12,072.6	8,294.4	8,204.3	8,454.3
Large-scale solar PV						0.0	0.0	0.0	0.3
Small-scale solar PV	1.8	5.6	11.6	22.7	53.3	73.5	96.8	108.5	121.6
Geothermal									
Total renewable	7,827.4	8,831.1	9,976.5	8,994.6	11,330.2	12,994.8	9,480.9	9,396.0	9,685.7
Total	8,597.2	10,014.8	11,577.4	10,617.9	13,121.6	13,999.5	9,630.9	10,344.3	10,600.8

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal		
Brown coal		
Natural gas	850.5	1,311.4
Oil products	83.5	21.6
Total non-renewable	934.0	1,333.0
Renewable fuels		
Biomass	26.8	26.8
Wind	1,131.3	1,055.9
Hydro	9,062.2	8,055.9
Large-scale solar PV	0.3	1.6
Small-scale solar PV	114.8	129.3
Geothermal		
Total renewable	10,335.4	9,269.4
Total	11,269.3	10,602.4

Totals may not add due to rounding.

^a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.

(e) estimate only, see method note

Table O8
Electricity generation in the Northern Territory, by fuel type, physical units

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17(e)
	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh	GWh
Non-renewable fuels									
Black coal									
Brown coal									
Natural gas	1,873.4	2,132.5	2,053.6	2,109.3	2,269.0	2,308.9	2,201.4	2,484.7	2,366.5
Oil products	1,039.3	1,118.2	1,022.5	1,020.9	1,022.0	1,123.6	751.3	522.6	537.1
Other ^a		2.4	0.5						
Total non-renewable	2,912.7	3,253.1	3,076.6	3,130.2	3,291.0	3,432.5	2,952.7	3,007.3	2,903.6
Renewable fuels									
Biomass	9.2	9.2	8.7	7.7	6.5	8.9	9.0	7.7	
Wind									
Hydro									0.0
Large-scale solar PV						5.1	6.4	8.5	18.5
Small-scale solar PV	0.5	4.3	5.6	9.7	16.9	19.4	28.9	42.4	61.3
Geothermal									
Total renewable	9.7	13.5	14.3	17.4	23.4	33.3	44.3	58.7	79.7
Total	2,922.4	3,266.6	3,090.9	3,147.6	3,314.4	3,465.8	2,997.0	3,066.0	2,983.3

	Calendar year	
	2016	2017(e)
	GWh	GWh
Non-renewable fuels		
Black coal		
Brown coal		
Natural gas	2,423.6	2,366.5
Oil products	531.9	537.1
Total non-renewable	2,955.5	2,903.6
Renewable fuels		
Biomass		
Wind		
Hydro	0.03	0.03
Large-scale solar PV	18.5	18.5
Small-scale solar PV	51.6	71.9
Geothermal		
Total renewable	70.1	90.4
Total	3,025.6	2,993.9

Totals may not add due to rounding.

^a Includes multi-fuel fired power plants. This series was discontinued in 2013-14 and multi-fuel allocated to specific fuel types.

(e) estimate only, see method note

Table O9

State summary of electricity generation for 2017 calendar year, by fuel type, physical units

	NSW GWh	VIC GWh	QLD GWh	WA GWh	SA GWh	TAS GWh	NT GWh	AUSTRALIA GWh
Non-renewable fuels								
Black coal	57,455.0		52,434.8	10,942.1				120,831.9
Brown coal		38,312.7						38,312.7
Natural gas	3,857.6	4,126.9	13,076.2	22,491.6	7,699.0	1,311.4	2,366.5	54,929.2
Oil products	320.9	140.2	1,117.7	4,038.3	109.6	21.6	537.1	6,285.4
Total non-renewable	61,633.5	42,579.8	66,628.7	37,472.0	7,808.7	1,333.0	2,903.6	220,359.2
Renewable fuels								
Biomass	822.3	714.4	1,787.7	193.6	92.1	26.8		3,636.9
Wind	1,492.3	3,761.1	27.7	1,527.9	4,803.3	1,055.9		12,668.1
Hydro	4,115.5	882.1	657.3	218.9	3.5	8,055.9	0.03	13,933.2
Large-scale solar PV	611.5	15.4	79.8	34.3	4.7	1.59	18.5	765.9
Small-scale solar PV	1,864.7	1,335.3	2,523.1	1,066.4	1,091.4	129.3	71.9	8,082.0
Geothermal			0.5					0.5
Total renewable	8,906.3	6,708.3	5,076.2	3,041.1	5,994.9	9,269.4	90.4	39,086.5
Total	70,539.7	49,288.1	71,704.9	40,513.1	13,803.6	10,602.4	2,993.9	259,445.7
<i>Per cent renewable generation</i>	<i>12.6</i>	<i>13.6</i>	<i>7.1</i>	<i>7.5</i>	<i>43.4</i>	<i>87.4</i>	<i>3.0</i>	<i>15.1</i>

Table O10

State summary of electricity generation for 2016-17 fiscal year, by fuel type, physical units

	NSW GWh	VIC GWh	QLD GWh	WA GWh	SA GWh	TAS GWh	NT GWh	AUSTRALIA GWh
Non-renewable fuels								
Black coal	56,105.2		50,975.5	11,183.3				118,264.0
Brown coal		43,633.8						43,633.8
Natural gas	3,291.6	2,587.8	13,764.1	22,299.3	6,054.4	893.5	2,366.5	51,257.1
Oil products	316.2	140.2	1,118.0	4,038.4	117.0	21.6	537.1	6,288.4
Total non-renewable	59,712.9	46,361.8	65,857.5	37,521.0	6,171.4	915.1	2,903.6	219,443.3
Renewable fuels								
Biomass	822.3	713.2	1,786.0	188.8	87.9	26.8		3,625.1
Wind	1,865.4	3,581.6	27.7	1,584.8	4,340.5	1,082.7		12,482.8
Hydro	6,201.0	959.2	694.4	218.9	3.5	8,454.3	0.03	16,531.3
Large-scale solar PV	567.6	13.8	34.1	34.3	3.9	0.30	18.5	672.4
Small-scale solar PV	1,706.8	1,231.7	2,335.9	941.1	1,000.8	121.6	61.3	7,399.3
Geothermal			0.5					0.5
Total renewable	11,163.2	6,499.6	4,878.6	2,967.9	5,436.6	9,685.7	79.7	40,711.3
Total	70,876.1	52,861.4	70,736.1	40,488.9	11,608.0	10,600.8	2,983.3	260,154.6
<i>Per cent renewable generation</i>	<i>15.8</i>	<i>12.3</i>	<i>6.9</i>	<i>7.3</i>	<i>46.8</i>	<i>91.4</i>	<i>2.7</i>	<i>15.6</i>

Totals may not add due to rounding

Australian Energy Statistics, Table O

Method note:

Australian electricity generation covers all electricity generated in Australia, including generation by households and businesses for their own use.

Calendar and 2016-17 estimates of electricity generation are based on data from the:

- Australian Energy Market Operator, which includes the National Electricity Market and the Western Australian Wholesale Electricity Market
- Clean Energy Regulator, which includes data collected under National Greenhouse and Energy Reporting Scheme and the Renewable Energy Target

These estimates are subject to change in the full release of the 2016-17 Australian Energy Statistics.