



GreenPower 2022 Quarterly Reports

Quarters 1 to 4 |
1 January to 31 December 2022



Contents

Executive Summary	3
Quarters in review: 1 January 2022 to 31 December 2022	3
GreenPower customer and sales trends	6
About GreenPower	7
GreenPower Providers and Products	7
Breakdown of GreenPower customer numbers and sales (MWh)	8
Rules of the Program	19
GreenPower Generators	19
GreenPower Generators accredited this year	19
Appendix A – Major generator types	21

Publisher

GreenPower Program Manager
Office of Energy and Climate
Change, NSW Treasury
4 Parramatta Square,
Parramatta NSW 2150
www.greenpower.gov.au

Acknowledgements

We would like to thank the National GreenPower Steering Group (NGPSG) for their ongoing support of the GreenPower program. The NGPSG is made up of representatives of the NSW, South Australian and Victorian Governments.

© State of New South Wales through NSW Treasury

This work may be freely reproduced and distributed for most purposes, however some restrictions apply. Please contact NSW Treasury for copyright information.

Disclaimer: While every reasonable effort has been made to ensure that this document is correct at the time of publication, the State of New South Wales, its agents and employees, disclaim any and all liability to any person in respect of anything or the consequences of anything done or omitted to be done in reliance upon the whole or any part of this document.

This report provides stakeholders with updates on GreenPower. GreenPower is 100% renewable electricity and can be purchased by households and businesses through most Australian energy retailers and a range of other accredited GreenPower Providers. The first section of the report provides information about GreenPower. This is followed by breakdowns of GreenPower sales by each Provider.

The period covered in this report is the 2022 settlement period for GreenPower which runs from 1 January 2022 to 31 December 2022.

The quarterly reports are not audited and therefore data may not be accurate. For audited customer numbers and sales, please refer to the annual audit reports published at www.greenpower.gov.au/about-greenpower/audits-and-reports/annual-audits

This report, as well as additional information about GreenPower, is available on the GreenPower website at www.greenpower.gov.au

Executive Summary

Quarters in review: 1 January 2022 to 31 December 2022

GreenPower Products were offered by 41 accredited GreenPower Providers nationally in 2022.

The figures contained in this report are unaudited and may be subject to revision. The annual audit report for 2022 will be made available on the GreenPower website in mid 2023.

Below is a breakdown of total GreenPower customer numbers and GreenPower sales (MWh) made in the quarters in 2022, between residential and business customers, and by the state or territory in which GreenPower customers are based.

Table 1.1: Quarter 1 snapshot of customers and sales

State/ Territory	Residential customers	Business customers	Residential sales (MWh)	Business sales (MWh)
ACT	12,179	225	4,897	2,087
NSW	98,748	15,951	37,060	120,212
NT	-	-	-	-
QLD	86,882	7,952	25,951	59,918
SA	24,313	709	6,782	6,310
TAS	72	37	57	742
VIC	80,673	4,526	26,531	67,979
WA	4,685	702	3,671	11,390
Total	307,552	30,102	104,949	268,638

Table 1.2: Quarter 2 snapshot of customers and sales

State/ Territory	Residential customers	Business customers	Residential sales (MWh)	Business sales (MWh)
ACT	11,115	220	4,930	2,524
NSW	87,262	15,661	31,100	125,513
NT	-	-	-	-
QLD	83,463	7,466	19,923	50,223
SA	23,819	660	16,245	4,380
TAS	67	35	58	769
VIC	76,811	4,180	28,113	73,472
WA	4,723	861	3,295	17,114
Total	287,260	29,083	103,664	273,995

Table 1.3: Quarter 3 snapshot of customers and sales

State/ Territory	Residential customers	Business customers	Residential sales (MWh)	Business sales (MWh)
ACT	9,756	235	6,539	2,276
NSW	73,026	15,560	40,006	149,465
NT	-	-	-	-
QLD	71,541	4,618	20,893	32,141
SA	20,585	727	7,335	4,783
TAS	64	39	102	956
VIC	69,255	4,664	33,082	77,064
WA	4,721	865	3,436	19,923
Total	248,948	26,708	111,393	286,608

Table 1.4: Quarter 4 snapshot of customers and sales

State/ Territory	Residential customers	Business customers	Residential sales (MWh)	Business sales (MWh)
ACT	8,605	250	5,388	2,481
NSW	63,585	16,427	32,123	133,142
NT	-	-	-	-
QLD	66,063	6,977	20,285	41,282
SA	18,349	727	7,181	4,682
TAS	68	39	77	762
VIC	53,307	4,613	28,020	68,243
WA	4,704	938	2,620	19,103
Total	214,681	29,971	95,694	269,695

GreenPower customer and sales trends

Figure 1: Total GreenPower residential and business customers compared to previous years

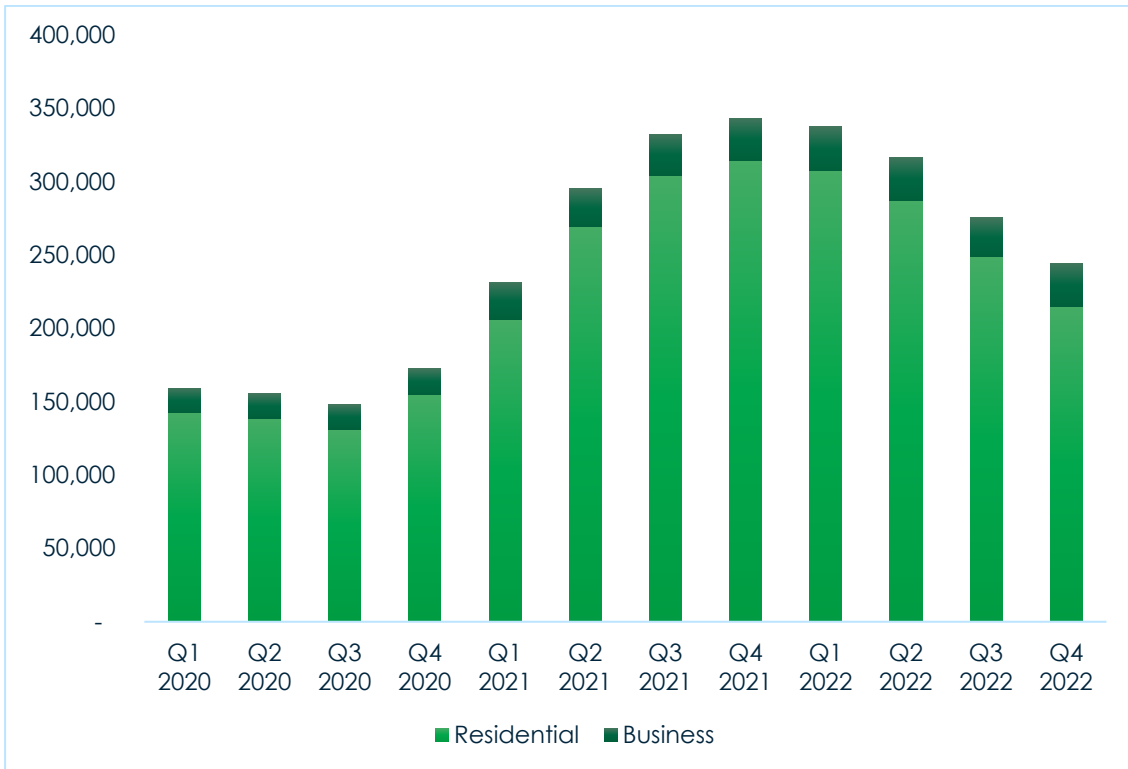
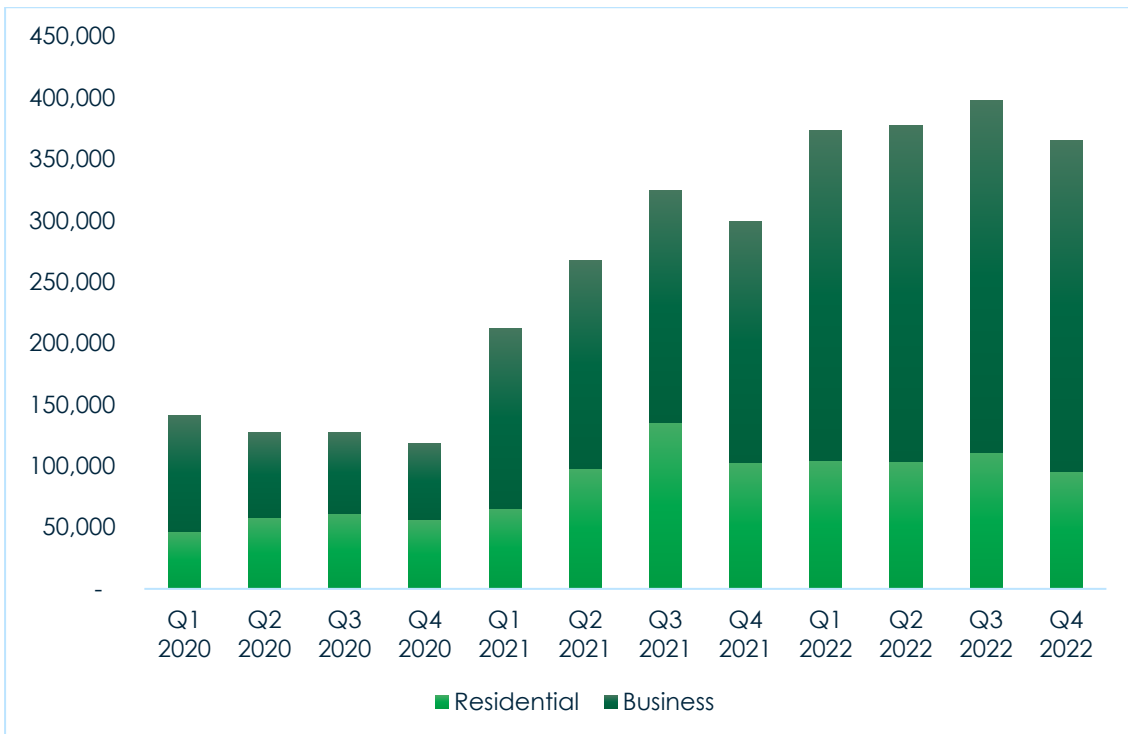


Figure 2: Residential and business GreenPower sales (MWh) compared to previous years



About GreenPower

GreenPower is 100% renewable electricity and can be purchased by households and businesses through most Australian energy retailers and a range of other accredited GreenPower Providers. The National GreenPower Accreditation Program is managed by the NSW Government on behalf of the National GreenPower Steering Group, a collaboration of Australian state and territory governments.

GreenPower Providers and Products

Most energy providers throughout Australia offer at least one accredited GreenPower Product. Residential and business customers can choose to buy a GreenPower Product offered by any GreenPower Provider which is accredited to sell GreenPower in their state or territory.

The list of GreenPower Providers and where they are licensed to sell their GreenPower Products is available on the GreenPower website at www.greenpower.gov.au/get-greenpower/find-provider

The three main types of GreenPower Products offered are:

1. **consumption based products** where the customer nominates the level of GreenPower purchased according to a nominated percentage of their total electricity consumption. Consumption based products are part of the customer's electricity retail contract.
2. **'block' based products** where the customer purchases a fixed kWh block of GreenPower that is not directly linked to their consumption. For residential customers, the minimum block is the equivalent of 10% of average household electricity consumption as defined in the [GreenPower Program Rules](#). Block based products are part of the customer's electricity retail contract.
3. **'decoupled' GreenPower** generally for business customers that wish to purchase GreenPower separately to their electricity contract. A GreenPower Provider can be contracted to purchase and surrender the equivalent number of GreenPower Large-scale Generation Certificates (LGCs) from eligible generation sources to meet the customer's electricity consumption, or for a proportion of the total consumption. This could include GreenPower Connect and GreenPower Corporate Direct products.

Breakdown of GreenPower customer numbers and sales (MWh)

Table 2.1: Residential customers

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
ActewAGL	5,162	4,885	4,782	4,556
ACXargyle	-	-	-	-
AGL	2,728	2,601	2,599	2,525
AGL-Powerdirect	14	14	13	1
Alinta Energy Retail Sales	-	-	-	-
Alinta Sales	-	-	-	-
Amber Electric	386	439	396	409
Aurora Energy	25	22	21	17
Brighte Energy	7	9	-	-
Click Energy	-	-	-	-
CovaU Energy	-	-	-	-
Delta Electricity	-	-	-	-
Diamond Energy	952	1,211	1,405	1,260
Discover Energy	155	147	57	34
Dodo Power and Gas	646	614	586	601
Energy Locals	3,864	5,266	4,585	5,284
EnergyAustralia	11,357	11,819	11,978	11,865
Enova Energy	1,545	-	-	-
Ergon Energy	24,600	23,909	21,899	22,905
Flow Power	-	-	277	312

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
Iberdrola Australia Energy Markets	-	-	-	-
LUMO Energy (SA)	124	126	127	135
LUMO Energy Australia	368	361	346	339
Macquarie Bank	-	-	-	-
Momentum Energy	1,816	4,047	4,305	4,234
Nectr	463	421	330	708
Next Business Energy	-	1	-	1
Origin Energy	213,030	193,071	160,110	137,670
OVO Energy	13,215	17,248	18,132	748
Powershop Australia	8,945	8,060	6,964	6,645
QEnergy Limited	-	-	-	-
Radian Energy	9	-	4	2
ReAmped Energy	5,875	-	-	1,013
Red Energy	3,947	4,105	4,355	4,303
Shell Energy	-	-	-	-
Simply Energy	3,223	3,149	-	3,562
SmartestEnergy Australia	-	-	-	-
Stanwell Corporation	-	-	-	-
Synergy	4,685	4,723	4,721	4,704
Tango Energy	399	1,000	956	848
Tilt Renewables	-	-	-	-
WINconnect	12	12	-	-

Table 2.2: Business customers

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
ActewAGL	163	165	167	173
ACXargyle	13	12	17	9
AGL	2128	2136	2411	2423
AGL-Powerdirect	4	4	0	0
Alinta Energy Retail Sales	113	116	117	116
Alinta Sales	74	72	-	-
Amber Electric	-	-	-	15
Aurora Energy	21	19	22	22
Brighte Energy	-	-	-	-
Click Energy	-	-	-	-
CovaU Energy	78	77	-	-
Delta Electricity	9	9	8	10
Diamond Energy	76	89	199	197
Discover Energy	5	4	4	2
Dodo Power and Gas	2	1	1	1
Energy Locals	92	117	156	224
EnergyAustralia	645	653	669	723
Enova Energy	24	-	-	-
Ergon Energy	1516	1472	1384	1541
Flow Power	0	-	64	59
Iberdrola Australia Energy Markets	7	7	8	9
LUMO Energy (SA)	5	6	7	6
LUMO Energy Australia	5	6	5	5
Macquarie Bank Limited	-	-	-	-
Momentum Energy	500	637	495	484

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
Nectr	-	-	-	-
Next Business Energy	64	100	207	175
Origin Energy	14,822	13,361	5754	8103
OVO Energy	-	-	-	-
Powershop Australia	510	507	469	470
QEnergy Limited	-	-	-	-
Radian Energy	-	-	-	-
ReAmped Energy	49	-	-	29
Red Energy	392	406	346	358
Shell Energy	8029	8191	13,168	13,681
Simply Energy	70	72	60	100
SmartestEnergy Australia	8	8	8	7
Stanwell Corporation Limited	10	10	10	10
Synergy	625	786	863	934
Tango Energy	38	36	89	85
Tilt Renewables	1	-	-	-
WINconnect	4	4	-	-

Table 2.3: Residential sales (MWh)

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
ActewAGL	2,406	2,442	2,940	2,574
ACXargyle	-	-	-	-
AGL	1,426	1,678	2,039	1,063
AGL-Powerdirect	5	8	4	-
Alinta Energy Retail Sales	-	-	-	-
Alinta Sales	-	-	-	-
Amber Electric	468	588	549	380
Aurora Energy	25	27	32	25
Brighte Energy	10	4	-	-
Click Energy	18	-	-	-
CovaU Energy	-	-	-	-
Delta Electricity	-	-	-	-
Diamond Energy	692	1,013	1,736	1,244
Discover Energy	72	99	43	15
Dodo Power and Gas	242	10,704	364	253
Energy Locals	2,133	3,921	4,553	3,551
EnergyAustralia	4,873	5,319	7,922	6,756
Enova Energy	1,038	-	-	-
Ergon Energy	4,242	4,070	4,028	3,925
Flow Power	-	-	200	400
Iberdola Australia Energy Markets	-	-	-	-
LUMO Energy (SA)	19	20	28	24
LUMO Energy Australia	55	64	83	54
Macquarie Bank Limited	-	-	-	-
Momentum Energy	779	1,911	2,729	1,955

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
Nectr	431	323	314	437
Next Business Energy	-	-	-	-
Origin Energy	67,285	54,388	64,282	57,536
OVO Energy	1,423	2,348	1,534	531
Powershop Australia	5,062	6,243	6,539	4,776
QEnergy Limited	-	-	-	-
Radian Energy	2	-	3	1
ReAmped Energy	3,751	-	-	296
Red Energy	4,107	4,332	6,549	5,194
Shell Energy	-	-	-	-
Simply Energy	370	422		1,174
SmartestEnergy Australia	-	-	-	-
Stanwell Corporation Limited	-	-	-	-
Synergy	3,671	3,295	3,436	2,620
Tango Energy	344	434	1,483	903
Tilt Renewables	-	-	-	-
WINconnect	10	6	-	-
Total	104,941	103,659	111,390	95,687

Table 2.4: Business sales (MWh)

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
ActewAGL	666	714	743	671
ACXargyle	10,405	16,760	7,345	691
AGL	35,243	33,347	33,004	26,377
AGL-Powerdirect	-	1	-	-
Alinta Energy Retail Sales	12,237	13,646	14,443	10,332
Alinta Sales	2,981	3,022		
Amber Electric	-	-	-	15
Aurora Energy	108	111	148	136
Brighte Energy	3	2	-	-
Click Energy	-	-	-	-
CovaU Energy	544	679	-	-
Delta Electricity	1,432	1,460	1,553	2,052
Diamond Energy	1,610	1,183	1,128	1,130
Discover Energy	7	9	6	-
Dodo Power and Gas	-	-	-	-
Energy Locals	249	343	737	1,322
EnergyAustralia	13,967	16,221	15,825	16,498
Enova Energy	69			
Ergon Energy	1,720	1,651	1,617	1,892
Flow Power	-		4,578	4,659
Iberdrola Australia Energy Markets	2,918	2,691	2,814	2,650
LUMO Energy (SA)	4	2	2	2
LUMO Energy Australia	-	-	1	-
Macquarie Bank Limited	-	-	-	-
Momentum Energy	29,575	21,791	14,724	16,312

Retailers	31-Mar-22	30-Jun-22	30-Sep-22	31-Dec-22
Nectr	-	-	-	-
Next Business Energy	319	438	558	909
Origin Energy	60,577	58,258	87,062	87,610
OVO Energy	-	-	-	-
Powershop Australia	4,593	5,254	5,094	6,261
QEnergy Limited	-	-	-	-
Radian Energy	-	-	-	-
ReAmped Energy	117			28
Red Energy	20,964	20,960	19,382	18,875
Shell Energy	51,698	52,876	46,387	44,533
Simply Energy	1,022	1,069	1,059	1,096
SmartestEnergy Australia	1,152	1,012	989	1,034
Stanwell Corporation Limited	1,427	1,420	1,537	1,641
Synergy	8,114	13,643	19,635	18,764
Tango Energy	4,861	5,379	6,229	4,197
Tilt Renewables	5			
WINconnect	44	48		
Total	268,631	273,990	286,600	269,687

Table 3: GreenPower accredited product list in 2022

Provider	Product	Jurisdictions	Residential	Business
ActewAGL	GreenChoice	ACT, NSW	Yes	Yes
ACXargyle	ACXargyle GreenPower	ACT, NSW, NT, QLD, SA, TAS, VIC, WA	Yes	Yes
AGL	Green Energy, Green Living, Green Spirit, Green Events, Green for Free	NSW, QLD, SA, VIC	Yes	Yes
Alinta AER	Green Energy Agreement	NSW, QLD, SA, VIC	No	Yes
Alinta WA	GreenPower	WA	No	Yes
Amber Electric	GreenPower	NSW, VIC, QLD, SA, ACT	Yes	Yes
Aurora	AuroraGreen	TAS	Yes	Yes
Brighte	Brighte Electricity Pilot Plan	NSW	Yes	No
Click Energy	ClickNatural	NSW, QLD, SA, VIC	Yes	No
CovaU	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Delta	Delta GreenPower, Delta GreenPower (decoupled)	ACT, NSW, QLD, SA, TAS, VIC	No	Yes
Diamond Energy	Diamond Pure Plus	NSW, QLD, SA, VIC	Yes	Yes
Discover	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Dodo Power & Gas	Dodo GreenPower	NSW, QLD, SA, VIC	Yes	Yes
Energy Australia	PureEnergy, PureEnergy Choice, PureEnergy Decoupled	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Energy Locals	Arcline by RACV, Energy Trade	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes

Provider	Product	Jurisdictions	Residential	Business
	GreenPower, Indigo Power GreenPower, Energy Local GreenPower			
Enova Energy	GreenPower	NSW, QLD	Yes	Yes
Ergon Energy Queensland	Clean Energy, Clean Energy Plus	QLD	Yes	Yes
Flow Power	Power Active, Power Renewable, Shoalhaven Community Solar	ACT, NSW, QLD, SA, TAS, VIC	No	Yes
Iberdrola	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	No	Yes
Lumo Energy (SA) Pty Ltd	GreenPower	SA	Yes	Yes
Lumo Energy Australia	GreenPower	VIC	Yes	Yes
Mojo Power	Mojo Evergreen	NSW, QLD	Yes	No
Momentum Energy	Suit Yourself Electricity, Strictly Business, GreenPower, Custom GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Nectr	GreenPower	NSW, QLD, SA	Yes	Yes
Next Business Energy	Next GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Origin Energy	GreenEarth	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
OVO	The One Plan, The Basic Plan, The Partner Plan	NSW, QLD, SA, VIC	Yes	No
PowerShop	Meridian Green	NSW, QLD, SA, VIC	Yes	Yes
Qenergy	QGreen	NSW, QLD, SA, VIC	Yes	Yes
Radian Energy	GreenPower	NSW, QLD, SA, ACT, TAS	Yes	Yes

Provider	Product	Jurisdictions	Residential	Business
ReAmped	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Red Energy	GreenPower, Green Planet	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Shell Energy	Shell GreenPower	ACT, NSW, NT, QLD, SA, TAS, VIC, WA	No	Yes
Simply Energy	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
SmartestEnergy	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	No	Yes
Stanwell	GreenPower	ACT, NSW, QLD, SA, TAS, VIC	No	Yes
Synergy	Easy Green, NaturalPower	WA	Yes	Yes
Tango Energy	Tango Blue, GreenPower	ACT, NSW, QLD, SA, TAS, VIC	Yes	Yes
Tilt Renewables	GreenPower	VIC	No	Yes
Winconnect	GreenPower	NSW, QLD, SA, VIC, WA	Yes	Yes

Rules of the Program

The *National GreenPower Accreditation Program Rules* set stringent requirements for all GreenPower Providers offering an accredited GreenPower Product. A key requirement is for GreenPower Providers to source all generation included in a GreenPower Product from accredited GreenPower Generators.

The National GreenPower Accreditation Program Rules are published on our website at www.greenpower.gov.au/documents/greenpower-program-rules

GreenPower Generators

Under the National GreenPower Accreditation Program, a GreenPower Generator is defined as an electricity generator, or increase in generator capacity, which was commissioned or first sold energy (whichever is earlier) after 1 January 1997, and that has been accredited by the National GreenPower Accreditation Program.

A description of the major generator types is provided in Appendix A.

For a list and an interactive map of GreenPower approved generators, please visit the GreenPower website at www.greenpower.gov.au/our-impact/our-generators

GreenPower Generators accredited this year

Table 4: GreenPower Generators accredited in 2022

Generator	CER code	Generation type	Capacity (MW)	Location	State
Batchelor Solar Farm	SRPVNT69	Solar	10.00	Batchelor	NT
Goonumbla Solar Farm	SRPVNSS8	Solar	67.75	Parkes	NSW
Kaban Wind Farm	WD00QL06	Wind	156.80	Tumoulin	QLD
Metz Solar Farm	SRPXNS45	Solar	115.00	Armidale	NSW
Mortlake South Wind Farm	WD00VC47	Wind	157.50	Mortlake	VIC
Moura Solar Farm	SRPVQLW1	Solar	109.90	Banana	QLD

Generator	CER code	Generation type	Capacity (MW)	Location	State
Murra Warra Wind Farm Stage 2	WD00VC46	Wind	209.00	Murra Warra	VIC
Oakland Hills Wind Farm	WD00VC13	Wind	67.20	Glenthompson	VIC
PAREP 1 PTY LIMITED- WIND SOLAR	SRWDSA02	Combined solar & wind	316.88	Winninowie	SA
Sebastopol Solar Farm	SRPXNS42	Solar	90.00	Temora	NSW
White Rock Wind Farm	WD00NS12	Wind	175.00	Glen Innes	NSW
Woolooga Solar Farm	SRPXNS94	Solar	176	Lower Wonga	QLD

Appendix A – Major generator types

Solar Photovoltaic

Energy from the sun can be categorised in two ways, as heat energy (thermal energy) or as light energy.

Photovoltaics are a semiconductor-based technology which converts the sun's light energy directly into an electrical current. Photovoltaic panels are very versatile and can be mounted in a variety of sizes and applications such as on building roofs, street lights or roadside emergency phones.

Wind turbines

Wind turbines can be used to drive a generator to create electricity. Modern wind turbines for generating electricity usually have two or three blades (up to 45m in length) and often involve dual land use, as sheep and cattle can graze around the base of the turbines. A single wind turbine may be sufficient to power up to 500 homes. Business wind farms group these turbines together in one location to produce larger amounts of electricity.

Hydro-electric

Hydro-electric power is electricity produced from the energy of falling water using dams, turbines and generators. The environmental impact of hydro-electric projects varies and only those that can be shown to be environmentally acceptable can be accredited under GreenPower.

Biomass

Methane generated by the decomposition of biomass resources (putrescibles and green waste) in landfill sites, sewage treatment works, or large-scale composting can be used to generate electricity. Waste materials from agricultural enterprises such as forestry, sugar cane, winery and cotton production can also be used to generate electricity.

Such projects are considered generally suitable as GreenPower projects but are carefully assessed by the Project Manager on a case by case basis.

A wide variety of crops could be grown specifically for energy generation including timbers, oils or complex sugars. The suitability of these crops will depend on the sustainability of the agricultural practices used. The 'energy crops' industry is in its infancy in Australia.

With regard to forestry wastes, utilisation of fuels from existing forestry plantations is likely to be generally acceptable under GreenPower. However, utilisation of any materials (including wastes) from high conservation value forests such as old growth forests are not acceptable.

Landfill gas

Methane emissions result from the decomposition of putrescible and green waste (both biomass resources) in landfill sites. The use of methane emissions from landfill sites to generate electricity has considerable greenhouse benefits. However, the disposal of general municipal waste in landfill sites requires large quantities of land that will remain contaminated by undecomposed matter.

It is not the intention of the National GreenPower Accreditation Program to promote the development of new landfill sites at the expense of waste minimisation. However, landfill gas generation projects are considered generally suitable for inclusion in the National GreenPower Accreditation Program. Any measures undertaken to reduce their environmental impact (such as best practice NO_x control) would assist the Program Manager in approving their use under the National GreenPower Accreditation Program.