



GreenPower Quarterly Report

Quarters 1 to 4 | 1 January to

31 December 2020



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The NGPSG is made up of representatives of the NSW, SA and Victorian Governments.

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This quarterly 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 GreenPower Provider.

The period covered by this report is part of the 2020 settlement period for GreenPower which runs from 1 January 2020 to 31 December 2020.

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 <https://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

Period in review: 1 January 2020 to 31 December 2020

There were 41 accredited GreenPower Products available nationally this year and these were offered by 40 accredited GreenPower Providers.

The figures contained in this report are preliminary, unaudited and may be subject to revision in subsequent quarterly reports.

Below is a breakdown of total GreenPower customer numbers and GreenPower sales (MWh) made in the quarter, between residential GreenPower customers and business GreenPower 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 | 5,336 | 108 | 2,751 | 2,038 |
| NSW | 30,970 | 10,379 | 13,825 | 21,601 |
| NT | - | - | - | - |
| QLD | 56,806 | 2,971 | 14,935 | 3,996 |
| SA | 9,783 | 477 | 2,903 | 58,938 |
| TAS | 23 | 7 | 22 | 14 |
| VIC | 35,801 | 2,275 | 9,863 | 7,393 |
| WA | 3,782 | 530 | 2,240 | 1,165 |
| Total | 142,501 | 16,747 | 46,539 | 95,145 |

Table 1.2: Quarter 2 snapshot of customers and sales

| State/ Territory | Residential customers | Business customers | Residential sales (MWh) | Business sales (MWh) |
|---------------------|--------------------------|-----------------------|----------------------------|-------------------------|
| ACT | 5,042 | 107 | 3,082 | 1,690 |
| NSW | 30,365 | 10,448 | 17,456 | 18,842 |
| NT | - | - | - | - |
| QLD | 55,034 | 2,874 | 17,433 | 3,311 |
| SA | 9,583 | 460 | 2,887 | 36,335 |
| TAS | 24 | 8 | 21 | 12 |
| VIC | 35,070 | 2,306 | 15,125 | 8,315 |
| WA | 3,848 | 528 | 2,139 | 1,229 |
| Total | 138,966 | 16,731 | 58,143 | 69,734 |

Table 1.3: Quarter 3 snapshot of customers and sales

| State/ Territory | Residential customers | Business customers | Residential sales (MWh) | Business sales (MWh) |
|---------------------|--------------------------|-----------------------|----------------------------|-------------------------|
| ACT | 896 | 23 | 935 | 447 |
| NSW | 28,355 | 10,501 | 19,160 | 26,587 |
| NT | - | - | - | - |
| QLD | 53,767 | 2,870 | 15,849 | 8,377 |
| SA | 9,424 | 474 | 4,189 | 1,982 |
| TAS | 25 | 9 | 53 | 21 |
| VIC | 34,772 | 2,704 | 18,856 | 27,657 |

| State/ Territory | Residential customers | Business customers | Residential sales (MWh) | Business sales (MWh) |
|---------------------|--------------------------|-----------------------|----------------------------|-------------------------|
| WA | 3,973 | 535 | 2,664 | 1,168 |
| Total | 131,212 | 17,116 | 61,706 | 66,239 |

Table 1.4: Quarter 4 snapshot of customers and sales

| State/ Territory | Residential customers | Business customers | Residential sales (MWh) | Business sales (MWh) |
|---------------------|--------------------------|-----------------------|----------------------------|-------------------------|
| ACT | 6,342 | 128 | 2,797 | 1,793 |
| NSW | 38,440 | 10,451 | 18,325 | 23,473 |
| NT | - | - | - | - |
| QLD | 57,345 | 2,805 | 15,606 | 10,617 |
| SA | 10,690 | 479 | 3,263 | 2,170 |
| TAS | 30 | 9 | 34 | 26 |
| VIC | 38,305 | 3,047 | 14,173 | 23,090 |
| WA | 4,191 | 546 | 2,222 | 1,699 |
| Total | 155,343 | 17,465 | 56,420 | 62,868 |

GreenPower customer and sales trends

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

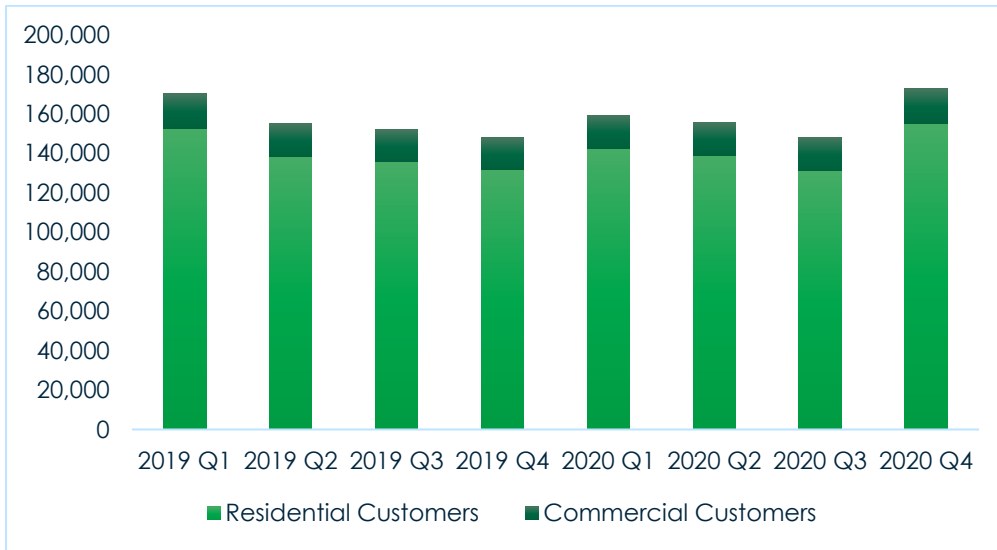
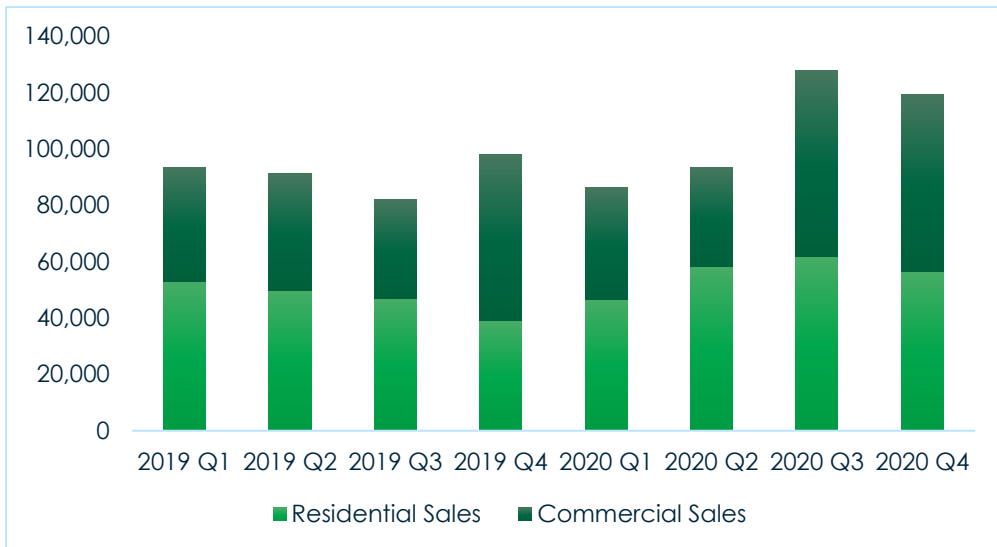


Figure 2: Residential and business GreenPower sales (MWh) compared to previous year



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. GreenPower 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 (as at 31 December 2020)

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|-------------------------------|-----------|-----------|-----------|-----------|
| ActewAGL | 4,892 | 4,542 | | 5,053 |
| ACXargyle | 8 | 14 | 5 | 4 |
| AGL | 2,902 | 2,825 | 3,022 | 3,766 |
| AGL- Powerdirect | 23 | 24 | 23 | 22 |
| Alinta Energy Retail Sales | - | - | - | - |
| Alinta Sales | | | | |
| Aurora Energy | 23 | 24 | 25 | 29 |
| Click Energy | 93 | 87 | 77 | 68 |
| CovaU Energy | | | | |
| Delta Electricity | | | | |
| Diamond Energy | 1,238 | 1,244 | 1,232 | 1,438 |
| Discover Energy | 3 | 1 | 10 | 20 |
| Dodo Power and Gas | 849 | 820 | 792 | 766 |
| Energy Locals | 644 | 549 | 606 | 1,111 |
| EnergyAustralia | 12,246 | 11,922 | 11,715 | 11,500 |
| Enova Energy | 541 | 594 | 659 | 691 |
| Ergon Energy | 31,098 | 30,126 | 29,274 | 28,416 |
| Flow Power | | | | |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------------------|-----------|-----------|-----------|-----------|
| Infigen Energy Markets | | | | |
| LUMO Energy (NSW) | - | - | - | - |
| LUMO Energy (QLD) | - | - | - | - |
| LUMO Energy (SA) | 118 | 115 | 113 | 108 |
| LUMO Energy Australia | 464 | 449 | 435 | 429 |
| Macquarie Bank Limited | | | | |
| Momentum Energy | 5 | 4 | 43 | 340 |
| Nectr | | | 38 | 168 |
| Origin Energy | 63,182 | 61,464 | 60,345 | 76,537 |
| OVO Energy | - | | | |
| Powershop Australia | 12,965 | 12,834 | 13,382 | 12,602 |
| QEnergy Limited | | | | |
| ReAmped Energy | | | 1 | 658 |
| Red Energy | 2,972 | 3,113 | 1,133 | 3,372 |
| Shell Energy | | | | |
| Simply Energy | 4,311 | 4,084 | 3,877 | 3,710 |
| Stanwell Corporation Limited | | | | |
| Synergy | 3,782 | 3,848 | 3,973 | 4,191 |
| Tango Energy | 142 | 192 | 344 | 255 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------|------------------|------------------|------------------|------------------|
| Tilt Renewables | | | | |
| WINconnect | | | | |

Table 2.2: Business customers (as at 31 December 2020)

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|-------------------------------|------------------|------------------|------------------|------------------|
| ActewAGL | 96 | 93 | | 111 |
| ACXargyle | 9 | 11 | 15 | 3 |
| AGL | 549 | 554 | 970 | 950 |
| AGL- Powerdirect | 8 | 8 | 6 | 6 |
| Alinta Energy Retail Sales | 2 | 2 | 76 | 76 |
| Alinta Sales | 44 | 44 | 44 | 44 |
| Aurora Energy | 7 | 8 | 8 | 8 |
| Click Energy | | | | |
| CovaU Energy | | | | |
| Delta Electricity | | - | 2 | 4 |
| Diamond Energy | 76 | 75 | 67 | 88 |
| Discover Energy | 2 | 1 | 1 | 4 |
| Dodo Power and Gas | 2 | - | 1 | 2 |
| Energy Locals | 19 | 21 | 23 | 29 |
| EnergyAustralia | 524 | 517 | 509 | 502 |
| Enova Energy | 12 | 12 | 16 | 16 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------------------|------------------|------------------|------------------|------------------|
| Ergon Energy | 1,802 | 1,757 | 1,725 | 1,668 |
| Flow Power | 1 | 1 | 1 | 1 |
| Infigen Energy Markets | 6 | 7 | 6 | 6 |
| LUMO Energy (NSW) | - | - | - | - |
| LUMO Energy (QLD) | - | - | - | - |
| LUMO Energy (SA) | 4 | 4 | 4 | 4 |
| LUMO Energy Australia | 9 | 8 | 6 | 5 |
| Macquarie Bank Limited | - | - | - | - |
| Momentum Energy | 75 | 77 | 261 | 231 |
| Nectr | | | | |
| Origin Energy | 12,486 | 12,449 | 12,263 | 12,539 |
| OVO Energy | | | | |
| Powershop Australia | 380 | 393 | 408 | 434 |
| QEnergy Limited | | | | |
| ReAmped Energy | | | - | 8 |
| Red Energy | 63 | 75 | 88 | 95 |
| Shell Energy* | | | | |
| Simply Energy | 32 | 20 | 23 | 19 |
| Stanwell Corporation Limited | 34 | 27 | 26 | 26 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------|------------------|------------------|------------------|------------------|
| Synergy | 486 | 483 | 491 | 502 |
| Tango Energy | 19 | 15 | 20 | 26 |
| Tilt Renewables | | - | - | 2 |
| WINconnect | | | | |

* issues extracting data from portal

Table 2.3: Residential sales (MWh) (as at 31 December 2020)

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|-------------------------------|------------------|------------------|------------------|------------------|
| ActewAGL | 2,482 | 2,664 | | 2,051 |
| ACXargyle | 18 | 98 | 14 | 13 |
| AGL | 1,288 | 1,609 | 1,699 | 961 |
| AGL- Powerdirect | 7 | 9 | 10 | 4 |
| Alinta Energy Retail Sales | - | - | - | - |
| Alinta Sales | | | | |
| Aurora Energy | 22 | 21 | 53 | 34 |
| Click Energy | 27 | 26 | 25 | 22 |
| CovaU Energy | | | | |
| Delta Electricity | | | | |
| Diamond Energy | 865 | 914 | 1,312 | 988 |
| Discover Energy | - | - | 4 | 11 |
| Dodo Power and Gas | 277 | 390 | 478 | 336 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|---------------------------|------------------|------------------|------------------|------------------|
| Energy Locals | 295 | 361 | 407 | 781 |
| EnergyAustralia | 3,595 | 4,138 | 5,794 | 4,434 |
| Enova Energy | 286 | 587 | 931 | 643 |
| Ergon Energy | 5,354 | 5,047 | 4,958 | 4,840 |
| Flow Power | | | | |
| Infigen Energy Markets | | | | |
| LUMO Energy (NSW) | - | - | - | - |
| LUMO Energy (QLD) | - | - | - | - |
| LUMO Energy (SA) | 21 | 23 | 36 | 28 |
| LUMO Energy Australia | 71 | 93 | 106 | 70 |
| Macquarie Bank Limited | | | | |
| Momentum Energy | 2 | 4 | 13 | 154 |
| Nectr | | | 1 | 77 |
| Origin Energy | 20,641 | 27,928 | 31,319 | 27,392 |
| OVO Energy | - | | | |
| Powershop Australia | 5,509 | 7,713 | 9,402 | 6,621 |
| QEnergy Limited | | | | |
| ReAmped Energy | | | - | 280 |
| Red Energy | 2,988 | 3,481 | 1,537 | 3,828 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------------------|------------------|------------------|------------------|------------------|
| Shell Energy | | | | |
| Simply Energy | 498 | 582 | 472 | 394 |
| Stanwell Corporation Limited | | | | |
| Synergy | 2,240 | 2,139 | 2,664 | 2,222 |
| Tango Energy | 47 | 301 | 452 | 192 |
| Tilt Renewables | | | | |
| WINconnect | | | | |

Table 2.4: Business sales (MWh) (as at 31 December 2020)

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|----------------------------|------------------|------------------|------------------|------------------|
| ActewAGL | 1,832 | 1,517 | | 1,544 |
| ACXargyle | 5,815 | 1,732 | 6,245 | 808 |
| AGL | 63,476 | 39,988 | 9,481 | 7,445 |
| AGL-Powerdirect | 2 | 2 | 1 | - |
| Alinta Energy Retail Sales | 82 | 41 | 7,735 | 5,362 |
| Alinta Sales | 361 | 442 | 478 | 517 |
| Aurora Energy | 14 | 12 | 18 | 18 |
| Click Energy | | | | |
| CovaU Energy | | | | |
| Delta Electricity | | - | 6 | 23 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------------|------------------|------------------|------------------|------------------|
| Diamond Energy | 467 | 223 | 185 | 150 |
| Discover Energy | - | - | - | 3 |
| Dodo Power and Gas | - | - | - | - |
| Energy Locals | 42 | 38 | 54 | 64 |
| EnergyAustralia | 3,685 | 6,046 | 8,239 | 8,723 |
| Enova Energy | 20 | 30 | 27 | 38 |
| Ergon Energy | 1,091 | 899 | 829 | 936 |
| Flow Power | 30 | 25 | 24 | 24 |
| Infigen Energy Markets | 159 | 179 | 157 | 149 |
| LUMO Energy (NSW) | - | - | - | - |
| LUMO Energy (QLD) | - | - | - | - |
| LUMO Energy (SA) | - | - | - | 1 |
| LUMO Energy Australia | 17 | 6 | 2 | 1 |
| Macquarie Bank Limited | - | - | - | - |
| Momentum Energy | 2,338 | 1,972 | 13,019 | 12,942 |
| Nectr | | | | |
| Origin Energy | 10,136 | 10,636 | 13,220 | 15,464 |
| OVO Energy | | | | |
| Powershop Australia | 2,510 | 2,514 | 2,764 | 2,863 |

| Retailers | 31-Mar-20 | 30-Jun-20 | 30-Sep-20 | 31-Dec-20 |
|------------------------------|-----------|-----------|-----------|-----------|
| QEnergy Limited | | | | |
| ReAmped Energy | | | - | 6 |
| Red Energy | 1,043 | 685 | 1,028 | 1,135 |
| Shell Energy* | | | | |
| Simply Energy | 49 | 18 | 23 | 18 |
| Stanwell Corporation Limited | 894 | 837 | 849 | 1,030 |
| Synergy | 803 | 734 | 690 | 1,182 |
| Tango Energy | 272 | 492 | 641 | 807 |
| Tilt Renewables | | - | - | 1,183 |
| WINconnect | | | | |

* issues extracting data from portal

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 quarter

Table 3: GreenPower Generators accredited in 2020

| Generator | CER code | Generation type | Capacity (MW) | Location | State |
|---|----------|-------------------------------|---------------|-------------------|-------|
| Blackwood Piggery PTY LTD - Biogas | BEBGVC22 | Biomass - Agricultural wastes | 0.05 | Trafalgar | VIC |
| Bomen Solar Farm | SRPVNSR0 | Solar | 121.54 | Bomen | NSW |
| Caloundra Renewable Energy Facility - LFG | BEBGQL33 | Landfill gas | 0.85 | Bells Creek | QLD |
| Cherry Tree Wind Farm | WD00VC38 | Wind | 57.60 | Trawool | VIC |
| Coopers Gap Wind Farm | WD00QL04 | Wind | 453.00 | Boyneside | QLD |
| Copping - LFG - TAS | BEBGTA05 | Landfill gas | 2.13 | Copping | TAS |
| Darlington Point Solar Farm | SRPVNSN8 | Solar | 332.81 | Darlington Point | NSW |
| Dundonnell Wind Farm | WD00VC37 | Wind | 336 | Mortlake | VIC |
| Granville Harbour Wind Farm | WD00TA13 | Wind | 111.60 | Granville Harbour | TAS |
| Hampton Park - LFG | BEBGVC12 | Bioenergy | 8.98 | Hampton Park | VIC |
| Haughton Solar Farm | SRPVQLG4 | Solar | 100.00 | Upper Haughton | QLD |

| Generator | CER code | Generation type | Capacity (MW) | Location | State |
|---|----------|-----------------------|---------------|-----------------|-------|
| Karadoc Solar Farm | SRPVVCF1 | Solar | 112.46 | Iraak | VIC |
| Kennedy Energy Park | WD00QL05 | Combined solar & wind | 58.20 | Hughenden | QLD |
| Limondale Solar Farm 1 | SRPVNSM9 | Solar | 220.00 | Balranald | NSW |
| Limondale Solar Farm 2 | SRPVNSL1 | Solar | 29.00 | Balranald | NSW |
| Maroona Wind Farm | WD00VC27 | Wind | 6.80 | Maroona | VIC |
| Merbein Mushrooms Pty Ltd (Farm) - Solar SGU Upgrade - VIC | SRPVVCN9 | Solar | 0.34 | Merbein South | VIC |
| Moorabool Wind Farm | WD00VC41 | Wind | 312.00 | Ballan | VIC |
| Reedy Creek – LFG | BEBGQL31 | Landfill gas | 0.85 | Burleigh Heads | QLD |
| Seaford Heights - LFG and Solar | BEBGSA07 | Landfill gas | 3.98 | Seaford Heights | SA |
| Stockyard Hill Wind Farm | WD00VC39 | Wind | 531.93 | Stockyard Hill | VIC |
| Sunraysia Solar Farm | SRPVNSL8 | Solar | 200.00 | Balranald | NSW |
| Yalook South Wind Farm | WD00VC26 | Wind | 28.70 | Mount Wallace | VIC |
| 63 generators under 1 MW capacity | | Solar | 63.51 | | |

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 NOx control) would assist the Program Manager in approving their use under the National GreenPower Accreditation Program.