National GreenPower Accreditation Program Annual Audit

Audit Period 1 January 2005 to 31 December 2005

COMPLIANCE AUDIT

hydro

solar

biomass

wind

Prepared for

The National GreenPower Steering Group

September 2006

Green Power
GOVERNMENT APPROVED

URS

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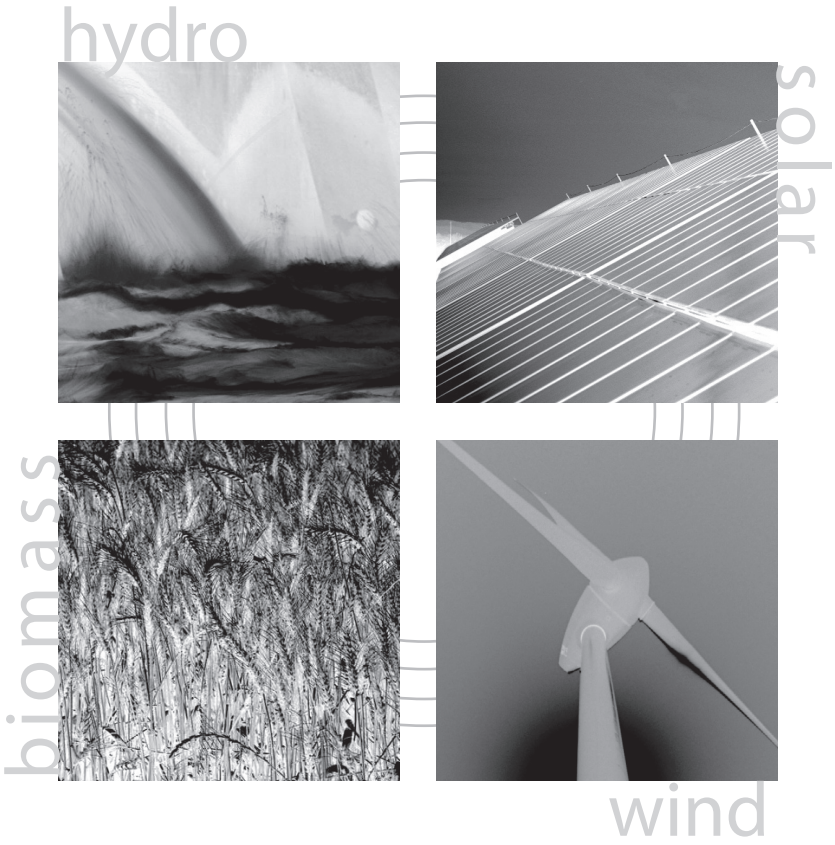

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The National GreenPower Steering Group

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Introduction

1.1 Background

URS Australia Pty Ltd (URS) was commissioned by the NSW Department of Energy, Utilities & Sustainability (DEUS) on behalf of the National GreenPower Steering Group (NGPSG), to conduct an annual technical audit of GreenPower products as part of the National GreenPower Accreditation Program. The objective of the audit was to determine the level of compliance between participating GreenPower product providers' GreenPower accredited products and the *National GreenPower Accreditation Document Version 3.1A, September 2004*.

The settlement period for this audit extends from 1 January 2005 to 31 December 2005.

1.2 Audit Scope

The scope of the audit includes the following criteria:

- Use of GreenPower Generators (audited through Generation Reports submitted by Generators in conjunction with the Annual Audit process);
- Proportion of Energy from 'New' GreenPower Generators;
- Treatment of Blends of 'GreenPower' and Other Energy;
- Claims of Eligible Generation for GreenPower Products;
- Balancing GreenPower Supply and Demand; and
- Transfer of Eligible Renewable Energy Certificates (RECs).

1.3 Audit Methodology

The audit was conducted in accordance with the following methodology:

1. Prior to the end of the settlement period and in consultation with DEUS, URS updated the Annual Audit Report Form to ensure all necessary and relevant information was captured.
2. Prior to the end of the settlement period the Annual Audit Report Form was distributed to participating GreenPower product providers. URS then liaised with GreenPower product providers regarding completion of the form, the audit process and other audit related queries.
3. URS received completed Annual Audit Report Forms and followed up on late returns.
4. Generation Reports from GreenPower Generators were received and collated. Information was then crosschecked with retailer claims of eligible generation.
5. A desktop review was undertaken of the information submitted by each retailer to determine compliance of each product with the rules of the program.

6. URS prepared two reports for the NGPSG;

   - National GreenPower Annual Audit – Compliance Audit. This is a technical audit report for public release with verified statistics and other relevant details of each product, and a review of the overall performance of the program for the settlement period; and
   - Annual Technical Audit Report – Commercial in Confidence Information. This is a detailed technical audit report including all commercial in confidence information for the settlement period. The report includes a full assessment of each product against all criteria listed in Section 3.2 of the Accreditation Document and provides recommendations from the findings of the audit. The report includes all information that is designated to remain confidential to NGPSG, as well as other details required to fulfil DEUS' auditing responsibilities.

All GreenPower products offered at any time between 1 January 2005 and 31 December 2005 were audited. The audit focused on the products themselves rather than the organisations offering the products.

1.4 Limitations and Exceptions

URS has prepared this report for the use of the National GreenPower Steering Group in accordance with the usual care and thoroughness of the consulting profession. It is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this report. It is prepared in accordance with the scope of work and for the purpose outlined in our Proposal dated 28 January 2003 to DEUS.

Results of this assessment are based upon information received from GreenPower product providers and generators. All conclusions and recommendations regarding the National GreenPower Accreditation Program represent the professional opinions of the URS personnel involved with this project.

The findings of this report are based on the Scope of Work as outlined in Section 1.2 above. The assessment undertaken by URS is limited strictly to identifying areas in which GreenPower product providers have not conformed to the *National GreenPower Accreditation Document Version 3.1A, September 2004* based on the information provided to URS. The methodology adopted and sources of information used by URS are outlined in this report. URS has made no independent verification of this information beyond the agreed scope of works and URS assumes no responsibility for any inaccuracies or omissions. No indications were found during our investigations that information contained in this report as provided to URS was false.

This report was prepared between 5 April 2006 and 25 August 2006 and is based on the information reviewed at the time of preparation. URS disclaims responsibility for any changes that may have occurred after this time.

This report should be read in full. No responsibility is accepted for use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

1.5 Structure of this Report

The remainder of the report is structured as follows:

Section 2 - provides an overview of the National GreenPower Accreditation Program for 2005;

Section 3 – describes the audit process and technical criteria; and

Section 4 to Section 21 - provides an audit opinion for each GreenPower product for 2005.

1.6 List of Abbreviations

HEPS – Hydro Electric Power Station

LFG – Landfill Gas

PS – Power Station

PV – Photovoltaic

R – River

STP – Sewage Treatment Plant

WMC – Waste Management Centre

WTP – Water Treatment Plant

2.1 Overview

To facilitate the growth of 'green' electricity generated by renewable resources, the NSW Government developed the *GreenPower Accreditation Program* in April 1997. The purpose of the program is to promote the installation of new GreenPower electricity generators by increasing consumer demand and confidence in accredited GreenPower products.

Due to its success, the program was expanded nationally through joint collaboration by participating state government agencies in NSW, Victoria, Queensland, South Australia, ACT and Western Australia and renamed the *'National GreenPower Accreditation Program'*. In May 2000, the National GreenPower Steering Group was officially established and NSW Sustainable Energy Development Authority (SEDA) appointed as the Program Manager. SEDA's functions were incorporated into the NSW Department of Energy, Utilities and Sustainability on 1 July 2004.

The objectives of the National GreenPower Steering Group are to:

- facilitate the installation of new renewable energy generators across Australia beyond mandatory renewable requirements;
- encourage growth in consumer demand for renewable energy;
- provide consumer choice for, and increase confidence in credible renewable energy products;
- increase consumer awareness of renewable energy and greenhouse issues; and
- decrease greenhouse gas emissions associated with electricity generation.

2.1.1 GreenPower Products

Most energy providers throughout Australia offer at least one accredited GreenPower Product. In the contestable (deregulated) markets of NSW, VIC, SA and the ACT, all domestic and commercial customers can choose to buy a GreenPower Product offered by any retailer licensed in that state. Larger customers in WA and Queensland can also choose GreenPower from licensed GreenPower product providers outside their franchise area.

The three main types of GreenPower products currently offered are:

1. Consumption based products whereby customers nominate the level of GreenPower purchased according to a nominated percentage of their total electricity consumption; and
2. Contribution or 'block' products whereby customers nominate a set dollar contribution or purchase a kWh 'block' of GreenPower that is based on average household electricity consumption and is not directly linked to an individual customer's consumption.
3. Purchase of GreenPower to match electricity consumption provided by another retailer. This type of product is available nationally using a web interface and direct sales to the corporate sector by Climate Friendly. While Climate Friendly customers continue to purchase electricity from their standard electricity supplier, Climate Friendly will purchase and surrender the equivalent number of GreenPower Rights and Renewable Energy Certificates (RECs) from eligible generation sources to meet the customer's electricity consumption.

'Blended' GreenPower products apply when a customer purchases a level of GreenPower equivalent to less than 100% of their electricity consumption. The 'backfill' or *non-accredited portion* of blended products is not audited and can therefore be sourced from any type of electricity generation.

2.1.2 Rules of the Program

The National GreenPower Accreditation Program sets stringent rules for all GreenPower product providers offering an accredited GreenPower product. Two key requirements are for GreenPower product providers to: source all generation included in a GreenPower product from GreenPower approved sources or purchase the equivalent number of GreenPower Rights to satisfy this requirement; and purchase eighty per cent of GreenPower sales from 'new' renewable energy generation. 'New' is defined as any generator built or commissioned after 1 January 1997 that is GreenPower approved. Further information on the rules of the program is available in the *National GreenPower Accreditation Document Version 3.1A, September 2004*, available on the website at www.greenpower.gov.au.

2.1.3 Mandatory Renewable Energy Target

The Commonwealth Government's *Renewable Energy (Electricity) Act 2000* resulted in the introduction of a Mandatory Renewable Energy Target (MRET) requiring electricity retailers to source an increasing percentage of their electricity sales from renewable sources each year to 2010 and to be sustained at 9,500 GWh/year until 2020.

A retailer's GreenPower sales cannot be used by a retailer to meet its MRET target. To ensure that GreenPower sales are additional to legislated renewable energy purchases through the MRET, GreenPower product providers are required to transfer an eligible Renewable Energy Certificate (REC) for each MWh of 'new' GreenPower generation sold as part of a GreenPower product within a settlement period.

Only RECs created by a GreenPower generator are eligible to meet the requirement, with the exception of RECs from solar hot water heaters, which will also be accepted for the purpose of compliance. There is no requirement to use RECs from the same GreenPower generators as used in the GreenPower product. From 1 January 2006 Solar Hot Water RECs will no longer be allowed under the program.

For compliance purposes, GreenPower product providers are required to submit information on the number of eligible RECs that have been 'transferred' to a registered GreenPower account. In addition, GreenPower product providers are required to provide details including the name of generators from which RECs were created.

2.1.4 NSW Greenhouse Gas Abatement Scheme

From 1 January 2003, NSW electricity providers (and certain other parties) are required to meet mandatory targets for abating greenhouse gas emissions from electricity production and use. This scheme is known as the NSW Greenhouse Gas Abatement Scheme and is implemented through the *Electricity Supply Amendment (Greenhouse Gas Emission Reduction) Act 2002*.

GreenPower retailers are required to reduce emissions in line with a sector-wide greenhouse 'benchmark', by sourcing cleaner energy supply and promoting energy efficiency. The sector-wide benchmark is to reduce emissions to 5% below 1990 per capita emission levels, equivalent to 7.27tCO_2-e per capita by 2006-07. Electricity providers are required to meet annual reduction targets to achieve the

benchmark. Targets are enforced each year, with electricity providers paying a penalty where they fail to meet their annual benchmarks. It is expected that the target will be maintained at that level until 2012 or until reviewed.

Under this scheme, GreenPower product providers are not able to count sales and associated greenhouse gas reductions made through their GreenPower products towards meeting their compliance targets. For more information on the scheme, visit www.greenhousegas.nsw.gov.au, or contact the NSW Independent Pricing and Regulatory Tribunal (IPART) which is responsible for administering the scheme.

2.1.5 GreenPower Generators

Under the National GreenPower Accreditation Program, a GreenPower generator is defined as an electricity generator that results in a greenhouse gas emission reduction and net environmental benefits; is based primarily on a renewable energy resource; and complies with the guidelines in the National GreenPower Program Accreditation Document. A description of the major generator types is provided in the following pages. All electricity generators used in a GreenPower product must be approved as a GreenPower generator by DEUS, prior to their inclusion in a GreenPower product.

As at 31 December 2005 there were around 250 accredited GreenPower generators in Australia, including over 161 'new' generators, which were commissioned or first sold electricity after January 1 1997. For a comprehensive list of GreenPower accredited generators, please visit the Download section of the GreenPower website at www.greenpower.gov.au or e-mail greenpower@deus.nsw.gov.au.

Solar Photovoltaic and Solar Thermal Electric Systems

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 versatile and can be mounted in a variety of sizes and applications such as on building roofs, roadside emergency phones or in solar powered calculators.

Solar thermal systems use the sun's heat to generate electricity, usually by heating a fluid such as water and using it to drive a turbine. Such systems are not common in Australia.

Wind Turbines and Wind Farms

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. Commercial wind farms group these turbines together in one location to produce larger amounts of electricity.

Hydro-Electric Power Stations

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 classified as 'green'.

Biomass-Fired Generators

Methane generated by the decomposition of biomass resources (putrescible 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 Program 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 generally acceptable under GreenPower. However, utilisation of any materials (including wastes) from high conservation value forests such as old growth forests is not acceptable.

2.2 Participation

2.2.1 Reporting Period

The 2005 settlement period is from 1 January 2005 to 31 December 2005, covering a 12 month period.

A comparison in GreenPower customer numbers, purchases and sales figures has been used for the 2005 and 2004 reporting periods and is presented throughout this report.

2.2.2 GreenPower Product Providers/Products

During the 2005 settlement period, 22 GreenPower accredited products were offered by GreenPower product providers to domestic and commercial customers nationally (Table 2.1). This equates to four more products than the previous settlement period.

Table 2.1 GreenPower Product Providers and Products

Retailer	Product	States Offered					
		NSW	VIC	QLD	SA	WA	ACT
ActewAGL	GreenChoice	☼	☼	☼	☼	☼	☼
AGL	Green Living	✱	✱	✱	✱		✱
	Green Energy	☼	☼	✓	☼	✓	✓
AusPower	AusPower Verdant	✓	✓	✓	✓		✓
Australian Inland Energy	AiR Energy	☼					
Climate Friendly	Climate Neutral Power	☼	☼	☼	☼	☼	☼
Country Energy	countrygreen	☼	☼	✓	✓		✓
	countrygreen energy	☼	☼	☼			☼
Energex	earth'schoice	☼	☼	☼	✓	✓	☼
Energy Australia	PureEnergy	☼	✓	✓			

Retailer	Product	States Offered					
		NSW	VIC	QLD	SA	WA	ACT
EA IPR Retail Partnership	GreenSaver		✱		✱		
	GreenSaver Premium		✱		✱		
Ergon Energy	Clean Energy from Ergon Energy			☼			
	Clean Energy Plus from Ergon Energy	✓	✓	✓			✓
Integral Energy	Hampton Park Wind	☼					
	Wyuna Water	☼					
	Business Green	✓					
Origin Energy	GreenEarth	☼	☼		☼		
	EcoSaver – Residential Option (no longer offered to new customers)		✱				
	EcoPower (no longer offered to new customers)		☼				
TRUenergy (formerly TXU)	TRUenergy Green	☼	☼		☼		
Synergy (formerly Western Power)	NaturalPower					☼	

☼ Available to domestic / commercial customers
✱ Available to domestic customers only
✓ Available to commercial customers only

2.3 Changes to GreenPower Products

During the period from 1 January 2005 to 31 December 2005, a number of changes occurred within the GreenPower Program including the introduction of new products and changes to existing products. A summary of key changes is detailed below and in Table 2.2.

- AGL – Launched a new GreenPower product Green Living during the quarter ending June 2005 to domestic customers in NSW, VIC, QLD, SA and ACT. This product is 5 % GreenPower accredited.
- AusPower – The AusPower Verdant GreenPower product was discontinued in the second quarter of the 2005 settlement period.
- Climate Friendly – Is a new company which offers Climate Neutral Power. This product was launched in October 2005 and is 10%, 20% and 100% GreenPower accredited for residential customers. Commercial customers (>160 MWh annual consumption) are eligible for any percentage option. Climate Friendly purchases GreenPower Rights and RECs on behalf of its Climate Neutral Customers.
- Country Energy – Following a merger between Australian Inland Energy and Country Energy on 1 October 2005, the AiR GreenPower product was discontinued. Customers were then offered Country Energy's existing GreenPower product options. The quarterly reporting period between 1 October to 31 December 2005 shows that there was no activity for AiR Energy for that period.
- EA IPR Retail Partnership – The EA IPR Retail Partnership, trading as Energy Australia, is a 50:50 joint venture between Energy Australia and International Power. EA IPR launched two new GreenPower products, GreenSaver and GreenSaver Premium on 5 September 2005. GreenSaver is a 12.5% GreenPower accredited product and GreenSaver Premium is 100% GreenPower accredited.

- TRUenergy – Formerly known as TXU and owner of the GreenPower product Green Energy changed its name to TRUenergy Green in May 2005.
- Synergy – Formerly known as Western Power and owner of the GreenPower product NaturalPower. Synergy is now responsible for all associated GreenPower products including NaturalPower.

Table 2.2 Availability of GreenPower Products

Retailer	Product	Mar 2005	June 2005	Sept 2005	Dec 2005
ActewAGL	GreenChoice	✓	✓	✓	✓
AGL	Green Living		✓	✓	✓
	Green Energy	✓	✓	✓	✓
Auspower	Auspower Verdant	✓			
Australian Inland	AiR Energy	✓	✓	✓	
Climate Friendly	Climate Neutral Power				
Country Energy	countrygreen	✓	✓	✓	✓
	countrygreen energy				✓
Energex	earth'schoice	✓	✓	✓	✓
Energy Australia	PureEnergy	✓	✓	✓	✓
EA IPR Retail Partnership	GreenSaver			✓	✓
	GreenSaver Premium			✓	✓
Ergon Energy	Clean Energy from Ergon Energy	✓	✓	✓	✓
	Clean Energy Plus from Ergon Energy	✓	✓	✓	✓
Integral Energy	Hampton Park Wind	✓	✓	✓	✓
	Wyuna Water	✓	✓	✓	✓
	Business Green	✓	✓	✓	✓
Origin Energy	GreenEarth	✓	✓	✓	✓
	EcoSaver	✓	✓	✓	✓
	EcoPower	✓	✓	✓	✓
TRUenergy	TRUenergy Green	✓	✓	✓	✓
Synergy	NaturalPower	✓	✓	✓	✓

2.3.1 GreenPower Customers

As of 31 December 2005, 208,086 domestic and 11,080 commercial customers purchased GreenPower nationally. This represents a 66% increase in domestic customers and an 82% increase in commercial customers from 31 December 2004. The total number of GreenPower customers amounted to 219,166. This equates to a rise of 67% since the end of the 2004 settlement period.

Table 2.3 details domestic and commercial customers by GreenPower products. Figure 2.1 provides a breakdown of total customer numbers by State and Territory. Figures 2.2 and 2.3 provide a breakdown of residential and commercial customers by State and Territory. The trend in annual GreenPower customer number growth is provided in Figure 2.4.

Table 2.3 Customer Numbers as at 31 December 2005

Retailer	Product	Domestic Customers	Commercial Customers
Actew AGL	Green Choice	6,463	42
AGL Green Energy	Green Living	18,446	0
	Green Energy	2,274	4,771
AusPower	Auspower Verdant	0	2
Australian Inland Energy	AiR Energy	0	0
Climate Friendly	Climate Neutral Power	7	6
Country Energy	countrygreen	1,861	815
	countrygreen Energy	8,346	294
Energex	*earth'schoice*	36,368	430
Energy Australia	Pure Energy	5,372	1,714
EA IPR Retail Partnership	GreenSaver	9,628	0
	GreenSaver Premium	6	0
Ergon Energy	Clean Energy from Ergon Energy	28,238	574
	Clean Energy Plus Option	0	3
Integral Energy	Hampton Wind	148	0
	Wyuna Water	779	50
	Business Green	0	530
Origin Energy	GreenEarth	68,160	708
	EcoSaver	4,806	0
	EcoPower	152	617
TRUenergy	TRUenergy Green	15,905	419
Synergy	NaturalPower	1,127	105
TOTAL		**208,086**	**11,080**

Figure 2.1 Breakdown of Total GreenPower Customer Participation by State and Territory as at 31 December 2005

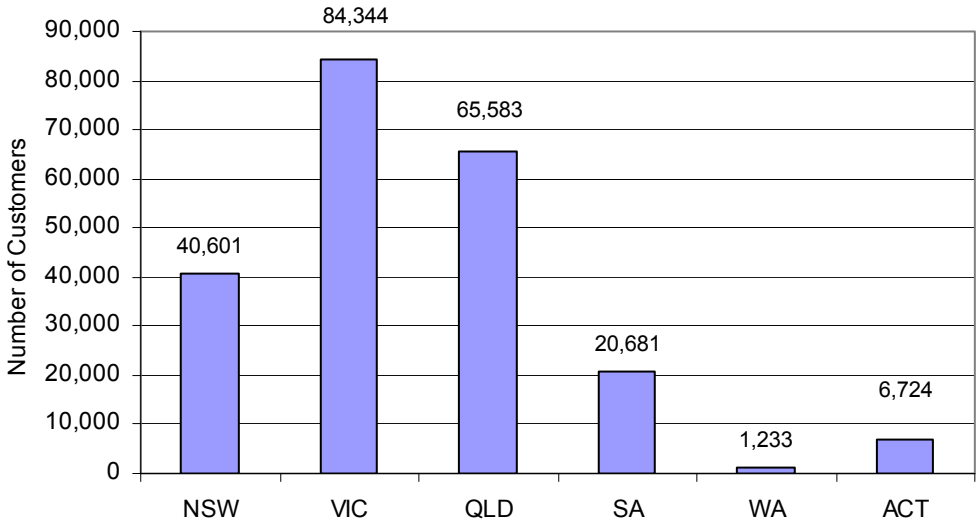


Figure 2.2 Breakdown of GreenPower Residential Participation by State and Territory as at 31 December 2005

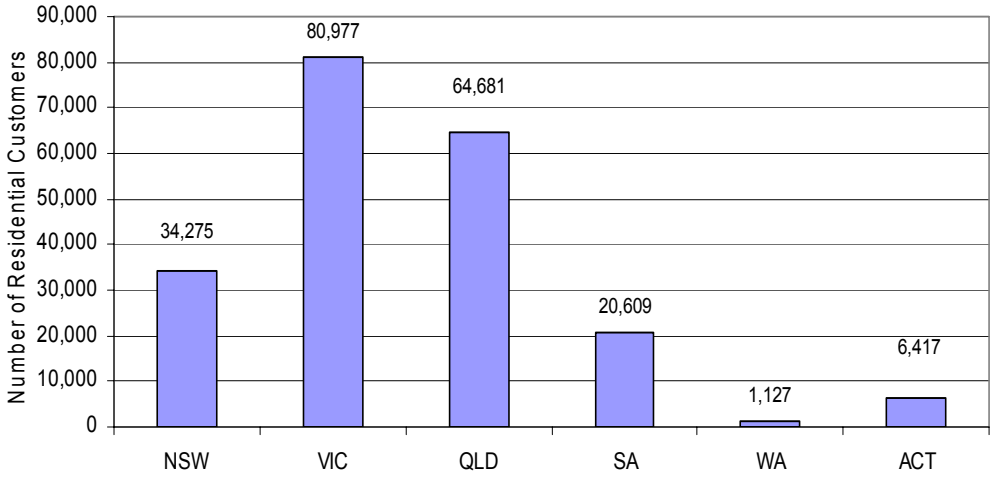


Figure 2.3 Breakdown of GreenPower Commercial Participation by State and Territory as at 31 December 2005

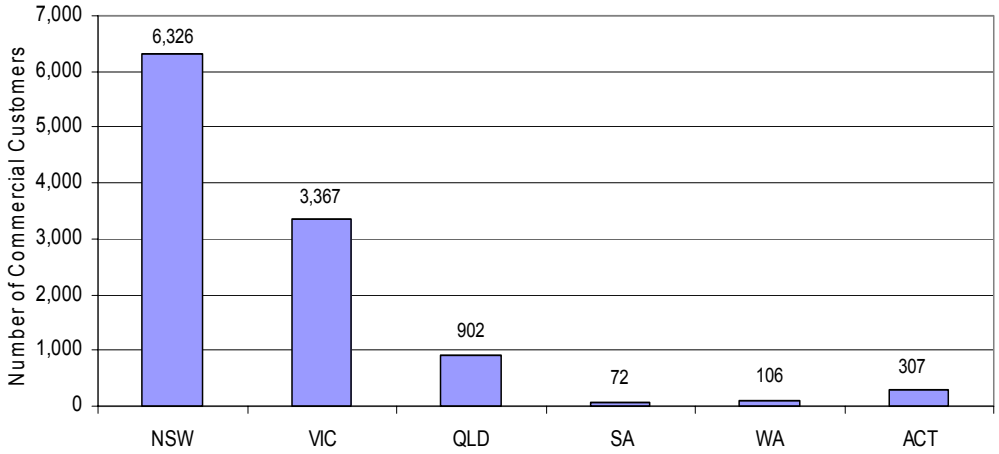
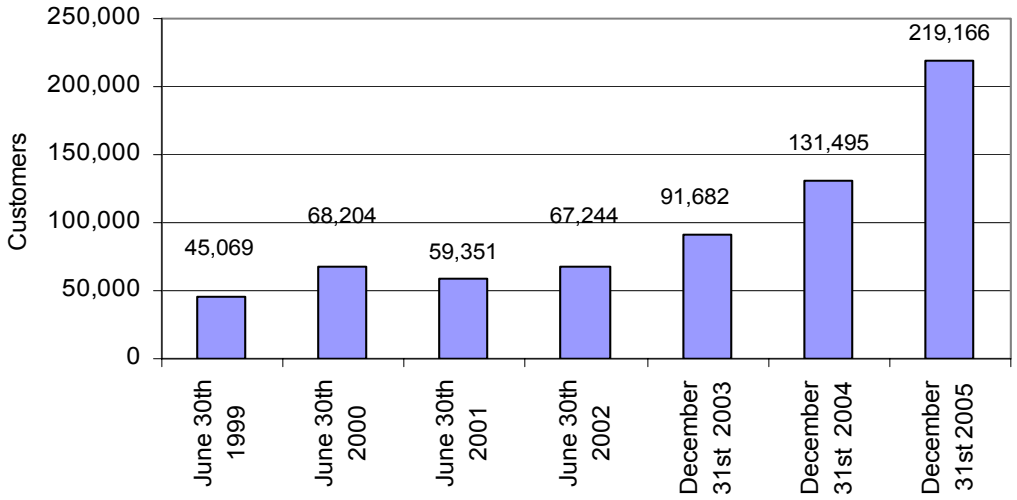


Figure 2.4 Trend in Total GreenPower Customer Participation



2.4 GreenPower Purchases and Sales

Total reported GreenPower purchases by GreenPower product providers increased by 87% since the previous settlement period from 1,253,063 MWh in 2004 to 2,344,344 MWh for the 2005 settlement period.

Total GreenPower sales during the 2005 settlement period were 542,256 MWh.

A breakdown of total GreenPower sales (combined residential and commercial) by State and Territory for the 2005 settlement period is provided in Figure 2.5. Combined residential and commercial GreenPower sales were greatest in the State of NSW at 199,793 MWh, followed by Victoria (166,000 MWh) and Queensland (105,853 MWh).

A breakdown of residential and commercial GreenPower sales by State and Territory for the 2005 settlement period is provided in Figure 2.6. Commercial GreenPower sales were greatest in NSW at 161,287 MWh, whilst residential GreenPower sales were greatest in Victoria at 75,972 MWh.

Growth in demand for GreenPower increased by 13% since the previous settlement period with total sales of GreenPower increasing from 481,333 MWh in 2004 to 542,256 MWh in 2005. The trend in annual GreenPower sales to date is shown in Figure 2.7.

Total GreenPower sales since the Program's establishment in 1997 are 2,773,385 MWh.

Figure 2.5 Breakdown of GreenPower Sales by State and Territory for the 2005 Settlement Period

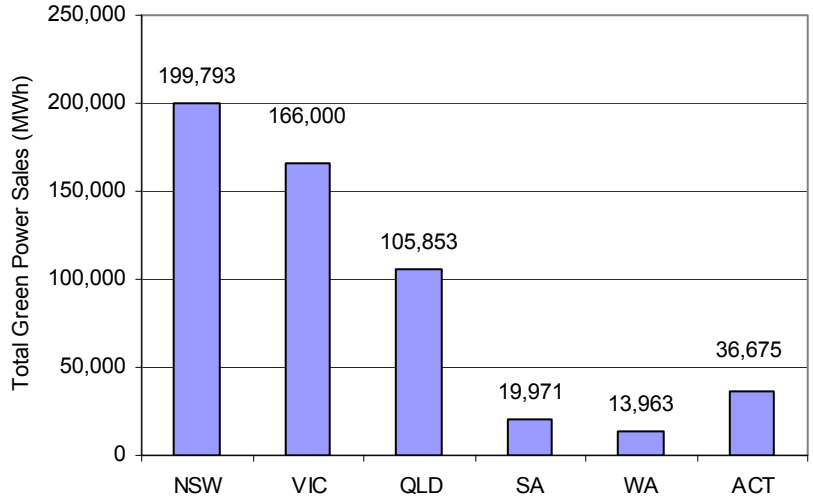


Figure 2.6 Breakdown of Residential and Commercial GreenPower Sales by State and Territory for the 2005 Settlement Period

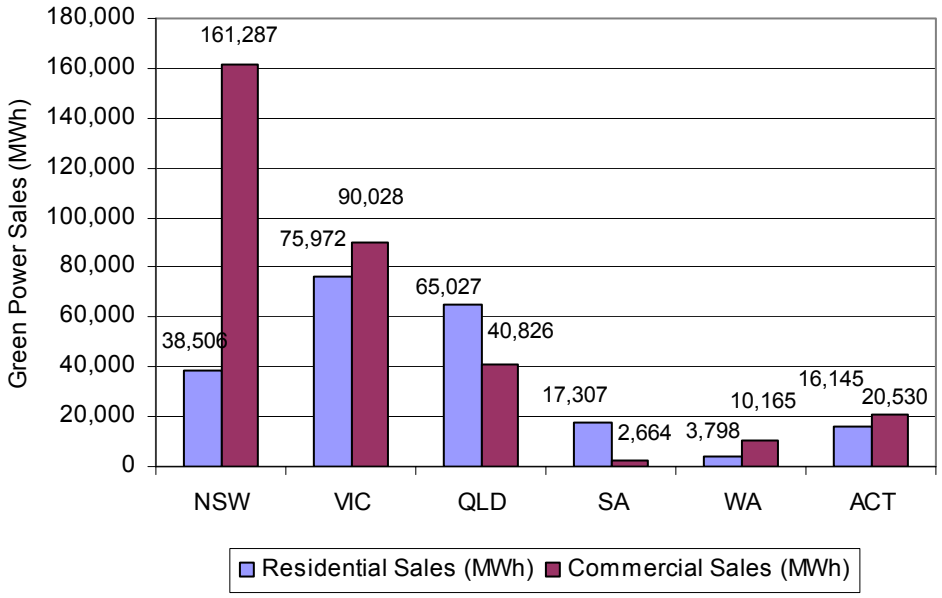
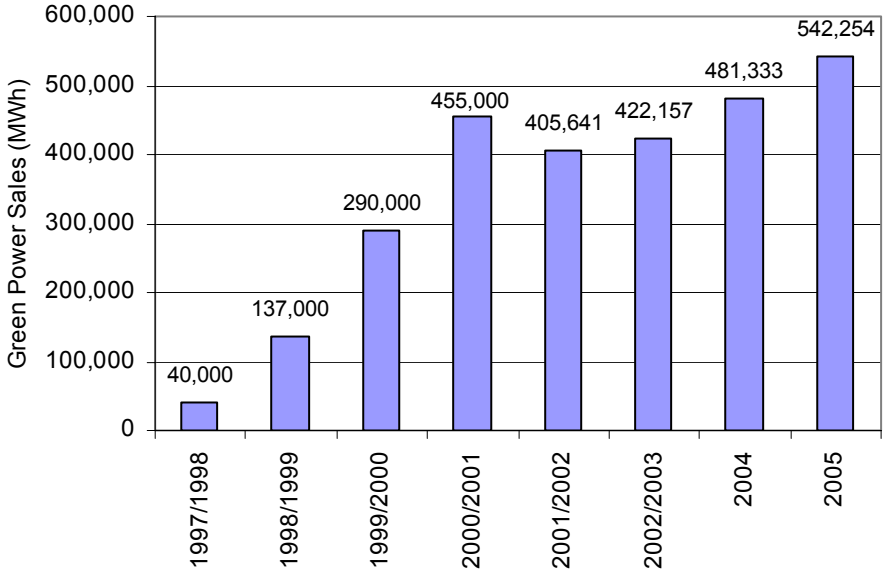


Figure 2.7 Trend in Annual GreenPower Sales



2.4.1 GreenPower Events, Events Customers and Events sales

During the 2004 settlement period, GreenPower product providers began reporting on GreenPower events, events customers and sales resulting from GreenPower events. A GreenPower event customer is defined as a customer who purchases accredited GreenPower to meet 100% of a specific event's electricity consumption. The event organiser is able to use the GreenPower Event logo on all promotional material for the event.

In the 2005 settlement period, nine GreenPower product providers supplied accredited GreenPower for the running of GreenPower events. During this period, 33 events were powered by 100% GreenPower, accounting for 333 MWh of GreenPower sales. Table 2.4 provides a breakdown of GreenPower events, events customers and events sales by retailer. Please note that these figures are included in total GreenPower sales in Section 2.4.

Table 2.4 GreenPower Events, Events Customers and Associated Sales

Retailer	GreenPower Events	Events Customers	GreenPower Sales (MWh)
ActewAGL	1	1	4.13
AGL	4	4	31.18
Auspower	6	2	47.00
Climate Friendly	1	1	0.40
Country Energy	4	4	14.72
Energex	2	1	5.00
Energy Australia	2	2	202.00
Integral Energy	1	1	0.48
Origin Energy	12	7	28.00
TOTAL	**33**	**22**	**332.91**

2.4.2 GreenPower Generation Sources

GreenPower is sourced from a number of different renewable energy generation types, as outlined in Section 2.1.5. Figures 2.8 and 2.9 illustrate the proportional change in generation types used to meet GreenPower sales in the 2004 and 2005 settlement periods.

Figure 2.8 Sales by Energy Type (2004)

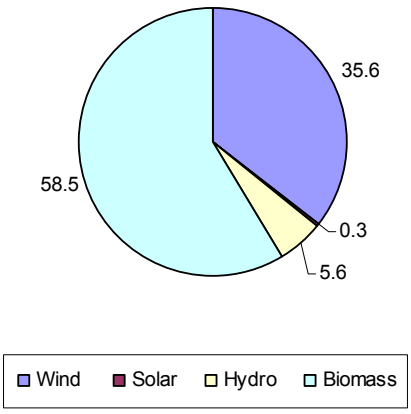
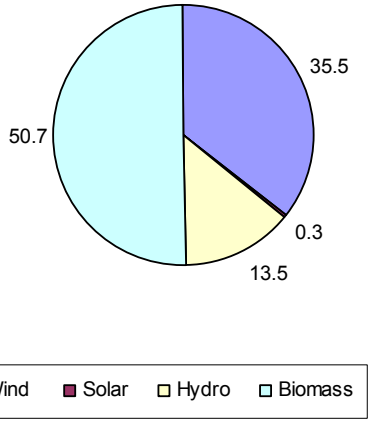


Figure 2.9 Sales by Energy Type (2005)



2.5 Energy from 'Existing' and 'New' GreenPower Generators

To encourage the installation of new green electricity generators, electricity providers are required to source at least 80 per cent of GreenPower sales from 'new' GreenPower approved generators. A 'new' GreenPower generator is defined as an electricity generator or increase in generator capacity, which was commissioned or first sold energy (whichever is earlier) after January 1, 1997. The compliance of GreenPower products against this criterion has been assessed in this audit. From 1 July 2006 providers will be required to source 100% of new customer GreenPower sales from 'new' GreenPower approved generators.

For the 2005 Annual Audit, GreenPower product providers were assessed against this criterion according to their allocations of 'new' GreenPower over the 12 month reporting period. Final assessment has indicated that all GreenPower product providers met this minimum 'new' GreenPower requirement. Table 2.5 summarises this assessment for each retailer.

Electricity from new GreenPower approved generators accounted for 91.4% of the total amount of electricity sold. This represents an increase since the 2004 settlement period from 89.6% of GreenPower sold sourced from new GreenPower approved generators.

Table 2.5 Energy from 'New' GreenPower Generators

Retailer	Product	% Allocated from 'New' Generators
ActewAGL	GreenChoice	87
AGL	Green Living	100
	Green Energy	80
AusPower	AusPower Verdant	100
Australian Inland	AiR Energy	100
Climate Friendly	Climate Neutral Power	100
Country Energy	Countrygreen	100
	Countrygreen energy	100
Energex	earth'schoice	100
Energy Australia	PureEnergy	88
EA IPR Retail Partnership	GreenSaver	80
	GreenSaver Premium	100
Ergon Energy	Clean Energy from Ergon Energy	100
	Clean Energy Plus from Ergon Energy	80
Integral Energy	Hampton Park Wind	100
	Wyuna Water	100
	Business GreenPower	100
Origin Energy	GreenEarth	83
	EcoSaver	80
	EcoPower	80
TRUenergy	TRUenergy Green	100
Synergy	NaturalPower	100

2.5.1 Renewable Energy Certificates (RECs) Allocations

To ensure that GreenPower sales are additional to renewable energy demand driven by the Mandatory Renewable Energy Target (MRET), GreenPower product providers are required to transfer (or 'set aside') one Renewable Energy Certificate (REC) for each MWh of generation classified as 'new' and sold as part of a GreenPower product within a settlement period. GreenPower product providers are not permitted to use these RECs to meet their obligations under MRET, and such RECs must remain in a registered GreenPower Designated Account on the Registry for Renewable Energy Certificates until otherwise notified by the Program Manager.

The transfer of RECs must be made within 12 weeks of the end of each settlement period.

Concession arrangements apply in certain circumstances upon approval from the GreenPower Program Manager. Under such an arrangement an electricity retailer may be required to set aside fewer RECs than would otherwise be the case.

RECs transferred during the 2005 settlement period are detailed in Table 2.6 below. A total of 269,575 RECs were transferred into the GreenPower Designated Accounts.

Table 2.6 RECs Transferred by Generation Source

Generator Name	Generation Source	Number RECs Transferred
Kelvin Road Landfill Gas Power Generation Facility	Biomass	5,000
Millar Road Landfill Gas Power Generation Facility	Biomass	4,823
Albany Wind Farm	Wind	11,169
Canunda Wind Farm	Wind	10,996
Challicum Hills Wind Farm	Wind	60,696
Chichester Dam	Hydro	200
Codrington Wind Farm	Wind	16,309
Dungog WTP	Hydro	114
Eastern Creek Landfill Power Station	Biomass	4,156
Invicta Sugar Mill Upgrade	Biomass	3,751
Lake Bonney Stage One Wind Farn	Wind	32,212
Bendora-Stromlo Mini Hydro	Hydro	631
Kareeya Hydro Power Station	Hydro	5,330
South Cardup Wind Farm	Wind	197
Starfish Hill Wind Farm	Wind	22,250
Suncoast Gold Macadamias Generation Plant	Biomass	353
Tableland Sugar Mill	Biomass	106
Thursday Island	Wind	270
Tinaroo Hydro	Hydro	270
Toora Wind Farm	Wind	14,585
Tully Sugar Mill Upgrade	Biomass	1,045
West Nowra Landfill Gas (Shoalhaven)	Biomass	4,025
Windy Hill Wind Farm Stage 1	Wind	4,765
Woolnorth Bluff Point Wind Farm	Wind	53,312
Wattle Point Wind Farm Pty Ltd	Wind	13,010
TOTAL		**269,575**

2.6 New GreenPower Generators

New GreenPower generators installed between 1 January 1997 and 31 December 2005 and used in GreenPower Products in 2005 are detailed in Table 2.7.

Table 2.7 New GreenPower Generators

Generator Name	Generator Location	Type[1]	GreenPower Retailer
Albany Wind Farm	Albany, WA	W	Synergy
Atlas Renewable Energy Facility	Noranda, WA	B	Energex
AV Jennings Solar System	Kellyville, NSW	S	Integral Energy
Bendora-Stromlo Mini Hydro	Canberra, ACT	H	ActewAGL, AGL
Berwick Landfill Upgrade	Berwick, VIC	B	TRUenergy
Blayney Wind Farm	Blayney, NSW	W	Country Energy
Broadwater Sugar Export	Broadwater, NSW	B	Country Energy
Brooklyn Landfill Power Station	Brooklyn, VIC	B	Ergon Energy
Browns Plains Landfill	Browns Plains, QLD	B	Energex
Caboolture Region Environmental Education Centre (CREEC)	Caboolture, QLD	S	Energex
Camellia Biogas Power Station	Parramatta, NSW	B	Country Energy
Canunda Wind Farm	Tantanoola, SA	W	ActewAGL, AGL, Climate Friendly
Cathedral Rocks Wind Farm	Port Lincoln, SA	W	TRUenergy
Challicum Hills Wind Farm	Ararat, VIC	W	Integral Energy, Origin Energy
Chichester Dam	Chichester, NSW	H	Australian Inland Energy, Country Energy
Codrington Wind Farm	Codrington, VIC	W	Energex, Origin Energy
Condong Sugar Mill	Condong, NSW	B	Country Energy
Crookwell Wind Farm	Crookwell, NSW	W	Country Energy
Dungog WTP	Dungog, NSW	H	Australian Inland, Country Energy
Eastern Creek Landfill Power Station	Eastern Creek, NSW	B	Ergon Energy
Edward Street Solar Project (FDP)	Brisbane City, QLD	S	Energex
Fitzroy Falls Centre Solar System	Fitzroy Falls, NSW	S	Integral Energy
Foreshore Park Solar System	Newcastle, NSW	S	Energy Australia
Gecko House Solar Array	Currumbin, QLD	S	Energex
Hampton Wind Park	Hampton, NSW	W	Integral Energy
Homebush Business Park Solar (John Cox Centre)	Homebush, NSW	S	Energy Australia
Invicta Sugar Mill Upgrade	Giru, QLD	B	Energy Australia, EA IPR Retail Partnership, Ergon Energy

Generator Name	Generator Location	Type[1]	GreenPower Retailer
Kelvin Road Landfill Gas Power Generation Facility	Gosnells, WA	B	Energex, AGL
Koombooloomba Hydro	Cairns, QLD	H	Ergon Energy
Kooragang Wind Turbine	Newcastle, NSW	W	Energy Australia
Lake Bonney Wind Farm	Millicent, SA	W	Country Energy
Landers Shute Pipeline	Landers Shute, QLD	H	Energex
Lucas Heights 1 WMC Expansion	Lucas Heights, NSW	B	Energy Australia
Lucas Heights 2 WMC	Lucas Heights, NSW	B	Country Energy, Energy Australia
Malabar Sewage Treatment Plant	Malabar, NSW	B	Origin Energy
Molendinar LFG	Molendinar, QLD	B	Energy Australia
Mornington Landfill Gas	Mornington, QLD	B	Energy Australia
Nieterana (Buttlers Gorge) Mini Hydro	Derwent River, TAS	H	Origin Energy
Parangana Mini Hydro	Mersey Valley, TAS	H	Origin Energy
Pindari HEPS	Ashford - Severn R., NSW	H	Energex
Proserpine Sugar Mill Network Expansion	Proserpine, QLD	B	Energy Australia, Ergon Energy
Queen Victoria Market PV Installation	Melbourne, VIC	S	Origin Energy
Queanbeyan Solar Farm	Queanbeyan, NSW	S	Country Energy
Rochedale Renewable Energy Facility	Rochedale, NSW	B	Country Energy
Rockingham Landfill Gas	Rockingham, WA	B	ActewAGL, AGL
Rockingham PV Concentrator Troughs	Rockingham, WA	S	Synergy
Rocky Point Sugar Mill Upgrade	Woongoolba, QLD	B	Energex
Singleton Solar Farm (Stage 1)	Singleton, NSW	S	Energy Australia
Singleton Solar Farm (Stage 2)	Singleton, NSW	S	Energy Australia
Solar Domestic Customers (deemed generation)	Various	S	Energex, Origin Energy
Solar PV Systems	Various	S	Integral Energy
South Cardup Renewable Energy Facility	South Cardup, WA	B	Energex
South Johnstone Sugar Mill Upgrade	Gordonvale, QLD	B	Energy Australia, Ergon Energy
Stapylton LFG	Stapylton, QLD	B	Energy Australia
Starfish Hill Wind Farm	Cape Jervis, SA	W	ActewAGL, AGL
Suntown LFG	Sundtown, QLD	B	Energy Australia
Sydney Superdome Solar system	Homebush, NSW	S	Energy Australia
Tableland Sugar Mill	Arriga, QLD	B	Ergon Energy
Terminal Storage Mini Hydro	Tea Tree Gully, SA	H	Origin Energy
Tinaroo Hydro	Tinaroo, QLD	H	Ergon Energy
Toora Wind Farm	Toora, VIC	W	Origin Energy
Tully Sugar Mill Upgrade	Tully, QLD	B	Energy Australia, Ergon

Generator Name	Generator Location	Type[1]	GreenPower Retailer
			Energy
Wattle Point Wind Farm	Yorke Peninsula, SA	W	TRUenergy
Western Plains Zoo Solar Farm	Dubbo, NSW	S	Country Energy
West Nowra Landfill Gas (Shoalhaven)	Nowra, NSW	B	ActewAGL, AGL
Whitwood Road Renewable Energy Facility	Whitwood, QLD	B	Country Energy
Windy Hill Wind Farm Stage 1	Ravenshoe, QLD	W	Origin Energy, Ergon Energy, Energex
Wivenhoe Mini Hydro	Ipswich, QLD	H	Energy Australia
Woolnorth Bluff Point Tasmania	Bluff Point, TAS	W	Energy Australia
Wyndham Landfill Gas	Wyndham, QLD	B	Energy Australia
Wyuna Water (Kembla Grange)	Illawarra, NSW	H	Integral Energy

1. B = Biomass (includes sewage and bagasse), H = Hydro, S = Solar, W = Wind.

2.7 Marketing Compliance

Electricity providers that participate in the National GreenPower Accreditation Program are required to submit all GreenPower marketing materials currently in use to the Program Manager to verify compliance with the marketing criteria. Marketing materials have included brochures, letters, advertisements, posters and relevant Internet website pages. The marketing criteria are outlined in detail in Section 4 of the *National GreenPower Accreditation Document Version 3.1A, September 2004* and include:

1. GreenPower product providers are contractually required to use the GreenPower logo in advertisements and marketing material associated with their GreenPower Products;

2. The GreenPower logo must be used in compliance with the logo usage requirements and guidelines available on the website (www.greenpower.gov.au);

3. GreenPower product providers must refer to their product's accreditation in all advertising and marketing (online, print, broadcast) in connection with the product or the Program as per the GreenPower Retailer Agreement;

4. In marketing relating to the composition of a GreenPower product, the retailer must provide clear information about the portions of GreenPower accredited electricity and non-accredited electricity that will be provided. Where the balance of a product is 100 per cent renewable (but not GreenPower accredited), the distinction between GreenPower accredited and non-accredited renewable energy must be clear and obvious. If GreenPower product providers offer their product as a 'block tariff', the retailer must clearly communicate how the 'block' is structured and what the 'block' translates to in terms of kWh of GreenPower purchased per day/month/quarter; and

5. GreenPower product providers must ensure that they do not undertake misleading advertising or conduct in relation to GreenPower.

Table 2.8 overleaf, provides a detailed breakdown of compliance according to each of the accreditation criteria for the last six months of the settlement period.

GreenPower product providers that do not meet 100 per cent compliance with the above criteria will be expected to rectify this in due course.

The compliance rating is based on a five star scale corresponding to the percent compliance values detailed below.

*****	80% to 100% marketing compliance
****	60% to 79% marketing compliance
***	40% to 59% marketing compliance
**	20% to 39% marketing compliance
*	0% to 19% marketing compliance

Table 2.8 GreenPower Product Marketing Review

Retailer	Use and Compliance of GP Logo	Accreditation Reference	Treatment of Blends	Absence of Misleading Conduct	Compliance Rating
ActewAGL	*****	*****	*****	*****	*****
AGL	*****	*****	*****	*****	*****
AusPower	N/A	N/A	N/A	N/A	N/A
Australian Inland Energy	N/A	N/A	N/A	N/A	N/A
Climate Friendly	*****	*****	N/A	*****	*****
Country Energy	****	***	*****	*****	****
Energex	*****	***	*****	*****	*****
Energy Australia	*****	*****	*****	*****	*****
EA IPR Retail Partnership	*****	*****	*****	*****	*****
Ergon Energy	****	**	*****	*****	****
Integral Energy	*****	*****	*****	*****	*****
Origin Energy	*****	****	*****	*****	*****
TRUenergy	*****	*****	*****	*****	*****
Synergy	*****	***	*****	*****	****

3.1 Audit Process

This is the eighth audit of the GreenPower Program, with audit systems being established in collaboration with the NSW Department of Energy, Utilities & Sustainability (DEUS). Audit systems are subject to refinement as the program develops.

3.1.1 Technical Audit Process

The 2005 audit process consisted of an assessment of each GreenPower product for technical compliance with the *National GreenPower Accreditation Document Version 3.1A, September 2004*. GreenPower product providers were required to complete the Annual Technical Audit Report. Independent auditors assessed information provided against the accreditation criteria and completed an independent audit report.

In cases where information was inadequate or contradictory, electricity providers were consulted and where appropriate, GreenPower generators were contacted directly.

3.1.2 National GreenPower Accreditation Criteria

A summary of the National GreenPower Accreditation Criteria is provided in Table 3.1. An unabridged copy of the of the *National GreenPower Accreditation Document Version 3.1A, September 2004* is provided in Appendix A.

Table 3.1 National GreenPower Accreditation Criteria

Technical Accreditation Criteria		Description
3.1	Technical Auditing	The GreenPower retailer must provide the Program Manager with the reports and other information necessary to carry out a technical audit of all GreenPower products each year. The technical report must be audited by an independent and suitably qualified auditor (Tier 1 or Tier 2 accounting companies) appointed by the GreenPower retailer.
3.2	Use of GreenPower Generators	All electricity generators installed as a result of or used by GreenPower products must: be approved by the Program Manager; and conform to the definition and eligibility requirements of a GreenPower generator as set out in Section 5. The Program Manager, on behalf of the NGPSG, has the right to disallow particular generators that in its opinion do not fulfil the definition of a GreenPower electricity generator.

Technical Accreditation Criteria		Description
3.3	Changes to the GreenPower Product and Generators	GreenPower product providers must alert the Program Manager in writing of any changes that are made to the operation of the Product (eg Product structure, changes in fuel sources, etc) prior to those changes taking effect. GreenPower product providers are not required to seek approval from DEUS for inclusion of new GreenPower generators, however this information must be advised in the Quarterly Report following the inclusion. It is the retailer's responsibility to ensure that those generators being used in their product do have GreenPower approval.
3.4	Proportion of Energy from New GreenPower Generators	GreenPower product providers must source a minimum level of 80% of total accredited GreenPower generation sold through their GreenPower products from 'new' GreenPower generation.
3.5	Claims of Eligible Generation for GreenPower Products	This criterion relates to a set of conditions for valid claims of GreenPower generation purchases. GreenPower product providers must demonstrate ownership of the GreenPower generation (or portion thereof) purchased during the settlement period. Additionally, a Renewable Energy Certificate (REC) must be surrendered for each MWh of new generation allocated through the product. Refer to the *National GreenPower Accreditation Document, Version 3.1A* for additional details.
3.6	Balancing GreenPower Supply and Demand	Each Product must have an identified **settlement period** over which GreenPower supply balances demand i.e. GreenPower product providers are required to have made valid claims for GreenPower purchases (as defined in Section 3.5) equivalent to the amount sold to their customers through their GreenPower product within the settlement period. For 2005, this settlement period is the 12-month period from 1 January 2005 to 31 December 2005. The Program Manager will allow a 12-week **reconciliation period** after the end of the settlement period. In cases where there is a shortfall of valid claims for new GreenPower purchases to satisfy new generation requirements for sales of a GreenPower Product, a number of conditions apply. Additional details are provided in the *National GreenPower Accreditation Document, Version 3.1A*
3.7	Transfer of Renewable Energy Certificates (RECs)	GreenPower product providers are required to transfer (or 'set aside') 'eligible' RECs as created under MRET for each MWh of generation classified as "new" GreenPower generation acquired by the retailer and sold as part of a GreenPower product within a settlement period. In order to comply, GreenPower product providers are required to set up their own GreenPower **Designated Account** on the REC Registry into which RECs for GreenPower compliance will be transferred. GreenPower product providers are not permitted to use these RECs to meet their obligations under MRET, and such RECs must remain in the Designated Account until otherwise notified by the Program Manager. The transfer of RECs must be made each year within 12 weeks of the end of the settlement period. Concession arrangements for compliance will apply in certain circumstances as outlined within the *National GreenPower Accreditation Document, Version 3.1A.*

Technical Accreditation Criteria		Description
3.8	Eligibility of RECs	Only RECs created by a GreenPower generator are eligible for transfer against the requirement for transfers arising as a result of 'new' generation GreenPower sales. As an exception to this rule, RECs from solar water heaters are accepted for the purpose of transfer. There is no requirement to transfer RECs from the same GreenPower generators as are used in the Product.
3.9	Shortfall in RECs	Any new GreenPower sales for which a concession cannot be claimed and RECs are not transferred, cannot be validly claimed as GreenPower in accordance with Section 3.6. Where a shortfall for meeting supply with demand occurs as a result, the conditions outlined in Section 3.7 will apply.
3.10	Retailer Purchase of GreenPower Products	Under the Accreditation Program all GreenPower product providers are required to purchase GreenPower at a level which entitles them to use the GreenPower Customer Logo. This level is defined in "The GreenPower Customer Logo – Guidelines for Corporate Customers" of the *National GreenPower Accreditation Document, Version 3.1A,* Section 4. This requirement applies to each energy supplier's retail arm as a minimum.
3.11	Treatment of System Losses	GreenPower product providers can choose if they wish to specify to the customer and Program Manager whether transmission and/or distribution system losses attributable to a GreenPower Customer are supplied from GreenPower electricity generators. If system losses are included, generation supplying these losses must conform to all requirements above, including the requirements for new generation.
4.2	Marketing Compliance Review	Energy providers who participate in the National GreenPower Accreditation Program must submit all GreenPower marketing materials currently in use to the Program Manager to verify compliance with the guidelines outlined in this code. The Marketing Compliance Review occurs biannually as part of the June Quarterly report and the Annual Audit.
4.3	Provision of Information to Customers	Each energy retailer wishing to use the GreenPower logo, or claim GreenPower accreditation for any of their electricity products agrees to provide customers with information on the GreenPower product as defined in the *National GreenPower Accreditation Document, Version 3.1A.*
4.4	Use of GreenPower Logo	Four logos have been developed to build recognition of GreenPower products, GreenPower customers, GreenPower generators and GreenPower events. GreenPower product providers are contractually required to use the GreenPower Product logo in advertisements and marketing material associated with their GreenPower products. GreenPower product providers must refer to their product's accreditation in all advertising and marketing (online, print, broadcast) in connection with the product or the Program as per the GreenPower Retailer Agreement. This will be audited for compliance as part of the Marketing Compliance Review. Customers may be entitled to use the GreenPower Customer Logo if they have purchased or contracted to purchase sufficient levels of GreenPower, in accordance with the requirements, outlined in a separate document entitled "The GreenPower Customer Logo – Guidelines for Corporate Customers".

Technical Accreditation Criteria		Description
4.5	Treatment of Blends of GreenPower and Other Energy	Prior to entering into an agreement to provide energy to a customer, and in all marketing and advertising related to the composition of a GreenPower Product, the retailer must provide clear information about the portions of GreenPower accredited electricity and non-accredited electricity that will be provided (for each level of GreenPower on offer). Where the balance of a product is 100% renewable (but not GreenPower accredited) the distinction between GreenPower accredited and non-accredited renewable energy must be clear and obvious. If a customer is offered a 'block tariff', the retailer must clearly communicate how the 'block' is structured (eg proportions of GreenPower approved energy and other components) and what the ‘block’ translates to in terms of approximate kWh of GreenPower purchased per day/month/quarter, emphasising that calculations are based on average consumer consumption levels rather than actual.
4.6	Misleading Conduct	GreenPower product providers must ensure that they do not undertake, in the opinion of the Program Manager, misleading advertising or conduct in relation to GreenPower. Of particular importance is misleading advertising relating to the composition of GreenPower products. Additional details on misleading conduct are provided in the *National GreenPower Accreditation Document, Version 3.1A.*

The following sections provide a description and summary assessment of compliance for each GreenPower product.

4.1 Product Description

Availability: All domestic and business customers Australia-wide.

Residential Customer Options: Choose GreenChoice5, GreenChoice10 or GreenChoice15. ActewAGL will then purchase 5, 10 or 15 kWh of electricity per day from GreenPower approved renewable sources for each GreenChoice residential customer.

Business Customer Options: Choose Business GreenChoice10. Business customers may elect to purchase multiples of 10 kWh per day. ActewAGL will then purchase the number of standard units nominated per day from GreenPower approved renewable sources.

Contact ActewAGL: On 13 14 93 or visit www.actewagl.com.au/greenchoice.

4.2 Product Summary

Customer Numbers have increased from 5,699 as of December 2004 to 6,505 as of December 2005, with 6,463 domestic and 42 commercial customers.

GreenPower Sales have decreased from 28,374 MWh for the 2004 settlement period to 26,582 MWh in 2005. GreenPower sales to residential customers were 16,241 MWh and sales to commercial customers were 10,341 MWh.

GreenPower Purchases have decreased from 28,374 MWh for the 2004 settlement period to 26,582 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (17,930 MWh), hydro (440 MWh) and biomass (8,212 MWh).

GreenPower Events powered by ActewAGL totalled one, with 4.13 MWh of GreenPower allocated through this event.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 4.1, 4.2 and 4.3.

Table 4.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	5,522	6,093	6,472	6,463	N/A
Commercial	129	123	43	42	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	3,387	3,387
New GreenPower	0	0	0	23,195	23,195
Total	**0**	**0**	**0**	**26,582**	**26,582**
Sales (MWh)					
Existing GreenPower	0	0	0	3,387	3,387
New GreenPower	0	0	0	23,195	23,195
Total	**0**	**0**	**0**	**26,582**	**26,582**
'New' Proportion of GreenPower Sales – 80% Compliance Requirement					**87%**

Table 4.2 GreenPower Generators

Name of Generator	E/N[1]	Type[2]	Location	GreenPower Approved
Broadmeadows Landfill Gas	E	B	Broadmeadows, VIC	✓
Millar Road Landfill Gas Power Generation Facility	N	B	Rockingham, WA	✓
West Nowra Landfill Gas	N	B	Nowra, NSW	✓
Starfish Hill Wind Farm	N	W	Starfish Hill, SA	✓
Canunda Wind Farm	N	W	Tantanoola, SA	✓
Bendora-Stromlo Mini Hydro	N	H	Canberra, ACT	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 4.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	17,930	0	440	8,212	**26,582**
Total GreenPower Sales	17,930	0	440	8,212	**26,582**
Percentage of GreenPower Sales	**67%**	**0**	**2%**	**31%**	

4.3 Audit Verification

URS independent audit of ActewAGL confirms that its GreenPower Product, ***Green Choice***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A* with the exception of some elements of the marketing criteria.

5.1 Product Description

AGL Green Living was launched during the quarter ending June 2005. Green Living is 5% GreenPower accredited.

Availability: Residential customers in Victoria, NSW and South Australia.

Residential Customer Options: Choose to purchase 10%, 25%, 50% or 100% GreenPower through the Green Living product.

Contact AGL: On 1300 556 245 or visit: www.agl.com.au.

5.2 Product Summary

AGL's Green Living product was not reported on prior to June 2005 and consequently, trend data is not available.

Customer Numbers were 18,446 as of December 2005, all being domestic customers.

GreenPower Sales were 971 MWh during 2005.

GreenPower Purchases were 971 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from Canunda wind farm.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 5.1, 5.2 and 5.3.

Table 5.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	0	3,819	11,729	18,446	N/A
Commercial	0	0	0	0	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	0	3.6	269	698	**971**
Total	**0**	**0**	**0**	**971**	**971**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	0	3.6	269	698	**971**
Total	**0**	**3.6**	**269**	**698**	**971**
"New' Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 5.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Canunda Wind Farm	N	W	Tantanoola, SA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 5.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	971	0	0	0	**971**
Total GreenPower Sales	971	0	0	0	**971**
Percentage of GreenPower Sales	**100%**	**0**	**0**	**0**	

5.3 Audit Verification

URS independent audit of AGL confirms that its GreenPower Product, ***Green Living***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

6.1 Product Description

Availability: Residential customers in Victoria, NSW and South Australia and commercial customers in all states.

Residential Customer Options: Choose to purchase 10%, 25%, 50% or 100% of electricity from GreenPower approved renewable energy sources.

Commercial Customer Options: Select the preferred level of green tariff anywhere from 1% to 100%.

Contact AGL: On 1300 556 245 or visit: www.agl.com.au.

6.2 Product Summary

Customer Numbers have increased from 3,545 as of December 2004 to 7,045 as of December 2005, with 2,274 domestic and 4,771 commercial customers.

GreenPower Sales have decreased from 37,785 MWh for the 2004 settlement period to 29,403 MWh in 2005. GreenPower sales to residential customers were 4,508 MWh and sales to commercial customers were 24,895 MWh.

GreenPower Purchases have increased from 233,590 MWh for the 2004 settlement period to 428,818 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (217,770 MWh) and biomass (211,048 MWh).

GreenPower Events powered by AGL totalled four, with 31.18 MWh of GreenPower allocated through these events.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 6.1, 6.2 and 6.3.

Table 6.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	2,681	2,524	2,343	2,274	N/A
Commercial	716	719	2,076	4,771	N/A
Purchases (MWh)					
Existing GreenPower	45,715	45,954	47,715	46,706	**186,090**
New GreenPower	51,717	52,033	69,485	69,493	**242,728**
Total	**97,431**	**97,987**	**117,200**	**116,199**	**428,818**
Sales (MWh)					
Existing GreenPower	1,082	1,147	1,594	2,057	**5,880**
New GreenPower	4,329	4,589	6,375	8,230	**23,522**
Total	**5,411**	**5,736**	**7,969**	**10,287**	**29,403**
"New' Proportion of GreenPower Sales – 80% Compliance Requirement					**80%**

Table 6.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Broadmeadows Landfill Gas	E	B	Broadmeadows, VIC	✓
Clayton Landfill Gas	E	B	Clayton, VIC	✓
Springvale Landfill Units 1-7	E	B	Springvale, VIC	✓
Highbury Landfill Gas	E	B	Highbury, SA	✓
Pedlars Creek Landfill Gas	E	B	Noarlunga, SA	✓
Tea Tree Gully Landfill Gas	E	B	St Agnes, SA	✓
Wingfield I Landfill Power Station	E	B	Wingfield, SA	✓
Wingfield II Landfill Power Station	E	B	Wingfield, SA	✓
West Nowra Landfill Gas	N	B	West Nowra, NSW	✓
Kelvin Road Landfill Gas Power Generation Facility	N	B	Gosnells, WA	✓
Millar Road Landfill Gas Power Generation Facility	N	B	Rockingham, WA	✓
Starfish Hill Wind Farm	N	W	Starfish Hill, SA	✓
Canunda Wind Farm	N	W	Tantanoola, SA	✓

3. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
4. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 6.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	217,770	0	0	211,048	**428,818**
Total GreenPower Sales	14,500	0	0	14,903	**29,403**
Percentage of GreenPower Sales	**49%**	**0**	**0**	**51%**	

6.3 Audit Verification

URS independent audit of AGL confirms that its GreenPower Product, ***Green Energy***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

Due to various industry movements the AusPower Verdant GreenPower product was discontinued in the second quarter of the 2005 settlement period.

7.1 Product Description

Availability: Large commercial and industrial customers in Victoria, NSW, ACT, Queensland and South Australia (purchasing >4GWh per annum).

Commercial Customer Options: Nominate the level of GreenPower purchase, from 1% to 100%, under individual contractual arrangements.

Contact AusPower: On 1300 303 331 or visit www.auspower.net.

7.2 Product Summary

Customer Numbers have decreased from one commercial customer as of December 2004 to no commercial customers as of December 2005.

GreenPower Sales have decreased from 2,825 MWh for the 2004 settlement period to 47 MWh for the 2005 settlement period.

GreenPower Purchases have decreased from 121,074 MWh for the 2004 settlement period to 47 MWh for the 2005 settlement period.

GreenPower Events powered by AusPower totalled 6, with 2 GreenPower customers serviced and 47 MWh of GreenPower allocated through these events.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 7.1, 7.2 and 7.3.

Table 7.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	0	0	0	0	N/A
Commercial	0	1	1	2	2
Purchases (MWh)					
Existing GreenPower	0	0	0	0	0
New GreenPower	0	8	4	35	47
Total	**0**	**8**	**4**	**35**	**47**
Sales (MWh)					
Existing GreenPower	0	0	0	0	0
New GreenPower	0	8	4	35	47
Total	**0**	**8**	**4**	**35**	**47**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 7.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Wattle Point Wind Farm	N	W	Yorke Peninsula, SA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 7.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	47	0	0	0	**47**
Total GreenPower Sales	47	0	0	0	**47**
Proportion of GreenPower Sales	**100%**	**0%**	**0%**	**0%**	

7.3 Audit Verification

URS independent audit of Auspower confirms that its GreenPower Product, ***AusPower Verdant***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

Following a merger between Australian Inland Energy and Country Energy on 1 October 2005, Country Energy's AiR Energy was discontinued. Customers were then offered Country Energy's existing GreenPower product options.

8.1 Product Description

Availability: Residential and commercial customers in Country Energy's Far West region.

Customer Options: Both residential and commercial customers can choose to purchase 10%, 25%, 50% or 100% GreenPower through the AiR Energy product.

Contact Country Energy's Far West region: On 13 23 56 or visit: www.australianinland.com.au.

8.2 Product Summary

Customer Numbers have decreased from 103 as of December 2004 to none as of December 2005.

GreenPower Sales have decreased from 475 MWh for the 2004 settlement period to 393 MWh in 2005.

GreenPower Purchases have decreased from 1,000 MWh for the 2004 settlement period to 393 MWh for the 2005 settlement period.

GreenPower Events powered by Australian Inland totalled none.

Additional details on GreenPower customers, purchases, sales and generators is provided in Tables 8.1, 8.2 and 8.3.

Table 8.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	91	94	94	0	N/A
Commercial	5	5	5	0	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	0	0	393	0	**393**
Total	**0**	**0**	**393**	**0**	**393**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	118	120	154	0	**393**
Total	**118**	**120**	**154**	**0**	**393**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 8.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Dungog WTP	N	H	Dungog, NSW	✓
Chichester Dam	N	H	Chichester, NSW	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 8.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	0	0	393	0	**393**
Total GreenPower Sales	0	0	393	0	**393**
Proportion of GreenPower Sales	**0%**	**0%**	**100%**	**0%**	

8.3 Audit Verification

URS independent audit of Australian Inland confirms that its GreenPower Product, ***AiR Energy***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

9.1 Product Description

Climate Friendly makes GreenPower available nationally using a web interface and also directly to the corporate sector. While Climate Neutral customers continue to purchase electricity from their standard electricity supplier, Climate Friendly will purchase and surrender the equivalent number of GreenPower Rights and Renewable Energy Certificates (RECs) from eligible generation sources to meet the customer's electricity consumption. Climate Neutral Power was launched in October during the fourth quarter of the 2005 settlement period.

Availability: Residential and business customers throughout Australia.

Residential Customer Options: Select one of three options: Emerald – 100% accredited GreenPower, Green – 25% accredited GreenPower, Economy – 10% accredited GreenPower. All GreenPower rights are sourced from 'new' wind generators.

Commercial Customer Options: Same as residential customer options.

Contact Climate Friendly: On (02) 9281 0358, sales@climatefriendly.com or visit www.climatefriendly.com

9.2 Product Summary

Climate Friendly's Climate Neutral Power was not reported on prior to January 2005 and consequently, trend data is not available.

Customer Numbers were 13 as of December 2005, with seven domestic customers and six commercial customers.

GreenPower Sales were 126 MWh for the 2005 settlement period.

GreenPower Purchases were 120 for the 2005 settlement period. The shortfall of six GreenPower Rights has been carried forward into the 2006 settlement period and will be included in the scope of the 2006 audit.

GreenPower Events powered by Climate Friendly totalled one, with 0.4 MWh of GreenPower allocated through this event.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 9.1, 9.2 and 9.3.

Table 9.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	0	0	0	7	N/A
Commercial	0	0	0	6	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	0	0	0	120	**120**
Total	**0**	**0**	**0**	**120**	**120**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	0	0	0	126	**126**
Total	**0**	**0**	**0**	**126**	**126**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 9.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Canunda Wind Farm	N	W	Tantanoola, SA	✓
Codrington Wind Farm	N	W	Codrington, VIC	✓

Table 9.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	100	20	0	0	**120**
Total GreenPower Sales	106	20	0	0	**126**
Proportion of GreenPower Sales	**84%**	**16%**	**0%**	**0%**	

9.3 Audit Verification

URS independent audit of Climate Friendly confirms that its GreenPower Product, ***Climate Neutral Power***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

10.1 Product Description

Availability: Residential and business customers in NSW and Victoria and contestable business customers in Queensland, ACT and South Australia.

Residential Customer Options: Select one of three options: *liteGREEN, livingGREEN* or *pureGREEN* – an amount approximately equal to 20, 50 or 100 per cent of electricity consumption will be sourced from GreenPower approved sources.

Commercial Customer Options: Choose to purchase anywhere between 2.5% and 100% energy from GreenPower approved renewable sources.

Contact Country Energy: On 13 23 56, or visit www.countryenergy.com.au.

10.2 Product Summary

Customer Numbers have decreased from 3,579 as of December 2004 to 2,676 as of December 2005, with 1,861 domestic and 815 commercial customers.

GreenPower Sales have increased from 35,163 MWh for the 2004 settlement period to 36,077 MWh in 2005. GreenPower sales to residential customers were 4,250 MWh and sales to commercial customers were 31,827 MWh.

GreenPower Purchases have increased from 131,722 MWh for the 2004 settlement period to 147,535 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (27,015 MWh), solar (120 MWh), hydro (30,622 MWh) and biomass generators (89,779 MWh).

GreenPower Events powered by Country Energy totalled four, with 14.72 MWh of GreenPower allocated through these events.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 10.1, 10.2 and 10.3.

Table 10.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	2,110	2,015	1,928	1,861	N/A
Commercial	769	811	807	815	N/A
Purchases (MWh)					
Existing GreenPower	11,138	1,287	817	17,919	**31,160**
New GreenPower	23,615	25,946	33,044	33,770	**116,374**
Total	**34,753**	**27,233**	**33,860**	**51,689**	**147,535**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	9,620	8,713	8,154	9,590	**36,077**
Total	**9,620**	**8,713**	**8,154**	**9,590**	**36,077**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 10.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Harwood Sugar Mill	E	B	Harwood, NSW	✓
Copeton Reservoir	E	H	Inverell-Gwydir R., NSW	✓
Burrendong Dam	E	H	Wellington-Macquarie R., NSW	✓
Wyangala Dam	E	H	Cowra-Lachlan R., NSW	✓
Somerset Dam	E	H	Brisbane, QLD	✓
Broadwater Sugar Export	N	B	Broadwater, NSW	✓
Condong Sugar Mill	N	B	Condong, NSW	✓
Camellia Biogas Power Station	N	B	Parramatta, NSW	✓
Rochdale Renewable Energy Facility	N	B	Rochdale, QLD	✓
Whitwood Road Renewable Energy Facility	N	B	Ipswich, QLD	✓
Chichester Dam	N	H	Chichester, NSW	✓
Dungog WTP	N	H	Dungog, NSW	✓
Queanbeyan Solar Farm	N	S	Queanbeyan, NSW	✓
Western Plains Zoo Solar Farm	N	S	Dubbo, NSW	✓
Blayney Wind Farm	N	W	Blayney, NSW	✓
Crookwell Wind Farm	N	W	Crookwell, NSW	✓
Lucas Heights 2 WMC	N	B	Lucas Heights, NSW	✓

1. E = “Existing” GreenPower Generator, N = “New” GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 10.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	27,015	120	30,622	89,779	**147,535**
Total GreenPower Sales	27,015	120	0	8,943	**36,077**
Proportion of GreenPower Sales	**75%**	**0.3%**	**0%**	**24.7%**	

10.3 Audit Verification

URS independent audit of Country Energy confirms that its GreenPower Product, ***countrygreen***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*, with the exception of some elements of the marketing criteria.

11.1 Product Description

Availability: Residential and commercial customers in NSW, ACT, Victoria, Queensland and South Australia.

Residential Customer Options: 12.5% GreenPower accredited product offered at $1.50 extra per week, based on an average annual household electricity consumption of 6,950kWh.

Commercial Customer Options: Tailored GreenPower solution, including the amount and type of renewable energy required to meet environmental targets.

Contact Country Energy: On 13 23 56, or visit www.countryenergy.com.au.

11.2 Product Summary

Customer Numbers have increased from 2,036 as of December 2004 to 8,640 as of December 2005, with 8,346 domestic and 294 commercial customers.

GreenPower Sales have increased from 24 MWh during the 2004 settlement period to 4,187 MWh in 2005. GreenPower sales to residential customers were 4,063 MWh and sales to commercial customers were 124 MWh.

GreenPower Purchases have increased from 24 MWh for the 2004 settlement period to 194,867 MWh for the 2005 settlement period. All GreenPower purchases for the 2005 settlement period were sourced from wind generators.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 11.1, 11.2 and 11.3.

Table 11.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	4,145	6,119	7,540	8,346	**N/A**
Commercial	98	184	257	294	**N/A**
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	39,950	40,736	58,515	55,666	**194,866**
Total	**39,950**	**40,736**	**58,515**	**55,666**	**194,866**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	412	870	1,311	1,595	**4,187**
Total	**412**	**870**	**1,311**	**1,595**	**4,187**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 11.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Lake Bonney 1 Wind Farm	N	W	Millicent, SA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 11.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	194,867	0	0	0	**194,867**
Total GreenPower Sales	4,187	0	0	0	**4,187**
Proportion of GreenPower Sales	**100%**	**0%**	**0%**	**0%**	

11.3 Audit Verification

URS independent audit of Country Energy confirms that its GreenPower Product, ***countrygreen energy***, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*, with the exception of some elements of the marketing criteria.

12.1 Product Description

Availability: Energex's residential and business customers, as well as contestable business customers Australia wide.

Residential Customer Options: Choose a minimum kWh amount, ranging from 330 kWh to 1990 kWh per bill. For each contribution level, Energex will purchase a minimum amount of GreenPower on behalf of the customer.

Business Customer Options: Choose a percentage of electricity consumption or a fixed volume of green energy (minimum level of 2.5% of electricity usage).

Contact Energex: On 13 12 53 or visit www.energex.com.au.

12.2 Product Summary

Customer Numbers have increased from 29,607 as of December 2004 to 36,798 as of December 2005, with 36,368 domestic and 430 commercial customers.

GreenPower Sales have decreased from 131,709 MWh for the 2004 settlement period to 118,021 MWh in 2005. GreenPower sales to residential customers were 53,881 MWh and sales to commercial customers were 64,140 MWh.

GreenPower Purchases have decreased from 155,661 MWh for the 2004 settlement period to 136,139 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (11,819 MWh), solar (433 MWh), hydro (4,343 MWh) and biomass (119,543 MWh).

GreenPower Events powered by Energex totalled two, with 5 MWh of GreenPower allocated through these events.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 12.1, 12.2 and 12.3.

Table 12.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	30,743	32,728	34,644	36,368	N/A
Commercial	464	454	430	430	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	29,927	26,452	34,312	45,448	**136,139**
Total	**29,927**	**26,452**	**34,312**	**45,448**	**136,139**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	37,790	26,452	24,224	29,556	**118,021**
Total	**37,790**	**26,452**	**24,224**	**29,556**	**118,021**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 12.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Browns Plains Landfill	N	B	Browns Plains, QLD	✓
Rocky Point Sugar Mill Upgrade	N	B	Woongoolba, QLD	✓
Lander's Shute Pipeline	N	H	Lander's Shute, QLD	✓
Pindari HEPS	N	H	Ashford, NSW	✓
Gecko House Solar Array	N	S	Currumbin, QLD	✓
Solar Domestic Customers	N	S	Various	✓
Windy Hill Wind Farm Stage I	N	W	Ravenshoe, QLD	✓
Landfill Management Services	N	B	South Cardup, WA	✓
Edward Street Solar Project (FDP)	N	S	Brisbane City, QLD	✓
Caboolture Region Environmental Education Centre (CREEC)	N	S	Caboolture, QLD	✓
Codrington Wind Farm	N	W	Port Fairy, VIC	✓
Kelvin Road Landfill Gas Power Generation Facility	N	B	Gosnells, WA	✓
Atlas Renewable Energy Facility	N	B	Noranda, WA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 12.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	11,819	433	4,344	119,543	**136,139**
Total GreenPower Sales	6,633	433	4,344	106,611	**118,021**
Proportion of GreenPower Sales	**6%**	**0.4%**	**3.6%**	**90%**	

12.3 Audit Verification

URS independent audit of Energex confirms that its GreenPower Product, **earth's**choice, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A.*

13.1 Product Description

Availability: Energy Australia's residential and small business customers in NSW and contestable commercial and industrial customers in NSW, Victoria and South Australia.

Residential Customer Options: Choose a percentage of total energy consumption purchased from GreenPower approved renewable energy sources. Residential and small business customers may purchase 50% or 100% of electricity from approved renewable sources.

Commercial Customer Options: Contestable commercial and industrial customers may select any percentage of energy consumption from GreenPower approved renewable energy sources.

Contact Energy Australia: On 13 15 35, or visit www.energy.com.au.

13.2 Product Summary

Customer Numbers have decreased from 9,777 as of December 2004 to 7,086 as of December 2005, with 5,372 domestic and 1,714 commercial customers.

GreenPower Sales have increased from 114,488 MWh for the 2004 settlement period to 131,269 MWh in 2005. GreenPower sales to residential customers were 21,805 MWh and sales to commercial customers were 109,464 MWh.

GreenPower Purchases have increased from 114,489 MWh for the 2004 settlement period to 532,817 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (176,190 MWh), solar (670 MWh), hydro (160,773 MWh) and biomass generators (195,183 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 13.1, 13.2 and 13.3.

Table 13.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	7,342	7,052	5,721	5,372	N/A
Commercial	3,136	3,160	1,804	1,714	N/A
Purchases (MWh)					
Existing GreenPower	13,602	11,618	9,736	144,063	**179,019**
New GreenPower	77,345	60,776	92,422	123,254	**353,798**
Total	**90,947**	**72,394**	**102,158**	**267,317**	**532,817**
Sales (MWh)					
Existing GreenPower	3,395	4,028	4,165	3,843	**15,431**
New GreenPower	25,485	30,238	31,268	28,848	**115,839**
Total	**28,880**	**34,266**	**35,433**	**32,691**	**131,269**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**88%**

Table 13.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Belrose WMC	E	B	Belrose, NSW	✓
Lucas Heights I WMC	E	B	Lucas Heights, NSW	✓
Glenbawn Dam	E	H	Scone-Hunter R., NSW	✓
National Innovation Centre	E	S	Redfern, NSW	✓
Lucas Heights I WMC Expansion	N	B	Lucas Heights, NSW	✓
Lucas Heights II WMC	N	B	Lucas Heights, NSW	✓
Wivenhoe Mini Hydro	N	H	Ipswich, QLD	✓
Foreshore Park Solar System	N	S	Newcastle, NSW	✓
Homebush Business Park Solar (John Cox Centre)	N	S	Homebush, NSW	✓
Singleton Solar Farm (Stage I)	N	S	Singleton, NSW	✓
Singleton Solar Farm (Stage II)	N	S	Singleton, NSW	✓
Sydney Superdome Solar System	N	S	Homebush, NSW	✓
Koorangang Wind Turbine	N	W	Koorangang Island, NSW	✓
Eildon Power Station	E	H	Eildon-Goulburn R., NSW	✓
Dartmouth PS	E	H	Dartmouth, VIC	✓
Rubicon PS	E	H	Eildon, VIC	✓
Cairn Curran	E	H	Newstead, VIC	✓
Invicta Sugar Mill	N	B	Giru, QLD	✓
Wyndham LFG	N	B	Wyndham, VIC	✓
Mornington PS	N	B	Mornington, QLD	✓
Stapylton Green Waste to Energy Facility (Stage 1)	N	B	Stapylton, QLD	✓
Stapylton Green Waste to Energy Facility (Stage 2)	N	B	Stapylton, QLD	✓
Bluff Point Wind Farm	N	W	Woolnorth, TAS	✓
Suntown LFG	N	B	Suntown, QLD	✓
Molendinar LFG	N	B	Molendinar, QLD	✓
Reedy Creek LFG	N	B	Reedy Creek, QLD	✓
South Johnstone Mill	N	B	South Johnstone, QLD	✓
Tully Mill	N	B	Tully, QLD	✓
Proserpine Mill	N	B	Proserpine, QLD	✓

1. E = “Existing” GreenPower Generator, N = “New” GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 13.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	176,190	671	160,773	195,183	**532,817**
Total GreenPower Sales	603	671	27,163	102,833	**131,269**
Proportion of GreenPower Sales	**0.5%**	**0.5%**	**20.7%**	**78.3%**	

13.3 Audit Verification

URS independent audit of Energy Australia confirms that its GreenPower Product, PureEnergy, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

The EA-IPR Retail Partnership, trading as Energy Australia, is a 50:50 joint venture between Energy Australia and International Power. EA-IPR Retail Partnership launched GreenSaver on 5 September. GreenSaver is a 12.5% GreenPower accredited product.

14.1 Product Description

Availability: Residential customers in Victoria and South Australia.

Contact Energy Australia: On 13 15 35, or visit www.energy.com.au.

14.2 Product Summary

EA-IPR Retail Partnership GreenSaver was not reported on prior to September 2005 and consequently trend data is not available.

Customer Numbers were 9,628 as of December 2005.

GreenPower Sales were 730 MWh for the 2005 settlement period.

GreenPower Purchases were 6,594 MWh for the 2005 settlement period.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 14.1, 14.2 and 14.3.

Table 14.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	N/A	N/A	47	9,628	9,628
Commercial	N/A	N/A	N/A	N/A	N/A
Purchases (MWh)					
Existing GreenPower	N/A	N/A	0	6,000	**6,000**
New GreenPower	N/A	N/A	0	594	**594**
Total	**N/A**	**N/A**	**0**	**6,594**	**6,594**
Sales (MWh)					
Existing GreenPower	N/A	N/A	0	146	**146**
New GreenPower	N/A	N/A	0	584	**584**
Total	**N/A**	**N/A**	**0**	**730**	**730**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**80%**

Table 14.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Invicta Sugar Mill	N	B	Giru, QLD	✓
Invicta Sugar Mill	E	B	Giru, QLD	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 14.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	0	0	0	6,594	**6,594**
Total GreenPower Sales	0	0	0	730	**730**
Proportion of GreenPower Sales	**0**	**0**	**0**	**100**	

14.3 Audit Verification

URS independent audit of EA-IPR Retail Partnership confirms that its GreenPower Product, GreenSaver, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

EA-IPR Retail Partnership Greensaver Premium

The EA-IPR Retail Partnership, trading as Energy Australia, is a 50:50 joint venture between Energy Australia and International Power. EA-IPR Retail Partnership launched GreenSaver Premium on 5 September. GreenSaver is a 100% GreenPower accredited product.

15.1 Product Description

Availability: Residential customers in Victoria and South Australia.

Contact Energy Australia: On 13 15 35, or visit www.energy.com.au.

15.2 Product Summary

EA-IPR Retail Partnership GreenSaver was not reported on prior to September 2005 and consequently trend data is not available.

Customer Numbers were 6 as of December 2005.

GreenPower Sales were 4 MWh for the 2005 settlement period.

GreenPower Purchases were 66 MWh for the 2005 settlement period.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 15.1, 15.2 and 15.3.

Table 15.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	N/A	N/A	0	6	6
Commercial	N/A	N/A	N/A	N/A	N/A
Purchases (MWh)					
Existing GreenPower	N/A	N/A	0	0	**0**
New GreenPower	N/A	N/A	0	66	**66**
Total	**N/A**	**N/A**	**0**	**66**	**66**
Sales (MWh)					
Existing GreenPower	N/A	N/A	0	0	**0**
New GreenPower	N/A	N/A	0	4	**4**
Total	**N/A**	**N/A**	**0**	**4**	**4**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 15.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Invicta Sugar Mill	N	B	Giru, QLD	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 15.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	0	0	0	66	**66**
Total GreenPower Sales	0	0	0	4	**4**
Proportion of GreenPower Sales	**0%**	**0%**	**0%**	**100%**	100%

15.3 Audit Verification

URS independent audit of EA-IPR Retail Partnership confirms that its GreenPower Product, GreenSaver Premium, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

Ergon Energy - Clean Energy from Ergon Energy

16.1 Product Description

Availability: Residential customers within Ergon Energy's franchise area of regional Queensland and Ergon Energy's contestable business customers in Queensland, NSW, the ACT and Victoria.

Residential Customer Options: Choose the level of support, which ranges from $10 per bill to $120 per bill. For each contribution level, Ergon will purchase a set amount of energy from GreenPower approved sources on behalf of the customer.

Commercial Customer Options: Choose to allocate anywhere between 2.5% to 100% of electricity consumption from GreenPower approved sources.

Contact Ergon Energy: On 13 10 46, or visit www.ergon.com.au.

16.2 Product Summary

Customer Numbers have increased from 22,574 as of December 2004 to 28,812 as of December 2005, with 28,238 domestic and 574 commercial customers.

GreenPower Sales have increased from 11,271 MWh for the 2004 settlement period to 15,182 MWh in 2005. GreenPower sales to residential customers were 11,145 MWh and sales to commercial customers were 4,035 MWh.

GreenPower Purchases have increased from 11,271 MWh for the 2004 settlement period to 15,192 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (6,390 MWh), hydro (600 MWh) and biomass generators (8,202 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 16.1, 16.2 and 16.3.

Ergon Energy - Clean Energy from Ergon Energy

Table 16.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	24,808	26,112	37,583	28,238	N/A
Commercial	311	369	415	574	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	3,394	4,166	3,768	3,864	**15,192**
Total	**3,394**	**4,166**	**3,768**	**3,864**	**15,192**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	3,383	4,166	3,768	3,864	**15,182**
Total	**3,383**	**4,166**	**3,768**	**3,864**	**15,182**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 16.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Tableland Sugar Mill	N	B	Arriga, QLD	✓
Brooklyn Landfill Power Station	N	B	Brooklyn, VIC	✓
South Johnstone Sugar Mill Upgrade	N	B	Gordonvale, QLD	✓
Tinaroo Hydro	N	H	Tinaroo, QLD	✓
Windy Hill Wind Farm Stage I	N	W	Ravenshoe, QLD	✓
Eastern Creek Landfill Power Station	N	B	Eastern Creek, NSW	✓
Tully Sugar Mill	N	B	Tully, QLD	✓
Proserpine Sugar Mill	N	B	Proserpine, QLD	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 16.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	6,390	0	600	8,202	**15,192**
Total GreenPower Sales	6,390	0	600	8,192	**15,182**
Proportion of GreenPower Sales	**42%**	**0**	**4%**	**54%**	

16.3 Audit Verification

URS independent audit of Ergon Energy confirms that its GreenPower Product, 'Clean Energy from Ergon Energy', is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*, with the exception of some elements of the marketing criteria.

17.1 Product Description

Availability: Offered exclusively to contestable business customers in Queensland, NSW, the ACT and Victoria. 'Clean Energy Plus from Ergon Energy' is the 100% accredited GreenPower product offered by Ergon Energy.

Commercial Customer options: Choose to allocate anywhere between 2.5% to 100% of electricity consumption from GreenPower approved sources.

Contact Ergon Energy: On 13 10 46, or visit www.ergon.com.au.

17.2 Product Summary

Customer Numbers increased from one commercial customer as of December 2004 to three commercial customers as of December 2005.

GreenPower Sales have increased from 1,822 MWh for the 2004 settlement period to 2,372 MWh in 2005.

GreenPower Purchases have increased from 1,822 MWh for the 2004 settlement period to 2,372 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from hydro (1,593 MWh) and biomass generators (779 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 17.1, 17.2 and 17.3.

Table 17.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	0	0	0	0	N/A
Commercial	1	2	2	3	N/A
Purchases (MWh)					
Existing GreenPower	86	147	89	153	**475**
New GreenPower	339	593	353	612	**1,897**
Total	**425**	**740**	**442**	**765**	**2,372**
Sales (MWh)					
Existing GreenPower	86	147	89	153	**475**
New GreenPower	339	593	353	612	**1,897**
Total	**425**	**740**	**442**	**765**	**2,372**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**80%**

Table 17.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Kalamia Sugar Mill	E	B	Kalamia, QLD	✓
Invicta Sugar Mill (existing)	E	B	Giru, QLD	✓
Tinaroo Hydro	N	H	Tinaroo, QLD	✓
Koombooloomba Hydro	N	H	Cairns, QLD	✓
Eastern Creek Landfill Power Station	N	B	Eastern Creek, NSW	✓
Isis Sugar Mill	E	B	Childers, QLD	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 17.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	0	0	1,593	779	**2,372**
Total GreenPower Sales	0	0	1,593	779	**2,372**
Proportion of GreenPower Sales	**0**	**0**	**67%**	**33%**	

17.3 Audit Verification

URS independent audit of Ergon Energy confirms that its GreenPower Product, *"Clean Energy Plus from Ergon Energy",* is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*, with the exception of some elements of the marketing criteria.

18.1 Product Description

Availability: NSW residential customers and small retail business customers with basic meters. Note that Integral Energy is currently unable to offer this product to customers located in the Country Energy franchise area.

Residential Customer Options: Choose to purchase 20%, 50% or 100% of electricity (excluding off peak) matched with GreenPower from the Hampton Wind Park near Lithgow.

Contact Integral Energy: On 131 002 or visit www.integral.com.au.

18.2 Product Summary

Customer Numbers have increased from 110 (all domestic) as of December 2004 to 148 as of December 2005.

GreenPower Sales have increased from 293 MWh for the 2004 settlement period to 326 MWh in 2005.

GreenPower Purchases have increased from 293 MWh for the 2004, 12 month settlement period to 326 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced entirely from Hampton Wind.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 18.1, 18.2 and 18.3.

Table 18.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	120	129	139	148	N/A
Commercial	0	0	0	0	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	52	68	114	92	**326**
Total	**52**	**68**	**114**	**92**	**326**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	52	68	114	92	**326**
Total	**52**	**68**	**114**	**92**	**326**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 18.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Hampton Wind Park	N	W	Hampton, NSW	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 18.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	326	0	0	0	326
Total GreenPower Sales	326	0	0	0	326
Proportion of GreenPower Sales	**100%**	**0%**	**0%**	**0%**	

18.3 Audit Verification

URS independent audit of Integral Energy confirms that its GreenPower Product, Hampton Park Wind, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

19.1 Product Description

Availability: NSW residential customers and small retail business customers. Integral Energy is currently unable to offer this product to customers located in the Country Energy franchise area.

Residential Customer Options: Choose to purchase 20%, 50% or 100% of electricity (excluding off peak) matched with GreenPower from the Wyuna Water hydro-electric generator.

Contact Integral Energy: On 131 002 or visit www.integral.com.au.

19.2 Product Summary

Customer Numbers have decreased from 944 as of December 2004 to 829 as of December 2005, with 779 domestic and 50 commercial customers.

GreenPower Sales have decreased from 2,858 MWh for the 2004 settlement period to 2,776 MWh in 2005. GreenPower sales to residential customers were 1,550 MWh and sales to commercial customers were 1,226 MWh.

GreenPower Purchases have decreased from 2,858 MWh for the 2004 settlement period to 2,776 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced entirely from Wyuna Water.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 19.1, 19.2 and 19.3.

Table 19.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	874	823	800	779	N/A
Commercial	49	46	54	50	N/A
Purchases (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	781	715	674	606	**2,776**
Total	**781**	**715**	**674**	**606**	**2,776**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	781	715	674	606	**2,776**
Total	**781**	**715**	**674**	**606**	**2,776**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 19.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Wyuna Water (Kembla Grange)	N	H	Kembla Grange, NSW	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 19.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	0	0	2,776	0	2,776
Total GreenPower Sales	0	0	2,776	0	2,776
Proportion of GreenPower Sales	**0%**	**0%**	**100%**	**0%**	

19.3 Audit Verification

URS independent audit of Integral Energy confirms that its GreenPower Product, Wyuna Water, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

20.1 Product Description

Availability: Large commercial consumers in NSW.

Commercial Customer Options: Source a portion of electricity consumption from a range of GreenPower approved sources (currently solar, wind and hydro).

Contact Integral Energy: On 131 002 or visit www.integral.com.au.

20.2 Product Summary

Customer Numbers have increased from two commercial customers as of December 2004 to 530 as of December 2005.

GreenPower Sales have increased from 2,634 MWh for the 2004 settlement period to 20,543 MWh in 2005.

GreenPower Purchases have increased from 19,329 MWh for the 2004 settlement period to 31,661 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (16,351 MWh), solar (101 MWh), hydro generators (14,209 MWh) and biomass generators (1,000 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 20.1, 20.2 and 20.3.

Table 20.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	0	0	0	0	N/A
Commercial	110	148	318	530	N/A
Purchases (MWh)					
Existing GreenPower	1.4	1,001	1.4	1.4	**1,005**
New GreenPower	3,959	18,148	4,330	4,218	**30,655**
Total	**3,960**	**19,150**	**4,331**	**4,220**	**31,661**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	695	653	7,659	11,537	**20,543**
Total	**695**	**653**	**7,659**	**11,537**	**20,543**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 20.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Wyuna Water (Kembla Grange)	N	H	Kembla Grange, NSW	✓
Various Solar PV Systems	N	S	Various locations, NSW	✓
Hampton Wind Park	N	W	Hampton, NSW	✓
Challicum Hills Wind Farm	N	W	Ararat, VIC	✓
Lucas Heights WMC	E	B	Lucas Heights, NSW	✓
International Regatta Centre	E	S	Penrith, NSW	✓
Interlife Centre	E	S	Wentworth Falls, NSW	✓
AV Jennings Solar System	N	S	Kellyville, NSW	✓
Fitzroy Falls Centre Solar System	N	S	Fitzroy Falls, NSW	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 20.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	16,351	101.4	14,209	1,000	**31,661**
Total GreenPower Sales	5,334	0	14,209	1,000	**20,543**
Proportion of GreenPower Sales	**26%**	**0%**	**70%**	**4%**	

20.3 Audit Verification

URS independent audit of Integral Energy confirms that its GreenPower Product, Business GreenPower, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

21.1 Product Description

Availability: Residential Origin Energy customers in Victoria, NSW and South Australia and commercial customers in any competitive state in Australia.

Residential Customer Options: Choose to purchase the following GreenPower options: 100% - GreenEarth Solar or GreenEarth Wind; 62.5% - GreenEarth Extra; 25% - GreenEarth (Victoria and South Australia) or 12.5% - GreenEarth (NSW). The GreenPower accredited portion of the blended products is sourced from GreenPower approved solar and wind generation.

Commercial Customer Options: Negotiate a percentage of GreenPower to suit individual needs.

Contact Origin Energy: On 13 24 63 or visit www.originenergy.com.au

21.2 Product Summary

Customer Numbers have increased from 38,845 as of December 2004 to 68,868 as of December 2005, with 68,160 domestic and 708 commercial customers.

GreenPower Sales have increased from 56,158 MWh for the 2004 settlement period to 98,419 MWh in 2005. GreenPower sales to residential customers were 69,090 MWh and sales to commercial customers were 29,329 MWh.

GreenPower Purchases have increased from 336,752 MWh for the 2004 settlement period to 480,524 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (224,027 MWh), solar (607 MWh), hydro generators (243,902 MWh) and biomass generators (11,988 MWh).

GreenPower Events powered by Origin Energy totalled 12, with seven GreenPower customers serviced and 28 MWh of GreenPower allocated through these events.

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 21.1, 21.2 and 21.3.

Table 21.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	42,558	48,375	59,274	68,160	N/A
Commercial	606	635	654	708	N/A
Purchases (MWh)					
Existing GreenPower	65,220	8,070	15,336	158,534	**247,160**
New GreenPower	52,814	60,994	66,892	52,663	**233,363**
Total	**118,034**	**69,064**	**82,228**	**211,197**	**480,524**
Sales (MWh)					
Existing GreenPower	2,889	3,600	6,037	4,635	**17,161**
New GreenPower	14,336	17,311	27,478	22,132	**81,258**
Total	**17,225**	**20,912**	**33,515**	**26,767**	**98,419**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**82%**

Table 21.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Yarrawonga Weir	E	H	Yarrawonga-Murray R, VIC	✓
Queen Victoria Market PV Installation	N	S	Melbourne, VIC	✓
Codrington Wind Farm	N	W	Codrington, VIC	✓
Challicum Hills Wind Farm	N	W	Ararat, VIC	✓
Windy Hill Wind Farm	N	W	Ravenshoe, QLD	✓
Toora Wind Farm	N	W	Toora, VIC	✓
Corio Landfill	E	B	Corio, VIC	✓
Malabar Treatment Facility	N	B	Malabar, NSW	✓
Various Solar PV Systems	N	S	Various	✓
Southern Hydro	E	H	Various	✓
Stanwell Hydro	E	H	Various	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 21.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	224,027	607	243,902	11,988	**480,524**
Total GreenPower Sales	71,944	584	13,902	11,988	**98,419**
Proportion of GreenPower Sales	**73.1%**	**0.6%**	**14.1%**	**12.2%**	

21.3 Audit Verification

URS independent audit of Origin Energy confirms that its GreenPower Product, GreenEarth, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

22.1 Product Description

Availability: This product is not offered to new customers, however existing EcoSaver customers continue to be serviced.

Contact Origin Energy: On 13 24 63 or visit www.originenergy.com.au.

22.2 Product Summary

Customer Numbers decreased from 7,021 residential customers as of December 2004 to 4,806 residential customers as of December 2005.

GreenPower Sales have decreased from 16,455 MWh for the 2004 settlement period to 10,242 MWh in 2005.

GreenPower Purchases have decreased from 21,824 MWh for the 2004 settlement period to 10,242 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (632 MWh), hydro (7,562 MWh) and biomass generators (2,048 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 22.1, 22.2 and 22.3.

Table 22.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	5,995	5,487	5,147	4,806	N/A
Commercial	0	0	0	0	N/A
Purchases (MWh)					
Existing GreenPower	510	534	552	452	**2,048**
New GreenPower	2,040	2,135	2,209	1,810	**8194**
Total	**2,550**	**2,669**	**2,761**	**2,262**	**10,242**
Sales (MWh)					
Existing GreenPower	510	534	552	452	**2,048**
New GreenPower	2,040	2,135	2,209	1,810	**8,194**
Total	**2,550**	**2,669**	**2,761**	**2,262**	**10,242**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**80%**

Table 22.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Corio Landfill	E	B	Corio, VIC	✓
Parangana Mini Hydro	N	H	Mersey Valley, TAS	✓
Toora Wind Farm	N	W	Toora, VIC	✓
Terminal Storage Mini Hydro	N	H	Tea Tree Gully, SA	✓
Nieterana (Butlers Gorge) Mini Hydro	N	H	Derwent River, TAS	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 22.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	632	0	7,562	2,048	**10,242**
Total GreenPower Sales	632	0	7,562	2,048	**10,242**
Proportion of GreenPower Sales	**6%**	**0%**	**74%**	**20%**	

22.3 Audit Verification

URS independent audit of Origin Energy confirms that its GreenPower Product, EcoSaver, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

23.1 Product Description

Availability: This product is not offered to new customers, however existing EcoPower customers continue to be serviced.

Contact Origin Energy: On 13 24 63 or visit www.originenergy.com.au.

23.2 Product Summary

Customer Numbers have increased from 665 as of December 2004 to 769 as of December 2005, with 152 domestic and 617 commercial customers.

GreenPower Sales have decreased from 16,233 MWh for the 2004 settlement period to 11,757 MWh in 2005. GreenPower sales to residential customers were 609 MWh and sales to commercial customers were 11,148 MWh.

GreenPower Purchases have decreased from 28,619 MWh for the 2004 settlement period to 11,757 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (9,405.4 MWh) and biomass generators (2,351 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 23.1, 23.2 and 23.3.

Table 23.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	207	186	168	152	N/A
Commercial	455	455	456	617	N/A
Purchases (MWh)					
Existing GreenPower	507	563	542	739	**2,351**
New GreenPower	2,029	2,252	2,169	2,956	**9,405**
Total	**2,536**	**2,815**	**2,711**	**3,695**	**11,757**
Sales (MWh)					
Existing GreenPower	507	563	542	739	**2,351**
New GreenPower	2,029	2,252	2,169	2,956	**9,405**
Total	**2,536**	**2,815**	**2,711**	**3,695**	**11,757**
"New" Proportion of GreenPower Sales – 80% Compliance Requirement					**80%**

Table 23.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Corio Landfill	E	B	Corio, VIC	✓
Toora Wind Farm	N	W	Toora, VIC	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 23.3Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	9,405	0	0	2,351	**11,757**
Total GreenPower Sales	9,405	0	0	2,351	**11,757**
Proportion of GreenPower Sales	**80%**	**0%**	**0**	**20%**	

23.3 Audit Verification

URS independent audit of Origin Energy confirms that its GreenPower Product, EcoPower, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

24.1 Product Description

Availability: Synergy's residential, business and government customers located on Synergy's South West Interconnected System.

Residential Customer Options: Choose to purchase the following GreenPower options, 25%, 50%, 75% or 100% through the NaturalPower product.

Commercial Customer Options: Choose to purchase the following GreenPower options, 5%, 10%, 25%, 50%, 75% or 100% through the NaturalPower product. Other percentages can be negotiated for large contract commercial customers.

Contact Synergy: On 13 13 53, or visit: www.synergyenergy.com.au.

24.2 Product Summary

Customer Numbers have increased from 1,004 as of December 2004 to 1,232 as of December 2005, with 1,127 domestic and 105 commercial customers.

GreenPower Sales have increased from 13,325 MWh for the 2004 settlement period to 13,962 MWh in 2005. GreenPower sales to residential customers were 3,798 MWh and sales to commercial customers were 10,164 MWh.

GreenPower Purchases have increased from 13,325 MWh for the 2004 settlement period to 13,962 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (13,936 MWh) and solar generators (26 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 25.1, 25.2 and 25.3.

Table 24.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	918	998	1,084	1,127	**N/A**
Commercial	103	102	104	105	**N/A**
Purchases (MWh)					
Existing GreenPower	8	4	6	6	**24**
New GreenPower	3,581	3,284	3,663	3,410	**13,938**
Total	**3,589**	**3,288**	**3,669**	**3,416**	**13,962**
Sales (MWh)					
Existing GreenPower	8	4	6	6	**24**
New GreenPower	3,581	3,284	3,663	3,410	**13,938**
Total	**3,589**	**3,288**	**3,669**	**3,416**	**13,962**
'New'' Proportion of GreenPower Sales – 80% Compliance Requirement					**99.8%**

Table 24.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Albany Wind Farm	N	W	Albany, WA	✓
Kalbarri PV System	E	S	Kalbarri, WA	✓
Rockingham PV System	N	S	Rockingham, WA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. H = Hydro, S = Solar, W = Wind, B = Biomass

Table 24.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	13,936	25	0	0	**13,962**
Total GreenPower Sales	13,936	25	0	0	**13,962**
Proportion of GreenPower Sales	**99.8%**	**0.2%**	**0%**	**0%**	

24.3 Audit Verification

URS independent audit of Synergy confirms that its GreenPower Product, NaturalPower, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A* with the exception of some elements of the marketing criteria.

25.1 Product Description

TRUenergy was formerly known as TXU and offered the GreenPower product Green Energy.

Availability: Residential customers in Victoria and South Australia and business customers in Victoria, South Australia and NSW.

Residential Customer Options: Choose to purchase one of three GreenPower options including TRUenergy Planet (25% GreenPower accredited), TRUenergy Planet Plus (62.5% GreenPower accredited) or TRUenergy Wind Power (100% GreenPower accredited) sourced from 100% 'new' wind energy.

Commercial Customer Options: Choose to purchase TRUenergy Wind Power (100% GreenPower accredited) sourced from 100% 'new' wind energy or TRUenergy Eco-Friendly. TXU Eco-Friendly allows commercial customers to choose from a number of GreenPower options (2.5%, 5%, 10%, 25%, 50%, 75% or 100% GreenPower) that best suits their business.

Contact TRUenergy: On 133 466 or visit www.truenergy.com.au

25.2 Product Summary

Customer Numbers increased from 5,982 as of December 2004 to 16,324 as of December 2005, with 15,905 domestic and 419 commercial customers.

GreenPower Sales have increased from 9,441 MWh for the 2004 settlement period to 18,867 MWh in 2005. GreenPower sales to residential customers were 13,362 MWh and sales to commercial customers were 5,505 MWh.

GreenPower Purchases have increased from 88,493 MWh for the 2004 settlement period to 300,583 MWh for the 2005 settlement period. GreenPower purchases for the 2005 settlement period were sourced from wind (209,396 MWh), hydro (64,313 MWh) and biomass (26,874 MWh).

Additional details on GreenPower customers, purchases, sales and generators are provided in Tables 24.1, 24.2 and 24.3.

Table 25.1 Product Summary 2005

	Mar 05	June 05	Sept 05	Dec 05	Total
Customers					
Domestic	9,005	11,043	14,790	15,905	**N/A**
Commercial	188	251	378	419	**N/A**
Purchases (MWh)					
Existing GreenPower	25,895	18,215	20,713	24,243	**89,066**
New GreenPower	4,553	42,164	84,127	80,673	**211,518**
Total	**30,447**	**60,379**	**104,840**	**104,917**	**300,583**
Sales (MWh)					
Existing GreenPower	0	0	0	0	**0**
New GreenPower	2,473	3,739	6,517	6,137	**18,867**
Total	**2,473**	**3,739**	**6,517**	**6,137**	**18,867**
'New'' Proportion of GreenPower Sales – 80% Compliance Requirement					**100%**

Table 25.2 GreenPower Generators

Name	E/N[1]	Type[2]	Location	GreenPower Approved
Berwick Landfill	E	B	Berwick, VIC	✓
Glenmaggie Weir	E	H	Sale-MacAlister R., VIC	✓
William Hovell Dam	E	H	Whitfield-King R., VIC	✓
Blue Rock Dam	E	H	Blue Rock-Tanjil R., VIC	✓
Cardinia Dam	E	H	Menzies Creek, VIC	✓
Thompson HEPS	E	H	Thompson River, VIC	✓
Eildon Power Station	E	H	Eildon-Goulburn R., VIC	✓
Berwick Landfill Upgrade	N	B	Berwick, VIC	✓
Wattle Point Wind Farm	N	W	Yorke Peninsula, SA	✓
Cathedral Rocks Wind Farm	N	W	Port Lincoln, SA	✓

1. E = "Existing" GreenPower Generator, N = "New" GreenPower Generator
2. B = Biomass, H = Hydro, S = Solar, W = Wind

Table 25.3 Purchases and Sales by Type (MWh)

	Wind	Solar	Hydro	Biomass	Sub-Total
Total GreenPower Purchased	209,396	0	64,313	26,874	**300,583**
Total GreenPower Sales	12,688	0	0	6,178	**18,867**
Proportion of GreenPower Sales	**67%**	**0%**	**0%**	**33%**	

25.3 Audit Verification

URS independent audit of TRUenergy confirms that its GreenPower Product, TRUenergy Green, is in accordance with the requirements of the *National GreenPower Accreditation Document, Version 3.1A*.

Appendix A
GreenPower Accreditation Document

National Green Power Accreditation Program

Accreditation Document

Version 3.1A

September 2004

Contents

Project Manager Contact Details:

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1. The National Green Power Accreditation Program

1.1 Introduction

The *National Green Power Accreditation Document* outlines the guidelines of the National Green Power Accreditation Program for Green Power Products and Green Power generators. It provides participating electricity retailers and generators with information about the Program, including:

- Section 1 Background and aims of the Program; interaction with sustainable energy schemes in Australia
- Section 2 Definitions for Green Power Products, Green Power generators and Green Power purchases
- Section 3 Technical Criteria for gaining and maintaining accreditation for a Green Power Product
- Section 4 Marketing Criteria for gaining and maintaining accreditation for a Green Power Product
- Section 5 Eligibility requirements for Green Power generators
- Section 6 Retailer reporting and annual audits
- Appendix A Assessment guidelines for approval of Green Power generators
- Appendix B Application for Green Power generator approval
- Appendix C Definitions of terms
- Appendix D National Green Power Accreditation Steering Group Charter

1.2 Background

In 1997, the Sustainable Energy Development Authority (SEDA) in NSW established the Green Power Accreditation Program to accredit electricity retailers' renewable energy products (N.B. SEDA's functions were incorporated into the NSW Department of Energy, Utilities & Sustainability on 1 July 2004). The program was developed in consultation with the energy industry, and various non-government organisations including the Australian Consumers Association, Greenpeace, the Australian Conservation Foundation and the World Wide Fund for Nature.

The program is now offered nationally through joint collaboration by participating jurisdictions, collectively known as the National Green Power Accreditation Steering Group (NGPASG).

Mission

Driving investment in renewable energy in Australia, with a view to decreasing greenhouse gas emissions, by increasing awareness of, and ensuring consumer confidence in, environmentally sound renewable energy products.

Aims

- To facilitate the installation of new renewable energy generators across Australia beyond mandatory renewable requirements.
- To encourage growth in consumer demand for renewable energy.
- To provide consumer choice for, and increase confidence in credible renewable energy products
- To increase consumer awareness of renewable energy and greenhouse issues.
- To decrease greenhouse gas emissions associated with electricity generation.

The Accreditation Program is an independent fitness test for Products offered by Green Power retailers. Those that meet the Accreditation Criteria earn the right to use the Green Power Product logo, providing customers assurance that their Products adhere to these requirements and that monies will be put towards the purposes expected.

Both retailers and customers benefit from promotional packages, developed by the Program's State and Commonwealth participants, which includes the use of the Green Power logos at no cost (see Section 6), and may include joint promotional events and advertising through both print and electronic media.

National Green Power Accreditation Steering Group (NGPASG)

In May 2000, the National Green Power Accreditation Steering Group (NSPASG) was officially established to oversee management of the program. This governing body is comprised of representatives from state government agencies from NSW, Victoria, Queensland, Western Australia, South Australia and the ACT.

The NSW Department of Energy, Utilities & Sustainability has been appointed as Project Manager, and administers the program on behalf of the NGPASG.

Refer to the Charter in Appendix D for further details on the role of this group, and respective responsibilities of the Project Manager and the NGPASG.

1.3 Interaction with Other Sustainable Energy Schemes in the Australian Electricity Market

The Federal Mandatory Renewable Energy Target (MRET) – April 2001

The Federal Mandatory Renewable Energy Target (MRET) was legislated under the Renewable Energy (Electricity) Act 2000 and introduced on 1 April 2001. It requires an additional purchase of 9,500GWh of renewable energy by 2010 to be shared across all electricity suppliers (and wholesale buyers). Each supplier will have to surrender a certain amount of 'Renewable Energy Certificates' (1 REC = 1 MWh) to the Office of Renewable Energy Regulator for meeting specified interim targets each year to 2010, depending on their volume of electricity sales.

The MRET and the National Green Power Accreditation Program have similar objectives - to reduce greenhouse gas emissions from the electricity generation sector and drive investment in renewable energy projects. However, the two schemes utilise very different mechanisms to deliver the same objective - MRET is a Federal mandatory requirement, while Green Power relies on voluntary participation by consumers.

In 2000, the National Green Power Accreditation Steering Group (NGPASG) co-ordinated extensive consultation with electricity retailers, generator owners, consumer groups and other stakeholders to ensure that any changes made to the Accreditation Program in relation to the interaction of Green Power and MRET had the full input of all those involved and operating in the market.

Based on support from the majority of stakeholders, the NGPASG has agreed to ensure customer contributions for Green Power will result in additional investment in new renewable energy generation and an increase in associated greenhouse reduction above targets set by MRET. In short, the renewable energy purchased to make Green Power sales will not be able to be used by energy suppliers to meet their MRET obligations.

Refer to Section 3.7 for accreditation requirements related to the interaction of Green Power and MRET.

NSW Greenhouse Gas Abatement Scheme – 1 January 2003

From 1 January 2003, NSW electricity retailers (and certain other parties) were required to meet mandatory targets for abating greenhouse gas emissions from electricity production and use. This scheme is known as the NSW Greenhouse Gas Abatement Scheme and is implemented through the *Electricity Supply Amendment (Greenhouse Gas Emission Reduction) Act 2002.*

Retailers are required to reduce emissions in line with a sector-wide greenhouse 'benchmark', by sourcing cleaner energy supply and promoting energy efficiency. The sector-wide benchmark is to reduce emissions to 5% below 1990 per capita emission levels, equivalent to 7.27 tCO_2-e per capita by 2006-07. Electricity retailers are required to meet annual reduction targets to achieve the benchmark. Targets each year will be enforced, with electricity retailers paying a penalty where they fail to meet their annual benchmarks. It is expected that the target will be maintained at that level until 2012 or until reviewed.

Under this scheme, Green Power retailers are not able to count sales and associated greenhouse gas reductions made through their Green Power Products towards meeting their compliance targets.

For more information on the scheme, visit www.greenhousegas.nsw.gov.au, or contact the NSW Industry Pricing and Regulatory Tribunal (IPART) which is responsible for administering the scheme.

2. Green Power Products, Generators and Acquisitions

This section defines Green Power Products and Green Power generators, in addition to requirements related to the use of Green Power generators. Eligibility criteria are outlined in Section 5. Further details on applying for generator approval can be found in Appendix B with related definitions provided in Appendix C.

2.1 What is a Green Power Product?

Green Power Products provide a 'green' tariff option to electricity purchasers (residential and/or commercial customers). The retailer commits to ensuring an equivalent amount of renewable energy is produced from Green Power approved electricity generators to the amount of Green Power energy requested (purchased) by the customer.

2.1.1 Process of Product Accreditation

Any retailer may apply to join the Accreditation Program. Retailers should note that individual Green Power Products, rather than retailers, are accredited. A retailer may choose to offer one or several Green Power Products. Each Green Power Product requires a separate application, which includes details on administration, customers, a portfolio of 'green' generators and a Product Development Plan. To offer Green Power Products, retailers must of course also meet any local jurisdictional licensing requirements.

The application process for Green Power accreditation involves the following steps:

1. Request from the Project Manager the necessary Green Power documentation and forms, including the logo guidelines and logo license application forms (see 'Use of Green Power Logos' in Section 4).
2. Forward the completed application form and all necessary attachments to the Project Manager, allowing at least three weeks for initial assessment.
3. The Project Manager assesses the application for accreditation. Where the application does not meet the criteria of the National Green Power Accreditation Program, or where insufficient details are provided, retailers are advised accordingly and amendments suggested.
4. If the application meets all criteria, the retailer will be required to sign a contract with the Project Manager that specifies the undertakings of both parties. Execution of this contract entitles the retailer to use the Green Power Logos and all other accreditation materials (promotional and reporting) available for the Product in question.
5. Once the Green Power contract has been executed, the Project Manager writes a letter to the retailer officially accrediting the Green Power Product.

When offering electricity contracts and tariffs, retailers may wish to offer a combination of 'green' electricity with non-green electricity. Some customers will only wish to purchase a portion of their energy or elect a block tariff option associated with only a certain amount of energy from Green Power. Allowance for this has been made in the development of this Program, whereby the 'green' component of a blend can be accredited.

On an annual basis, an independent auditor performs a technical audit of each retailer to ensure continual compliance with the Accreditation criteria.

2.1.2 Breaches and Withdrawal of Accreditation

The Project Manager, after agreement from the NGPASG, may withdraw accreditation from a Green Power Product that has breached, or failed to comply with, the Accreditation Criteria (Section 3).

The Project Manager will advise the retailer of any apparent breach of the Accreditation Criteria by way of a "show cause" notice of the apparent breach. Where the retailer does not rectify the breach or provide evidence to the contrary within the required time period, the Project Manager will put the retailer on probation and advise the NGPASG accordingly. The retailer will be given a set period during which to rectify the breach of accreditation, and where the breach is not rectified during the time period the Project Manager will advise the NGPASG accordingly, and accreditation of the Product will be withdrawn subject to NGPASG agreement. Details of any breaches, notices and withdrawal of accreditation will be listed in the annual Green Power Audit.

If accreditation of a Product is withdrawn, the retailer will be required to cease promotion of the Green Power Product and notify their customers, as agreed under contract.

In the event of a delay or failure to comply with the accreditation criteria due to Force Majeure circumstances (Appendix C), the retailer must provide the Project Manager with sufficient details of the issue. Allowable concessions may then be considered by the Project Manager in consultation with the NGPASG. If the delay or failure to comply exceeds a 30-day period (or such timeframe as agreed to by Project Manager), accreditation may be withdrawn.

2.1.3 Changes to Accreditation Program

The NGPASG reserves the right to review and amend the operation and conditions of the National Green Power Accreditation Program and the Accreditation Document, whether during the term of any period of accreditation, or in respect of any proposed renewal of accreditation. The Project Manager will notify the Green Power retailer of any proposed amendments to the operation and conditions of the National Green Power Accreditation Program and the Accreditation Document. The Green Power retailer will be given the opportunity to provide feedback in the review process at least one month prior to such amendments taking affect. Where necessary, the Green Power retailer will be given reasonable time to adapt the existing Product to meet any requirement modifications.

2.2 Use of Green Power Generators

All electricity generators used in a Green Power Product must be approved as a Green Power generator by the Project Manager. Under the Accreditation Program, a Green Power generator is defined as 'an electricity generator that results in greenhouse gas emission reduction, net environmental benefits, and is based primarily on a renewable energy resource', and is approved by the Project Manager.

All projects are individually assessed for approval against eligibility criteria (Section 5) and other generation type-specific considerations (Appendix A), and require support from consumer and environmental stakeholders.

Please note that “primarily based on a renewable energy resource” means that more than half of the energy output must be attributed to an eligible renewable energy resource. Non-renewable resources are those based on fossil fuels.

The major renewable electricity generation types include:

- Solar Photovoltaic and Solar Thermal Electric Systems
- Wind Turbines and Wind Farms
- Hydro-Electric Power Stations
- Biomass-Fuelled Power Stations
- Geothermal Power Stations
- Wave and Tidal Power Stations.

Section 5 outlines the eligibility requirements for all Green Power generators. Refer to Appendix A for approval considerations for each generation type, and relevant environmental and consumer considerations.

2.2.1 New and Existing Green Power Generators

There are two types of Green Power generators:

- A new Green Power generator is defined as an electricity generator or increase in generator capacity[1], which was commissioned or first sold energy (whichever is earlier) after January 1, 1997 or after launch of the Green Power Product (whichever is earlier).

[1] Where it involves an increase in generator capacity (e.g. upgrades), new generation is measured as that generation which occurs over and above the existing installed capacity as a result of significant capital investment.

- An existing Green Power generator is defined as an electricity generator or increase in generator capacity which was commissioned or first sold energy (whichever is earlier) prior to January 1, 1997.

Retailers are reminded that the spirit of Green Power is to move towards new electricity generation as quickly as possible. Section 3.4 addresses accreditation criteria for use of 'new' generation in Green Power Products.

2.2.2 Approval Process

Retailers must ensure that all generators to be used in their Product have been given written Green Power approval, prior to the inclusion of these generators in the Product (as under Section 3.2). Either retailers or generator owners can request for approval. The approval application process, and associated fees, for Green Power generators is outlined in Appendix B.

The date of accreditation for a generator will be backdated to the date on which the application is received by the Project Manager

Retailers should advise the Project Manager of the addition of any new generators to the Product as soon as practicable. Retailers will be required to report regularly to the Project Manager of all new and existing generators used in the Product (see Reporting Section 6).

2.2.3 Generator Pre-approval

Power station developers or retailers may approach the Project Manager at any time to inquire about possible eligibility of generators for Green Power approval. However, while a preliminary view can be given as to the likely eligibility of a generator (subject to provision of project-specific information including site/location details, environmental and consumer considerations), the proponent will be required to submit a formal application and pay the associated fee for approval once all details are finalised, including fuel sources, technologies and environmental management (as specified in Appendix B).

2.3 Green Power Acquisitions

As of 1 July 2001, retailers were able to purchase and on-sell the Green Power value separately to the electricity produced from a Green Power generator, for use in Green Power Products. Requirements for operation are discussed below.

2.3.1 Green Power Rights

A Green Power right is defined as the right to claim any eligible Green Power generation (or a portion of generation) from a Green Power generator that has occurred during a defined period, under the Green Power program. This generation may be defined as 'new' or 'existing' (or a portion of both) according to the current definitions in this document (Section 2.2.1).

Green Power rights may be bought or sold at any time by any person or organisation, including generators, retailers and independent traders.

While the Green Power program will no longer require the purchase of the physical electricity, Green Power rights are only valid (i.e. the retailer can claim the Green Power generation) where it can be demonstrated that the electricity to which it is associated has been generated.

Green Power rights are only valid within the settlement period in which the generation to which it is associated has occurred, except where carryover to the next period has been authorised under flexibility mechanisms outlined in Section 3.6, or in the case of deemed Green Power rights from small-scale systems (see Appendix A, Embedded Generators).

2.3.2 Initial Ownership

For existing power sale contracts for the purchase of Green Power approved electricity signed prior to 1st July 2001, ownership of the Green Power rights will be automatically assigned to the party purchasing the electricity for the duration of the contract, unless the Project Manager is formally notified of a change in arrangements (for example, via renegotiation). At the end of the contract's term, or at the date of variation or renegotiation, ownership of the right will be reverted to the generator owner unless otherwise sold.

For power sale contracts signed after 1 July 2001, Green Power generator owners own the Green Power rights by default until otherwise sold.

2.3.3 Verification and Validity of Green Power Rights

When trading the Green Power rights, it is the responsibility of the party purchasing the Green Power rights to ensure that they are valid. To this end, it is advised that retailers undertake the necessary due diligence processes at time of purchase and keep a record of the arrangement. This could include the following details:

- The name of the power station or unit, and owner of the power station
- Date of trade
- Volume of energy purchase (kWh, % of output) to which Green Power rights is associated
- Fuel source
- The period (or date) of generation covered by Green Power rights
- Status or proportion as new or existing Green Power generation covered by the purchase of those rights

Retailers may also wish to obtain sufficient information to track and record the ownership history of the Green Power rights back to actual generator output (i.e. use a paper trail).

For those Green Power rights that are used in a Green Power Product, retailers and generators will need to provide reports as part of the annual audit process to verify Green Power purchases and actual generation, for checking compliance with the Accreditation Criteria (Section 3). See Section 6.2 for details on annual audit reports.

Section 3.5 outlines the validity of Green Power acquisitions for claiming generation purchases. Any claim found to be invalid by the retailer and/or generator will be rejected and it will be the retailer's responsibility to rectify the Green Power purchase.

2.4 Dispute Resolution

The Project Manager is acting on behalf of the NGPASG. As such a Green Power retailer or generator owner has the right to appeal to the NGPASG if there is a dispute over the Project Manager's decision regarding Product accreditation, generator approval, ownership of Green Power rights or other. The decision of the NGPASG is final and cannot be contested.

3. Green Power Product Technical Criteria

Sections 3 and 4 define the Technical and Marketing Accreditation Criteria for a Product to gain and maintain accreditation under the National Green Power Accreditation Program. Retailers are audited against these criteria on an annual basis, and information is made publicly available.

3.1 Technical Auditing

The Green Power retailer must provide the Project Manager with the reports and other information necessary to carry out a technical audit of all Green Power Products each year. The technical report must be audited by an independent and suitably qualified auditor (Tier 1 or Tier 2 accounting companies) appointed by the Green Power retailer.

This audited technical report and a separate audit statement prepared by the independent auditors must be provided to the Project Manager in the format specified by the Project Manager and in the timing referred to in Section 6. If a retailer fails to submit the technical report in the specified time frame without prior written consent from the Project Manager, it will be considered a breach of accreditation and accreditation may be withdrawn (as per Section 2.1.2).

An audited financial statement is no longer required. However, in cases where it is deemed necessary for auditing purposes, retailers will be required to provide financial statements upon request by the Project Manager.

3.2 Use of Green Power Generators

All electricity generators installed as a result of or used by Green Power Products must:

- be approved by the Project Manager; and
- conform to the definition and eligibility requirements of a Green Power generator as set out in Section 5.

The Project Manager, on behalf of the NGPASG, has the right to disallow particular generators that in its opinion do not fulfil the definition of a Green Power electricity generator.

3.3 Changes to the Green Power Product and Generators

Green Power retailers must alert the Project Manager in writing of any changes that are made to the operation of the Product (eg Product structure, changes in fuel sources, etc) prior to those changes taking effect.

Retailers are not required to seek approval from DEUS for inclusion of new Green Power generators, however this information must be advised in the Quarterly Report following the inclusion. It is the retailer's responsibility to ensure that those generators being used in their product do have Green Power approval (see 3.2).

3.4 Proportion of Energy from New Green Power Generators

Retailers must source a minimum level of 80% of total accredited Green Power generation sold through their Green Power Products from 'new' Green Power generation (as defined in Section 2.2.1).

3.5 Claims of Eligible Generation for Green Power Products

The Project Manager will only accept claims for Green Power generation purchases as valid, if it can be verified that:

- The retailer is the owner of the Green Power right/s to eligible Green Power generation over the settlement period. Retailers will need to verify the volume of generation (and proportion of new versus existing); and the time period of generation to which those right/s are associated;
- Where only a proportion of the generation from a Green Power generator is eligible for use in a Green Power Product (see Section 5.2.2), retailers can only claim that eligible portion for a Green Power Product, as defined under the conditions in the Green Power generator approval by the Project Manager;
- The generation to which the Green Power right/s are associated and claimed for use in the Green Power Product has actually occurred within the settlement period*; and
- A Renewable Energy Certificate is surrendered for each MWh of new generation sold through the Product (subject to conditions outlined in Section 3.7).

Any claim found to be invalid (i.e. if one or more of the above conditions are not satisfied, where applicable) will be rejected, and it will be the retailer's responsibility to rectify the Green Power purchase. See details below for balancing supply and demand.

*Actual Green Power generation output is verified through the generator reporting process as part of the Annual Audit, as outlined in Section 5.6.

3.6 Balancing Green Power Supply and Demand

Each Product must have an identified **settlement period** over which Green Power supply balances demand i.e. retailers are required to have made valid claims for Green Power purchases (as defined in Section 3.5) equivalent to the amount sold to their customers through their Green Power Product within the settlement period. For 2002/03, this settlement period shall be the 18-month period from 1 July 2002 to 31 December 2003. For subsequent years, the settlement period will follow the calendar year 1 January through to 31 December each year unless otherwise agreed with the Project Manager.

The Project Manager will allow an 8-week **reconciliation period** after the end of the settlement period. i.e. Retailers must have completed any Green Power rights transactions and RECs transferrals into their Green Power Designated Accounts within this timeframe (see Section 3.7).

The generation of any Green Power rights transactions which are finalised in this period after 31 December, must have occurred **within** the defined settlement period.

It is considered a serious breach of accreditation if demand is not met over the settlement period. In cases where there is a shortfall of valid claims for new Green Power purchases (as defined in Section 3.5) to satisfy new generation requirements for sales of a Green Power Product, the following will apply.

1. The retailer will still be required to match the Green Power demand with supply, over the settlement period, by making up the shortfall with 'existing' Green Power purchases.

2.(a) Where the retailer satisfies condition (1) above, the Project Manager will allow a leeway for a 5% shortfall on energy sales from 'new' Green Power generation within the 1-year settlement period, subject to notification by the retailer. Conditions 3 and 4 will apply.

(b) Where a retailer fails to meet condition (1) or where a shortfall exceeds the allowable leeway level (as specified in 2(a)), the retailer will be placed on probation and given 2 months to rectify the shortfall via credits/rebates to affected Green Power customers. The retailer must provide proof that this action is taken and the Project Manager will assess the evidence for compliance and audit the retailer at the expense of the retailer if necessary. Where the retailer makes no attempt to make up the new shortfall, withdrawal of accreditation may be considered by the NGPASG.

3. This shortfall must be rectified in the following 1-year settlement period by purchasing sufficient additional new Green Power (and RECs) to make up that shortfall. Evidence of this purchase must be provided within their audited statement, submitted to the Project Manager's independent auditors at the end of the following settlement period for evidence of compliance.

4. Where the 'new' generation shortfall is not made up as required in the following settlement period, it is considered a serious breach of accreditation and the NGPASG would then consider appropriate action, as described above in (2b).

Where retailers have excess purchases pertaining to 'new' Green Power generation which have not been allocated to their Green Power product for a defined settlement period, retailers will be able to carry over a 5% excess of new Green Power purchases made in 1-year settlement period to the next settlement period only, for meeting 'new' generation demand.

Please note that any shortfall and carry-over generation used by retailers will be publicly reported each year in annual audit reports.

3.7 Transfer of Renewable Energy Certificates (RECs)

Retailers are required to transfer (or 'set aside') 'eligible' RECs (see definition under 3.8) as created under MRET for each MWh of generation classified as "new" Green Power generation acquired by the retailer and sold as part of a Green Power Product within a settlement period.[2] The settlement period shall be that defined in Section 3.6.

Retailers will not be required to transfer RECs for generation classed as "existing" under the program.

In order to comply, retailers are required to set up their own Green Power **Designated Account** on the REC Registry into which RECs for Green Power compliance will be transferred. Retailers are not permitted to use these RECs to meet their obligations under MRET, and such RECs must remain in the Designated Account until otherwise notified by the Project Manager. For example, should the Commonwealth Renewable Energy (Electricity) Act 2000 be amended to allow for the surrender of RECs for any purpose, retailers may be required to surrender all RECs held in the Designated Account.

Details on set-up and operation of Designated Accounts can be obtained from the Project Manager.

The transfer of RECs must be made each year within 8 weeks of the end of the settlement period.

[2] This requirement only applies to the proportion of 'new' Green Power required by the Program (see Section 3.4).

Concession arrangements for compliance will apply in certain circumstances as outlined below and will be publicly reported in annual audit reports. Any approved concession arrangement will apply to all generation that is on sold from the facility, and will need to be reported by both the generator and any retailer purchasing from the facility as part of the Annual Audit process.

3.7.1 Concession Arrangement 1

The NGPASG will make a concession for retailers with current power purchase agreements signed prior to the announcement of the development of the MRET (pre-November 1997). Where retailers can provide independent verification to satisfy the Program Manager that there was no contemplation or specification of ownership of RECs (or other environmental instrument that may be interpreted as RECs) in that current power purchase agreement or related negotiations, the requirement to transfer RECs will be waived for the term of the current power purchase agreement, or until that agreement is renegotiated or varied, or until any separate agreement/s are signed between the retailer and the generator for the ownership of RECs (whichever is earlier).

To apply for the above concession, the retailer will be required to submit a statement from an independent auditor for each financial year in the format required by the Project Manager, as part of the audit report. This statement will need to include contract details, written confirmation that the contracts were cited and verification that contract renegotiations or any separate agreements (if any) have not altered the conditions on which any concession was granted.

Where a concession is granted, retailers will need to notify the Project Manager of any contract variations or renegotiations, or separate agreements that result in incorporation of contemplation or specification of ownership of RECs (or other environmental instrument that may be interpreted as RECs).

3.7.2 Concession Arrangement 2

The NGPASG will waive the requirement to transfer RECs for any generation (or a proportion of generation) acquired from a Green Power generator which was sold as part of a Green Power Product, that does not create RECs, where the generator:

(a) is deemed ineligible for accreditation under MRET by the Office of the Renewable Energy Regulator (ORER) (e.g. sustainably harvested plantation forests);

(b) does not register for ORER accreditation; or

(c) is registered with ORER and eligible to create RECs for a settlement period, but chooses not to.

For concessions 2(a) and 2(b), where a retailer can provide verification pertaining to either of the above two cases, in the form requested by the Project Manager on an annual basis, the concession will apply until such time as ORER accreditation changes for that generation.

The retailer must inform the Project Manager immediately if the generator subsequently obtains MRET accreditation (for all or a portion of the generation) by the ORER. The requirement to transfer RECs will apply from date of registration as verified by the ORER, or date RECs can be created as determined under the ORER accreditation (whichever is earlier).

For concession 2(c) to apply, a retailer must provide written confirmation to the Project Manager from the generator on an annual basis that no RECs will be created from that generation facility. As part of the audit process, the retailer must provide the independent auditor with either a copy of the Annual Generation Return submitted to ORER or a statutory declaration from the generator owner to confirm that no RECs have been registered for the electricity generated from the facility.

3.7.3 Concession Arrangement 3

A conditional concession may be granted for the transfer of RECs for 'new' green generation purchased from an upgraded facility and sold as part of an accredited Green Power product. This may be applied where the total number of RECs created by the facility is less than the total number of MWh of 'new' Green Power generation. Please contact the Project Manager for further details and information required for verification.

3.7.4 Special Concessions

If a situation arises in which a retailer believes they are entitled to a concession but it is not covered under the above arrangements, a special concession may be applied for. Consideration will be given by the Project Manager on a case-by-case basis.

3.8 Eligibility of RECs

Only RECs created by a Green Power generator are eligible for transfer against the requirement for transfers arising as a result of "new" generation Green Power sales. As an exception to this rule, RECs from solar water heaters will be accepted for the purpose of transfer. There is no requirement to transfer RECs from the same Green Power generators as are used in the Product.

3.9 Shortfall in RECs

Any new Green Power sales for which a concession cannot be claimed and RECs are not transferred, cannot be validly claimed as Green Power in accordance with Section 3.6. Where a shortfall for meeting supply with demand occurs as a result, the conditions outlined in Section 3.7 will apply.

For example, where a retailer has 100GWh new Green Power sales over the settlement period, but transferred only 70GWh of RECs to the Green Power Designated Account, that retailer can only claim 70GWh new Green Power acquisitions for that year (as long as those Green Power purchases satisfy all other conditions to be valid).

3.10 Retailer Purchase of Green Power Products

Under the Accreditation Program all retailers are required to purchase Green Power at a level which entitles them to use the Green Power Customer Logo. This level is defined in "The Green Power Customer Logo – Guidelines for Corporate Customers". See Section 4.

This requirement applies to each energy supplier's Retail arm as a minimum. Electricity consumption levels for the Retail arm will be worked out with, and agreed to by, the Project Manager.

3.11 Treatment of System Losses

Retailers can choose if they wish to specify to the customer and Project Manager whether transmission and/or distribution system losses attributable to a Green Power Customer are supplied from Green Power electricity generators. If system losses are included, generation supplying these losses must conform to all requirements above, including the requirements for new generation.

4. Green Power Product Marketing Criteria

4.1 Introduction

Energy retailers that offer Green Power accredited electricity products provide customers with the choice to make a positive contribution to the environment, encourage the development and use of renewable energy technologies, and open new investment opportunities in the energy sector.

To realise this market potential and maintain customer confidence, customers must be provided with clear and concise information about their electricity products and services.

4.2 Compliance Review

Energy retailers who participate in the National Green Power Accreditation Program must submit all Green Power marketing materials currently in use to the Program Manager to verify compliance with the guidelines outlined in this code. The Compliance Review occurs biannually as part of the June Quarterly report and the Annual Audit.

4.3 Provision of Information to Customers

Each energy retailer wishing to use the Green Power logo, or claim Green Power accreditation for any of their electricity products agrees to:

1. Provide all customers, during customer subscription and agreement fulfilment period, with contract pricing and terms and condition written in clear, simple and easily understood terms; and

2. Make the following information available to new and potential customers at their request:
    - Generator names and types for each Green Power Product;
    - Historical percentage of energy by type of generation for each Green Power Product;
    - Historical percentage of new generation (by energy) for each Green Power Product;
    - The typical energy price range for each generation type.

4.4 Use of Green Power Logo

Four logos have been developed to build recognition of Green Power Products, customers and new Green Power generators. To strengthen the effect of these efforts, common logos have been developed for use across Australia.

Green Power Products

It is important that retailers support the recognition of Green Power and the connections between government approval and accreditation processes and overall enhancement of the Green Power concept. Accordingly, retailers are contractually required to use the Green Power Product logo in advertisements and marketing material (including websites, where possible a hotlink from the logo to the Green Power website should be made) associated with their Green Power Products. Details are contained in the contract to be signed by retailers. Conditions of use are available in a document entitled “The Green Power Product Logo – Guidelines for Green Power Retailers”, available from the Project Manager.

The Green Power logo must be used in compliance with the logo usage requirements and guidelines available on the website (www.greenpower.com.au).

Retailers must refer to their product's accreditation in all advertising and marketing (online, print, broadcast) in connection with the Product or the Program as per the Green Power Retailer Agreement. This will be audited for compliance as part of the Compliance Review.

Customers

Customers may be entitled to use the Green Power Customer Logo if they have purchased or contracted to purchase sufficient levels of Green Power, in accordance with the requirements, outlined in a separate document entitled “The Green Power Customer Logo – Guidelines for Corporate Customers”. This document also describes how and where the logos can be used, and is available from the Project Manager. Green Power retailers can also provide this document to corporate Green Power customers.

Retailers must promote the use of the Green Power 'Customer' Logo to all commercial customers purchasing or approached to purchase an approved Green Power product by providing them with information about their eligibility to use the Green Power 'Customer' Logo. Information packs can be obtained from the Green Power Marketing Manager upon request.

Green Power Generators

Generator owners are entitled to use the Green Power Generator logo where more than half of the output of the generator is classified as ‘new’ Green Power generation. Additional requirements are contained in the document “The Green Power Generator Logo – Guidelines for Green Power Generators”. This document also describes how and where the logos can be used, and is available from the Project Manager.

Green Power Events

The Green Power Event logo is available for use where an event will be powered by 100% Green Power approved energy in its entirety. The Event logo must only be used on marketing materials directly relating to the event and it must be clearly communicated that the event rather than the entire company responsible for the event is 'Green Powered'. The Green Power Marketing Manager holds a guide on which to base per head energy consumption calculations if required.

Examples of Green Power Logos

4.5 Treatment of Blends of 'Green' and Other Energy

Prior to entering into an agreement to provide energy to a customer, and in all marketing and advertising related to the composition of a Green Power Product, the retailer must provide clear information about the portions of Green Power accredited electricity and non accredited electricity that will be provided (for each level of Green Power on offer).

Where the balance of a product is 100% renewable (but not Green Power accredited) the distinction between Green Power accredited and non-accredited renewable energy must be clear and obvious.

If a customer is offered a 'block tariff', the retailer must clearly communicate how the 'block' is structured (eg proportions of Green Power approved energy and other components) and what the 'block' translates to in terms of approximate kWh of Green Power purchased per day/month/quarter, emphasising that calculations are based on average consumer consumption levels rather than actual.

4.6 Misleading Conduct

Retailers must ensure that they do not undertake, in the opinion of the Project Manager, misleading advertising or conduct in relation to Green Power. Of particular importance is misleading advertising relating to the composition of Green Power Products. Retailers must not deliberately or inadvertently mislead customers as to what generation types are used in their Products, or the proportion of Green Power from different generation types, or to the function and operation of Green Power rights used in their Products. Retailers must:

- Agree to use only factually based and objectively verifiable environmental marketing claims in all advertising relating to their Green Power product.
- Be sufficiently clear and prominent in all advertising and marketing materials and other correspondence to potential and actual Green Power customers to prevent deception, in particular in regard to the customer's level of Green Power purchase and in regard to the balance of the supply.
- Not represent that customers are actually delivered 'green' electrons from specific generation facilities.
- Not overstate environmental attributes or benefits, expressly or implicitly.
- Present comparative claims in a manner that makes the basis for comparison clear to avoid customer deception.

5. Green Power Generator Eligibility Requirements

All electricity generators used in a Green Power Product must be approved as a Green Power generator by the Project Manager, prior to their inclusion in a Green Power product. This section defines the eligibility criteria to which all generators must comply to gain and maintain approval from the Project Manager as a Green Power generator.

5.1 General Definition

To be eligible for Green Power approval, an electricity generator must result in greenhouse gas emission reduction, result in net environmental benefits, be based primarily on a renewable energy source, and meet the eligibility requirements below.

All projects are individually assessed and considered for approval against the above general definition and the eligibility criteria below, in addition to other more specific considerations outlined in Appendix A, including stakeholder consultation and acceptability for the project. Details on the application and approval process are given in Appendix B.

5.2 Eligibility Criteria

5.2.1 Minimum Renewable Energy Input

The electricity generator must be based primarily on a renewable energy resource. As such the proportion of eligible renewable energy input must exceed 50% averaged over the settlement period. With the exception of minor contaminants, all renewable fuels used must be eligible under Green Power.

5.2.2 Eligible Generation

Only the portion of the energy generated that is based on renewable energy resources (i.e. >50%) is eligible for Green Power approval. The annual generation of a generator shall be pro-rated on the proportion of renewable vs. non-renewable energy (i.e. fossil fuel) input, as detailed in the letter of approval.

5.2.3 Approval Conditions

A generator is only eligible for Green Power approval as long as it complies with the approval conditions defined in the approval letter, and the eligibility requirements for Green Power generators in the Accreditation Document (as modified over time).

5.2.4 Changes to the Green Power Generator

The generator owner must notify the Project Manager in writing of any changes made, or any intention to make changes to the operation of the Green Power generator e.g. change in fuel sources, upgrade in capacity. It is recommended that the proponents consult the Project Manager as early as possible to confirm acceptability of these changes under the Program (e.g. eligibility of fuel sources), for an upgrade of the project's approval status.

5.2.5 Specific Exclusions and Inclusions

Generators must comply with specific eligibility criteria detailed below in Section 5.3 and Section 5.4.

5.3 Specific Exclusions

The following fuels/technologies are not acceptable for the purposes of the definition of a Green Power generator.

1) Utilisation of any materials (including wastes) derived from forests other than sustainably harvested plantation forests. Plantation-derived wastes should not be sourced from plantations that clear, or have cleared after 1990, existing old growth or native forests.
2) Generators that involve the incineration of industrial, commercial or municipal solid wastes.
3) Hydro-electric projects, which require new dam construction that results in large-scale flooding of ecosystems.
4) Hydro-electric projects, which involve major diversion of rivers and do not adequately allow for environmental flows.

5.4 Specific Inclusions

The following fuels are acceptable renewable energy sources for the purposes of the definition of a Green Power generator.

1) Wood waste from clearing specified noxious weeds; sustainably managed plantations; Municipal Green Waste.
2) Industrial, commercial and municipal solid wastes (excluding incineration). Where a fossil fuel component is mixed in with the waste stream and cannot be reasonably removed from the fuel mix, the fossil fuel component will be netted out on a pro-rated basis (according to calorific value of fossil fuel component).

5.5 Review Process for Accreditation

5.5.1 Special Approvals

In situations where generators do not fully meet the above criteria or assessment considerations in Appendix A, but where the generator owner or retailer believes there is significant merit in the operation of the project or the utilisation of the fuels, the Project Manager may consider granting a Special Approval for the generator (subject to NGPASG endorsement). Consideration of approval will be subject to provision of project details, as well as evidence of relevant stakeholders consultation and acceptance of the project.

5.5.2 Changes to Accreditation Program

The Steering Group reserves the right to amend the operation and conditions of the National Green Power Accreditation Program and the Accreditation Document. The Project Manager will notify the Green Power generator owner of any proposed amendments to the operation and conditions of the National Green Power Accreditation Program and the Accreditation Document. Modifications will apply to all Green Power generators and Green Power Products, where relevant. The Green Power generator owner will be given reasonable time to provide feedback in the review process prior to such amendments taking effect. Where such amendments require the Green Power generator owner to make alterations to the operation of the generator, the generator owner will be given reasonable time to adapt to meet any amendments.

5.5.3 Breach of Generator Approval

If a Green Power approved generator is in breach of, or is anticipated to be in breach of, the above eligibility requirements, approval conditions specified by the Project Manager (or of any other related development or environmental legislation which may impact its Green Power compliance), the generator owner must notify the Project Manager immediately. The approval status of the generator will be reviewed. The owner will have the opportunity to provide evidence and respond to any issues raised in the review process. The Project Manager, after agreement with the NGPASG, may suspend or withdraw the approval of a Green Power Generator if the breach is considered to conflict with the Green Power Accreditation guidelines.

An appeal may be made to the Project Manager, who will subsequently advise and make a decision with the NGPASG.

If Green Power approval is withdrawn, the generator must notify any retailers with which it has Green Power Purchase Arrangements, and cease its supply of Green Power to these retailers.

5.6 Generator Reports

Generator owners will need to provide reports of annual output for each Green Power generator during the settlement period, which may be verified as part of the annual audit process. These must be provided to the Project Manager or nominated representative within 3 months following the end of the settlement period (on or before 31 March).

Information should include the following:

- Name of power station;
- Generation capacity (MW);
- Fuel source(s);
- Metered data for total eligible Green Power generation (net annual output), including information on metering point;
- Metered data for eligible new and existing Green Power generation proportions (and/or methodology for calculating the new/existing proportions of output), where applicable;
- Volume of electricity generated (MWh);
- Period of time (dates) of electricity production;
- Details of initial purchase of Green Power e.g. name of buyer;
- MRET status.

The Project Manager will accept reports prepared and supplied by the retailer for Green Power generators where the generator owners have not reported directly to the Project Manager, as long as they have been signed off by the generator owner.

5.7 Selling Green Power Generation

All generation sold and branded as 'Green Power' to an end consumer must be sold as a Green Power Product, which has been accredited under the National Green Power Accreditation Program and subject to the accreditation criteria. This rule is applicable to Green Power approved generators, where the generator owner is selling electricity directly to a customer. Generator owners will need to submit a Product application for assessment and undergo the necessary compliance reporting procedures. Refer to Section 2.1.

If a generator owner fails to comply with these standard procedures and sells 'Green Power' to customers outside of the scope of an accredited Green Power Product, it will be considered a breach of accreditation by the generator, and approval may be withdrawn.

6. Retailer Reporting

The public release of information about the operation of Products helps to ensure the consumer confidence required to gain acceptance of Green Power Products. Ongoing accreditation of Products requires the retailer to provide regular reports, parts of which the Project Manager will collate and publicly release. These reports also include information required to assess whether a Product meets the Accreditation Criteria.

The required reports are described below. Retailers can obtain report forms from the Project Manager or the Project Manager's independent auditor.

6.1 Quarterly Status Reports

Each quarterly status report provides a summary of each Green Power Product including sales, purchases and customer numbers for the quarter. Green Power purchases are broken down according to the type of renewable resource used, for both new and existing Green Power generators.

Retailers must provide the reports to the Project Manager within 1 month of end of quarter, for quarters ending 31 March, 30 June, 30 September and 31 December, each year. The report format will be provided by the Project Manager at least 2 weeks prior to end of quarter.

The quarterly status report should include the following information, in the format requested by the Project Manager.

Information intended for public release by the Project Manager:

- Total Green Power purchased and allocated through the Green Power Product, broken down between type of electricity generator used, for both existing and new generators.
- A breakdown of total Green Power sales made in the quarter, between residential customers and commercial customers, and according to each state in which customers are based (NOTE: Only total residential and commercial figures for the Product will be released. Sales figures by state will be released as aggregated program totals only).
- Customer numbers, broken down between residential and commercial customers, and according to the location of these customers signed onto the Product (state-based) (NOTE: Only total residential and commercial numbers for the Products will be released. Customer numbers by state will be released as aggregated program totals only.).
- Details of each electricity generator used under the Product.
- Name, location, owner and commissioning date.

Information for the quarterly reports, which will not be publicly released without prior consent:

- For all Green Power purchased and allocated through the Green Power Product, broken down between type of electricity generator used, for both existing and new generators by Green Power purchased (MWh);
  - Capacity (MW);
  - Annual energy production (MWh);
  - Power purchase arrangements (to indicate the amount of Green Power purchased for the Green Power Product only).

As part of a bi-annual Compliance review, marketing materials are to be submitted by retailers with their June Quarterly report and as part of the December Annual Audit process.

6.2 Annual Audit Report

The Annual Technical Report is to be provided to the Project Manager within 3 months of end of each settlement period (on or before 31 March). The Project Manager will provide the report formats and details of requirements at least one month prior to the end of the settlement period. These reports will be used in the National Green Power Annual Audit.

Information as to which other parts of these reports remain confidential and which parts are required to be made public will be contained within the report pro-formas, which are available from the Project Manager.

Information should include the following (as required and in the format requested by the Project Manager):

- Technical reports and supporting documentation for the Product. It is incumbent upon the retailer to ensure that the information provided in the technical reports (in accordance with Section 3), and verification documentation for Green Power purchases and REC concession arrangements, to be submitted to the Project Manager have been independently audited within this timeframe;
- Report providing details of the RECs transferred to Green Power Designated Accounts, and any concessions granted. The Project Manager will independently obtain records from ORER of REC transfers into the Designated Accounts for verification with retailer reports. The total number of RECs held across all Green Power Designated Accounts and the source of these RECs specified by generators, not retailer, will be reported in the Compliance Audit report;
- All relevant marketing and consumer information materials as required, to check compliance in accordance with marketing accreditation criteria detailed in Section 4.
- Any additional information requested by the Project Manager's independent auditor which is required to ensure the Product's compliance with the Green Power Accreditation Document;
- Generation reports to confirm actual generation output for each generator, if necessary. Where generator owners do not report directly to the Project Manager or nominated representative, the Project Manager will accept reports submitted by the retailer, as long as they have been signed off by the generator owner. Details of the number of MWh's sourced from each specific generator in a retailer's portfolio allocated to that retailer's Green Power sales in the period will be reported in the Compliance Audit report.

Any breaches of the accreditation will be reported in the Annual Audit Report.

Appendix A: Assessment Guidelines for Green Power Generators

1. GENERAL CONSIDERATIONS

1.1 Consumer Perceptions

The Green Power Accreditation Program is a voluntary market-based program mechanism for stimulating investment in new renewable energy generation. It is wholly dependent on customers generally choosing to pay more for a Green Power accredited Product. As such, Green Power customers generally wish to see their contributions leading to overall environmental improvements, i.e. they may not approve of projects which, although they result in a reduction in greenhouse emissions, cause damage to the environment in some other way.

As contribution to Products is entirely voluntary, customer perceptions of what is acceptable must, by necessity, be given careful consideration alongside any 'objective' view of the environmental merit of a particular electricity generator. The views of the local community (particularly those impacted by the project), consumer and environmental advocacy groups should therefore be taken into account by the retailer, and will be considered by the Program Manager in assessing approval of individual generators.

1.2 Environmental Issues

Individual electricity generation projects may have adverse environmental impacts that will outweigh the benefits and would therefore not be considered acceptable for inclusion within this program. Negative environmental and/or cultural impacts of each project should be minimised to maintain consumer satisfaction. Retailers and generator owners are responsible for ensuring that all generation projects meet any statutory environmental, planning, and licensing requirements, and relevant environmental guidelines.

The environmental criteria for generator eligibility are related to the generation process only, and not the sustainability of the host resource industry (with the exception of energy crops). Whilst the sustainability of the host resource industry is not assessed, the impact of the individual generation project on that host industry will be taken into account. In cases where issues are raised regarding the expansion of the host industry due to electricity generation from that project, the associated impacts in the context of ecologically sustainable development will be considered.

For example, whilst concerns may be raised over the long-term sustainability of some biomass resource industries, as long as the biomass is sustainably harvested, results in greenhouse gas reduction, and demonstrates a net environmental benefit, it may be eligible for use under Green Power.

All submissions seeking Green Power approval for generators must include a Statement of Environmental Effects, to the satisfaction of the Project Manager. Refer to the *Green Power Generator Approval Application* in Appendix B and Table 1 Key ESD Considerations for further information.

Green Power approved projects must also be consistent with other federal and state government sustainability and environmental objectives, including but not limited to:

- The National Strategy for Ecologically Sustainable Development
- State and Local Government waste management policies
- National Waste Minimisation and Recycling Strategy
- Water management objectives and use of tertiary treated waste water
- Management of soil contamination issues.

1.3 Public Consultation

The accreditation criteria reflect the current environmental data, consumer and expert opinions of what constitutes 'green environmentally friendly' and 'sustainable energy' generation. Over time it is possible that a changing environment or technology will mean that the accreditation guidelines will change. All stakeholders will be consulted accordingly of any proposed amendments to the operation and conditions of the National Green Power Accreditation Program and the Accreditation Document, and be given reasonable time to provide feedback in the review process prior to such amendments taking effect.

For generator assessments specifically, the Project Manager undertakes an informal stakeholder consultation process for all applications. All written comments obtained through this process will be considered.

A formal public consultation process may be undertaken where the NGPASG deems necessary e.g. in situations where a generation project is potentially contentious; there are issues of public concern, or there is disagreement regarding its acceptability under the program. This will be coordinated by the Project Manager, prior to a formal assessment of a generator for Green Power approval.

Upon confirming that the proponent has provided all necessary information, the Project Manager will:

- Prepare a document for use in a public consultation process, outlining all relevant details relating to the program requirements, generation project and other information the Project Manager considers relevant;
- Invite public submissions relating to the application for Green Power approval via notices in broad readership National and State newspapers and other publications, wherever relevant. The Project Manager will provide at least one month for receipt of submissions. Advertising costs will be passed on to the proponent, as agreed. All submissions will be considered as part of the assessment of the project. Only written submissions will be considered.

Generator owners or project applicants will be given an opportunity to respond to comments received in stakeholder submissions.

2. ACCEPTABILITY OF GENERATION

Eligibility criteria for generator approval are outlined in Section 5. The following section provides a guide as to the acceptability of generation projects. Clearly, these views are general and cannot take account of particular local factors that may concern potential participants. In addition to this information, the following will be taken into account in the assessment process:

1. Consumer perception of the generation process;
2. The overall impact of the generation process on greenhouse emissions;
3. Whether the process is based primarily on renewable energy sources;
4. The nature of the environmental impacts associated with the construction and operation of the generation facility, including the extent, intensity and duration of those impacts;
5. The level of mitigation, either planned or in place;
6. Details relating to planning approvals and environmental management procedures related to the generation process;
7. Other matters as deemed relevant by the Project Manager including the specific considerations detailed below.

If generator developers or Green Power retailers require clarification, they can seek pre-approval of the Project Manager for individual projects (see Section 2.2.3). Retailers should avoid projects that are likely to be contentious in any way.

These guidelines will change as the program evolves and as perceptions change over time, and will be made available in the accreditation document from the Program Manager.

2.1 Types of Generation – Specific Considerations

The following types of renewable energy generation are generally acceptable under Green Power.

- Solar Photovoltaic and Solar Thermal Electric Systems
- Wind Turbines and Wind Farms
- Hydro-Electric Power Stations
- Biomass-Fuelled Power Stations
- Geothermal Power Stations
- Wave and Tidal Power Stations

Specific considerations are discussed below.

Cofiring with fossil fuels

Cofiring biomass resources with fossil fuels in generators can be classified as green electricity generation for the renewable energy component. It should be noted that, under the definition used in Green Power, generators must be primarily based on renewable energy resources and therefore cofiring level would by necessity be greater than 50%. Each renewable energy component must be eligible according to Green Power requirements. Where there are two plants feeding into one system, then the renewable component can be prorated.

Landfill Gas Generation

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 this 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 Green Power. Any measures undertaken to reduce their environmental impact (such as best practice NO_x control) would assist the Project Manager in approving their use under the Accreditation Program.

Industrial/Commercial/Municipal Solid Wastes – Incineration

There is wide scale public concern about the operation of incinerators for solid wastes. Such generators are therefore unsuitable for inclusion in Green Power Products. 'Green' waste incineration, where plant matter is separated from other wastes, is covered in the paragraphs below on "Wood Wastes".

Industrial/Commercial/Municipal Solid Wastes – Direct Gasification/Pyrolysis

There is significant benefit in the gasification or pyrolysis of mixed solid wastes that would otherwise be diverted to landfill. Aside from recovery of energy, destruction of these wastes significantly reduces the volume of waste going to landfill (approx. 95% reduction), and in addition removes many problems associated with leachates and gas and odour emissions. The use of materials recovery technology also assists in reclaiming recyclable material that is mixed in with the waste stream, and would otherwise end up in landfill.

Generation plants based on these technologies are generally eligible for inclusion in Green Power Products if the process has been approved under all relevant environmental legislation and demonstrate compliance with relevant emissions standards. Generator owners are responsible for applying the principles of the Waste Management Hierarchy, such that wherever possible, all materials able to be recycled, re-used or processed, are extracted from the waste stream. Where it is demonstrated that a fossil fuel component is mixed in with the waste stream and cannot be reasonably removed from the fuel mix, the fossil fuel component will be netted out on a pro-rated basis (according to calorific value of fossil fuel component).

Wood Wastes

Utilisation of any materials (including wastes) from high conservation value forests, such as old growth forests, other native forests, and ecologically sensitive sites (for example, areas of remnant native vegetation) are not acceptable under Green Power.

Utilisation of waste derived from sustainably harvested plantation forests – where there are insufficient market opportunities for reuse or reprocessing of this waste – is generally acceptable under Green Power. These wastes must not be sourced from plantations that clear, or have cleared after 1990, existing old growth or native forests. Plantations that allow for and specify wildlife corridors and set aside areas of native forest are preferable. Demonstration of best-practice saw-milling technologies and the like would assist in the approval of generators based on forestry resources. Woodwaste from clearing specified noxious weeds, where clearing activities are managed properly (e.g. to control seed spread), are acceptable, as long as commercial aims do not override the environmental management priority of weed control or elimination.

Municipal Green Waste, and wood wastes from suburban development, building and construction projects, where there are insufficient market opportunities for reuse and reprocessing, are acceptable fuel sources (as

long as they are not sourced from high conservation value forests, such as old growth and other native forests, and ecologically sensitive sites). Generator owners are responsible for demonstrating that all areas from which fuels are sourced have been assessed and approved, according to any relevant statutory environmental, planning, and licensing requirements. Manufactured wood products and by-products (e.g. packing cases, furniture, crates, pallets, recycled timber) destined for disposal that are not contaminated and have not been chemically treated (e.g toxic glues, solvents, finishes etc.), are also likely to be acceptable.

For projects using wood wastes (including Municipal Green Waste), **all** wood waste sources must meet the above eligibility requirements for the project to be granted Green Power approval. Verification conditions for approval are given below.

It is the generator owner's responsibility to implement appropriate quality control systems and procedures (including auditing) to ensure all reasonable effort is made to keep contamination with ineligible wood sources to a minimum.

Where there is a degree of contamination of the wood source with ineligible wood sources, then the proportion of wood source not acceptable under these guidelines would be netted out from Green Power on a fuel input basis.

Contamination in this case is defined as traces of unacceptable wood sources which have entered into the fuel stream for a project against all reasonable endeavours of the generator owner, and which cannot reasonably be removed.

If this is the case, the generator owner must demonstrate to the Project Manager that the ineligible wood source component due to contamination cannot be satisfactorily extracted from the fuel mix, and provide verification on the amount of generation attributable to the contamination component.

Verification conditions for approval

The Project Manager must approve any sources of wood products prior to their inclusion in a generation project based on detailed information (fuel type and origin of supply) provided by the generator owner.

Further to this, it is the generator owner's responsibility to provide verification that the wood materials supplied on an on-going basis comply with the eligibility requirements. Generator owners will be required to: -

- Provide evidence for implementing and maintaining a rigorous tracking system (e.g. detailed inventory, delivery records) to monitor all received wood sources, in terms of both source type, waste composition (by mass and energy/calorific value) and origins of supply;

- Make these records available for spot auditing by the Project Manager or other appointed independent third party, at any point in time. The generator owner must also make the site available for random on-site spot checks, which may be undertaken by the Project Manager or other appointed independent third party.

- Provide these records on a quarterly and annual basis to the purchasing Retailer and Project Manager. The Project Manager may require that these records be independently audited;

- Notify the Project Manager and request approval of any new sources in the future prior to their utilisation.

Failure to meet approval conditions and compliance requirements outlined above and, more specifically in the official letter of approval, will lead to revocation of Green Power approval for the generator.

Refer to Table 1, Key ESD Considerations, for further information on other issues to consider and address towards receiving Green Power approval for projects.

Agricultural and Other Biomass Wastes

Waste materials from Sugar Cane, Winery and Cotton industries, amongst others, as well as methane captured from sewerage treatment works or large scale organic composting offer considerable potential for

electricity generation. Generation projects based on these resources will be assessed on a case-by-case basis.

Energy Crops

There are a wide variety of crops which could be grown specifically for energy generation purposes ("energy crops"), including crops such as timber, vegetable oils, fibre crops or complex sugars. Many of these crops have benefits in addition to the production of renewable energy, such as the production of timber and oils, provision of habitat corridors, alleviation of salination problems etc; and projects that have multi-use purpose may be more likely to be accepted by the community. The acceptability of various energy crops will depend upon the agricultural and harvesting practices used, and whether these are considered sustainable. Energy crops sourced from crop activities that clear, or have cleared after 1990, existing old growth or native forests, will not be accepted.

Hydro-Electric

The environmental impact and perceptions of consumers towards hydro-electric generators varies depending upon the size of the system, its location, the conservation and community value of the impacted area and the hydrology management.

Consumers may be critical of hydro-electric projects which: -

- Result in the large scale flooding of ecosystems;
- Reduce conservation values, particularly in highly sensitive areas;
- Involve major diversions of rivers;
- Provide inadequate environmental flows;
- Involve the construction of major new dams and roads in sensitive areas.

Consumers are more likely to accept projects that: -

- Have had broad stakeholder consultation and acceptance;
- Have adequate environmental flows;
- Are retrofitted dams that have been built for other purposes.

Hydro-electric projects which require new dam construction resulting in the flooding of ecosystems can have considerable impact on the environment. As a result consumer perceptions are likely to be critical and as such, projects of this nature will not be accepted for inclusion in Green Power Products.

In addition, hydro-electric projects which divert water from rivers, or from one river to another, and do not adequately allow for environmental flows, can severely alter eco-systems associated with the river. Such projects are not accepted for inclusion in Green Power Products.

Hydro-electric projects which involve the installation of generation facilities alongside dams which have already been built for other purposes are likely to be acceptable. In this case the production of electricity has not led directly to construction of the dam. The precise environmental impacts of any proposal need to be examined to ensure that these are minimised.

In situations where hydro-electric generators are used in pumped storage mode, only the net export of the system can be classified as 'green' electricity generation.

Wind Power and Windfarms

Wind turbines and windfarms have the ability to impact the local environment, particularly in relation to visual amenity, noise and bird-strike. Sufficient consultation with local stakeholders and efforts to minimise the impact on local amenity should be undertaken to ensure their acceptability under the program.

Solar Thermal Electric

Solar Thermal Electric generation plants may use a non renewable fuel such as natural gas to support the generator when sufficient solar energy is not available. In such cases, only that contribution which can be directly attributed to the renewable energy component would be considered to be 'green' (at a level greater than 50% as per the definition of a Green Power generator).

Coal Mine Waste Gas and Coal Seam Methane

Coal mine waste gas generation based on vent or drainage gas from mines, where the methane must be drained for safety reasons, has the capacity to reduce greenhouse gas emissions substantially. However, coal mine waste gas is a fossil fuel, and therefore does not pass the test of being renewable. Non-waste Coal Seam Methane is a fossil fuel equivalent to natural gas.

Coal Mine Waste Gas and Coal Seam Methane generation therefore cannot be considered as a renewable energy source under the definition of the Accreditation Program.

Embedded Generators (including Rooftop Photovoltaic Systems)

A number of electricity consumers, particularly at the domestic level, have recently installed small grid-connected renewable energy systems (such as rooftop PV systems) for their own use. In general, generation from such a system is acceptable for Green Power, provided the conditions summarised below are satisfied.

Conditions

- Retailers can claim the output of embedded generator for Green Power, as long as the retailer can provide verification of their ownership of the Green Power rights associated with the claimed amount of generation.
- For cases where the Retailer does not actually own or partly own the system, the retailer must demonstrate that the Green Power was purchased from the owner at an appropriate cost-reflective tariff. The retailer will also need to advise the owner that the system's generation will be sold under Green Power and that the retailer will be receiving a premium for it. Electricity retailers will be required to demonstrate that the customer understands this.
- Where an electricity retailer claims the output of a system as Green Power, retailers cannot sell the output as Green Power and also claim that it is being provided to the host as solar power or Green Power electricity.
- For all systems used for Green Power, the electricity retailer must be able to verify the amount of electricity generated from the system or exported to the grid to which the Green Power rights are associated. For small-scale systems (under 10 kW) the retailer may be able to claim all (or a proportion) of the deemed output according to the default generation values set out in the Federal Renewable Energy (Electricity) Regulations 2001 (Schedule 5) and any subsequent modifications.

Deemed amounts for small generators may be created each year, or in 5 year blocks. Deemed amounts are to be reported in full in the settlement period in which they are created. There will be no carry over to the next period of deemed amounts except where it has been authorised under flexibility mechanisms outlined in Section 3.6.

Approval

The Project Manager will accept bulk submissions for embedded generators, such as rooftop PV systems, within one generator application, as long as the relevant details for each individual system are provided.

Geothermal, Wave and Tidal Power Stations

Geothermal, wave and tidal technologies are relatively new to the Australian renewable energy market, and have only reached demonstration phase to date. Applications for approval for these types of projects will be accepted under the program. Generation projects based on these resources will be assessed on a case-by-case basis, and general project, community and environmental eligibility criteria will apply.

Specific guidelines for these types of projects will be developed over time in consultation with stakeholders.

Appendix B: Green Power Generator Approval Application

All generators used in a Green Power Product must be Green Power generators, as defined in Section 2.2. Retailers must ensure that all generators to be used in their Product have been given written Green Power approval, prior to the inclusion of these generators in the Product. Either retailers or generator owners can request for approval. Application details are provided below.

As previously mentioned, the two types of Green Power generators are:

- **New** Green Power generator: defined as an electricity generator or increase in generator capacity[3], which was commissioned or first sold energy (whichever is earlier) after January 1, 1997 or after launch of the Green Power Product (whichever is earlier).

- **Existing** Green Power generator: defined as an electricity generator or increase in generator capacity which was commissioned or first sold energy (whichever is earlier) prior to January 1, 1997.

1. Process of Application

The application and assessment process for gaining approval for a Green Power generator involves the following steps:

1. The generator owner or retailer submits the required information and any supplementary documentation to the Project Manager, allowing at least two weeks for initial assessment.

2. Where the application does not meet the requirements and guidelines in the National Green Power Accreditation Document, or where insufficient details are provided, the applicant is advised accordingly. Where required by the NGPASG, a formal public consultation process will be undertaken and coordinated by the Project Manager prior to the assessment of the project for approval (see Appendix A for details). The NGPASG will accept written submissions within a specified time-frame for each round.

3. In cases where a formal consultation process is not required, the Project Manager will undertake an ad-hoc informal consultation process with stakeholders.

4. The Project Manager assesses application for approval, having regard to the fundamental objectives of the Program, the generator eligibility criteria and where applicable, submissions received in the formal and informal consultation processes. Proponents will be given the opportunity to respond to issues raised.

5. If the application meets all guidelines, the Project Manager advises the applicant of this by way of an official letter of approval for the generator, and invoices the applicant for the associated fee (see Section 3 of this Appendix). The date of accreditation for a generator will be backdated to the date of application submission to the Project Manager. Subject to receiving approval, the Green Power generator can be used in an accredited Green Power Product.

2. Required Information

The following information must be submitted such that the Project Manager can assess and approve a generator, prior to its inclusion in a retailer's Green Power Product: -

- Name, location (include postcode), owner of station, key contact (name and contact details), connection point;
- Commissioning date, date of first operation of each unit (where available) and date of first sale of electricity; *
- Electrical capacity of each unit (MW); *

[3] Where it involves an increase in generator capacity (e.g. upgrades), new generation is measured as that generation which occurs over and above the existing installed capacity as a result of significant capital investment.

- Expected annual energy production of station (MWh);
- Description of power purchase arrangements (pricing not required), if any; *
- Detailed description of site, including maps, schematics where available, in particular showing any water diversions for hydro projects;
- Description of operation of the generator, to clarify whether the operation may impose any environmental impacts that need consideration;
- Description of fuel sourcing, particularly for projects using biomass fuels;
- Details of any proportion of non-eligible fuel components (e.g. fossil fuels) that would need to be netted out, outlining how the renewable energy component would be quantified; *
- Details of auxiliary loads[4]
- Details of community and stakeholder consultation relating to the project; and,
- Statement of Environmental Effects (see below); *
- ORER accreditation details (if applicable);
- Confidentiality of information**;
- Other details required by the Project Manager

* *Please note that applicants are welcome to submit a copy of the ORER Application for Accreditation with the additional details marked with *, or evidence that the ORER has deemed it ineligible for MRET Accreditation.*

** *Please note that where generators are approved and used in a Green Power Product, certain details provided above are released publicly under Green Power reporting requirements (e.g. description of generator, name, location, owner and commissioning date).*

Submissions may be forwarded to the Project Manager via fax, email or post.

It is important that all information provided in an application is correct and not misleading. The Project Manager is within its rights to withdraw approval of any generators, which are subsequently found to have environmental concerns that were not advised at the time of application. Proponents who disagree with a decision of the Project Manager may appeal against the decision to the NGPASG. A decision of the NGPASG is final and cannot be contested.

3. Statement of Environmental Effects

A Statement of Environmental Effects should address key environmental issues including potential impacts of the project and proposed mitigation, and how the project fits in with the principles of Ecological Sustainable Development[5] (ESD). In summary, these principles would include: -

(a) **The precautionary principle** namely, that if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

(b) **Inter-generational equity** namely, that the present generation should ensure that the health, diversity and productivity of the environment are maintained or enhanced for the benefit of future generations.

(c) **Conservation of biological diversity and ecological integrity** namely, that conservation of biological diversity and ecological integrity should be a fundamental consideration.

(d) **Improved valuation, pricing and incentive mechanisms** namely, those environmental factors should be included in the valuation of assets and services.

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[4] Auxiliary loads and electric parasitics associated with the process of electricity generation are netted out of the total output for determining eligible 'green' generation, unless they are considered to be insignificant (i.e. less than 1%). The generator owners will need to provide verification of the magnitude of these losses.

[5] Refer to the Commonwealth Environment Protection and Biodiversity Conservation Act, 1999.

Key environmental considerations for a generator can be broadly categorised into the following:

- Global warming
- Impact on natural and cultural heritage
- Land use
- Transport use and impacts
- Project impact on the host industry
- Impact on flora and fauna
- Water, soil and air quality
- Visual & noise impacts
- Use and disposal of waste or by-products

Potential impacts can differ for each generation project type and are often site-specific. Issues to consider are detailed below in Table 1 and while not comprehensive, provide a guide to address the key environmental and community concerns for each generation type.

Applicants will need to provide evidence of community and local stakeholder consultation and support for each project (e.g. local residents, interest groups, environmental advocacy groups).

Where possible, supporting documentation (e.g. development approvals) should also be submitted with the application.

Where an Environmental Impact Statement or Environmental Impact Assessment has been undertaken for the project as required by relevant planning legislation, the Project Manager will accept a copy as appropriate documentation, provided they contain all required details.

Table 1 – Key ESD Considerations

Generator Type	Key ESD Considerations
SOLAR Solar Farm	Potential land-use impacts – interference with cultural heritage, archaeological sites, recreational use. Biodiversity impacts – vegetation clearance, loss of wildlife habitat. Visual impacts. Plans for decommissioning stage e.g. rehabilitation of site to its original state, disposal/reuse of materials.
WIND FARM	Noise, and visual amenity – assessment of impacts and minimisation efforts for local residents (e.g. proximity to domestic dwellings). Potential land-use impacts – interference with cultural heritage and archaeological sites, high conservation value area, recreational use. Biodiversity impacts – vegetation clearance, loss of wildlife habitat, interference with bird migratory routes. Eco-tourism considerations – increased traffic issues, road access, visitor facilities and parking etc. Plans for decommissioning stage – rehabilitation of site to its original state, disposal/reuse of turbines and blades.
HYDRO	Locational considerations including cultural, wilderness, scientific, recreational and conservation values. Construction impacts e.g. noise and dust, downstream nutrient and sediment effects, barriers to fish migration, disturbance to breeding habitat for birds and fish. Biodiversity impacts – changes to terrestrial/riverine habitats, soil erosion, effects on migratory fish species, reductions in in-stream fisheries (fish barrier). Changes to water quality and groundwater recharge e.g. nutrient concentration levels, O_2 concentrations, temperature, and pH. Transmission lines and road access considerations e.g. visual intrusion, habitat fragmentation, and disturbance of historical sites, land-use changes. Consideration of mitigation measures or offset, restorative and compensatory opportunities to address potential adverse affects outlined above (contamination and physical, ecological etc.) Management measures for adequate environmental flows. Impact of variations in downstream water flows. Plans for decommissioning stage e.g. rehabilitation of site to its original state, disposal/reuse of materials. Approved water management plan for the sustainable management of the hydro catchment (where applicable).
BIOMASS General *These issues should be considered for all types of biomass (below).* Biomass (cont.)	Compliance of generator with relevant 'best-practice' environmental pollution requirements (i.e. noise, air emissions) e.g. EPA requirements. Air quality impacts/improvements – assessment of air emissions levels (e.g. NOx, SOx, dioxins, particulates, ash). Water quality impacts – surface and groundwater pollution. On-going monitoring and treatment/control measures proposed. Use or disposal of by-products (e.g. ash recycling, landfilling). Diversion of material from other disposal mechanisms e.g. pit-burning, landfill. Noise, visual amenity, odour and health impacts during construction and operational stages. Effect on existing industries or activities (e.g. will the project support marginal activity or encourage expansion?). Transmission lines and road access considerations e.g. visual intrusion, habitat fragmentation, and disturbance of historical sites, land-use changes.

Generator Type	Key ESD Considerations
	Consideration of production of biomass in a landscape context, with farm management practices linked to regional targets for sustainable environmental and natural resouce management. Fuel transport - energy used and distance travelled to site. Plans for decommissioning stage e.g. rehabilitation of site to its original state, disposal/reuse of materials.Appropriate and transparent community consultation process from siting stage throughout project development.
Landfill Gas	On-going monitoring and treatment/control measures proposed e.g. cleaning of landfill gas prior to burning, scrubbers, and catalytic converters. Land-use impacts – potential interference of gas extraction with landfill site rehabilitation and intended use.
Municipal Solid and Green Wastes	Application of the Waste Management Hierarchy Diversion from existing use and consideration of alternative uses, avoidance/reuse/reprocess mechanisms (e.g. composting, horticultural) Diversion from other disposal mechanisms e.g. pit-burning, landfill Quantity of non-renewable materials converted to energy (e.g. plastics).
Wood Wastes	Compliance of fuel source with Green Power wood waste requirements and guidelines, and ability to meet verification conditions (Appendix A). Diversion from existing use and consideration of alternative uses, avoidance/reuse/reprocess mechanisms (e.g. composting, horticultural) Influences of generation project on future operational viability of agricultural site (i.e. host industry).
Agricultural Wastes	Influences of generation project on future operational viability of agricultural site (i.e. host industry). Diversion from existing residue utilisation (e.g. field retention, composting, stockfeed, animal bedding). Impact of storage.
Wet Wastes	Use or disposal of post-digested waste (e.g. fertiliser). Impact of transport and storage of pre- or post-digested wastes (e.g. odour). Avoidance of toxic and noxious emissions.
Energy Crops	Sustainability of agricultural practices (e.g. use of fertiliser, irrigation, herbicides, pesticides). Biodiversity impacts - vegetation clearance, loss of wildlife habitat. Salination and nutrient cycling considerations. Additional uses and benefits of product produced.

The Project Manager will provide examples of the above criteria upon request.

3. Generator Fees

The fee structure is detailed in the following table:

Type	Description	Fee
Generator Assessment Fees		
Small Projects	Small scale projects, less than 1MW. For example, domestic solar installations and Solar in Schools projects.	No charge
Pre–approval Assessment of projects (or upgrades)	The generator is seeking board approval (either own or retailer) for a development or upgrade and Green Power pre-approval will add weight to the proposal; A submission has been received prior to development permits being granted, or to community consultation having been undertaken. In these situations, a pre-approval may be granted.	$300 (non-refundable)
Projects (or upgrades) greater than 1MW	Full Green Power approval process, including stakeholder consultation.	$600* *$300 if pre-approved (i.e. Total: $600)
Annual Accreditation Fees (applicable from 1 January 2004)		
Applicable only to projects greater than 1 MW	Maintain accreditation and benefits thereof, including use of Green Power Generator Logo; administration of ongoing generator concerns/appeals etc	$500 per year

Generator Assessment Fees are applied to both successful and unsuccessful applications. All applicants will be invoiced the associated fee on completion of the assessment process.

A maximum of $2000 per annum is charged to owners of multiple Green Power generators for Annual Accreditation.

The Annual Accreditation Fee may be settled by the generator owner on an annual basis; for a longer term (for example five years); or for the duration of any power purchase arrangements that may be in place, whichever is most suitable for the specified generator.

Appendix C: Definition of Terms

Accreditation Criteria	The criteria for Green Power Products as detailed in Section 3, 4 and 5 of this document.
Accreditation Program	The framework established for Green Power Products, as described in this document.
Green Power Customer	A domestic or commercial entity for which the retailer has established a contract for the provision of a Green Power Product. In the event that several contracts have been established for a single agency or commercial entity (eg for separate retail outlets or government agency departments) then each contract should be considered a separate customer.
Existing Green Power Generator	A Green Power generator or increase in Green Power generator capacity which was commissioned or first sold energy (whichever earlier) prior to 1 January 1997.
Force Majeure	In relation to a party, means any cause outside the affected party's control including, but not limited to, an act of God, fire, lightning, explosion, flood, subsistence, insurrection or civil disorder, war or military operation, sabotage, vandalism, embargo, government action, or compliance in good faith with any law, regulation or direction by any Federal, State or Local Government or authorities, any network failure, or any failure on the part of the Network Operator or a generator, industrial disputes of any kind.
Gasification	The efficient conversion of solid fuel to gaseous fuel. The gas made can produce heat and electricity using gas engine generators.
Green Power Designated Account	A separate 'account' created by a Green Power retailer on the REC Registry website for the purposes of holding RECs which have been transferred into this account for compliance with Green Power accreditation criteria.
Green Power Generator	For the purposes of this Program, a Green Power generator is defined as an electricity generator approved by the Project Manager that results in greenhouse gas emission reduction and overall environmental benefits, and is based primarily on a renewable energy resource.
Green Power Generator Eligibility Requirements	The requirements to which generators must comply in order to gain and maintain Green Power generator approval, as detailed in Section 4, Appendix A and B of this document.
Green Power Product	Any product or service that enables customers to voluntarily contribute financially to renewable energy generation from Green Power generators, and has been accredited under the National Green Power Accreditation Program.
Green Power Retailer	Any person or organisation that operates a Green Power Product.
Green Power Right	A right to claim any eligible Green Power generation (or a portion of generation) from a Green Power generator that has occurred during a defined period. May be traded at any time by any person or organisation.
Greenhouse Gas Emissions Reduction:	Reduction in greenhouse gas emissions (CO_2) associated with offsetting electricity generated from fossil fuels.
Incineration	The burning of solid or liquid residues or wastes to produce heat and electricity using steam turbine generators.
Industrial/Commercial/Municipal Solid Wastes	Mixed waste stream sourced from domestic garbage collections and council operations (e.g. sweeping and litter bins), commercial and industrial collections, which can include food waste, organic matter, plastics, paper and other materials.
Mandatory Renewable Energy Target (MRET)	A federal target for the additional uptake of renewable energy established under the Renewable Energy (Electricity) Act 2000. The Commonwealth Government now requires all electricity retailers (and wholesale purchases) to source an additional 9500 gigawatt hours (GWh) of their product from renewable energy sources by the year 2010, based on their 1997 output.

Appendix C Definition of Terms (cont'd)

Municipal Green Waste	Trimmings, prunings and clippings from domestic and council vegetation management and gardening activities including grass, leaves, mulch, branches/twigs, tree boles, stumps and loppings.
Net Environmental Benefit	The environmental benefits associated with a project outweigh the adverse environmental impacts. Impacts are considered within an Ecologically Sustainable Development (ESD) framework and include: greenhouse gas reduction; water and air quality; land use; impact on flora and fauna; impact on cultural/natural heritage; visual and noise impacts; use and disposal of waste products; transport etc.
Product Development Plan	Retailers will need to provide a Product Development Plan in any Product application for Green Power accreditation. This includes details of 'new' green generators to be used in the proposed Green Power Product, including description, type of unit, location, ownership details, capacity (where known). Where details of a specific generator have not yet been identified, the plan would include a general description of the development direction of the product.
Pyrolysis	The production of a carbon rich solid fuel and a hydrocarbon rich gas by heating a biomass feedstock in the absence of oxygen.
Renewable Energy	Energy which is naturally occurring and which is theoretically inexhaustible, such as energy from the sun or the wind, and which by definition excludes energy derived from fossil fuels or nuclear fuels. (*Source:* The Macquarie Concise Dictionary)
Renewable Energy Certificates (RECs)	RECs are created by electricity generators that have been accredited and registered by the Office of Renewable Energy Regulator (ORER) for MRET (1 REC = 1 MWh).
Settlement Period	Calendar year basis: **2002-2003**: 18-month period 1 July 2002 through to 31 December 2003. **2004 onwards**: 1 January through to 31 December each year unless otherwise agreed with the Project Manager.
Sustainably harvested	Harvesting operations undertaken in a manner as to maintain the area's ecological viability and productive capacity*, and minimise any adverse environmental impacts in accordance with the principles of ecologically sustainable development e.g. to prevent soil erosion and contamination, protect water resources, provide for biodiversity conservation and protect culturally significant sites and threatened species habitat. Operations are approved under, or comply with, relevant Commonwealth, State or Territory planning and assessment processes. *Where applicable i.e. for agriculture, plantation forests, energy crops.
Tier 1 Accounting Companies	International or multinational accounting firms. Clarify with Project Manager's independent auditor.
Tier 2 Accounting Companies	City-based accounting practices. Clarify with Project Manager's independent auditor.
Waste Management Hierarchy	A system of prioritising ecologically sustainable waste solutions, based on the maximum conservation of resources (listed in order of preference): 1. Cleaner production 2. Waste avoidance 3. Waste minimisation 4. Re-use or recycle 5. Waste to energy 6. Landfill

Appendix D: National Green Power Accreditation Steering Group Charter

The National Green Power Accreditation Program in Australia is governed by a national body known as the National Green Power Accreditation Steering Group (NGPASG). The NGPASG is responsible for the overall management of the affairs of the Program.

Representatives

The NGPASG is comprised of representatives from participating state government agencies in the ACT, NSW, Queensland, South Australia, Victoria and Western Australia, in correspondence with non-financial member organisations in Tasmania, Northern Territory and the Commonwealth. Agencies include:

• ACT Treasury	ACT
• Department of Energy, Utilities & Sustainability (DEUS)	NSW
• Queensland Office of Energy	Queensland
• EnergySA	South Australia
• Sustainable Energy Authority Victoria (SEAV)	Victoria
• Sustainable Energy Development Office (SEDO)	Western Australia
• Australian Greenhouse Office (AGO)	Commonwealth
• Tasmanian Office of Energy, Planning and Conservation	Tasmania
• Northern Territory Department of Mines and Energy	NT

Mission

Delivering effective strategic management of the National Green Power Accreditation Program through widespread collaboration with all relevant stakeholders on accreditation and policy issues to guarantee program integrity, consistency and credibility.

The Role of the NGPASG

- To facilitate the operation of the Program in keeping with its aim to drive investment in the renewable energy industry in Australia;
- To ensure the rules of the program evolve and develop over time to maintain the program's relevance according to the changing market environment, consumer behaviour and industry conditions;
- Address and resolve strategic and policy issues as they arise;
- To ensure that the accreditation and verification of Products and Generators is handled in a credible, timely and effective manner;
- To determine and implement modifications to the Green Power Logos;
- To determine the removal of accreditation of Products;
- To resolve any disputes that arise through the appeal process;
- To agree the annual program budget and to review the appointment of the Program Manager at the end of each three year term; and
- To carry out any other such activities as are necessary for the successful operation of the Program.

In each state, NGPASG participants are responsible for building relationships with local Retailers and other stakeholders, and providing support for any general policy and generator accreditation issues. Specifically, each participant agrees to:

- Help to undertake marketing activities;
- Liaise with Stakeholders to identify and address local issues associated with particular generators, generator proposals, or Products; and with the press on local issues;
- Advise the Program Manager of specific or potential local issues arising which may have an impact on the Program; and

- Inform relevant local community and industry members via the Green Power progress reports (Quarterly and Annual) and other related materials.

These agencies may also co-ordinate information and education activities within their jurisdiction to support the efforts of retailers. Such campaigns may include advertising, joint promotional events, seminars or provision of information in hard copy or on-line.

The NGPASG encourages all stakeholders to participate in the growth and evolution of the Program.

Role of the Program Manager

Day-to-day management of the Program rests with the Program Manager, currently the NSW Department of Energy, Utilities & Sustainability. In brief, DEUS is responsible for:

- initial and ongoing accreditation of Green Power Products and Generators;
- reporting – quarterly and annual audits;
- provision of information to participating agencies, retailers, generators, customers and consumer groups;
- coordinating consultation and central contact point for stakeholders (i.e. environmental and consumer organisations, retailers and generators) with regard to changes to the program or issues as they arise;
- processing customer logo license applications;
- maintaining the national website at www.greenpower.com.au; and
- other projects and activities as they arise.

Further information

The NGPASG meets at least twice a year, and new representatives may join as the Program expands into new states or regions.

For contact details of the NGPASG, visit www.greenpower.com.au.

hydro

solar

wind

biomass

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