

# ASX Release

Infigen Energy Limited · ABN 39 105 051 616
Infigen Energy Trust · ARSN 116 244 118
Infigen Energy (Bermuda) Limited · ARBN 116 360 715
Infigen Energy · Level 22 · 56 Pitt Street · Sydney NSW 2000 · Australia
T +61 2 8031 9900 · F +61 2 9247 6086 · www.infigenenergy.com

19 November 2009

#### PRESENTATION TO ANALYSTS AT THE CAPITAL WIND FARM

The following presentation by Infigen Energy Managing Director, Miles George, is being presented to Analysts at the Capital Wind Farm today.

#### **ENDS**

#### For further information please contact:

Rosalie Duff Head of Investor Relations & Media +61 2 8031 9901

#### **About Infigen Energy:**

Infigen Energy is a specialist renewable energy business which owns and operates wind farms in Australia, the Unites States, Germany and France. Infigen listed on the Australian Securities Exchange on 28 October 2005 and has a market capitalisation of approximately A\$1.2 billion.

Infigen's business comprises interests in 41 wind farms that have a total capacity of approximately 2,246MW and are diversified by wind resource, currency, equipment supplier, off-take arrangements and regulatory regime.

For further information about Infigen Energy please visit our website: <a href="www.infigenenergy.com">www.infigenenergy.com</a>

# Capital Wind Farm – Investor & Analyst Tour

19 November 2009







- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix

#### **Presenters:**

Miles George Managing Director

Geoff Dutaillis Chief Operating Officer

Gerard Dover Chief Financial Officer

David Griffin Senior Development Manager

#### For further information please contact:

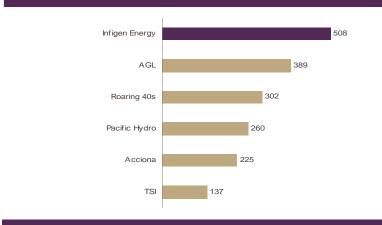
Rosalie Duff, Head of Investor Relations & Media +61 2 8031 9901 rosalie.duff@infigenenergy.com



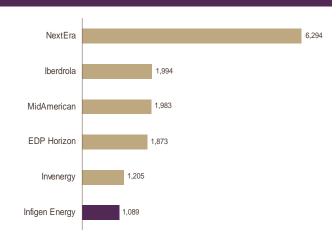
### IFN – A Renewable Energy Business

- Listed on ASX on 28 October 2005; market capitalisation approximately A\$1.2 billion
- Business comprises interests in 41 wind farms & operates across Australia, US, France & Germany with a total capacity of 2246MW
- Leading Australian wind energy business by scale, diversity, quality of operating assets and pipeline
- Leading US independent wind energy producer with complementary asset management business
- Undertaking a sales process for US & Europe and, if appropriate, will utilise proceeds to accelerate development pipeline in Australia

#### Australia – Top six wind farm owners by total capacity (MW)<sup>1</sup>



#### US - Top six wind farm owners by installed capacity (MW)<sup>2</sup>



<sup>1.</sup> Source: Clean Energy Council and Infigen. Includes wind farms in operation and under construction. 2. Source: Emerging Energy Research and Infigen.



### **Australian Business Overview**

### Infigen is a leading specialist renewable energy business with high quality assets

#### Infigen's Australian Business

Key Statistics

Production

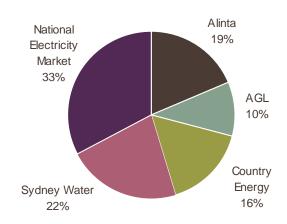
Number of Turbines



ney statistics	
Operational Capacity	469.3 MW
Under Construction	39.0 MW
Total Capacity	508.3 MW
Average Capacity Factor	36%

1,619 GWh pa

#### FY10 Expected Production (GWh) by Customer<sup>1</sup>



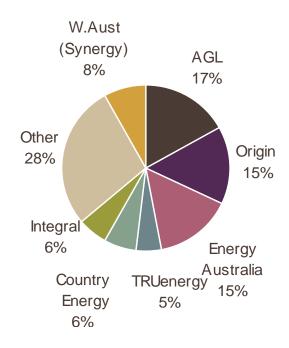
 Based on FY10 expected production. Note that this does not include a full period contribution from Capital and Lake Bonney 3



### Unique Long Position in Renewable Energy

IFN's capabilities will focus on satisfying a broad customer base

#### Estimated Allocation of REC Liabilities - 2009



#### **Key Observations**

- Significant ramp up in REC liabilities driven by expanded RET
- NSW energy privatisation will see REC liabilities increase for successful purchasers
- Increasing voluntary uptake of renewable energy
  - Government agencies
  - Corporate electricity users

Source: Roam Consulting (August 2009)



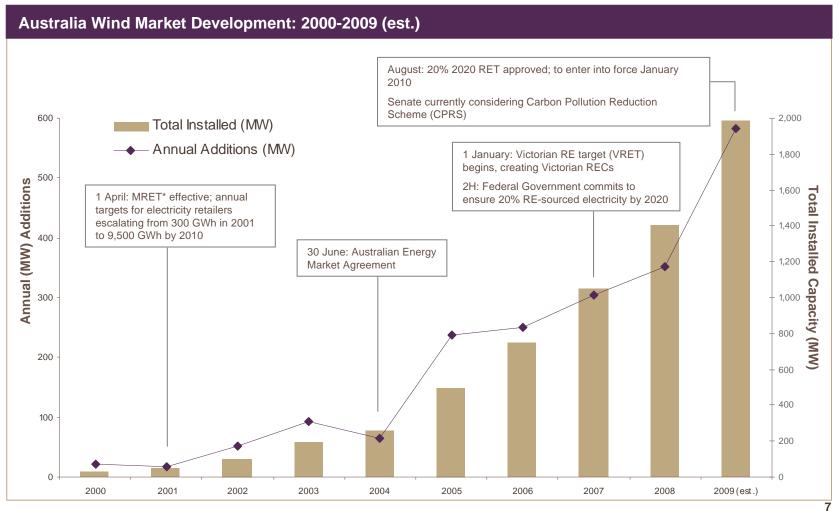


- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



### Evolution of Wind Energy and Policy Frameworks

After several years of modest growth, government commitments have contributed to a steady increase in wind energy since 2005



Note: \*MRET = Mandatory Renewable Energy Target. \*\*National Energy Markets include Queensland, Victoria, New South Wales, South Australia, Tasmania and the Australian Capital Territory Source: Emerging Energy Research, Australian Wind rebounds October 2009

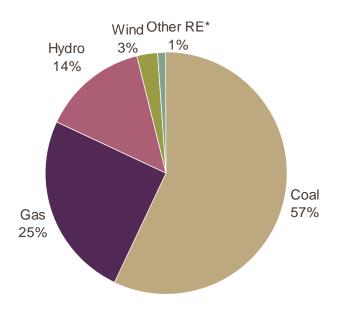


### National Electricity Market

Wind energy generation is equivalent to 3.0% of installed capacity in the NEM

Installed Energy Capacity: 53.4 TW1

Wind Capacity in the NEM (% registered capacity)<sup>2</sup>



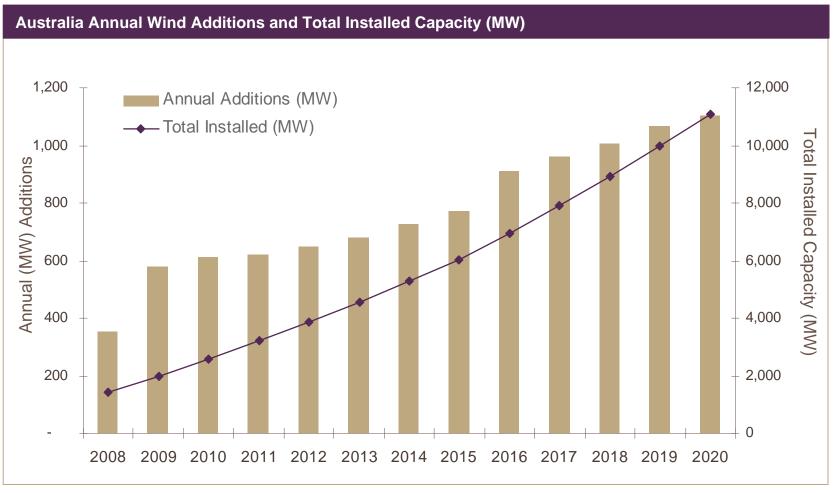


Australian Bureau of Agricultural & Resource Economics (ABARE), Emerging Energy Research, Australian Wind Rebounds Oct 2009
 Note: Figures relate to year end 2008. \*Other Renewable Energy (RE) encompasses waste energy, biomass and solar PV
 AER 1 July 2009



# Australia Wind Energy Forecast

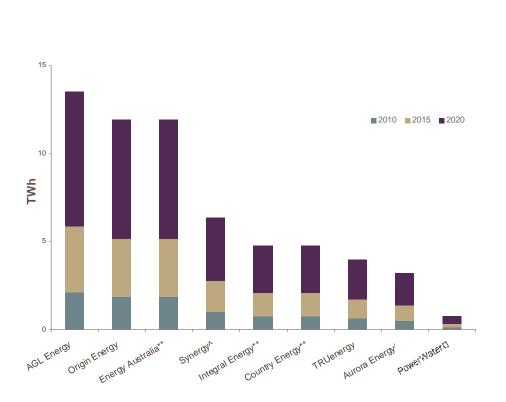
Wind energy expected to increase to >11 GW following implementation of the expanded RET



### Electricity Retailers face incremental RET obligations infigen

Annual RET obligations scaling from 9.5 TWh in 2010 to 45 TWh in 2020 will see retailers expand their RE portfolios

Annual RET Obligations per Liable Retailer: 2010-20201

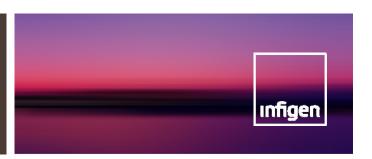


<b>Expected Wind Additions through</b>	h <mark>2020</mark>
--	---------------------

Obligated Retailer	Wind-Derived GWh Obligation per Retailer	Projected GW Wind Demand per Retailer		
AGL Energy	5,355	1.91		
Origin Energy	4,725	1.69		
Energy Australia	4,725	1.69		
Synergy	2,520	0.90		
Integral Energy	1,890	0.67		
Country Energy	1,890	0.67		
TRUenergy	1,575	0.56		
Aurora Energy	1,260	0.45		
PowerWater	315	0.11		
Other	7,245	2.58		
Total	31,500	11.24		

<sup>1.</sup> Represents 77% of retail electricity market, assuming constant share of retail supply, 70% contribution of wind to 2020 RET, with each wind farm operating at 32% capacity factor on average; \*\*Indicates NSW state retailer; ^Indicates WA state retailer; ^Indicates TAS state retailer; +Indicates Northern Territory state retailer Source: Emerging Energy Research, Australian Wind Rebounds October 2009





- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



### High Quality Australian Development Pipeline

### Well diversified with premium locations

#### **Development Pipeline<sup>1</sup>**

Scale: over 1,000 MW
Diversification across 6 states
Target high teens equity returns
Deliverability (approx 200MW pa)
Projects located close to grid



1. Map excludes some key projects & other prospects

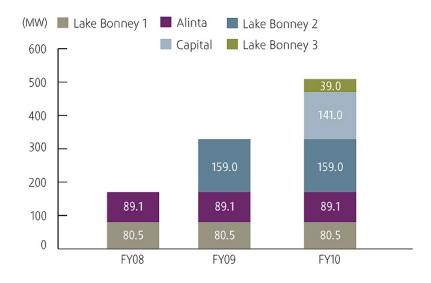
Key Projects	Capacity (MW)	Location	Project Status		
Central NSW – Stage 1	45	NSW	Land arrangements in place		
Glen Innes	54	NSW	DA approved		
Orange	65	NSW	Land arrangements in place & DA progressing		
Lincoln Gap	177	SA	Initial DA received		
Woakwine – Stage 1	120	SA	Land arrangements in place		
Woakwine – Stage 2	120	SA	Land arrangements in place		
Woakwine - Stage 3	180	SA	Land arrangements in place		
Vic 1	35	VIC	Land arrangements in place		
Vic 2	34	VIC	Land arrangements in place		
Walkaway 2	94	WA	DA completed		
WA2 – Stage 1	38	WA	Land arrangements, DA in progress		
WA2 – Stage 2	38	WA	Land agreements being negotiated		
Sub Total	1,000				
Other Prospects	650	NSW, WA,TAS, QI	LD, SA		
Total	1,650				



### Proven Track Record in Australia

### Delivery of Australian projects underpins IFN's prospects

#### Australian Assets<sup>1</sup>

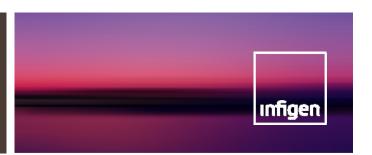


#### **Track Record Highlights**

- Four major Australian projects completed on time and within budget since IPO in 2005
- Capital (141MW): All turbines fully operational
- Lake Bonney Stage 3 (39MW) expected to be commissioned and fully operational by April 2010
- Remaining construction CAPEX of \$89m funded with cash
- Build-contract-finance model achieving superior return outcomes for IFN's business

<sup>1.</sup> Lake Bonney 1 operational since FY05 and Alinta operational since FY06.





- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



### Capital Wind Farm Profile

### First Utility Scale Wind Farm in NSW

Location: 60km NE of Canberra, near Bungendore

**Site:** Covers 35 square kilometres

**Status:** Operational

**Acquisition Date:** December 2007

Installed Capacity: 140.7MW
Net Capacity Factor: 35.8%

Number & Turbine Type: 67 Suzlon S88

**Turbine Rating: 2.1MW** 

Customer / Off- take: Sydney Water 20 year PPA<sup>1</sup>

Land Leases: Long term, with option to extend

**O&M:** 5 year contract with Suzlon

**Grid Operator:** Transgrid

**Grid Connection Voltage:** 330kV

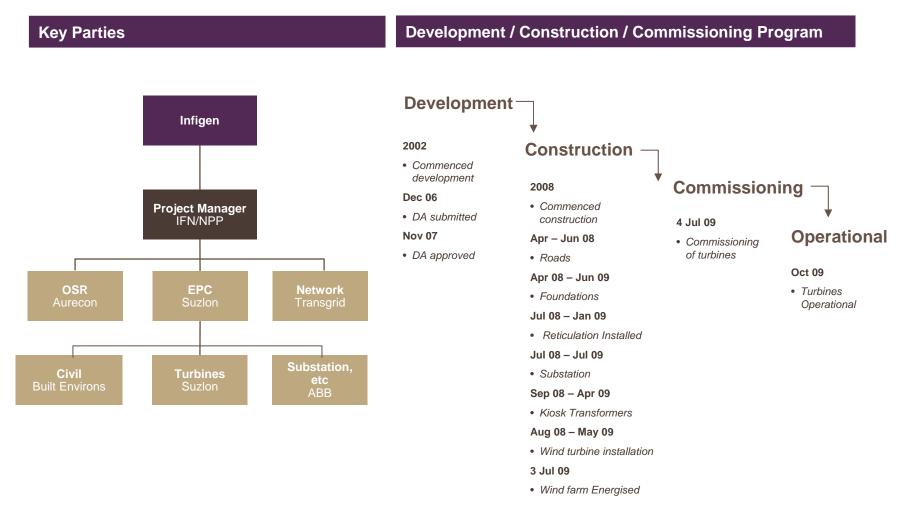
**Interconnection Point:** Substation on site





### Capital Wind Farm Program

#### Construction completed on time and on budget





# Capital Wind Farm – Turbine Foundations

A Rock anchor foundation is approx 7metres in diameter and around 2 metres in height

#### **Key Points**

Foundation type: Rock anchor

Shape: Octagon

Height of foundation: 2.3m Volume of concrete: 93 m<sup>3</sup>

**Quantity of reinforcement:** 11.3T

Concrete type: 40MPa

Tower base: Installed on 160 no. hold down bolts







### Capital Wind Farm – Substation

#### Second connection to transgrid network in 15 years

#### **Key Points**

- First wind farm in NSW connected at 330 KV
- · Substation built on site:
  - Design activities commenced October 2007
  - Construction commenced July 2008
  - Energised 3 July 2009
- Transgrid engineers verified quality throughout design, construction and energisation process
- Minimal disruption of transmission network during energisation
- Substation includes:
  - 2 x 80MVA 330/33kV transformers -Guarantees a firmer supply
  - Fire hydrant system
  - Cut in poles installed under main transmission line







### Capital Wind Farm – Installation

Tower Installation commenced August 2008, with the final rotor lift completed in May 2009

#### **Key Points**

#### **Turbine Installation**

- Comprises of 4 sections
- Base section commences August 08
- Final top section installed May 09
- Rotor Lifts commenced October 08, final lift May 09
- 2 Cranes required during rotor installation
  - -1 x 600 tonne Demag 2800
  - -1 x 160 tonne second crane
- 67 steel turbines
- Hub height: 80 metres
- Rotors diameter: 88 metres
- Start up wind speed 14 km/h (4 m/s)
- Maximum wind power speed 40 km/h (11 m/s)
- Cut-off wind speed 90 km/h (25 m/s)
- Rotor speed15-18 rpm (one rotation every 3-4 sec)
- Blade length 44 Metres
- Blade material: Fibreglass / Epoxy







### Capital Wind Farm – Offtake

### Demonstrates successful implementation of build – contract – finance model

### **Key Points**

**Customer:** Sydney Water & Electricity Retailer **PPA:** 20 year term with CPI escalation clause

#### **Desalination Plant:**

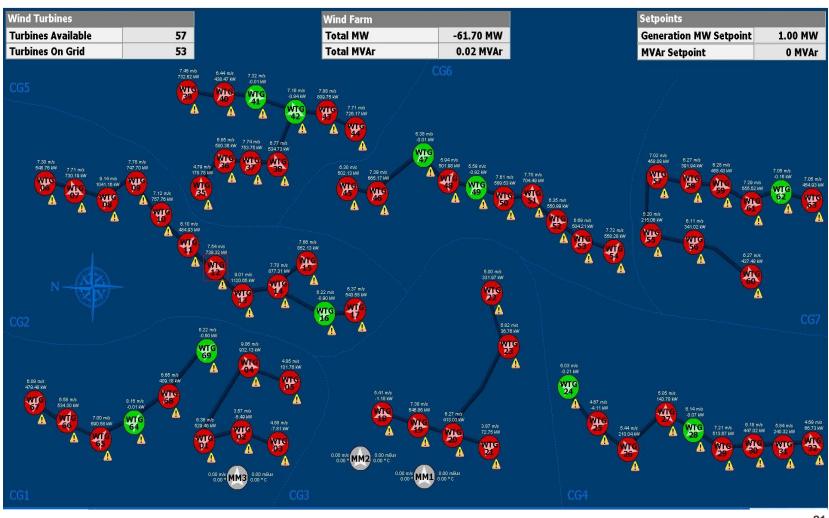
Supply up to 250 million litres of water a day, which is up to 15% of Sydney's water needs



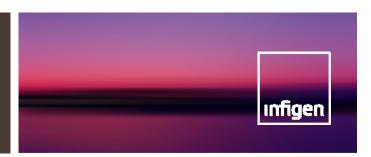


# Wind Farm Overview - Citect SCADA System

### The SCADA control room provides 24/7 monitoring







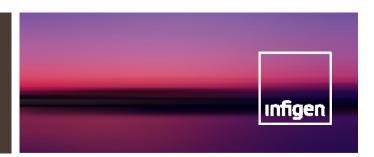
- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



# **Key Conclusions**

INFIGEN	<ul> <li>Leading Australian wind energy business by scale, diversity, quality of operating assets and pipeline</li> <li>Unique long position in renewable energy sustains IFN's competitive advantage and will satisfy a broad customer base</li> <li>Proven track record in Australia and proven development team</li> </ul>
INDUSTRY & MARKET	<ul> <li>Demand for renewable energy in Australia expected to grow strongly under the expanded RET legislation</li> <li>Wind energy expected to contribute significantly to satisfying this scheme</li> <li>Electricity Retailers face increasing RET obligations</li> </ul>
DEVELOPMENT PIPELINE	<ul> <li>Australian development pipeline to drive growth</li> <li>Well diversified with premium locations</li> <li>Target high teens equity returns</li> </ul>
CAPITAL WIND FARM	<ul> <li>High quality asset, first utility scale wind farm in NSW</li> <li>All turbines fully operational</li> <li>Demonstrates successful implementation of build – contract – finance model</li> </ul>





- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



### Questions







- IFN A Renewable Energy Business
- Australian Regulatory and Electricity Market
- Development Pipeline
- Capital Wind Farm
- Key Conclusions
- Questions
- Appendix



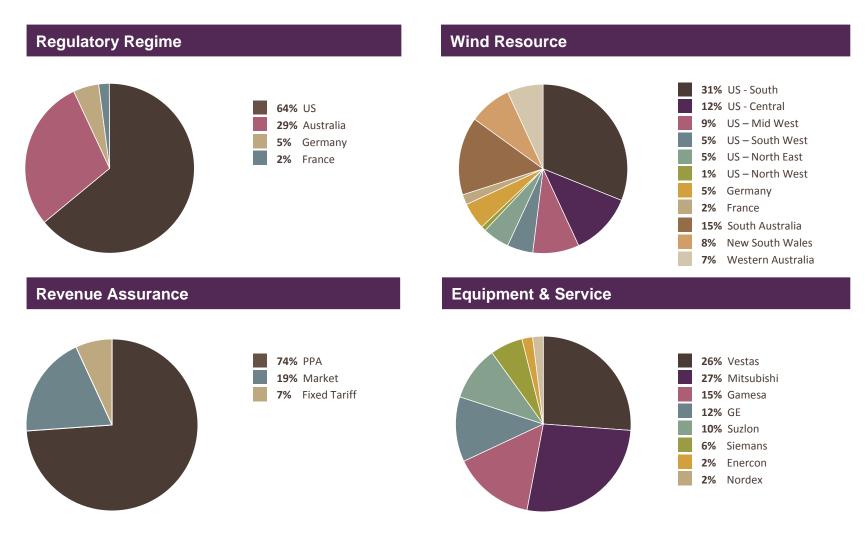
# **Asset Summary**

Country	Wind Region	No. of Wind Farms	Capacity (MW)		No. of Long Term Mean Turbines Energy Production (GWh pa)		y Production	Capacity Factor	Energy Sale <sup>2</sup>
			Total	Ownership <sup>1</sup>		Total	Ownership <sup>1</sup>		
Australia	Western Australia South Australia New South Wales		89.1 278.5 140.7	89.1 278.5 140.7	54 112 67	367 809 443	367 809 443	47% 33% 36%	
Sub Total <sup>3</sup>		5	508.3	508.3	233	1,619	1,619	36%	PPA & Market
Australia - Under	Australia - Under Construction		179.7	179.7	80	561	561	36%	
Germany	Germany	12	128.7	128.7	78	276	276	24%	Fixed
France	France	6	52.0	52.0	26	119	119	26%	Fixed
United States <sup>1</sup>	US – South US – North West US – South West US – North East US – Central US – Mid West		829.6 41.0 88.0 111.5 300.5 186.2	509.4 20.5 88.0 98.7 200.3 172.5	607 41 63 57 274 136	2,908 120 273 331 959 513	1,779 60 273 293 640 470	40% 33% 35% 34% 36% 31%	
Sub Total		18	1,556.7	1,089.4	1,178	5,104	3,515	37%	PPA & Market
Sub Total - Opera	tional	39	2,066.0	1,598.7	1,435	6,557	4,968	35%	
Sub Total – Under	Construction	2	179.7	179.7	80	561	561	36%	
TOTAL		41	2,245.7	1,778.4	1,515	7,118	5,529	35%	

<sup>&</sup>lt;sup>1</sup> Ownership is shown on the basis of active Infigen ownership as represented by the percentage of B Class Member interest.
<sup>2</sup> "PPA": Power Purchase Agreement.
<sup>3</sup> Includes assets under construction



### **High Quality Assets**





### Wind Farm Profile – Alinta

Location: Western Australia

Status: Operational January 2006
Acquisition Date: August 2004
Installed Capacity: 89.1MW
Net Capacity Factor: 47%

Number & Turbine Type: 54 NEG Micon NM82

**Turbine Rating:** 1.65MW

Off- take: 10 & 20 year PPA's

Customers: Alinta & AGL

**Land Leases:** 25 years, option to extend for 5 years

**O&M:** 5 year contract with Vestas **Grid Operator:** Western Power **Grid Connection Voltage:** 132 kV

Interconnection Point: NEG Micon substation





### Wind Farm Profile - Lake Bonney 1

Location: South Australia

Status: Operational March 2005
Acquisition Date: June 2003
Installed Capacity: 80.5MW
Net Capacity Factor: 30.3%

Number & Turbine Type: 46 Vestas V66

**Turbine Rating:** 1.75MW **Off- take:** 10 year PPA

**Customers:** Country Energy

**Land Leases:** 40 year minimum term **O&M:** 5 year contract with Vestas

**Grid Operator:** Electranet

**Grid Connection Voltage:** 132 kV

Interconnection Point: ElectraNet's Snuggery substation





### Wind Farm Profile – Lake Bonney 2

Location: South Australia

**Status:** Operational September 2008 **Acquisition Date:** September 2005

**Installed Capacity:** 159.0MW **Net Capacity Factor:** 34.3%

Number & Turbine Type: 53 Vestas V90

**Turbine Rating: 3.0MW** 

Off- take: Market

**Land Leases:** 40 year minimum term **O&M:** 5 year contract with Vestas

**Grid Operator:** ElectraNet

**Grid Connection Voltage:** 132 kV

**Interconnection Point:** ElectraNet's Snuggery Substation





### Wind Farm Profile - Lake Bonney 3

Location: South Australia

**Status:** Under construction, expected to be operational April

2010

Acquisition Date: January 2009 Installed Capacity: 39.0MW Net Capacity Factor: 34%

Number & Turbine Type: 13 Vestas V90

**Turbine Rating: 3MW** 

Off- take: Market

Land Leases: 40 year minimum term

**Construction:** Vestas

**O&M:** 3 year contract with Vestas

**Grid Operator:** ElectraNet

**Grid Connection Voltage:** 132 kV

Interconnection Point: ElectraNet's Snuggery Substation



# ınfigen

### Disclaimer

This publication is issued by Infigen Energy Limited ("IEL"), Infigen Energy (Bermuda) Limited ("IEBL") and Infigen Energy Trust ("IET"), with Infigen Energy RE Limited ("IERL") as responsible entity of IET (collectively "Infigen"). Infigen and its related entities, directors, officers and employees (collectively "Infigen Entities") do not accept, and expressly disclaim, any liability whatsoever (including for negligence) for any loss howsoever arising from any use of this publication or its contents. This publication is not intended to constitute legal, tax or accounting advice or opinion. No representation or warranty, expressed or implied, is made as to the accuracy, completeness or thoroughness of the content of the information. The recipient should consult with its own legal, tax or accounting advisers as to the accuracy and application of the information contained herein and should conduct its own due diligence and other enquiries in relation to such information.

The information in this presentation has not been independently verified by the Infigen Entities. The Infigen Entities disclaim any responsibility for any errors or omissions in such information, including the financial calculations, projections and forecasts. No representation or warranty is made by or on behalf of the Infigen Entities that any projection, forecast, calculation, forward-looking statement, assumption or estimate contained in this presentation should or will be achieved. None of the Infigen Entities guarantee the performance of Infigen, the repayment of capital or a particular rate of return on Infigen Stapled Securities.

IEL and IEBL are not licensed to provide financial product advice. This publication is for general information only and does not constitute financial product advice, including personal financial product advice, or an offer, invitation or recommendation in respect of securities, by IEL, IEBL or any other Infigen Entities. Please note that, in providing this presentation, the Infigen Entities have not considered the objectives, financial position or needs of the recipient. The recipient should obtain and rely on its own professional advice from its tax, legal, accounting and other professional advisers in respect of the recipient's objectives, financial position or needs.

This presentation does not carry any right of publication. Neither this presentation nor any of its contents may be reproduced or used for any other purpose without the prior written consent of the Infigen Entities.

#### **IMPORTANT NOTICE**

Nothing in this presentation should be construed as either an offer to sell or a solicitation of an offer to buy Infigen securities in the United States or any other jurisdiction.

Securities may not be offered or sold in the United States or to, or for the account or benefit of, US persons (as such term is defined in Regulation S under the US Securities Act of 1933) unless they are registered under the Securities Act or exempt from registration.