

Infigen Energy (ASX: IFN)

Management Discussion and Analysis of Financial and Operational Performance for the six months ended 31 December 2016

**22 February 2017** 

All figures in this report relate to businesses of the Infigen Energy Group ("Infigen" or "the Group"), being Infigen Energy Limited ("IEL"), Infigen Energy Trust ("IET") and Infigen Energy (Bermuda) Limited ("IEBL") and the subsidiary entities of IEL and IET, for the six months ended 31 December 2016 (H1 FY17) compared with the six months ended 31 December 2015 ("prior year" or "prior corresponding period") except where otherwise stated.

All references to \$ are a reference to Australian dollars unless specifically marked otherwise. Individual items and totals are rounded to the nearest appropriate number or decimal. Some totals may not add down the column due to rounding of individual components. Period on period changes on a percentage basis are presented as favourable (positive) or unfavourable (negative). Period on period changes to items measured on a percentage basis are presented as percentage point changes ("ppts"). Period on period changes that are not comparable are marked not meaningful ("n.m.").

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#### **COMPANY OVERVIEW**

Infigen Energy (Infigen) is an active participant in the Australian energy market. It is a developer, owner and operator of renewable energy generation assets delivering energy solutions to Australian businesses and large retailers.

Infigen owns 557 megawatts (MW) of installed capacity operating in New South Wales (NSW), South Australia (SA) and Western Australia (WA).

Infigen sells the energy and Large-scale Generation Certificates (LGCs) through a combination of medium and long term contracts and through the spot market. Each wind and solar farm is entitled to create one LGC for each megawatt hour (MWh) that is exported to the grid after applying its marginal loss factor.

Of Infigen's six operational wind farms, approximately 45-50%<sup>1</sup> of the production from these wind farms (electricity and LGCs) is currently contracted under medium and long-term agreements. Further details of the offtake agreements for Infigen's wind farms are included in Appendix B.

Infigen's development pipeline comprises equity interests of approximately 1,300 MW of large-scale wind and solar PV projects (86% of which have planning approval) in Australia. Further details of the development pipeline are included in Appendix C.

### H1 FY17 Highlights

- Safety: rolling 12-month lost time injury frequency rate (LTIFR) of zero
- Production: 889 GWh, up 18% on prior corresponding period
- **EBITDA:** \$84.0 million, up \$26.0 million or 45% on pcp
- Substantial deleveraging: repaid \$34.6 million of Global Facility borrowings and
   \$2.7 million of Woodlawn facility borrowings
- Net operating cash flow: \$33.0 million, up \$22.1 million or 203% on pcp
- Net profit after tax: \$21.4 million, up \$23.6 million
- Growth and development: progressing towards a final investment decision for the Bodangora wind farm project

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<sup>&</sup>lt;sup>1</sup> Merchant LGC exposure varies based on the Sydney Desalination Plant's operating regime.

## **Key Financial Outcomes**

# Summary of the key financial outcomes and metrics

The prior corresponding period (pcp) comparisons are reported on a continuing operations basis.

| Six months ended 31 December (\$M unless otherwise indicated) | 2016   | 2015   | Change % |
|---|--------|--------|----------|
| Revenue   | 115.4  | 83.4   | 38       |
| EBITDA  | 84.0   | 58.0   | 45       |
| Depreciation and amortisation                                 | (26.0) | (25.9) | -        |
| EBIT  | 58.0   | 32.0   | 81       |
| Net financing costs   | (26.6) | (31.5) | 16       |
| Profit before tax   | 31.4   | 0.5    | n.m.     |
| Tax expense   | (10.0) | (3.1)  | (223)    |
| Profit from discontinued operations                           | -      | 0.4    | n.m.     |
| Net profit / (loss) from continuing operations                | 21.4   | (2.6)  | n.m.     |
| Net profit / (loss) after tax                                 | 21.4   | (2.2)  | n.m.     |
|   |        |        |          |
| EBITDA margin   | 72.8%  | 69.5%  | 3.3 ppts |
| Net operating cash flow per security (cps)                    | 4.2    | 1.4    | 200      |
| Earnings per security (cps) <sup>2</sup>                      | 2.7    | (0.3)  | n.m.     |

| Position at (\$M unless otherwise indicated) | 31 Dec 2016 | 30 Jun 2016 | Change % |
|--|-------------|-------------|----------|
| Debt   | 710         | 742         | 4        |
| Cash   | 145         | 148         | (2)      |
| Net debt                                     | 565         | 595         | 5        |
| Securityholders' equity                      | 319         | 281         | 14       |
| Book gearing                                 | 63.9%       | 68.0%       | 4.1 ppts |
| EBITDA / (net debt + equity) <sup>3</sup>    | 16.5%       | 13.7%       | 2.8 ppts |
| Net assets per security (\$)                 | 0.41        | 0.36        | 14       |
| Net tangible assets per security (\$)        | 0.25        | 0.20        | 25       |

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 $<sup>^2</sup>$  Calculated using weighted average issued securities for the stapled securityholders.  $^3$  Calculated on a 12-month lookback basis.

#### **WORK HEALTH AND SAFETY**

| Measured on a rolling 12-month basis As at 31 December <sup>4</sup> | 2016 | 2015 | Change % |
|---|------|------|----------|
| Total recordable injury frequency rate (TRIFR)                      | 4.8  | 4.7  | (2)      |
| Lost time injury frequency rate (LTIFR)                             | -    | -    | -        |
| Lost time injuries (LTI)  | -    | -    | -        |

Infigen's first priority is the safety of our people and the communities in which we operate. Our goal is zero harm: zero lost time incidents and injuries. Lake Bonney and Alinta wind farms are tracking towards the tenth consecutive year with zero LTIs.

TRIFR increased from 4.7 to 4.8. which represents one medical treatment injury in the current period. Infigen's LTIFR and rate of LTIs were zero as at 31 December 2016 which remains the same as the pcp. Our work, health and safety approach includes an on-going focus on improvement strategies and collaborative team work, regular training, "toolbox talks" and safety meetings with our contractors.

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<sup>&</sup>lt;sup>4</sup> Infigen's safety incident performance rates are measured on a rolling 12-month basis in accordance with Australian standards. TRIFR is calculated as the number of lost time injuries and applicable medical treatment incidents multiplied by 1,000,000 divided by total hours worked; and LTIFR is calculated as the number of lost time injuries multiplied by 1,000,000 divided by total hours worked. Infigen includes contractor hours in its rate calculations.

## REVIEW OF FINANCIAL AND OPERATIONAL PERFORMANCE

| Six months ended 31 December (\$M unless otherwise indicated) | 2016   | 2015   | Change %   |
|---|--------|--------|------------|
| Operating capacity (MW)                                       | 557    | 557    | -          |
| Production <sup>5</sup> (GWh)                                 | 889    | 754    | 18         |
| Capacity factor   | 36.2%  | 30.7%  | 5.5 ppts   |
| Turbine availability  | 96.7%  | 97.8%  | (1.1) ppts |
| Site availability   | 96.6%  | 97.4%  | (0.8) ppts |
| Total recordable injury frequency rate (TRIFR)                | 4.8    | 4.7    | (2)        |
| Lost time injury frequency rate (LTIFR)                       | -      | -      | -          |
| Lost time injuries (LTIs)                                     | -      | -      | -          |
| Revenue   | 115.4  | 83.4   | 38         |
| Operating costs   | (21.1) | (18.3) | (15)       |
| Operating EBITDA  | 94.3   | 65.0   | 45         |
| Corporate costs   | (8.9)  | (6.4)  | (39)       |
| Development costs   | (1.5)  | (0.6)  | (150)      |
| EBITDA  | 84.0   | 58.0   | 45         |
| Depreciation and amortisation                                 | (26.0) | (25.9) | -          |
| EBIT  | 58.0   | 32.0   | 81         |
| Net borrowing costs   | (25.4) | (27.3) | 7          |
| Net FX and revaluation of derivatives                         | (1.2)  | (4.2)  | 71         |
| Profit / (loss) before tax                                    | 31.4   | 0.5    | n.m.       |
| Tax expense   | (10.0) | (3.1)  | (223)      |
| Profit from discontinued operations                           | -      | 0.4    | n.m.       |
| Net profit / (loss) after tax                                 | 21.4   | (2.2)  | n.m.       |
| Operating EBITDA margin                                       | 81.7%  | 78.1%  | 3.6 ppts   |
| Average price (\$/MWh)  | 129.8  | 110.6  | 3.0 ppts   |
| Operating costs (\$/MWh)                                      | 23.7   | 24.3   | 2          |

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 $<sup>^{\</sup>rm 5}$  Production includes compensated production of 4 GWh in H1 FY17.

#### **Production**

| Six months ended 31 December (GWh)  | 2016 | 2015 | Change % |
|-------------------------------------|------|------|----------|
| Alinta wind farm                    | 180  | 163  | 10       |
| Capital wind farm                   | 216  | 181  | 19       |
| Lake Bonney 1, 2 & 3 wind farms     | 400  | 336  | 19       |
| Woodlawn wind farm                  | 90   | 75   | 20       |
| Compensated production <sup>6</sup> | 4    | -    | n.m.     |
| Total production                    | 889  | 754  | 18       |

Production increased 18% or 135 GWh to 889 GWh due to improved wind conditions across all sites (+152 GWh), compensated production (+4 GWh) and reduction in balance of plant losses at Lake Bonney (+3 GWh). This was partially offset by reduced turbine availability, mostly at Capital and Lake Bonney wind farms due to maintenance work and high wind speeds (-17 GWh), and reduced network availability at Lake Bonney mostly due to the September 2016 black system event in South Australia (-7 GWh).

#### **Prices**

The weighted average portfolio bundled (electricity and LGCs) price was \$129.8/MWh, 17% higher than \$110.6/MWh in the pcp reflecting higher merchant electricity prices in SA and in NSW, and higher LGC prices.

### **Electricity**

| TWA wholesale electricity (\$/MWh) | H1 FY17 | H1 FY16 | 10 year average |
|------------------------------------|---------|---------|-----------------|
| South Australia                    | 96.03   | 58.39   | 55.62           |
| New South Wales                    | 58.10   | 43.43   | 45.77           |
| Western Australia <sup>7</sup>     | 55.88   | 46.07   | 53.95           |

Source: NemSight

Time weighted average (TWA) spot electricity prices in SA and NSW were 64% and 34% higher respectively than the pcp due to retirement of the Northern power station in SA, limitations on the SA-VIC Heywood interconnector flows, and periods of above-average daily maximum temperatures in NSW and QLD.

| Infigen's DWA wholesale electricity (\$/MWh) | H1 FY17 | H1 FY16 | Change % |
|--|---------|---------|----------|
| SA (Lake Bonney)                             | 71.90   | 47.04   | 53       |
| NSW (Woodlawn)                               | 53.33   | 42.55   | 25       |

Infigen's dispatch weighted average (DWA)<sup>8</sup> electricity prices increased 53% to \$71.90/MWh in SA and 25% to \$53.33/MWh in NSW. Lake Bonney wind farm DWA prices were 25% below the SA TWA prices, and Woodlawn wind farm's DWA prices were 8% below NSW TWA prices.

Average spot prices in the National Electricity Market can be significantly influenced by extreme price events. Wholesale electricity spot prices can vary between the market price floor of -\$1,000/MWh and the market price cap of \$14,000/MWh. During the period there were 288 half-hourly settlement intervals above \$300/MWh in SA and 12 in NSW compared to 70 in SA and 6 in NSW in the pcp. There were 253 negative price events in SA and none in NSW compared to 149 in SA and one NSW in the pcp.

<sup>&</sup>lt;sup>6</sup> Compensated production relates to business interruption and liquidated damages under service and maintenance agreements.

<sup>&</sup>lt;sup>7</sup> Data from the Wholesale Electricity Market of WA dates back to September 2006; Alinta wind farm in Western Australia will not become exposed to merchant electricity prices until 2026.

<sup>&</sup>lt;sup>8</sup> Calculated as electricity revenue divided by production sold.

### Large-scale Generation Certificates (LGCs)

| LGC spot price<br>(\$/LGC) | 31 December 2016 | 31 December 2015 | Change % |
|----------------------------|------------------|------------------|----------|
| Closing price              | 86.90            | 72.90            | 19       |
| Six month average price    | 87.28            | 61.34            | 42       |

Source: GFI Broker Report

The closing LGC market price at 31 December 2016 was up 19% to \$86.90/LGC, and the sixmonth average LGC market price was up 42% to \$87.28/LGC compared with the pcp. Growing market expectation of a shortfall in LGC supply has resulted in continued incremental strengthening in LGC spot prices and near-term forward prices. There is a charge to liable parties for non-compliance under the Large-scale Renewable Energy Target legislation.

Infigen's LGC inventory at 31 December 2016 was approximately 579,000 certificates (477,000 in the pcp). The increase was primarily due to strong production in November and December of 2016 and forward sales commitments. The value of inventory at 31 December 2016 was \$43.5 million (\$26.8 million in the pcp) due to an increased volume and LGCs being brought to account at higher average LGC spot prices.

#### Revenue

Revenue increased \$32.0 million or 38% to \$115.4 million as a result of higher production (+\$10.9 million), higher electricity prices (+\$10.0 million), higher LGC prices (+\$9.8 million) and compensated and other revenue (+\$1.4 million).

### Marginal Loss Factors

| Year ended 30 June (MLF)        | 2017   | 2016   | Change % |
|---------------------------------|--------|--------|----------|
| Alinta wind farm                | 0.9519 | 0.9384 | 1        |
| Capital and Woodlawn wind farms | 0.9931 | 0.9748 | 2        |
| Lake Bonney 1, 2 & 3 wind farms | 0.8768 | 0.9352 | (6)      |

Source: AEMO

| Six months ended 31 December (GWh) | 2016 | 2015 | Change % |
|------------------------------------|------|------|----------|
| Alinta wind farm                   | 180  | 163  | 11       |
| Capital wind farm                  | 214  | 176  | 22       |
| Lake Bonney 1, 2 & 3 wind farms    | 351  | 314  | 12       |
| Woodlawn wind farm                 | 89   | 73   | 22       |
| Total production sold              | 834  | 726  | 15       |

Marginal loss factors (MLFs) had a more adverse impact on "production sold" compared to the pcp (-23 GWh).

<sup>&</sup>lt;sup>9</sup> As electricity flows through the transmission and distribution networks, energy is lost due to electrical resistance and the heating of conductors. Marginal loss factors (MLF) are calculations fixed annually by the Australian Energy Market Operator (AEMO) to account for the impact of network losses on spot prices.

### **Operating, Corporate and Development Costs**

### Operating Costs

| Six months ended 31 December (\$M) | 2016 | 2015 | Change | Change % |
|------------------------------------|------|------|--------|----------|
| Asset management                   | 3.1  | 3.2  | 0.1    | 3        |
| FCAS fees <sup>10</sup>            | 1.6  | 1.7  | 0.1    | 6        |
| Turbine O&M                        | 11.3 | 8.8  | (2.5)  | (28)     |
| Balance of plant                   | 0.3  | 0.3  | -      | -        |
| Other direct costs                 | 3.5  | 3.5  | -      | -        |
| Total wind farm costs              | 19.7 | 17.5 | (2.2)  | (13)     |
| Energy Markets                     | 1.2  | 0.9  | (0.3)  | (33)     |
| Operating costs                    | 21.1 | 18.3 | (2.8)  | (15)     |

Higher turbine operations and maintenance (O&M) expenses were due to increased production-linked incentive payments (+\$2.1 million), more than offset by higher revenue. Other variances in wind farm costs reflected a post-warranty step-up in costs at the Woodlawn wind farm (+\$0.4 million) and FCAS fees (-\$0.1 million) that were incurred mostly as a result of increased imposition of security measures by AEMO and reduction in FCAS capacity made available in South Australia, partially offset by a hedge benefit.

Operating Earnings Before Interest, Tax, Depreciation and Amortisation (**Operating EBITDA**) was \$94.3 million, up 45% or \$29.3 million. This was due to higher revenue, partially offset by higher operating costs.

**Corporate costs** were \$8.9 million, up 39% or \$2.5 million due to a number of one-off personnel expenses, and costs associated with undertaking corporate and strategic projects.

**Development costs** were \$1.5 million, up 150% or \$0.9 million due to costs associated with enhancing development capability and increased activity on development opportunities, with a focus on the Bodangora wind farm development project.

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<sup>10</sup> Frequency control ancillary services (FCAS) fees relate to services that maintain key technical characteristics of the power system.

#### **PROFIT AND LOSS**

**EBITDA** was \$84.0 million, up 45% or \$26.0 million reflecting higher revenue, partially offset by higher operating, corporate and development costs.

Depreciation and amortisation expense of \$26.0 million was in line with the pcp.

Earnings Before Interest and Tax (**EBIT**) was \$58.0 million, up 81% or \$26.0 million.

### Financing Costs

| Six months ended 31 December (\$M)       | 2016   | 2015   | Change % |
|--|--------|--------|----------|
| Interest expense                         | (24.6) | (26.4) | 7        |
| Bank fees and amortisation of loan costs | (1.1)  | (1.2)  | 8        |
| Amortisation of decommissioning costs    | (0.1)  | (0.1)  | -        |
| Total borrowing costs                    | (25.7) | (27.6) | 7        |
| Interest income                          | 0.4    | 0.3    | 33       |
| Net borrowing costs                      | (25.4) | (27.3) | 7        |
| Net FX and revaluation of derivatives    | (1.2)  | (4.2)  | 71       |
| Net financing costs                      | (26.6) | (31.5) | 16       |

**Net borrowing costs** were \$25.4 million, down \$1.9 million due to lower interest expense resulting primarily from a lower debt balance (-\$1.8 million), lower bank fees (-\$0.1 million), and higher interest income (+\$0.1 million).

**Net FX and revaluation of derivatives** resulted in a \$1.2 million expense, up \$3.0 million due to more stable FX and interest rates in the period.

**Profit before tax** was \$31.4 million, a \$30.9 million favourable variance to the pcp due to a favourable operating result and lower financing costs.

**Income tax expense** of \$10.0 million was \$6.9 million higher than the \$3.1 million in the pcp due to higher underlying profit.

Infigen reported a **net profit after tax** of \$21.4 million, a favourable variance of \$23.6 million to the pcp.

#### **CASH FLOW**

#### **Cash Movement**

Cash at 31 December 2016 was \$144.7 million, 2% or \$2.9 million lower than at 30 June 2016.

Cash inflows included operating cash flow of \$33.0 million and a favourable FX movement of \$3.1 million on cash balances held in USD and EUR.

Other cash movements included \$37.3 million for debt repayments (refer to Debt section on page 12) and \$1.7 million for capital expenditure on development assets and wind farm property, plant and equipment.

## **Operating Cash Flow**

| Six months ended 31 December (\$M) | 2016   | 2015   | Change % |
|------------------------------------|--------|--------|----------|
| Operating EBITDA                   | 94.3   | 65.0   | 45       |
| Corporate and development costs    | (10.4) | (7.0)  | (49)     |
| Movement in LGC inventory          | (22.9) | (14.1) | (62)     |
| Movement in other working capital  | (3.5)  | (5.7)  | 39       |
| Financing costs and taxes paid     | (24.6) | (27.3) | 10       |
| Net operating cash flow            | 33.0   | 10.9   | 203      |

Net operating cash flow was up \$22.1 million from \$10.9 million due to higher operating EBITDA (+\$29.3 million), lower financing costs (+\$2.7 million) and lower movement in working capital (+\$2.2 million), partially offset by an unfavourable movement in LGC inventory (-\$8.8 million), and higher corporate and development costs (-\$3.4 million).

### **Distributions**

No distributions have been declared for the six months ended 31 December 2016.

#### **CAPITAL STRUCTURE**

#### Debt

Total debt (including capitalised loan costs<sup>11</sup>) at 31 December 2016 was \$709.9 million comprising Global Facility borrowings of \$677.1 million and Woodlawn facility borrowings of \$37.2 million. This was \$32.6 million lower than the pcp. During the six months Infigen repaid \$34.6 million of Global Facility borrowings and \$2.7 million of Woodlawn facility borrowings. The depreciation of the AUD against the USD resulted in a \$4.6 million unfavourable FX movement on foreign currency denominated borrowings.

The Global Facility is a multi-currency facility with outstanding USD, EUR and AUD balances. The outstanding balances at 31 December 2016 were US\$97.2 million, EUR7.7 million and AUD \$531.0 million. At 31 December 2016, Infigen held foreign currency cash balances of US\$75.2 million and EUR12.3 million.

The Global Facility leverage ratio covenant was satisfied at 31 December 2016 (i.e. less than 6.0 times). Infigen expects to continue to satisfy the Global Facility leverage ratio covenant in conformity with the terms of the facility (i.e. less than 6.0 times from 31 December 2016 until the next step-down from July 2019).

In reviewing its corporate structure Infigen has concluded that various restrictive covenants under the Global Facility apply to the activities of the Infigen Energy Trust. This differs from the prior understanding and corresponding disclosure. For further information refer to page 1 (Corporate Structure) of the Interim Financial reports for the half-year ended 31 December 2016.

#### **Net Debt**

Net debt decreased from \$594.9 million at 30 June 2016 to \$565.2 million at 31 December 2016. The net movement of \$29.7 million was due to debt repayments and lower cash balance.

### **Equity**

Total equity increased 14% from \$280.6 million at 30 June 2016 to \$318.9 million at 31 December 2016. The increase of \$38.3 million is attributable to:

- Net profit for the half year (+\$21.4 million)
- Movement in reserves (+\$9.6 million)
- Movement in issue of equity securities (+\$7.3 million)

During the six months the number of securities on issue increased by 8,108,219 to 780,577,365. The securities were issued to satisfy vested Performance Rights in accordance with the Infigen Energy Equity Plan.

### Gearing

The following table provides a comparison of Infigen's book gearing at 30 June 2016 and 31 December 2016. A summarised balance sheet is provided in Appendix A.

| Position at<br>(\$M) | 31 Dec 2016 | 30 June 2016 | Change % |
|----------------------|-------------|--------------|----------|
| Net debt             | 565         | 595          | (5)      |
| Total equity         | 319         | 281          | 14       |
| Book gearing         | 64%         | 68%          | 4 ppts   |

<sup>&</sup>lt;sup>11</sup> Capitalised loan costs accounted for \$4.4 million as at 31 December 2016 and \$5.1 million as at 30 June 2016.

#### **DEVELOPMENT**

Infigen's development pipeline comprises equity interests of approximately 1,300 MW of large-scale wind and solar PV projects (86% of which have planning approval) in Australia. Details of the projects are included in Appendix C.

Projects in Infigen's development pipeline can be tailored to combine different elements of risk and returns; geography and market; and project size and technology. During the period Infigen continued to pursue opportunities to supply renewable energy through procurement processes and bilateral discussions.

Substantial progress has been made on advancing the Bodangora wind farm development project and positioning it for a final investment decision.

Infigen also expanded its prospecting activities and added approximately 200 MW of solar projects in early stages in the Northern Territory and Queensland.

# **APPENDIX A – BALANCE SHEET**

| Position at (\$M)                    | 31 Dec 2016 | 30 Jun 2016 |
|--------------------------------------|-------------|-------------|
| Cash                                 | 144.7       | 147.6       |
| Receivables                          | 18.5        | 24.1        |
| Inventory of LGCs                    | 43.5        | 20.6        |
| Property, plant and equipment        | 760.7       | 783.8       |
| Goodwill and intangible assets       | 121.3       | 122.7       |
| Investments in associates            | 1.4         | 1.3         |
| Deferred tax assets and other assets | 33.0        | 52.4        |
| Total assets                         | 1,123.1     | 1,152.5     |
|                                      |             |             |
| Payables                             | 9.2         | 17.4        |
| Provisions                           | 9.7         | 11.3        |
| Borrowings                           | 709.9       | 742.5       |
| Derivative liabilities               | 75.5        | 100.8       |
| Total liabilities                    | 804.2       | 872.0       |
| Net assets                           | 318.9       | 280.6       |

| Foreign exchange rates | 31 Dec 2016 | 30 Jun 2016 | Change % |
|------------------------|-------------|-------------|----------|
| AUD:USD (closing rate) | 0.7208      | 0.7457      | (3)      |
| AUD:EUR (closing rate) | 0.6843      | 0.6724      | 2        |

### **APPENDIX B - OPERATIONAL ASSETS**

| Asset                   | State | Commercial<br>operation<br>date | Nameplate<br>capacity<br>(MW) | H1 FY17<br>average<br>output <sup>12</sup> | FY17<br>marginal<br>loss factor <sup>13</sup> | O&M services<br>agreement end<br>date    | Power contracted | LGCs<br>contracted    | Power/LGC contract end date      | Customer   |
|-------------------------|-------|---------------------------------|-------------------------------|--|---|--|------------------|-----------------------|----------------------------------|--|
| Alinta<br>wind farm     | WA    | Jul 2006                        | 89.1                          | 46%  | 0.9519  | Post-warranty:<br>Dec 2017               | 100%             | 100%                  | Power: Dec 2026<br>LGC: Jan 2021 | Power: Alinta Energy<br>LGC: Alinta Energy & AGL |
| Capital wind farm       | NSW   | Jan 2010                        | 140.7                         | 35%  | 0.9931  | Post-warranty:<br>Dec 2017 <sup>14</sup> | 90-100%          | 50-100% <sup>15</sup> | Power & LGC: Dec<br>2030         | SDP & merchant                                   |
| Lake Bonney 1 wind farm | SA    | Mar 2005                        | 80.5                          | 32%  | 0.8768  | Post-warranty:<br>Dec 2017               | -                | -                     | -                                | Merchant   |
| Lake Bonney 2 wind farm | SA    | Sep 2008                        | 159.0                         | 33%  | 0.8768  | Post-warranty:<br>Dec 2017               | -                | -                     | -                                | Merchant   |
| Lake Bonney 3 wind farm | SA    | Jul 2010                        | 39.0                          | 34%  | 0.8768  | Post-warranty:<br>Dec 2017               | 100%             | -                     | Power: Dec 2018                  | Power: Alinta Energy<br>LGC: merchant            |
| Woodlawn<br>wind farm   | NSW   | Oct 2011                        | 48.3                          | 42%  | 0.9931  | Post-warranty:<br>Dec 2017 <sup>14</sup> | -                | 100%                  | LGC: Sep 2020                    | Power: merchant<br>LGC: Origin Energy            |
| Total                   |       |                                 | 556.7                         | 36%  |   |  |                  |                       |                                  |  |

Average percentage of nameplate capacity.
 Australian Energy Market Operator (AEMO) published annual marginal loss factors (available at http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-reliability/-/media/EC6AF881593F4DB7B10F6286F3AD1004.ashx).

<sup>&</sup>lt;sup>14</sup> Infigen has option to extend to December 2022.

<sup>&</sup>lt;sup>15</sup> Effectively all output is contracted when Sydney Desalination Plant (SDP) is operating. Approximately 50% of LGCs are sold on a merchant basis when the plant is not operating.

## **APPENDIX C - DEVELOPMENT PIPELINE**

| Development project                 | State /<br>Territory | Capacity (MW) | Planning status | Approval date | Connection status |
|-------------------------------------|----------------------|---------------|-----------------|---------------|-------------------|
| Batchelor solar farm                | NT                   | 10            | In progress     | N/A           | Intermediate      |
| Bluff solar farm                    | QLD                  | ~100          | In progress     | N/A           | Intermediate      |
| Bodangora wind farm <sup>16</sup>   | NSW                  | ~113          | Approved        | Aug 2013      | Advanced          |
| Bogan River solar farm              | NSW                  | 12            | Approved        | Dec 2010      | Intermediate      |
| Bowen solar farm                    | QLD                  | 30-40         | In progress     | N/A           | Intermediate      |
| Capital solar farm                  | NSW                  | 50            | Approved        | Dec 2010      | Offer received    |
| Capital 2 wind farm                 | NSW                  | 90-100        | Approved        | Nov 2011      | Offer received    |
| Cherry Tree wind farm               | VIC                  | 45-55         | Approved        | Nov 2013      | Advanced          |
| Cloncurry solar farm                | QLD                  | 30            | In progress     | N/A           | Early             |
| Flyers Creek wind farm              | NSW                  | 100-115       | Approved        | Mar 2014      | Intermediate      |
| Forsayth wind farm <sup>16</sup>    | QLD                  | ~70           | Approved        | Feb 2014      | Advanced          |
| Manildra solar farm <sup>17</sup>   | NSW                  | 40-50         | Approved        | Mar 2011      | Advanced          |
| Manton Dam solar farm               | NT                   | 12            | In progress     | N/A           | Intermediate      |
| Mt Benson wind farm                 | SA                   | 150           | Approved        | Jun 2012      | Early             |
| Walkaway 2 wind farm <sup>18</sup>  | WA                   | 41            | Approved        | Dec 2008      | Intermediate      |
| Walkaway 2 solar farm <sup>18</sup> | WA                   | 45            | Approved        | July 2016     | Intermediate      |
| Walkaway 3 wind farm <sup>18</sup>  | WA                   | ~310          | Approved        | Dec 2008      | Early             |
| Woakwine wind farm                  | SA                   | ~300          | Approved        | Jun 2012      | Intermediate      |
| Total (Infigen equity interests)    |                      | ~1,300        |                 |               |                   |

<sup>&</sup>lt;sup>16</sup> Infigen has a 50% equity interest.

<sup>17</sup> Infigen entered into a letter of intent regarding co-development and potential sale of the Manildra solar development project. Infigen expects to receive a \$4 million profit from the sale of the project.

<sup>18</sup> Infigen has a 32% equity interest.