

ANNUAL REPORT 2013

2014



Australian Renewable Energy Agency

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LETTER OF TRANSMITTAL



ARENA

OFFICE OF THE CHAIR

2 October 2014

The Hon Ian Macfarlane MP Minister for Industry PO Box 6022 Parliament House CANBERRA ACT 2600 GPO Box 643 Canberra ACT 2601 Tel: +61 2 6276 1000 ABN: 35931927899 www.arena.gov.au

Dear Minister

I am pleased to present to you the annual report of the Australian Renewable Energy Agency (ARENA) for the financial year 2013-14, in accordance with the requirements of the *Australian Renewable Energy Agency Act 2011* and the *Commonwealth Authorities and Companies Act 1997* (CAC Act).

Under section 9 of the CAC Act, the agency's directors must prepare the annual report of operations in accordance with the Commonwealth Authorities (Annual Reporting) Orders 2011 (Finance Minister's Orders). I note that, from 1 July 2014, ARENA is subject to the *Public Governance, Performance and Accountability Act 2013.*

The ARENA Annual Report 2013-14 details how ARENA is achieving our objectives to improve the cost competitiveness of renewable energy technologies and supply of renewable energy in Australia. The report was approved by a resolution of ARENA's Board of Directors on 2 October 2014.

Yours sincerely,

Greg Bourne

Chair

2 October 2014



REPORTS FROM THE CHAIR AND CEO



ARENA OVERVIEW



GOVERNANCE AND OPERATIONAL PERFORMANCE



PROGRAM PERFORMANCE



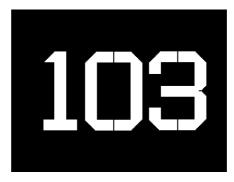
OTHER REPORTABLE MATTERS



APPENDICES



FINANCIAL STATEMENTS



REFERENCES

REPORTS FROM THE CHAIR AND CEO

CREATING OPTIONS PERCY INFRASTRUCTURE
SHARING
WORLD
SKILLS FOR THE NEW JOBS FIRSTS
FUTURE

REPORT FROM THE CHAIR

I am pleased to present ARENA's second Annual Report, covering the 2013-14 financial year.

ARENA continues to be focused on helping to catalyse change in Australia's energy landscape and advance world-leading renewable energy technologies.

The idea that renewable energy has an important part to play in the world's energy mix has gained traction over the past few decades. This shift has seen ARENA well positioned to invest in projects that help make renewable solutions more affordable and increase the amount of renewable energy used in Australia.

There is still much to be done to achieve the diversity of supply that will deliver Australians – on and off the electricity grid – with more affordable, reliable and secure power sources.

ARENA is focused on building the infrastructure that will deliver this future energy supply. The agency has a wealth of experience to draw upon in fostering the development of new renewable energy technologies, and a commercially-oriented Board that is also technically savvy.

Our role is to set up the pre-conditions needed for a cascade of change to occur. These include de-risking or making projects more attractive to investors by reducing their perceived risk. They also involve finding solutions for barriers to development so that the next generation of renewable energy technologies can be accelerated towards commercialisation.

ARENA uniquely supports projects along the commercialisation pathway, from the laboratory workbench through to precommercial deployment, and we know how important it is to progressively rebalance early-stage support with commercial arrangements as technologies move towards bankability.



Through our knowledge sharing activities ARENA has raised awareness and understanding of renewables as well as experience in developing projects that use these technologies, which in turn develops local capabilities and creates local jobs.

In short, we are creating jobs, skills and knowledge today while building

the energy infrastructure of tomorrow.

I would like to take this opportunity to thank past and present Board members, our Chief Executive Officer and all ARENA staff, for contributing to the considerable achievements described in this report.

Together, we will continue to work assiduously to deliver Australians with affordable and reliable electricity from our nation's world-class reserves of renewable energy.

Greg Bourne

Chair

REPORT FROM THE CHIEF EXECUTIVE OFFICER

ARENA's second year of operation was one of consolidation and growth.

We are a young organisation, but ARENA nevertheless has incredible depth of expertise and experience and a long-term vision that involves establishing the technical and commercial foundations needed for Australia to benefit from its renewable energy resources.

Our work in delivering a more diverse and affordable energy future for Australia is built on the understanding that lasting and meaningful change takes time. The effective development of technology from research to commercialisation is a long, multi-decade process, during which it can be difficult to secure the required levels of investment from commercial investors.

ARENA is the only agency to invest along the commercialisation pathway from the laboratory to deployment in the field, and to take a long-term approach. This is essential in the energy industry, where projects take years to plan and execute, and operate for decades.

ARENA funding helps promising projects overcome additional costs incurred when doing something for the first few times, which manifest as higher finance, construction and labour costs. By taking a strong commercial focus in selecting projects for ARENA investment, we ensure that we receive the best value for taxpayer funds. In fact, our projects often have the potential to return funds to ARENA.

Over the course of 2013-14, ARENA continued to build upon the strong foundations established in the previous year. We assessed 384 applications for funding, mostly for programs launched in June 2013, and also for the Research and Development Program launched in January 2014. This resulted in 48 projects being approved for funding.



During the same period 11 projects reached completion including one terminated project. ARENA's workforce also grew from 56 to a peak of 83, in order to meet stakeholder expectations and minimise project-related risks. We expect agency staffing to drop in the upcoming year due to tight budgets.

At 30 June 2014 we were managing commitments of \$1.2 billion in ARENA support for more than 200 projects, scholarships and fellowships, which have a total value of around \$3.5 billion. This amounts to \$1.90 in additional financial support from industry and other parties for every dollar managed by ARENA.

These projects stretch across the continent, from Daly River in the Northern Territory to King Island in Tasmania; from Townsville to Whyalla; from Broken Hill to Perth. In fact, more than 70 per cent of them are located in regional and remote Australia, creating local jobs, developing new skills and supply chains, and contributing to nearby communities.

Developing local supply chains means reskilling local manufacturers, including those from the automotive parts and retooling industry, for the renewables sector.

In addition, several of the projects have delivered breakthrough achievements for Australia and the world, such as the world's first solar-created supercritical steam, reinforcing our nation's strong international reputation for renewable energy innovation and expertise.

This past year has confirmed ARENA's unique role in matching Australia's future energy needs with emerging renewable energy technologies, and supporting those with the best prospects to the brink of commercialisation.

Ivor Frischknecht Chief Executive Officer ARENA OVERVIEW

TOMORROWS ENERGY INFRASTRUCTURE

CREATING OPTIONS PERCENCIALISATION FOR THE NEW JOBS FIRSTS

FILTURE

TOMORROWS ENERGY INFRASTRUCTURE

KNOWLEDGE

WORLD

WORLD

SKILLS FOR THE NEW JOBS FIRSTS

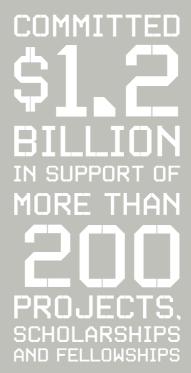
ARENA OVERVIEW

ARENA'S TWO YEARS OF ACHIEVEMENTS

In two years the Australian Renewable Energy Agency (ARENA) has built upon the strategic approach developed in 2012.

These two years of activity have resulted in:

- commitment of \$1.2 billion in support of more than 200 projects, scholarships and fellowships with a total project value of around \$3.5 billion
- attraction of \$1.90 in additional financial support for every dollar invested by ARENA
- enabling of several world-first and Australia-first projects and achievements
- improved local knowledge and experience in the assessment and financing of renewable energy projects
- creation of local expertise and jobs predominantly in rural and regional Australia.



BUILDING TOMORROW'S ENERGY INFRASTRUCTURE

April 2014 marked 60 years since the first solar cell was unveiled by Bell Laboratories. The commemoration of this breakthrough provided a timely reminder of how long it takes to bring a technology to market, how far renewable energy has progressed over that time, and the significance of the technological and economic changes underway today.

Renewable energy's share of global electricity generation continued to grow this past year, from 7.8 per cent in 2012 to 8.5 per cent in 2013¹. This was mainly due to the significantly reduced cost of solar photovoltaic (PV) systems leading to a record 39 gigawatts of PV capacity being installed in 2013 (for less cost than the smaller 2012 total of 31 gigawatts).

Renewable energy technologies that are emerging will take renewables from niche to mainstream energy providers, thereby enhancing their benefits and extending their reach within the Australian community.

These technologies include more efficient solar PV and thermal systems, large-scale solar plants, energy storage systems, marine energy harvesters, biofuel production systems and better integration of renewables with fossil fuels. Each technology is at a different point along the commercialisation pathway, also known as the innovation chain.

Renewable energy has been brought to this point through vision, perseverance, and prudent investment to ensure success over the longer term.

The same qualities are also critical in bringing forward the renewable energy technologies, applications and infrastructure of tomorrow.

ARENA'S ROLE

ARENA was created in 2012 to increase the competitiveness and use of renewable energy technologies in Australia.

The agency's scope extends to 2022 and covers the entire commercialisation pathway, making ARENA unique in Australia.

Pre-existing renewable energy programs and projects were merged into ARENA at the time of its establishment to reduce the likelihood of overlapping roles and responsibilities.

ARENA's investments are made in research, development, demonstration, deployment and pre-commercial projects, as well as those which share knowledge and develop local skills and expertise.

To achieve its mandate, ARENA provides funding and knowledge support to help renewable energy projects secure financial backing from private investors.

ARENA supports demonstration and precommercial deployment projects to reduce the risk that commercial markets perceive in renewable energy projects.

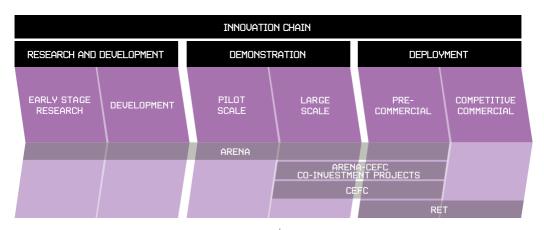
In supporting projects along the commercialisation pathway, ARENA takes on a greater proportion of project funding at the research and development stage, and then progressively substitutes this support with commercial arrangements as technologies move towards bankability.

The agency's investment strategy is commercially-focused and based on market opportunity, demand and commercial readiness.

Accordingly, ARENA's investment programs have also been developed to make renewable energy more available or more affordable, and every eligible project undergoes a rigorous assessment process.

¹ Global trends in renewable energy investment 2014, Frankfurt School – UNEP Collaborating Centre for Climate & Sustainable Energy

FIGURE 1 ARENA'S RELATIONSHIP WITH THE RET AND CEFC



ARENA's relationship with the RET and CEFC

ARENA plays a complementary role to the Renewable Energy Target (RET) and Clean Energy Finance Corporation (CEFC).

While the RET drives the uptake of the cheapest mature renewables, and the CEFC provides finance to help bring near-commercial and commercial projects to reality, ARENA helps progress promising technologies along the innovation chain.

While ARENA typically provides funding to earlier stage solutions than the CEFC, ARENA also co-invests with the CEFC in later-stage projects that are not fully commercially competitive.

These projects are usually eligible for the RET, which reduces the amount of CEFC and ARENA funding required for a given project.

ARENA'S STRATEGY

The key elements of the strategic approach set by the ARENA Board are:

Vision

An Australian economy and society increasingly powered by competitive renewable energy.

Mission

Help catalyse the development and deployment of renewable energy in Australia.

Timeframe

ARENA's timeframe for delivering its objectives is 2022, with an intent to provide competitive energy solutions up to 2030-40.

This strategic approach is monitored and reviewed by the Board and management team, and adjusted if necessary in light of changes to the agency's operating environment and feedback received.

TOMORROWS ENERGY INFRASTRUCTURE

CREATING OPTIONS FOR THE NEW JOBS FIRSTS

FINTURE

SKILLS FOR THE NEW JOBS FIRSTS

GOVERNANCE AND OPERATIONAL PERFORMANCE

ENABLING LEGISLATION

On 10 July 2011, the Australian Government announced the establishment of the Australian Renewable Energy Agency (ARENA).

The Australian Renewable Energy Agency Act 2011 (ARENA Act) received royal assent on 2 December 2011 and took effect on 1 July 2012, establishing ARENA as an independent statutory authority under the Commonwealth Authorities and Companies Act 1997 (CAC Act).

The objectives of the ARENA Act are to improve the competitiveness of renewable energy technologies and increase the supply of renewable energy in Australia.

Upon establishment, ARENA became responsible for the administration of renewable energy projects of the former Australian Centre for Renewable Energy and former Department of Resources, Energy and Tourism. On 1 January 2013, ARENA became responsible for the projects of the former Australian Solar Institute. A total of 146 projects were transferred to ARENA from other agencies, many of which were subsequently varied following review by ARENA. This review also resulted in some projects being terminated.

ARENA's functions are to support improvements in the competitiveness of renewable energy and related technologies and the supply of renewable energy. It does this by administering financial assistance, developing analysis and advice, and sharing information and knowledge on renewable energy and related technologies.

The agency also provides advice to the portfolio Minister in relation to renewable energy and related technologies.

To ensure accountability and transparency for expenditure of a significant sum of public funds, the Australian Government has put in place safeguards that ARENA must follow when making funding decisions. The ARENA Act requires the portfolio Minister to approve program guidelines that permit grants for projects in excess of \$15 million. The Minister must also approve projects where grants in excess of \$50 million are to be awarded.

During the financial year there were no amendments to ARENA's enabling legislation.

One determination was enacted during the year, enabling the General Funding Strategy (GFS) for 2013–14 to 2015–16:

 Australian Renewable Energy Agency Determination No. 1 of 2013

ARENA FUNDING

ARENA provides funding grants to develop technologies and improve investor confidence in renewable energy projects.

Under the ARENA Act, the agency has significant independence and flexibility in how it chooses to provide this financial support to the renewable energy sector, however the ARENA Act requires the portfolio Minister to approve significant program guidelines and projects (see above).

A budget of approximately \$3.2 billion for the period to 2020 was initially allocated to ARENA. This funding included:

- \$200 million from the Education Investment Fund (EIF) for large-scale solar projects
- \$824 million from the then Department of Resources, Energy and Tourism, for ARENA to continue supporting projects from the former Australian Centre for Renewable Energy and Australian the Solar Institute, some of which was already spent.

Subsequent Australian Government announcements identified additional changes to ARENA's funding, which were to be enacted through the Clean Energy Legislation (Carbon Tax Repeal) Bill 2014 (see below). The Bill was not passed by the Parliament before the end of the reporting period.

These funding changes were not expected to affect projects that already had funding agreements in place with ARENA.

In addition, EIF funding was reduced to \$40.9 million in the 2013-14 Federal Budget.

KEY GOVERNANCE EVENTS AND OTHER ACTIVITIES AFFECTING ARENA

The Government announced in the 2014-15 Budget its intention to abolish ARENA, consolidating its functions into the Department of Industry and return uncommitted funds to the budget. This will require the repealing of the Australian Renewable Energy Agency Act 2011.

To give effect to this announcement, the Australian Renewable Energy Agency (Repeal) Bill 2014 was tabled in the House of Representatives on 19 June 2014. On the same day, the Bill was referred to the Senate Economics Legislation Committee for report by 4 September 2014. If the repeal is successful, signed funding agreements, assets and liabilities at the time of repeal would transfer for management to the Department of Industry. The Bill was passed by the House on 1 September 2014. However, the Bill remains before the Senate and had not been considered at the date of this report, and as such ARENA continues to operate under the ARENA Act.

ARENA did not experience any 'significant events' (as defined in section 15 of the CAC Act) or 'material' matters disclosed in the financial statements (as defined in paragraph 12(1) of the Finance Minister's Orders for Financial Reporting (Incorporating Policy and Guidance) and the ministerial direction outlined in *Finance Circular 2008/05–Compliance Reporting*).

It is important to note that ARENA's funding schedule contained within subsection 64(1) of the ARENA Act was amended as part of the Clean Energy Legislation (Carbon Tax Repeal) Act 2014, which received royal assent on 17 July 2014. The amendment legislates and brings into effect:

- a 2013-14 Federal Budget measure to re-profile \$370 million in funding for ARENA over the forward estimates (2014-15 to 2016-17) into later years (2019-20 to 2021-22);
- a reduction in funding for ARENA by \$434.9 million over the forward estimates (2014-15 to 2016-17).

The table below summarises the impact on ARENA's funding, taking into account actual expenditure to 2013-14 and subsequent rollovers of unspent funding.

TABLE 1 AMENDMENTS TO ARENA ACT S64

FINANCIAL YEAR	ARENA ACT \$'000	ARENA ACT (AS AMENDED) \$'000
2012–13	\$659,639 ¹	\$56,193 ²
2013–14	\$344,904	\$265,150 ²
2014–15	\$436,640	\$510,466 ³
2015–16	\$321,810	\$89,991
2016–17	\$299,550	\$56,950
2017–18	\$221,000	\$499,893
2018–19	\$237,000	\$237,000
2019–20	\$368,340	\$468,340
2020–21	_	\$135,000
2021–22	_	\$135,000

¹ For 2012–13 \$278.9 million was added to ARENA's special appropriation in accordance with the ARENA Act Subsection 64(3) Determination (signed by the Minister for Finance on 25 June 2013), and a further \$88.2 million added relating to ASI Limited's closing bank account balance in accordance with the ARENA Act Subsection 64(5).

Actual amounts drawn down and spent in 2012-13 and 2013-14.
Includes \$316.1 million of unspent 2013-14 funding rolled over, in accordance with the ARENA Act Subsection 64(2). The rollover amount per Table 4 Agency Resource Statement of \$683.2 million is prior to the amendments to the ARENA Act. The rollover amount is reduced due to the amendments, which reduces the carryover amount by taking off \$88.2 million and \$278.9 million from the 2013-14 year and re-profiles the amounts into 2015-16 and 2017-18 respectively.

RESPONSIBLE MINISTERS

The Ministers responsible for ARENA in 2013-14 were:

- the Hon Gary Gray MP, Minister for Resources and Energy, from 1 July 2013 to 17 September 2013
- the Hon Ian Macfarlane MP, Minister for Industry, from 18 September 2013 onwards.

Since its establishment, ARENA has worked with Ministers to keep them informed about the operations of ARENA by providing reports of each ARENA Board meeting, which outline key deliberations, meeting outcomes and significant correspondence. ARENA's approach has been guided by the *Review of Corporate Governance of Statutory Authorities and Office Holders* undertaken by Mr John Uhrig AC.

ARENA has outlined to successive Ministers its efforts to improve the competitiveness of renewable energy technologies and increase renewable energy supply in Australia over the longer term, consistent with the ARENA Act.

MINISTERIAL APPROVAL

During 2013-14 the ARENA Board gained ministerial approval for:

- guidelines on financial assistance in excess of \$15 million for the Research and Development program (section 25 of the ARENA Act)
- 2013-14 ARENA Work Plan
- GFS for 2013-14 to 2015-16, which was subsequently enabled by the *Australian Renewable Energy Agency Determination No. 1 of 2013* (section 20 of the ARENA Act).

The guidelines and GFS were published on the ARENA website (arena.gov.au).

MINISTERIAL REQUESTS AND DIRECTIONS

No requests have been made by the Minister under section 11 for 2013-14

No ministerial directions were made under section 13 of the ARENA Act in respect of seeking advice in relation to renewable energy technologies.

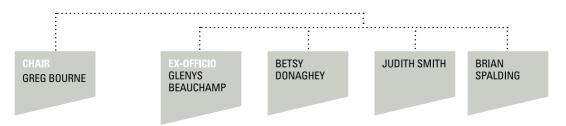
Under section 28 of the CAC Act, ARENA must comply with General Policy Orders (made by the Finance Minister) to the extent that they apply. One General Policy Order applied, in respect of the Parliamentary Budget Office, and was complied with.

ARENA BOARD

At 30 June 2014, the ARENA Board comprised Mr Greg Bourne (Chair), Ms Betsy Donaghey, Ms Judith Smith, Dr Brian Spalding, and Ms Glenys Beauchamp (ex-officio).

Meetings and the operation of the Board are conducted in accordance with the requirements of legislation applicable to ARENA. Further information on the Board is at Appendix 1.

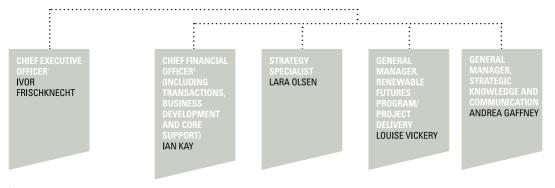
FIGURE 2 ARENA BOARD, 30 JUNE 2014



ARENA CHIEF EXECUTIVE OFFICER

At 30 June 2014, the ARENA CEO was Mr Ivor Frischknecht. Further information on the CEO is at Appendix 1. The CEO is supported by an executive team, including a Chief Financial Officer (CFO).

FIGURE 3 ARENA ORGANISATIONAL STRUCTURE, 30 JUNE 2014



¹ Appointments made under the ARENA Act.

ARENA ADUISORY PANEL

The ARENA Advisory Panel provides advice to support the development and selection of projects and initiatives for funding. The panel's roles include assessing program funding applications and providing expert specialist advice as required. A current list of advisory panel members is available on the ARENA website (arena.gov.au).



ABOVE ARENA Board and CEO as at 30 June 2014 (left to right): Ivor Frischknecht, Judith Smith, Greg Bourne, Betsy Donaghey, Brian Spalding. Not present: Glenys Beauchamp.

STAFF

At 30 June 2014, ARENA had two ARENA Staff (CEO and CFO), 72 departmental staff (70.54 FTE), including staff in non-ongoing positions and one staff member on a secondment out of ARENA, and a number of specialist consultants.

During 2013-14, the majority of staff were based in Canberra (Australian Capital Territory). Staff working in other locations included:

- one staff member (1.0FTE) in Sydney (New South Wales)
- one staff member (0.8FTE) in Albury (New South Wales)
- one staff member (0.67FTE) in Newcastle (New South Wales).

CULTURE

ARENA is an independent and dynamic agency comprising highly qualified and experienced people overseen by a Board that is commercially and technically astute.

The culture of ARENA emphasises a commercially-orientated and flexible attitude when dealing with stakeholders. ARENA aims to be an agile agency that responds quickly to changes in the operating environment.

OPERATING ENVIRONMENT

In 2013-14, ARENA's operating environment encompassed:

- the Board, CEO, CFO and financial assistance initiatives administered under the ARENA Act and the CAC Act
- departmental resources provided to ARENA and subject to the Public Service Act 1999 and the Financial Management and Accountability Act 1997

ARENA operates in compliance with a Boardapproved governance framework that sets out the application of the differing requirements under these various Acts.

SERVICE LEVEL AGREEMENT

The department provides corporate support for ARENA's day-to-day operations. This relationship is managed by a service level agreement, which sets out the arrangements for the provision of services to the CEO and CFO and the arrangements relating to ARENA as a division of the department. The ARENA Core Support Team acts as the conduit to the department's Corporate Division, ensuring that ARENA's legislative requirements are met.

PLANNING AND REPORTING FRAMEWORK

ARENA uses the framework below to streamline its planning and reporting processes. See Table 2.

TABLE 2 PLANNING AND REPORTING FRAMEWORK, 2013-14

AUDIENCE	PLANNING	REPORTING
External	 Portfolio budget statements, including additional estimates statements 	Annual reportSenate estimates hearings
Board and Minister	General Funding StrategyInvestment PlanWork Plan	Board meetingsCEO Reports to BoardChair reports on Board meetings to Minister
Internal	 Business Plan Risk Management Plan Fraud Control Plan Business Continuity & Disaster Recovery Plans 	Board and Risk & Audit Committee meetingsARENA staff meetings

FIGURE 4 ARENA FUNDING BY TECHNOLOGY (AT 30 JUNE 2014)



OPERATIONAL PRIORITIES

ARENA's approach to funding support is set out in its GFS and IP. Refer to page 20 for more detail. The IP for 2013-14 to 2015-16 sets out how ARENA will measure its performance.

Table 3 shows ARENA's results against the performance measures set out for 2013–14 in the IP.

TABLE 3 RESULTS AGAINST ARENA PERFORMANCE MEASURES, 2013-14 (AT 30 JUNE 2014)

WHAT	HOM	MEASURE
Improve the competitiveness of	Improve the technical and commercial readiness of technologies within Australia from ARENA's actions.	See Program Performance on page 20
renewable energy technologies	Enter agreements to deliver two significant multi-participant knowledge- sharing products by December 2013.	International Geothermal Expert Group Report
		Integrating Renewables in the Grid Stocktake
	Fund a range of knowledge sharing projects by May 2014.	See Knowledge Bank at arena.gov.au/resources
	Maintain a diverse portfolio of technologies.	Ongoing. See Figure 4
Increase the supply of renewable energy in Australia	Increase the total amount of renewable energy within Australia from ARENA's actions.	Projects expected to install at least 613 MW capacity
	ARENA funding leverages additional funding and in-kind contributions from project partners.	Leverage ratio 1.9
	Finalise the assessments of one round of ARENA's Regional Australian Renewables Initiative by April 2014.	Complete
	Design and launch one new investment strategy (program) by June 2014.	R&D Program
Organisational	Conduct a baseline stakeholder survey by April 2014.	Complete
effectiveness	Increase the number of ARENA website visitors by at least 20 per cent from May 2013 to June 2014.	25 per cent increase
	Review the ARENA General Funding Strategy for 2014–15 to 2016–17 and submit to Minister by June 2014.	Submitted to Minister by 30 June 2014
	Develop the ARENA work plan for 2014–15 and submit to Minister by June 2014.	Submitted to Minister by 30 June 2014

FINANCIAL PERFORMANCE

ARENA reported a net operating surplus of \$9.7 million for 2013-14. This was the result of accounting requirements to report a number of items funded through revenue on the Statement of Financial Position. The Government provided ARENA with \$261.9 million in revenue for ARENA operations.

Agency resource statement

The agency resource statement reconciles the final usage of all resources in cash terms, by declaring the actual available appropriation for 2013-14, including carried forward cash balances and further adjustments, and comparing this to the actual payments made.

The agency resource statement in Table 4 is different to the Actual Available Appropriation disclosed in Table 1.1 in the ARENA Budget Statements for 2013-14.

The difference is due to the timing of the preparation of the 2013-14 Budget Statements and the estimates used at that time compared to the actual amount of unspent 2012-13 funds carried forward.

The difference between the payments made by the portfolio department of \$265.2 million shown above and the actual expenses of \$266.6 million disclosed in Table 5 below are accruals plus Resources Received Free of Charge from the portfolio department.

The balance remaining of \$683.2 million is largely a result of the expenditure profile of ARENA differing from ARENA's standing appropriation.

Note: The standing appropriation in this table is prior to the amendments to the ARENA Act contained within the *Clean Energy Legislation* (*Carbon Tax Repeal*) Act 2014 which did not receive royal assent until after the reporting period, on 17 July 2014. The impact of the amendments is discussed further on page 11.

Expenses by outcome

The total expenses for ARENA's outcome in Table 5 corresponds with Table 2.1 in the ARENA Budget Statements for 2013-14.

TABLE 4 AGENCY RESOURCE STATEMENT, 2013-14

	ACTUAL AVAILABLE APPROPRIATION FOR 2013–14 \$'000 (A)	PAYMENTS MADE 2013–14 \$'000 (B)	BALANCE REMAINING 2013–14 \$'000 (A) – (B)
Opening balance/Reserves at bank	221	195	26
REVENUE FROM GOVERNMENT			
Payments from related entities ²			
Amounts from portfolio department	948,350 ³	265,150	683,200
Total funds from government	948,350	265,150	683,200
Total net resourcing and payments for ARENA	948,571	265,345	683,226

¹ 2013-14 Portfolio Budget Statements, May 2013.

² Amount received from Department of Industry, which receives a Special Appropriation for the purposes of funding ARENA

³ The actual available appropriation of \$948.3 million is in accordance with the funding stated in section 64 of the ARENA Act (prior to amendments). It comprises \$344.9 million for 2013-14 (s64(1)) and the rollover of unspent 2012-13 funding of \$603.4 million (s64(2)). The rollover amount is based on \$292.6 million for 2012-13 (s64(1)) plus the transfer of \$278.9 million from the Clean Energy Initiative Special Account (s64(3)) and \$88.2 million from the Australian Solar Institute (s64(5)) less actual amounts expended of \$56.2 million in 2012-13.

TABLE 5 EXPENSES BY OUTCOME, 2013-14

Outcome 1: Support improvements in the competitiveness of renewable energy and related technologies and the supply of renewable energy by	BUDGET ¹ 2013–14	ACTUAL EXPENSES 2013–14	VARIATION 2013–14
administering financial assistance, developing analysis and advice about and sharing information and knowledge with regard to, renewable energy	\$'000	\$'000	\$'000
and related technologies.	(A)	(B)	(A) – (B)
PROGRAM 1: SUPPORTING OUTCOME 1			
Revenue from government			
Payments from related entities	508,869	266,576	242,293
Total for Program 1	508,869	266,576	242,293
OUTCOME 1 TOTALS BY APPROPRIATION TYPE			
Revenue from government			
Payments from related entities	508,869	266,576	242,293
Total expenses for Outcome 1	508,869	266,576	242,293
	2012–13	2013–14	VARIATION
Average staffing level (number) ²	2	2	-

¹ 2013-14 Portfolio Budget Statements, May 2013

The variation of \$242.3 million arose from a number of project milestones being delayed and/or rescheduled.

The timing of milestones were changed for a wide range of reasons including: key project staff being absent for extended periods, projects having difficulty finalising international collaboration agreements, unanticipated technology or engineering challenges and late delivery by suppliers to the project.

The changes to the timing of project milestones meant payments associated with milestones were also delayed. Where applicable, funding agreements were varied to reflect changed circumstances to maximise the chances of project success.

² ARENA only has two employees, the CEO and CFO. Under section 62 of the ARENA Act 2011 all other staff necessary to assist ARENA must be persons employed under the Public Service Act 1999 who are employed by the portfolio department and made available to ARENA by the Secretary of the department.

PROGRAM PERFORMANCE

TOMORROWS ENERGY INFRASTRUCTURE

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OPTIONS A FOR THE NEW JOBS FIRSTS

FILTURE

PROGRAM PERFORMANCE

PROGRAM OVERVIEW

ARENA identifies and pursues opportunities that have the potential to significantly advance the development and deployment of renewable energy technologies in Australia.

This is in accordance with the ARENA Act and the outcome identified for ARENA in the 2013-14 Portfolio Budget Statements:

Support improvements in the competitiveness of renewable energy and related technologies and the supply of renewable energy by administering financial assistance, developing analysis and advice about and sharing information and knowledge with regard to, renewable energy and related technologies.

STRATEGIC APPROACH TO INVESTMENT

ARENA's main focus is to make decisions that will foster the renewable energy market by making technologies more affordable and increasing local supply.

The way in which these decisions are made is critical to ensuring initiatives are focused on the most beneficial outcomes for the Australian public and industry.

Investing along the innovation chain

In order to support the development of lower cost renewables and accelerate their progress towards commercialisation, ARENA has developed a detailed understanding of the barriers to commercialisation and the most effective ways to unlock investment capital.

ARENA applies that knowledge not only to research and development projects but also to projects that have reached the critical demonstration and pre-commercial phases.

Paired with ARENA's long-term funding, this broad investment scope makes the agency uniquely positioned to help Australia's renewable energy technologies move along the commercialisation pathway, or innovation chain (see Figure 5), to the brink of commercialisation.

General Funding Strategy and Investment Plan

ARENA's approach to funding support is set out in its General Funding Strategy (GFS) and Investment Plan (IP).

The GFS outlines ARENA's principal objectives and priorities for the current and following two financial years, and is used to select which renewable energy projects will receive financial support. It is developed in consultation with renewable energy researchers and

FIGURE 5 INNOVATION CHAIN

	TECHNOLO	MARKET	PULL			
RESEARCH AND DEVELOPMENT		DEMONSTRATION		DEPLOYMENT		
EARLY STAGE RESEARCH	DEVELOPMENT	PILOT SCALE	LARGE SCALE	PRE- COMMERCIAL	COMPETITIVE COMMERCIAL	

developers, the broader energy industry, and stakeholders. The GFS is updated annually following approval by the portfolio Minister.

The IP details the initiatives that ARENA will focus on during the period of the GFS.

Investment priorities in 2013-14

Guided by the GFS, ARENA's activities during 2013-14 involved the exploration of opportunities in renewable energy generation and fuels in off-grid and fringe-of-grid areas, as well as promotion of the integration of renewable energy technologies into major grids. ARENA's activities also involved the identification of opportunities for integrating renewables with existing fossil fuel plants.

PROGRAMS AND INITIATIVES IN 2013-14

The programs and initiatives identified in the IP, which advanced ARENA's objectives in 2013-14 were:

- Deploying Utility Scale Renewable Energy (Big Solar), including utility scale solar projects
- Research and Development (R&D) Program, including ongoing projects, fellowships and

- scholarships from the former Australian Solar Institute
- Emerging Renewables Program (ERP)
- Regional Australia's Renewables (RAR) Initiative, including:
 - Regional Australia's Renewables Industry Program (I-RAR)
 - Regional Australia's Renewables Community and Regional Program (CARRE)
- Accelerated Step Change Initiative (ASCI)
- Supporting High-value Australian Renewable Energy Knowledge (SHARE)
- Renewable Energy Venture Capital Fund Program (Southern Cross Renewable Energy Fund)
- Advanced Biofuels Investment Readiness Program (ABIR) projects.

Figure 6 demonstrates where each of ARENA's programs and initiatives apply to projects across the innovation chain. Achievements made within these programs and initiatives are provided further later in this chapter.

FIGURE 6 ARENA PROGRAMS ACROSS THE INNOVATION CHAIN

RESEARCH AND DEVELOPMENT		DEMONSTRATION		DEPLOYMENT		
EARLY STAGE RESEARCH	DEVELOPMENT	PILOT SCALE	LARGE SCALE	PRE- COMMERCIAL	COMPETITIVE COMMERCIAL	
RESEARCH AND DEVELOPMENT PROGRAM						
	EMERGING REN		1	\		
			REGIONAL AL	REGIONAL AUSTRALIA'S RENEWABLES INITIATIVE		
			ACCELERATED CHANGE INITI	STEP ATIVE		
			UTILITY SCALI	E RENEWABLES		
	RENEWABLE EN	ERGY VENTURE CAPI	TAL FUND			
KNOWLEDGE SHARING COLLABORATION AND ENGAGEMENT						

TECHNICAL READINESS LEVEL AND COMMERCIAL READINESS INDEX

Technology Readiness Level

ARENA uses the Technical Readiness Level (TRL), based on an assessment tool developed by the National Aeronautics and Space Administration, to measure the technical readiness of renewable energy projects.

The TRL is the globally-accepted benchmarking tool for tracking a project's progress through the innovation chain, from blue sky research (TRL1) to actual system demonstration over the full range of expected conditions (TRL9).

Commercial Readiness Index

ARENA uses a Commercial Readiness Index (CRI) to assess the commercial viability of projects.

The CRI was developed by ARENA based on pre-existing academic research and extensive consultation with industry, and has been adopted for use by the National Renewable Energy Laboratory in the United States.

The CRI is used from the stage where a technology can be trialled and demonstrated in the field (for example, TRL7), up to the stage where the technology is being commercially deployed and has become a bankable asset class (CRI6).

The index provides a rigorous structure for evaluating where one or more industry sectors are facing barriers, and enables ARENA to structure funding support to best reduce risks and barriers at the various stages of the pathway to commercialisation.

Both the TRL and CRI are publicly available on the ARENA website (arena.gov.au) for applicants to use when considering their projects and developing funding applications for ARENA consideration.

FIGURE 7 TECHNICAL READINESS LEVEL AND COMMERCIAL READINESS INDEX ON THE INNOVATION CHAIN

RESEARCH AND DEVELOPMENT		DEMONSTRA	ATION	MARKET PULL	
EARLY STAGE RESEARCH	DEVELOPMENT	PILOT SCALE	LARGE SCALE	PRE- COMMERCIAL	COMPETITIVE COMMERCIAL
1 2 3	4 5 6	7 8 9			
		1 2	3	4 5	6

TECHNICAL READINESS



PROJECT SELECTION PROCESS

ARENA's principal objectives – decreasing the cost and increasing the supply of renewable energy – have driven the development and use of tools to objectively assess projects.

Among these, the TRL and CRI (see previous page) help to demonstrate a project's progress across the innovation chain.

For programs other than the R&D Program, which is assessed via competitive rounds, ARENA works collaboratively with proponents and undertakes due diligence on proposals, where required, to maximise the capacity of projects to deliver value for money and meet ARENA objectives. For large or complex projects, this may include the use of specialist technical and financial advice to ensure returns are appropriate and projects are rigorously managed.

Figure 8 indicates the process used by ARENA to assess funding applications. It may differ between programs. Specific details are provided in the program guidelines or information manual for the relevant initiative of program.

FIGURE 8 INDICATIVE ARENA APPLICATION ASSESSMENT PROCESS

EXPRESSION OF INTEREST EOI MERIT ASSESSMENT* ELIGIBILITY, COMPLETENESS, MERIT FULL APPLICATION FULL APPLICATION ASSESSMENT* ELIGIBILITY, COMPLETENESS, MERIT ARENA OFFER PROCESS

Note: May differ between programs. *Involves staff, ARENA Advisory Panel and ARENA Board

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PROGRAM OUTCOMES

Over the course of 2013-14, ARENA consolidated and built upon the foundations established during the previous year:

- one new program was launched
- 384 applications for funding were assessed
- 48 projects were approved for funding
- 11 projects reached completion including one terminated project.

From ARENA's commencement until 30 June 2014, \$1.2 billion in support had been provided or committed by the agency for more than 200 projects with a total project value of around \$3.5 billion. For every dollar invested ARENA attracted \$1.90 in additional financial support for projects, and \$1.60 for studies and R&D activities.

Projects and measures for which ARENA provided financial assistance in 2013-14 are listed in Appendix 2 of this report. Summary details and project profiles are also published on the ARENA website arena.gov.au.

Figure 9 shows how ARENA funding supports renewable energy projects across the innovation chain.

Deploying Utility Scale Renewable Energy

ARENA supports a number of large-scale, grid-connected, pre-commercial renewable energy deployment projects.

In 2012-13 ARENA finalised a \$166.7 million funding agreement with AGL to build Australia's biggest solar energy plant.

The \$440 million, 155 megawatt solar project is located over two sites at Nyngan and Broken Hill in western NSW. A majority of the project funds are being spent on the Australian supply chain with benefits flowing to the region and beyond.

During the reporting period, the project made good progress and was expected to install the first of 1.35 million advanced thin-film solar photovoltaics modules in July 2014 at the project's 102 megawatt solar farm at Nyngan in NSW.

FIGURE 9 ARENA FUNDING ACROSS THE INNOVATION CHAIN*

ARENA supports renewable energy projects across the innovation chain to help de-risk investment and hasten commercialisation.

	RESEARCH AND DEVELOPMENT		DEMONSTRATION		DEPLOYMENT	
r r	EARLY STAGE RESEARCH	DEVELOPMENT	PILOT SCALE	LARGE SCALE	PRE- COMMERCIAL	COMPETITIVE COMMERCIAL
PROJECTS	185		40		6	
TOTAL VALUE	\$592M		\$1604M		\$1328M	
ARENA FUNDING	\$230M		\$491M		\$495M	

^{*}Committed/Board approved projects up to 30 June 2014 (including unannounced).

The rest of the project's solar panels will be installed progressively with construction expected to be complete at Nyngan in June 2015 and at Broken Hill in November 2015.

Research and Development Program - solar excellence

In January 2014 ARENA launched the R&D Program to support projects where Australian research improves the competitiveness of renewable energy technologies or that address specific Australian requirements.

Round 1 of the program focused on solar research excellence projects. A total of 110 applications were received and short-listed to 25 full applications that sought a total of \$41 million from ARENA. Following a rigorous vetting and ranking process, 12 were approved by the Board for funding of \$21.5 million.

The R&D Program complements the existing

portfolio of solar research projects that were transferred to ARENA from the former Australian Solar Institute. During 2013-14 this existing R&D portfolio consisted of two Strategic Research Initiatives, 63 projects, 48 research fellowships and 33 PhD scholarships. These projects (including those approved but not yet announced) have a combined value of around \$230 million.

RESEARCH AND DEVELOPMENT PROGRAM

R&D

DEMONSTRATION

DEPLOYMEN

KNOWLEDGE MANAGEMENT

Tiny devices make a big solar impact

Researchers at the Australian National University helped commercialise an innovative way of using a technology called plasmonics, which increase the amount of solar energy collected by a solar cell using microscopic metal devices.

Want to know more?

The researchers used nanoparticles - devices so small that 50 of them could fit on the width of a human hair - to develop solar cells that generate more electrical current than the traditional thin-film version. In a plasmonic solar cell the nanoscale metal particles on the surface act like tiny antennas, collecting the solar radiation and directing it into the cell.

The project team included experts in plasmonics and solar cell technology who had already demonstrated that plasmonic solar cells can increase the amount of energy harvested from

the sun. This project built on that knowledge by identifying the most effective plasmonic structures, fabrication techniques and solar cell integration for a number of important solar cell technologies, which were used to produce a map of opportunities for the use of plasmonic solar cells.

Plasmonics for solar cells are a promising way of increasing efficiencies and reducing costs in thin solar cells, which makes up the most rapidly growing section of the solar cell market.

ARENA contributed \$1.6 million to the \$5.8 million project.

Further detail A full profile of this project, *Plasmonics for high efficiency solar cells*, is available on the ARENA website (arena.gov.au/projects).

RESEARCH AND DEVELOPMENT PROGRAM

R&D

DEMONSTRATION

DEPLOYMENT

KNOWLEDGE MANAGEMENT

Game-changing supercritical steam breakthrough

Australian researchers at CSIRO and Abengoa Solar have achieved a world-first, generating the hottest pressurised "supercritical" steam ever produced using energy from the sun.

This accomplishment moves solar thermal energy a step closer to being able to compete with fossil fuels.

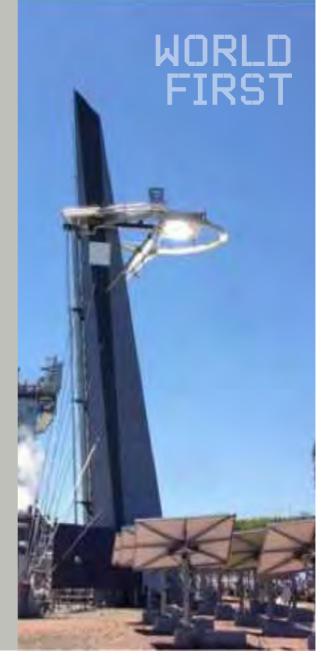
Want to know more?

Researchers working on this project showed it is possible for steam to reach temperatures of up to 570 degrees Celsius and pressure of 23.5 megapascals.

Steam at this temperature and pressure can drive a modern, highly efficient steam turbine, like those used in a new coal-fired power station. Making use of best-in-class commercial technologies drives down the cost of solar power.

ARENA contributed \$2.8 million to this \$5.7 million project.

Further detail A full profile of the project, *Advanced steam generating receivers for high concentration solar collectors*, is available on the ARENA website (arena.gov.au/projects).



Emerging Renewables Program

ERP aims to support projects that drive innovation in renewable energy technologies, and reduce or remove roadblocks the industry faces.

Over the past year, ARENA supported through ERP a broad range of feasibility studies, as well as development, demonstration and early-stage deployment projects that have the potential to lower the cost and increase the use of renewable energy technologies in Australia.

During the period nine new funding agreements were entered into, representing \$20.9 million in ARENA funding and \$45.1 million in partner co-contributions.

At 30 June 2014 ARENA was managing 18 projects under the ERP.

EMERGING RENEWABLES PROGRAM

RSD

DEMONSTRATION

DEPLOYMENT

KNOWLEDGE MANAGEMENT

Transportable solar farm for remote Australia

Global construction company Laing O'Rourke 's ground-breaking project involves manufacturing, setting up and packing down a fully redeployable large-scale solar/diesel hybrid power plant.

Want to know more?

The project was developed to overcome the challenge of fixed-frame solar installations in off-grid locations, which are unsuitable for mining operations and other short-and medium-term ventures because of their permanent nature.

It involves the construction of a pilot-scale version of a fully redeployable hybrid solar/ diesel power plant at Laing O'Rourke's 350-bed Combabula accommodation village in regional Queensland, which will house workers during the construction phase of a major resource project.

The 1 megawatt plant with 134 kilowatts of solar photovoltaics will consist of transport-friendly container-sized modules, including a control centre and inverters with external, pre-wired connections to allow fast, easy setup and pack down.



The modules are manufactured off-site, transported, and safely assembled on-site, and at the end of the project the solar farm can easily be packed up and taken to the next deployment.

A semi-portable hybrid system like this carries enormous potential, providing industries and communities in regional and remote locations with a viable renewable energy alternative that could also be used to assist in international relief efforts.

ARENA contributed \$450,000 to the \$1.4 million project.

Further detail A full profile of this project, *Redeployable hybrid power*, is available on the ARENA website (arena.gov.au/projects).

EMERGING RENEWABLES PROGRAM

R&D DEMONSTRATION

DEPLOYMENT

KNOWLEDGE MANAGEMENT



Harvesting the ocean's power

The Perth Wave Energy Project is aiming to be the world's first wave energy array that is connected to the grid and has the ability to produce desalinated water. It will also deliver Carnegie's first power revenues through the sale of green electricity to the Department of Defence for HMAS Stirling, Australia's largest naval base located on Garden Island in Western Australia.

Want to know more?

The project uses Carnegie's CETO wave energy technology.

The CETO unit consists of a fully submerged buoy called a Buoyant Actuator (BA) tethered to a pump on the seabed. The BA oscillates in harmony with the ocean's waves, transferring energy through a tether, which causes the pump to extend and contract. The pump's action pressurises fluid that is then sent onshore through a subsea pipeline and which, once onshore, is used to operate an off-the-shelf hydroelectric power plant. The resulting low-pressure water is then returned offshore in a

closed loop system. In addition to producing zero-emission power, the CETO technology is capable of producing direct desalinated water. The high-pressure water created by the CETO units can be used to supply a reverse osmosis desalination plant, replacing or reducing reliance on electrically-driven pumps usually required for such plants.

Once commissioned, the Perth Wave Energy Project will be the world's first grid-connected commercial-scale demonstration of Carnegie's CETO technology.

This will be an important step towards unlocking the vast potential of wave energy in Australia and internationally.

ARENA contributed \$13 million to the \$32 million project.

Further detail A full profile of this project, *Perth Wave Energy Project*, is available on the ARENA website (arena.gov.au/projects).

Regional Australia's Renewables

The RAR initiative supports trials of renewable energy solutions in remote off-grid or fringe-of-grid locations, primarily where it is able to displace existing diesel generation. It is anticipated these projects will lower the risks associated with future investment and advance the prospect for future deployment without subsidy.

I-RAR aims to build a portfolio of renewable energy solutions in regional and remote Australia, focusing on hybrid and integrated systems in off-grid and fringe-of-grid communities. It will also contribute to knowledge sharing and skills development, especially in regional and remote areas.

CARRE aims to demonstrate viability and reliability of renewable energy systems for small communities and islands, grow supporting technologies, show commercial viability and contribute to knowledge sharing.

RAR also includes a focus on removing roadblocks to regional and remote deployment, including system integration, output variability, storage and technology demonstration and testing facilities.

In response to the launch of RAR in late 2013, 72 expressions of interest for funding were received. Ten of these were for the community stream, with the other 62 expressions of interest being for the Industry stream.

Proposals were received from numerous industry sectors, including 28 mining, 19 community/town/regions, eight agriculture, three tourism, two airports, one defence and one food processing.

ARENA worked with a wide range of the applicants to develop the proposals for ARENA assessment.

RAR Industry Program

During 2013-14 one I-RAR proposal proceeded through to the execution of a funding agreement and public announcement. This \$11.3 million agreement with First Solar (Australia) Pty Ltd, is to construct a solar PV facility at Rio Tinto Alcan's Weipa Bauxite Mine (see next page).

ARENA also undertook a number of other project assessments that were expected to be completed shortly after the reporting period.

REGIONAL AUSTRALIA'S RENEWABLES

R&D DEMONSTRATION

DEPLOYMENT

KNOWLEDGE MANAGEMENT



Australia's first renewable-powered mine, township and port

Located in far north Queensland, this groundbreaking project will supply renewable energy to Weipa's bauxite mine, township and port. It will be the first off-grid solar farm of this size for the mining sector in a remote location where there is no access to Australia's National Electricity Market.

Want to know more?

In addition to lowering energy costs and improving Weipa's energy security by reducing the use of costly diesel transport and consumption, this project will increase the mining sector's experience in planning, building and operating renewable energy systems on remote off-grid mine sites.

ARENA is providing \$3.5 million for the first phase of the project, which involves the installation of 18,000 solar photovoltaic (PV) panels representing 1.7 megawatts of off-grid power. This will allow up to 20 per cent of daytime electricity demand to be met with renewables.

Once the initial phase of the Weipa project has been successfully constructed and operated, ARENA will provide up to \$7.8 million for the second phase. This will involve the installation of an additional 5 megawatt solar PV system and battery storage that is capable of meeting up to 100 per cent of Weipa's daytime power needs. The solar plant will connect to Rio Tinto Alcan's (RTA) existing mini-grid at Weipa and be integrated with existing diesel generation. This will reduce RTA's exposure to future fluctuations in diesel fuel prices.

The information generated by this project will be captured and transferred through a knowledge sharing plan negotiated with ARENA and will improve the quality of information available to the mining sector about the construction and operation of off-grid renewable energy systems.

ARENA is contributing \$11.3 million to the \$23.4 million million project.

Further detail A full profile of this project, *Weipa Solar Farm*, is available on the ARENA website (arena.gov.au/projects).

Community and Regional Renewable Energy Program

ARENA received proposals for CARRE projects from five distributors, covering 50 remote Indigenous communities in the Northern Territory and Queensland; 10 outback towns in Queensland, Western Australia, South Australia and the Northern Territory; and two off-grid islands.

ARENA expects several of these projects will proceed to the funding agreement stage and will assist electricity distributors to address the challenges of providing energy in off-grid locations.

Accelerated Step Change Initiative

ARENA launched ASCI in June 2013 to place the agency in a position to flexibly respond to unforeseen, significant opportunities that arise and are not captured under other initiatives. At 30 June, no financial assistance had been provided or committed to projects under this program.

Supporting High-value Australian Renewable Energy Knowledge

The SHARE Initiative is the first stage in ARENA's knowledge sharing function and focuses on collecting information of value to industry.

During 2013-14 this involved engaging with industry and other shareholders to better understand their needs and then publishing ARENA's knowledge priorities in a High-value Knowledge List (see page 33).

Through SHARE, ARENA collects knowledge in three main ways:

1. ARENA funded projects

All projects funded by ARENA are required to have knowledge sharing plans that specify the knowledge (including data) the project will generate and how it will be shared with the industry and public. During 2013-14, ARENA negotiated approximately \$4.1 million of knowledge sharing commitments through these plans.

2. Directly commissioned work

ARENA directly commissioned strategic studies in a number of areas including:

- Hybridisation of renewable energy with existing fossil fuel generators
- Integrating renewables into the grid
- International expert review of Australia's geothermal sector and potential pathways for commercialisation.

3. Other research

ARENA encouraged industry to apply for funding under the Emerging Renewables Program to undertake studies or create knowledge products that align with the agency's priorities as set out in the High-value Knowledge List.

Roadmap to unlocking Australia's geothermal potential

ARENA's International Geothermal Expert Group investigated and reported on the prospects for commercial development of geothermal energy in Australia in 2020 and 2030, without long-term subsidy. The report provided options on how ARENA's Board may wish to allocate and prioritise its funding for geothermal energy projects.

The Expert Group, its work and its findings

The Expert Group was chaired by Professor Quentin Grafton, a distinguished energy economist and former Director of the Australian Government Bureau of Resources and Energy Economics. The other members were Professor Roland Horne, Ms Susan Petty, Dr Bill Livesay and Professor Michal Moore – all internationally recognised experts with practical experience in geothermal drilling, reservoirs, geology and energy economics

In keeping with ARENA's focus on industry relevance, the Expert Group placed great importance on stakeholder engagement. It met individually with geothermal energy and allied technology companies, research groups, peak bodies, the investment community, regulators and government agencies in Brisbane, Adelaide and Sydney. In November 2013 the Expert Group accepted written submissions and in February 2014 it presented its preliminary findings to stakeholders in Brisbane and Sydney. Written comments were also invited on the preliminary findings.

The Expert Group reviewed recent studies and lessons learned, and critically evaluated the prospects for either enhanced geothermal systems or hot sedimentary aquifer geothermal energy to deliver cost competitive energy to Australia without long-term subsidy.



It concluded that utility-scale power generation from geothermal energy is not cost competitive in 2014 and unlikely to be so in 2020, but found there are plausible commercialisation pathways for geothermal energy in supplying off-grid electricity and direct use heat for gas processing.

The report identified the need for significant cost reductions in the critical areas of finding and flowing heat, and proposed that re-designed support mechanisms focus on data collection, collaboration with the oil and gas sector and engagement with international geothermal projects.

A copy of the report (including a summary version) is available from the Knowledge Bank on the ARENA website (arena.gov.au/resources).

Renewable Energy Venture Capital Fund Program (Southern Cross Renewable Energy Fund)

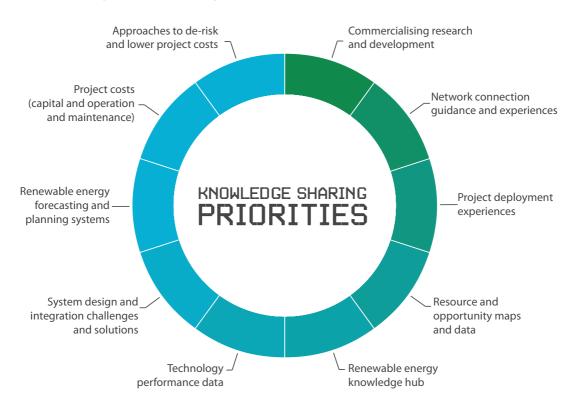
ARENA's Renewable Energy Venture Capital (REVC) Fund Program was created to foster skills and management capability and provide funding confidence to renewable energy projects to strengthen their chance of success. ARENA's \$100 million investment commitment has been matched dollar for dollar by Softbank China Venture Capital creating the \$200 million Southern Cross Renewable Energy Fund which is managed by Southern Cross Venture Partners Pty Ltd. Information about investments made by Southern Cross Renewable Energy Fund is available on the ARENA website (arena.gov.au).

Advanced biofuels

These projects support the development of advanced biofuel technologies by seeking to progress the deployment of pre-commercial demonstration projects for the production of drop-in biofuels in Australia.

Almost \$10 million is committed to the advanced biofuels projects under the program, which is now closed.

ARENA's High-value Knowledge List



OTHER REPORTABLE MATTERS

TOMORROWS ENERGY INFRASTRUCTURE CREATING OPTIONS FIRSTS COMMERCIALISATION WORLD SKILLS FOR THE NEW JOBS FIRSTS FINTURE

OTHER REPORTABLE MATTERS

CONSULTANCIES

The Board has voluntarily adopted key principles of the *Commonwealth Procurement Rules* for ARENA procurements. Section 63 of the ARENA Act states that consultants may be engaged by ARENA to provide technical and specialist advisory services to assist ARENA in the performance of its functions. ARENA must not engage consultants to perform operations or administrative duties of a kind that are performed, or are capable of being performed, by departmental staff made available to ARENA.

During 2013-14, 45 new consultancies were entered into, involving total actual expenditure of \$3,293,822. In addition, 35 ongoing consultancies were active during the 2013-14 year, involving total actual expenditure of \$2,989,411.

ECOLOGICALLY SUSTAINABLE DEVELOPMENT

Table 6 sets out ARENA's report against section 516A of the *Environment Protection* and *Biodiversity Conservation Act 1999.*

TABLE 6 CONTRIBUTION TO ECOLOGICALLY SUSTAINABLE DEVELOPMENT, 2013-14

REPORTING CRITERIA

PERFORMANCE

Accordance with and contribution to ecologically sustainable development (ESD), including the development and implementation of policies, plans, programs and legislation.

ARENA is specifically tasked with facilitating research, development, demonstration and deployment of renewable energy technologies with a view to driving the commercialisation and reducing the cost of renewable energy.

ARENA's policies, plans and programs all accord with and contribute to the ESD principles by:

- helping to foster the long-term sustainability of Australia's energy sector while promoting the reduction of energy-related greenhouse gas emissions
- taking into account economic, environmental and social considerations when developing renewable energy measures.

Information on ARENA's measures and programs is provided on page 21.

Environmental performance, including the impact of the agency's activities on the natural environment, how any impacts are mitigated and how they will be managed.

ARENA's accommodation and facilities arrangements are supported by the portfolio Department of Industry.

The department operates under the Energy Efficiency in Government Operations policy. Its purpose is to reduce the energy consumption of government operations, with particular emphasis on the energy efficiency of buildings.

The department also aims to improve its environmental management practices, reduce the impacts of its operations, and foster greater efficiencies and operational costs savings consistent with legislative, regulatory and policy requirements such as the Australian National Audit Office's Public Sector Environmental Management Better Practice Guide of April 2012.

For more information, please refer to the Department of Industry's Annual Report 2013-14.

For the duration of 2013-14, ARENA's Canberra offices were located in the NewActon Nishi Building. The Nishi Building offices have a 6 star Green Star Design rating, while the Nishi apartments have an 8-star rating (under the Nationwide House Energy Rating Scheme).

NewActon Nishi is considered to be Canberra's most sustainable mixed-use building complex.

CORPORATE GOVERNANCE

ARENA places considerable emphasis on strong governance arrangements.

ETHICS AND RISK MANAGEMENT

In 2013-14, the ARENA Board continued to implement the conflicts of interest policy which was adopted in 2012-13. The policy describes:

- the duties and obligations in respect of potential conflicts for all ARENA personnel, including
 - members of the Board
 - members of the Risk and Audit Committee (RAC) (and any other subcommittee of the Board)
 - the Chief Executive Officer and the Chief Financial Officer
 - all ARENA staff, including employees and contractors of the Department who are made available to ARENA
 - consultants engaged by ARENA, including probity advisers, expert due diligence advisers and other independent technical advisers
 - members of ARENA assessment advisory committees
- how individuals are to discharge their duties under the policy
- how declarations are managed.

ARENA is committed to integrating risk management practices into all processes and operations. ARENA can thereby deliver consistent, effective and accountable action, decision making and management practice.

ARENA manages risk commensurate with ISO 31000:2009, Risk management - Principles and guidelines. Accountability and responsibility for ARENA's performance lies with the Board. This includes accountability for ARENA's management of risk. While the Board and ARENA executive are ultimately accountable for risk management, it is the responsibility of all ARENA personnel to manage risk.

ARENA'S RAC provide independent assurance and advice to the Board on ARENA'S risk management. In 2013-14, the RAC was provided with information on ARENA'S approach to managing ARENA'S major risks including those associated with individual programs, projects and significant procurements.

BUSINESS CONTINUITY AND DISASTER RECOVERY PLANS

ARENA in consultation with the portfolio department is committed to ensuring that, where possible, provisions are in place to support business continuity arrangements.

In addition to having a plan that interfaces with the department's business continuity arrangements, ARENA also has its own Business Continuity and Disaster Recovery Plans. These ensure that ARENA has identified its critical business functions, maximum tolerable period of disruption and alternative process support recovery.

ARENA is critically dependent on the Department of Industry for other key parts of Business Continuity Management such as the emergency and critical incident plans and policies.

ARENA reviewed its Business Continuity Plan in 2013-14, along with the associated Disaster Recovery Plan and a Business Impact Analysis. The purpose of the review was to ensure that, in light of ARENA's recent restructure and work practice changes, both the Business Continuity Plan and the Disaster Recovery Plan continued to meet ARENA's critical business requirements and ARENA would maintain its ability to function.

ARENA SERVICE CHARTER

ARENA aims to provide a high standard of service to all our stakeholders. ARENA focuses on achieving honest and ethical relationships with stakeholders, underpinned by genuine consultation and feedback.

ARENA provides high quality, evidencebased advice and decisions through informed judgment and prudent risk management. ARENA staff are bound by the Australian Public Service Values and Code of Conduct.

As ARENA continues to help drive the development and deployment of renewable energy in Australia, we anticipate an increase in the volume of contact we have with our stakeholders. We aim to continue to deliver professional and timely services to an expanded customer base.

COMPLAINTS HANDLING

ARENA has an established internal complaints and review process, which allows reviews about ARENA decisions and complaints about service quality to be resolved fairly and simply.

In 2013-14 ARENA received one complaint, which was satisfactorily resolved. Information on the complaints and review process is available on the ARENA website.

PUBLIC GOVERNANCE, PERFORMANCE AND ACCOUNTABILITY ACT 2013

On 1 July 2014, Commonwealth government authorities currently administered under the Commonwealth Authorities and Companies Act 1997 and the Financial Management and Accountability Act 1997 become 'corporate Commonwealth entities' under the Public Governance, Performance and Accountability Act 2013 (PGPA Act). Board Directors and staff of corporate Commonwealth entities have a range of new duties under the PGPA Act.

The changes that the PGPA Act introduces highlight the importance for all Commonwealth entities to have in place robust governance arrangements. The PGPA Act seeks to implement a form of governance and accountability through a uniform set of duties and reporting framework.

To prepare for the impending changes from the implementation of the PGPA Act, ARENA has been:

- considering the new sources of authority in the PGPA Act and has been reviewing and updating internal controls and internal delegations
- considering opportunities to reform internal processes
- informing staff about the new legislative framework.

TRAINING AND DEVELOPMENT

ARENA's commitment to quality, innovation and professionalism are core elements of the organisation's competitive advantage and underpin ARENA as an employer of choice.

ARENA continued to invest in the training and development of its workforce throughout

All new employees go through an induction program. New ARENA employees meet

members of the Executive and learn more about current activities in ARENA. The following topics are included in ARENA's induction:

- Introduction to ARENA
- Overview of business functions including strategy, business development and contract negotiations, project management, strategic communication and knowledge management and business support functions
- Code of Conduct
- Conflict of interest
- Work health and safety
- Governance and compliance in ARENA
- Employment, learning and development and other mandatory departmental procedures.

PUBLIC INTEREST

The Public Interest Disclosure Scheme ('PID scheme') was established by the *Public Interest Disclosure Act 2013* ('PID Act') which came into effect on 15 January 2014. For the purposes of the PID Act, ARENA is a Commonwealth agency compelled to comply with the legislation.

Pursuant to Section 74 of the PID Act the Ombudsman has introduced PID rules and PID standards which individuals and Commonwealth agencies must also comply with when dealing with public interest disclosures.

The purpose of the PID Act is "to facilitate disclosure and investigation of wrongdoing and maladministration in the Commonwealth public sector....".

The new Act makes significant changes to the way in which most Commonwealth agencies (including ARENA) will deal with disclosures of misconduct by public officials, including reports of alleged breaches of the APS Code of Conduct.

FRAUD CONTROL

ARENA's Fraud Control Plan is based on the framework prescribed in the Commonwealth Fraud Control Guidelines 2011 (CFCG) as a matter of good practice. A Fraud Risk Assessment was completed in December 2013 and a revised Fraud Control Plan was released in March 2014.

The current ARENA Fraud Control Plan 2014-16 was approved by the Board in March 2014 and implementation continues. The plan outlines the organisation's key activities to ensure fraudulent activity is minimised.

ARENA participated in the annual fraud survey conducted by the Attorney-General's Department, which reports fraud data to the Australian Institute of Criminology. There were no cases of fraud in ARENA during the year.

All of ARENA's new employees are provided with fraud awareness training during their induction. Fraud awareness refresher training was also provided to staff during the year via a mandatory online training module.

FREEDOM OF INFORMATION AND INFORMATION PUBLICATION SCHEME

Australian Government entities that are subject to the *Freedom of Information Act 1982* (FOI Act) are required to publish information to the public as part of the Information Publication Scheme.

ARENA's publications covered by the scheme are accessible through the ARENA website at www.arena.gov.au. Consistent with its knowledge management agenda, ARENA publishes information relating to the renewable energy sector, including information from financial assistance recipients.

Information on how to make a request under the FOI Act is available on the Department of Industry's website. Contact details are:

FOI Coordinator Legal Branch Department of Industry GPO Box 9839 CANBERRA ACT 2601

Email: FOI@innovation.gov.au

Phone: +61 2 6102 8104

No requests for information under the FOI Act were received by ARENA in 2013-14.

INDEMNITIES AND INSURANCE PREMIUMS OF OFFICERS

ARENA is required by the Australian Government to use Comcover for its insurance needs. ARENA provides insurance cover to Board members and other officers in line with the CAC Act. Comcover's relevant insurance policy covers legal liability (including legal costs) for Board members and employees. The premium paid for this insurance for 2013-14 was \$267,691 (excluding GST).

INTERNAL AUDIT AND QUALITY ASSURANCE

The ARENA Risk and Audit Committee provides independent advice to the Board on ARENA's risk, control and compliance framework, as well as its external accountability responsibilities. The committee also provides a forum for communication between senior management and the internal auditor (Synergy) and the external auditor (Australian National Audit Office).

JUDICIAL DECISIONS AND REVIEWS BY OUTSIDE BODIES

In 2013-14, ARENA was not affected by judicial decisions or reviews by administrative tribunals, the Auditor-General, parliamentary committees, the Commonwealth Ombudsman or the Office of the Australian Information Commissioner.

ARENA received an unqualified audit report on its financial statements for 2013-14. The Auditor-General's independent report is presented in the financial statements section of this annual report.

KEY ACTIVITIES AND CHANGES AFFECTING ARENA

See page 11 for key activities and changes affecting ARENA including the Government's announcement in the 2014-15 Budget to abolish ARENA.

LEGAL EXPENDITURE

During 2013-14, ARENA incurred \$1,599,245 (excluding GST) in external legal service expenditure, in accordance with legal procurement rules and ARENA's procurement policy.

ARENA has reported the expenditure to the Office of Legal Services Coordination as required under the Legal Services Directions 2005.

RELATED ENTITY TRANSACTIONS

Details of related entity transactions are covered in Note 13 of the financial statements section of this report.

SUBSIDIARIES

ARENA did not have any subsidiaries during 2013-14.

WORK HEALTH AND SAFETY

The Work Health and Safety Act 2011 (WHS Act) aims to secure the health and safety of workers and workplaces by eliminating or minimising risks. ARENA personnel have a personal and proactive duty to exercise due diligence to ensure that ARENA complies with its obligations under the WHS legislation. To raise the level of awareness of obligations under WHS legislation, all ARENA personnel were encouraged to complete an on-line training module - 'WHS compliance - Apply knowledge of WHS legislation in the workplace' during 2013-14.

ARENA is committed to taking active steps to protect the health and safety of all employees, contractors, visitors and third parties.

In June 2013, the ARENA Board adopted the Work Health and Safety (WHS) ARENA Officers Manual and Due Diligence Framework and during 2013-14, ARENA has implemented the following aspects of the manual and framework:

- conducted safety discussions
- considered WHS at Executive and staff meetings
- informed funding recipients of their (and ARENA's) WHS obligations
- incorporated WHS clauses in ARENA Funding Agreements
- standing item on Board agenda
- reviewed WHS compliance in projects and measures funded by ARENA.

ARENA is supported in protecting the health and safety of its staff during its day-to-day operations by arrangements put in place by the department. Those arrangements incorporate:

- agreed responsibilities in maintaining a safe and healthy working environment for workers
- agreed WHS frameworks and consultative forums
- systems for identifying hazards and effectively managing risk
- measures for monitoring, evaluating and striving for continual improvement in WHS performance
- procedures for the reporting and resolution of WHS issues.

In respect of ARENA, no investigations were conducted nor notifiable incidents reported during 2013-14. Reporting in respect of departmental staff made available to ARENA is covered in the Department of Industry's Annual Report 2013-14.

TOMORROWS ENERGY INFRASTRUCTURE CREATING OPTIONS A FINANCIALISATION COMMERCIALISATION WORLD SKILLS FOR THE NEW JOBS FIRSTS FINTING

APPENDIX 1 ARENA APPOINTMENTS

ARENA BOARD

Section 17 of the *Australian Renewable Energy Agency Act 2011* (ARENA Act) provides that there is to be a Board of ARENA.

Responsibilities

The ARENA Board is a skills-based board. The functions of the Board involve:

- developing general funding strategies, financial assistance guidelines and work plans (Division 2 of Part 3 of the ARENA Act)
- determining other strategies, objectives and policies to be followed by ARENA
- ensuring that ARENA complies with the ARENA Act.

Pursuant to sections 71(1) and 72(1) of the ARENA Act, ARENA may delegate to the CEO the performance of certain specified powers and the exercise of certain specified functions, subject to any directions specified by the Board from time to time and any applicable ARENA policies and legislation.

Membership

Section 29 of the ARENA Act provides that the Board consists of:

- up to six members, appointed on a part-time basis by the Minister for Resources and Energy (now the Minister for Industry)
- the Secretary of the Department.

A person is eligible for appointment if the Minister is satisfied that the person has experience or knowledge in at least one of the following fields:

- renewable energy technology
- commercialisation
- business investment
- corporate governance.

A Board member is initially appointed for a term of up to two years, and may be reappointed for a total of up to six continuous years.

Greg Bourne Chair

Non-executive director

Appointed: July 2012

Term expiring: July 2015 Mr Bourne studied chemistry at the University of Western Australia via a scholarship from BP Refinery (Kwinana). After graduating with honours in 1971, he carried out research into refinery processes before joining BP Exploration. As a drilling engineer, he worked and lived in the United Kingdom, North America, South America, the Middle East, China and Australia.

In 1988, Mr Bourne was seconded to the Prime Minister's Policy Unit in the United Kingdom, where he was the Special Adviser on Energy and Transport.

Mr Bourne returned to Australia in 1992 to be in charge of BP Exploration's activities in Australia's North West Shelf region and Papua New Guinea. After working overseas as Director, BP Scotland, and then Regional Director, Latin America, based in Caracas, he returned to Australia in 1999 to become Regional President, BP Australasia, the position from which he retired from BP in 2003.

In 2004, Mr Bourne was appointed Chief Executive Officer of WWF Australia, a position he held until 2010.

Mr Bourne is a member of a number of government and business advisory groups primarily concerned with energy, climate change and sustainability. He was awarded the Centenary Medal for services to the environment and an Honorary Doctorate from the University of Western Australia for services to international business.

Glenys Beauchamp Ex-officio director

Commenced: September 2013 Ms Beauchamp was appointed Secretary of the Department of Industry on 18 September 2013. She has had an extensive career in the Australian Public Service at senior levels, with responsibility for a number of significant government programs.

Ms Beauchamp has more than 25 years' experience in the public sector and began her career as a graduate in the Industry Commission.

Prior to her current role, Glenys was Secretary of the Department of Regional Australia, Local Government, Arts and Sport. She has served as Deputy Secretary of the Department of the Prime Minister and Cabinet, and the Department of Families, Housing, Community Services and Indigenous Affairs.

Ms Beauchamp has held a number of executive positions in the Australian Capital Territory Government, including Deputy Chief Executive of the Department of Disability, Housing and Community Services, and Deputy Chief Executive Officer of the Department of Health.

In 2010, Ms Beauchamp was awarded a Public Service Medal for coordinating Australian Government support during the 2009 Victorian bushfires.

Ms Beauchamp has an economics degree from the Australian National University and an MBA from the University of Canberra.

Blair Comley Ex-officio director

Commenced: March 2013

Term ended: September 2013 Mr Comley was Secretary of the Department of Resources, Energy and Tourism from March to September 2013. Prior to this appointment, he was Secretary of the Department of Climate Change and Energy Efficiency (DCCEE).

Mr Comley's previous roles included Deputy Secretary of DCCEE, with executive oversight of climate change strategy and market instruments, international climate change policy, and issues related to the land sector. He has also held senior positions in the Treasury, including General Manager of the Business Tax Division, Indirect Tax Division, Macroeconomic Policy Division and Debt Management Review Team.

Mr Comley represented Australia for three years on economic matters at the Organisation for Economic Co-operation and Development and was the Acting Chief Executive Officer of the Australian Office of Financial Management, with responsibility for managing the Australian Government's debt and related derivative portfolio. He has previously worked on competition policy, environment policy and welfare reform.

Mr Comley holds a Bachelor of Economics (Honours) and a Master of Economics from Monash University as well as a Graduate Diploma in Legal Studies from the Australian National University. He was awarded a Public Service Medal in 2012 for his outstanding contribution in the development of public policy.

Betsy Donaghey Non-executive director

Appointed: July 2012

Resigned: June 2014 Ms Donaghey is currently a Director of Imdex, a company that provides drilling fluids and instrumentation to the mining, oil and gas, water well, and civil engineering industries. She is also a Director of St Barbara, a gold production and exploration company.

Ms Donaghey was a Solar Flagships Council member.

From 2000 until 2009, Ms Donaghey worked for Woodside Petroleum in various senior roles, including Senior Vice President of the Australian Business Unit and Executive Vice President of the Browse Business Unit. Prior to joining Woodside Petroleum, she worked for BHP Billiton for 19 years.

Ms Donaghey holds a Bachelor of Science (Civil Engineering) from Texas A&M University and a Master of Science (Operations Research) from the University of Houston. She has also completed the Advanced Management Program at Harvard Business School.

Judith Smith Non-executive director

Appointed: July 2012

Term expiring: July 2015 Until 2013, Ms Smith was the Head of Private Equity, Industry Funds Management (IFM) (now known as IFM Investors), and Chair of the IFM Risk Committee. She was also Deputy Chair of the IFM Investments and Strategy Committee, a role she retains post-retirement from the firm.

Prior to joining IFM, Ms Smith held various investment management roles. During more than a decade at National Mutual Funds Management, she managed Australian equity portfolios (including large capitalisation portfolios, specialist small company portfolios and private equity investments) and Australian equity research and strategy.

Ms Smith has been involved with private equity in the Australian market since 1990. She was a board member of Australian Private Equity and Venture Capital Association Limited and participated on a number of fund advisory boards. Ms Smith is on the board of the Acorn Capital Investment Fund.

Ms Smith holds a Master of Applied Finance from the University of Melbourne and a Bachelor of Economics (Honours) from Monash University. She is a Fellow of the Financial Services Institute of Australasia and Graduate of the Australian Institute of Company Directors.

Brian Spalding Non-executive director

Dr Spalding is a Commissioner at the Australian Energy Market Commission and was a Board member of the former Australian Centre for Renewable Energy.

Appointed: May 2012 Dr Spalding has had more than 30 years' experience in power system operations. He played a key role in the implementation and operation of electricity markets, in New South Wales and nationally, from the early 1990s.

Term expired: June 2014 In 2008, Dr Spalding became Chief Executive Officer of National Electricity Market Management Company and was responsible for the day-to-day operations of the National Electricity Market and the electricity power system for southern and eastern Australia. In 2009, he became Executive General Manager, Operations, of the Australian Energy Market Operator.

Dr Spalding holds a Bachelor of Science, a Bachelor of Engineering (Electrical Honours Class 1) and University Medal, and a Doctor of Philosophy in power system analysis from the University of New South Wales.

Mark Twidell Non-executive director

From 2009 until 2012, Mr Twidell was the Executive Director of the Australian Solar Institute. He was also a Solar Flagships Council member.

Appointed: July 2012 Mr Twidell has over 20 years' experience in the Australian renewable energy sector. From 1988 until 2009, he held senior roles with BP Solar in Australia, America and Asia. Between 2006 and 2009, he was the BP Solar Performance Unit Leader based in India. In this role, he was responsible for all activity outside of Europe and the United States. Prior to this role, he was the BP Solar Australia Regional Director, Australia-Asia.

Resigned: October 2013

Mr Twidell holds a Bachelor of Science in Electrical and Electronic Engineering (Honours) from the University of Edinburgh and a Master of Business Administration from the Graduate School of Business, Sydney University.

Jane Sargison Non-executive director

Dr Sargison BE (Hons), DPhil, GAICD, CPEng, FIEAust is a mechanical engineer with a background in energy industry research and development. She is Director of her business, JSA Consulting Engineers.

Appointed: July 2012 Dr Sargison is a director of the board of TasWater and the Executive Director of Rainbow Bee Eater Pty Ltd, a technology start-up company which develops straw-to-energy power stations with carbon sequestration via biochar across the West Australian wheat belt.

Resigned: August 2013

Dr Sargison was a Rhodes Scholar and was named the Tasmanian and National Professional Engineer of the Year for 2011 by Engineers Australia.

Meetings

The Board formally met 10 times in 2013-14.

TABLE 7 ARENA BOARD MEETINGS, 2013-14

DATE	MEETING	LOCATION	ATTENDANCE (IN PERSON AND VIA TELECONFERENCE)
7 August 2013	13th Board meeting	Canberra, ACT	All Board members
25 September 2013	14th Board meeting	Canberra, ACT	All Board members
			Secretary's alternate: Ms Helen Bennett
23 October 2013	15th Board meeting	Canberra, ACT	All Board members
			Secretary's alternate: Ms Helen Bennett
14 November 2013	16th Board meeting	Teleconference	All Board members
			Secretary's alternate: Mr Subho Banerjee
28 November 2013	17th Board meeting	Perth, WA	All Board members
			Secretary's alternate: Mr Subho Banerjee
11 December 2013	18th Board meeting	Canberra, ACT	All Board members
			Secretary's alternate for different parts of meeting: Mr Subho Banerjee, Ms Helen Bennett
26 February 2014	19th Board meeting	Canberra, ACT	All Board members
			Secretary's alternate for different parts of meeting: Mr Martin Hoffman, Ms Helen Bennett
26 March 2014	20th Board meeting	Canberra, ACT	All Board members
			Secretary's alternate for part of meeting: Ms Helen Bennett (Secretary attended part meeting)
21 May 2014	21st Board meeting	Canberra, ACT	All Board members
			Secretary's alternate for part of meeting: Ms Helen Bennett (Secretary attended part meeting)
18-19 June 2014	22nd Board meeting	Canberra, ACT	Greg Bourne, Betsy Donaghey, Judith Smith
			Secretary's alternate for different parts of meeting: Mr Martin Hoffman, Mr Greg Divall
			Apology: Brian Spalding

Reporting

Following each Board meeting, the Chair provided the Minister with a report on the key outcomes of that meeting.

Subcommittees

In 2012-13, the Board established a Risk and Audit Committee (RAC), in compliance

with section 32 of the *Commonwealth Authorities and Companies Act 1997* (CAC Act) and Regulation 6A of the Commonwealth Authorities and Companies Regulations 1997 (CAC Regulations), and as authorised by section 48 of the ARENA Act. More information on the RAC is available on page 50.

ARENA CHIEF EXECUTIVE OFFICER

Section 50 of the ARENA Act provides that there is to be a Chief Executive Officer (CEO) of ARENA. Under section 52 of the ARENA Act, the CEO is appointed on a full-time basis by the Minister (on the recommendation of the Board) for a period of up to three years.

The CEO has responsibility for the day-to-day business of ARENA, including:

- executing directions of the Board
- overseeing administration of existing projects
- supporting the Board to develop and execute its funding strategy, forward work plan and initiatives

- representing ARENA at public events and managing stakeholder engagement
- analysing and sharing knowledge and information about renewable energy technologies
- developing advice to the Minister on renewable energy technology innovation.

Mr Ivor Frischknecht continued as CEO of ARENA for 2013-14.

FIGURE 11 ARENA CHIEF EXECUTIVE OFFICER, 2013-14

Ivor Frischknecht

Appointed: 6 August 2012

Term expiring: 5 August 2015

Mr Frischknecht is a former Investment Director of Starfish Ventures Pty Ltd, a venture capital firm that manages \$400 million, primarily on behalf of Australian superannuation funds. His key activities included responsibility for the firm's clean tech investment activities in areas such as energy, water and environmental technologies.

Mr Frischknecht was previously Director, New Ventures, of Idealab, a company involved in developing and investing in technology start-up companies, including renewable energy companies. He was also previously the CEO of H2OnSite, a company involved in the commercialisation of clean energy generation technology, and a senior executive and adviser to a range of venture capital and energy companies.

Mr Frischknecht holds a Bachelor of Laws and Bachelor of Economics (Honours) from the University of Sydney, and a Master of Business Administration and Public Management Certificate from the Stanford University Graduate School of Business.

ARENA CHIEF FINANCIAL OFFICER

Section 61 of the ARENA Act provides that ARENA may employ a person to perform Chief Financial Officer (CFO) functions. The CFO for 2013-14 was Mr Ian Kay.

ARENA RISK AND AUDIT COMMITTEE

The RAC provides independent assurance and advice to the Board on ARENA's risk, control and compliance framework, governance arrangements and financial statement responsibilities.

The Board has authorised the RAC, within the scope of its responsibilities, to:

- obtain any information that it requires from any employee or external party (subject to any legal obligation to protect information)
- discuss any matters with the external auditor or other external parties (subject to confidentiality considerations)
- request the attendance of any Board member or ARENA staff member, including the CEO, at RAC meetings
- obtain legal or other professional advice, as considered necessary to meet its responsibilities, at ARENA's expense (to a pre-approved limit of \$100,000 in any financial year and in excess of that amount with approval of the Chair).

Responsibilities

RAC members are expected to understand and observe the legal requirements of the CAC Act and CAC Regulations. Members are also expected to:

- act in the interests of ARENA
- apply good analytical skills, objectivity and good judgment
- express opinions constructively and openly
- raise issues that relate to the committee's responsibilities and pursue independent lines of enquiry.

Membership

RAC members in 2013-14 were:

- Ms Judith Smith (RAC Chair and Board member)
- Ms Betsy Donaghey (Board member)
- Ms Jenny Morison
- Mr Peter Thomas.

Meetings

The RAC formally met four times in 2013-14.

Reporting

Following each RAC meeting, the RAC Chair provided the Board with a report on the key outcomes of that meeting.

Subcommittees

No subcommittees were established under the RAC.

TABLE 8 ARENA RISK AND AUDIT COMMITTEE MEETINGS, 2013-14

DATE	MEETING	LOCATION	ATTENDANCE (IN PERSON AND VIA TELECONFERENCE)
26 August 2013	5th RAC meeting	Canberra, ACT	All members
28 October 2013	6th RAC meeting	Canberra, ACT	Judith Smith, Betsy Donaghey, Peter Thomas
			Apology: Jenny Morison
12 March 2014	7th RAC meeting	Canberra, ACT	All members
12 May 2014	8th RAC meeting	Canberra, ACT	All members

APPENDIX 2 FINANCIAL ASSISTANCE

Section 70(c) of the ARENA Act requires ARENA to publish details of financial assistance agreements and progress. In addition, section 28 of the *Australian Renewable Energy Agency (Consequential Amendments and Transitional Provisions) Act 2011* requires ARENA to report details of people to whom financial assistance is provided under a transferred Commonwealth funding agreement or ASI Limited agreement.

TABLE 9 FINANCIAL ASSISTANCE, 2013-14

*Funds committed to ongoing projects or total funds paid to complete or discontinued projects.

Project name	Description	Location	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
Alinta Energy	Port Augusta Solar Thermal Generation Measure	SA	\$1,000,000	Hybrid	On track
ANU 1-A039	1-A039 Plasmonics for high efficiency solar cells	ACT	\$1,573,137	Solar PV	Complete
ANU 1-A041	Next generation SLIVER solar cells	ACT	\$4,953,473	Solar PV	On track
ANU 1-GER006	Local doping using Laser Chemical Processing (LCP)	ACT	\$352,365	Solar PV	On track
ANU 1-UFA006	Improved High-Temperature Receivers for Dish Concentrators	ACT	\$1,436,210	Solar Thermal	On track
ANU 1-US0012	Machine-learning-based forecasting of distributed solar energy	ACT	\$799,522	Solar Enabling	On track
ANU 2-A008	Industry Ready n-type Silicon Solar Cells	ACT	\$3,335,254	Solar PV	On track
ANU 2-A017	Roof mounted hybrid CST system for distributed generation	ACT	\$3,235,710	Solar Thermal	On track
ANU 3-GER002	High quality laser doping for solar cells through improved characterisation	ACT	\$446,582	Solar PV	On track
AUSTELA	Potential Network Benefits of Solar Thermal Generation in the NEM	NSW	\$179,965	Solar Enabling	Complete
AUSTELA	Improving accessibility of System Advisor Model	NSW	\$73,500	Solar Enabling	Complete
Australian PV Institute	Active Participation in Distributed Energy Market	NSW	\$173,550	Solar Enabling	Complete
Australian PV Institute	Climate-based PV Module Rating Scheme	NSW	\$268,320	Enabling	On track
Australian PV Institute	Development of an interactive Australian Solar Map	NSW	\$436,478	Enabling	On track
Barbara Hardy Institute 3-A019	Development of high temp phase change storage syst & test facility	SA	\$689,500	Solar Thermal	On track
Bluescope Steel Ltd	Develop a prototype Building Integrated PV product	NSW	\$2,284,800	Solar PV	On track
Bluescope Steel Ltd 1-GER005	Expanding the Value Proposition for BIPV	NSW	\$477,320	Solar PV	On track

Project name	Description	Location	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
Bureau of Sugar Expmtl Stations	Cane2Fuel: a biomass input system for producing second generation biofuels	QLD	\$1,326,000	Bioenergy	Complete
C2K	Feasibility study for an off-grid renewable energy island in the Pilbara	WA	\$300,000	Bioenergy	On track
CAT Projects 3-A009	Analysis of instantaneous weather effects across the Geographic Boundaries of an Electricity Grid	NT	\$242,625	Solar Enabling	On track
Clean Energy Council	Future Proofing Australia's Electricity Industry - Stage 1	VIC	\$452,850	Enabling	On track
CSIRO	Solar Thermal Research Hub	NSW	\$5,000,000	Solar Thermal	On track
CSIRO 1-A073A	Advanced solar thermal energy storage	NSW	\$3,538,846	Solar Thermal	On track
CSIRO 1-A077A	Advanced steam-generating receivers	NSW	\$2,821,978	Solar Thermal	On track
CSIRO 1-SRI002	Australian Solar Thermal Research Initiative (ASTRI)	NSW	\$35,000,000	Solar Thermal	On track
CSIRO 1-UFA004	Solar-driven Supercritical CO2 Brayton Cycle	NSW	\$2,496,835	Solar Thermal	On track
CSIRO 1-UFA005	Improving translation models for predicting energy yield of PV	NSW	\$1,318,722	Enabling	On track
CSIRO 1-UFA007	Integrated Solar Radiation Data Sources over Australia	ACT	\$712,581	Enabling	On track
CSIRO 1-USO006	Australian Solar Energy Forecasting System (ASEFS)—Phase 1	ACT	\$3,089,000	Enabling	On track
CSIRO 1-US0031	Optimisation of central receivers for advanced power cycles	NSW	\$1,150,879	Solar Thermal	On track
CSIRO 1-US0032	Plug and Play Solar Power: Integration of Solar in Hybrids	NSW	\$1,292,725	Enabling	On track
CSIRO 1-US0033	Development of Combined Cycle using solar reformed gas	NSW	\$351,453	Solar Thermal	On track
CSIRO 2-A015	A Novel Thermoelectric Topping Cycle Receiver for CST Applications	NSW	\$2,200,912	Solar Thermal	On track
CSIRO 2-A021	Solar Powered Air Turbine Systems	NSW	\$3,055,000	Solar Thermal	On track
CSIRO 3-A006	Evaluation and demonstration of hybridisation of CST with CCS	NSW	\$667,500	Solar Thermal	On track
CSIRO 3-A012A	Hybrid CST Systems for Large Scale Applications	VIC	\$520,011	Solar Thermal	On track
CSIRO 3-A018	Solar Hybrid Fuels	NSW	\$1,585,853	Solar Thermal	On track
CSIRO 3-A020	Solar Energy Management (SEM) System for Utilities	QLD	\$225,715	Solar Enabling	On track
lpsos Institute	Social License to Operate Large-Scale Solar	NSW	\$153,388	Solar Enabling	On track

Project name	Description	Location	*Funding	Technology	Assessment
			provided/ committed (GST exclusive)		of progress/ expected progress 2013-14
Laing O'Rourke Australia Pty Ltd	Redeployable Hybrid Power Generation Feasibility Study	NSW	\$410,309	Hybrid	On track
Licella P/L	Biomass to Bio-Crude: Producing Advanced Drop-in Fuels for Australia	NSW	\$5,423,155	Bioenergy	On track
MOR	Community owned solar	SA	\$15,000	Solar Enabling	Complete
National ICT Aust	Data fusion and machine learning for Geo Exploration and Characterisation	NSW	\$1,901,980	Geothermal	On track
Newcastle Uni 1-A065	Fabrication of thermionic devices	NSW	\$515,359	Solar Thermal	On track
Power and Water Corp	Daly River Load Optmisation	NT	\$462,357	Enabling	Complete
Qantas Airways Ltd	Alt Aviation Fuel Feasibility study re Aust Feedstock & Refining Capacity	NSW	\$575,000	Bioenergy	Complete
RATCH-Aust Corp Ltd	Feasibility of converting Collinsville Coal Power Station to Solar Thermal	QLD	\$2,500,000	Solar Thermal	On track
RayGen Resources 3-A004	Central Receiver CPV Pilot Project – Stage 2	VIC	\$1,750,000	Solar PV	On track
RMIT 1-USOMUSIC	1-USOMUSIC: Micro-urban solar integrated concentrators	VIC	\$4,521,191	Solar Thermal	On track
Solar Systems 3-A010	High-Efficiency Multi-Junction Solar Cells on Low-Cost, Large-Area	NSW	\$2,000,000	Solar PV	On track
Suntech 3-GER003	Novel Texture Processes for the Latest Industrial Wafer	NSW	\$495,000	Solar PV	On track
Syd Uni 2-A023	Upconversion of the solar spectrum for improved PV energy conversion	NSW	\$487,584	Solar PV	On track
Uni NSW/ Suntech 2-A014A	Next Generation Crystalline Silicon on Glass	NSW	\$1,178,000	Solar PV	On track
Jni of Adelaide	Reservoir Quality in Sedimentary Geothermal Resources	SA	\$1,250,000	Geothermal	On track
Jni of Melb	Achieving cost-effective abatement from Australian electricity generation	VIC	\$931,207	Enabling	On track
Jni of Melb 1-GER001	Enhancing Efficiencies in Printed Solar Cells	VIC	\$500,000	Solar PV	On track
Jni of Melb 2-A018	Printing Solar Cells – A manufacturing proposition for Australia	VIC	\$1,762,500	Solar PV	On track
Jni of NSW 1-A060	Develop & commercialise high efficiency silicon solar cell tech	NSW	\$3,972,980	Solar PV	On track
Jni of NSW 1-A082	Overcoming performance limitations of commercial solar cells	NSW	\$4,400,000	Solar PV	On track
Jni of NSW 1-GER003	Si nanocrystals embedded in silicon oxide and nitride	NSW	\$500,000	Solar PV	On track
Jni of NSW 1-GER010	Time-and spectrally resolved Photoluminescents for Silicon Solar	NSW	\$490,166	Solar PV	On track

Photovoltaics Uni of NSW 1-UFA001	Project name	Description	Location	"Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
Uni of NSW 1-UFA002 Multi-Junction c-Si Solar Cells Based on NSW \$1,265,000 Solar PV On track Uni of NSW 1-UFA003 Towards a practical Hot Carrier Solar Cell NSW \$2,278,343 Solar PV On track Uni of NSW 1-US0028 Low-cost, high-efficiency Copper-Zinc-Tin-NSW \$1,511,828 Solar PV On track Sulphide (CZTS) silicon Tools for design and scale up of solar NSW \$1,083,320 Solar Thermal On track thermo-chemical reactors NSW \$1,083,320 Solar Thermal On track Uni of NSW 2-A001 Tandem Quantum Dot Solar Cells NSW \$1,083,320 Solar Thermal On track Uni of NSW 2-A002 40% Efficient Photovoltaic "Power Cube" NSW \$1,375,000 Solar PV On track Power Tower Receiver NSW \$550,000 Solar PV On track Solar Energy NSW 2-A004 Forecasting & Characterising Grid Connected NSW \$470,284 Enabling On track Solar Energy Power Tower Receiver Old NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Old 1-A086 New Materials and architectures for organic OLD \$945,817 Solar PV Complete solar cells New Apotocathodes for solar hydrogen SA \$500,000 Solar Thermal On track University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Solar P/L Vast solar BMWth grid connected multimodule CST plant with thermal storage NSW \$4,996,960 Solar Thermal On track Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 1-SRI001		NSW	\$33,100,000	Solar PV	On track
Virtual Ge Substrates Uni of NSW 1-UFA003 Towards a practical Hot Carrier Solar Cell NSW \$2,278,343 Solar PV On track Uni of NSW 1-US0028 Low-cost, high-efficiency Copper-Zinc-Tin- Sulphide (CZTS) silicon Uni of NSW 1-US0034 Tools for design and scale up of solar thermo-chemical reactors Uni of NSW 2-A001 Tandem Quantum Dot Solar Cells NSW \$1,375,000 Solar PV On track Uni of NSW 2-A002 40% Efficient Photovoltaic "Power Cube" NSW \$550,000 Solar PV On track Uni of NSW 2-A002 Forecasting & Characterising Grid Connected NSW \$470,284 Enabling On track Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of QId 1-A086 New Materials and architectures for organic solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen production University of Technology Sydney (UTS) Community Energy Strategy: Catalysing Sydney (UTS) Vast Solar P/L Vast solar 6MWth grid connected multi- module CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$613,377 Hydro On track Varatah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 1-UFA001		NSW	\$2,480,000	Solar PV	On track
Uni of NSW 1-US0028 Low-cost, high-efficiency Copper-Zinc-Tin- NSW \$1,511,828 Solar PV On track Sulphide (CZTS) silicon Uni of NSW 1-US0034 Tools for design and scale up of solar NSW \$1,083,320 Solar Thermal On track thermo-chemical reactors Uni of NSW 2-A001 Tandem Quantum Dot Solar Cells NSW \$1,375,000 Solar PV On track Uni of NSW 2-A002 40% Efficient Photovoltaic "Power Cube" NSW \$550,000 Solar PV On track Power Tower Receiver Uni of NSW 2-A002 Forecasting & Characterising Grid Connected NSW \$470,284 Enabling On track Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Qld 1-A086 New Materials and architectures for organic Solar Cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen SA \$500,000 Solar Thermal On track Production University of Technology Community Energy Strategy: Catalysing Sydney (UTS) Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 1-UFA002		NSW	\$1,265,000	Solar PV	On track
Sulphide (CZTS) silicon Uni of NSW 1-US0034 Tools for design and scale up of solar thermo-chemical reactors Uni of NSW 2-A001 Tandem Quantum Dot Solar Cells NSW \$1,375,000 Solar PV On track Uni of NSW 2-A002 40% Efficient Photovoltaic "Power Cube" NSW \$550,000 Solar PV On track Power Tower Receiver Uni of NSW 2-A004 Forecasting & Characterising Grid Connected Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Qld 1-A086 New Materials and architectures for organic solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen production University of Technology Sydney (UTS) Community Energy Strategy: Catalysing Sydney (UTS) Vast Solar P/L Vast solar BMIWth grid connected multi- module CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Nortack Nortack NSW \$2,114,820 Bioenergy On track Nortack Nortack NSW \$2,114,820 Bioenergy On track Nortack Nortack Nortack NSW \$2,114,820 Bioenergy Nortack Nortack Nortack Nortack Nortack Nortack Nortack Nortack NSW \$2,114,820 Nortack Nortack Nortack Nortack Nortack Nortack NSW \$2,114,820 Nortack Nortack Nortack Nortack Nortack NSW \$613,377 Nortack NSW \$613,377 Nortack Nortack NSW \$613,377 Nortack Nortack NSW \$613,377 Nortack NSW \$613,377 Nortack Nortack NSW \$613,377 Nortack	Uni of NSW 1-UFA003	Towards a practical Hot Carrier Solar Cell	NSW	\$2,278,343	Solar PV	On track
thermo-chemical reactors Uni of NSW 2-A001 Tandem Quantum Dot Solar Cells NSW \$1,375,000 Solar PV On track Uni of NSW 2-A002 40% Efficient Photovoltaic "Power Cube" NSW \$550,000 Solar PV On track Power Tower Receiver Uni of NSW 2-A004 Forecasting & Characterising Grid Connected NSW \$470,284 Enabling On track Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Qld 1-A086 New Materials and architectures for organic Solar Cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen Production University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 1-US0028		NSW	\$1,511,828	Solar PV	On track
Uni of NSW 2-A002	Uni of NSW 1-US0034		NSW	\$1,083,320	Solar Thermal	On track
Power Tower Receiver Uni of NSW 2-A004 Forecasting & Characterising Grid Connected NSW \$470,284 Enabling On track Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Old 1-A086 New Materials and architectures for organic OLD \$945,817 Solar PV Complete solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen SA \$500,000 Solar Thermal On track production University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Community Renewables in Australia Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Pty Ltd Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 2-A001	Tandem Quantum Dot Solar Cells	NSW	\$1,375,000	Solar PV	On track
Solar Energy Uni of NSW 2-A005 The Hot Carrier Solar Cell NSW \$563,906 Solar PV On track Uni of Old 1-A086 New Materials and architectures for organic oLD \$945,817 Solar PV Complete solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen SA \$500,000 Solar Thermal On track production University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Sydney (UTS) Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Pty Ltd Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 2-A002	,. =	NSW	\$550,000	Solar PV	On track
Uni of Old 1-A086 New Materials and architectures for organic old \$945,817 Solar PV Complete solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen production University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Community Renewables in Australia Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Solar P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 2-A004		NSW	\$470,284	Enabling	On track
solar cells Uni of Sth Aust 3-GER001 New photocathodes for solar hydrogen production University of Technology Community Energy Strategy: Catalysing Sydney (UTS) Community Renewables in Australia Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of NSW 2-A005	The Hot Carrier Solar Cell	NSW	\$563,906	Solar PV	On track
production University of Technology Community Energy Strategy: Catalysing NSW \$165,280 Enabling On track Sydney (UTS) Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Pty Ltd Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Uni of Qld 1-A086		QLD	\$945,817	Solar PV	Complete
Sydney (UTS) Community Renewables in Australia Vast Solar P/L Vast solar 6MWth grid connected multimodule CST plant with thermal storage Visy Industries Australia Pty Ltd Visy Clean Energy Project NSW \$4,996,960 Solar Thermal On track Pty Ltd Bioenergy On track Visy Clean Energy Project NSW \$613,377 Hydro On track	Uni of Sth Aust 3-GER001		SA	\$500,000	Solar Thermal	On track
module CST plant with thermal storage Visy Industries Australia Pty Ltd Visy Clean Energy Project NSW \$2,114,820 Bioenergy On track Pty Ltd Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track			NSW	\$165,280	Enabling	On track
Pty Ltd Waratah Power P/L Developing fish friendly design criteria for NSW \$613,377 Hydro On track	Vast Solar P/L		NSW	\$4,996,960	Solar Thermal	On track
	,	Visy Clean Energy Project	NSW	\$2,114,820	Bioenergy	On track
	Waratah Power P/L		NSW	\$613,377	Hydro	On track

University/Institution	Scholar	Type of funding	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/expected progress 2013-14
ANU	Thomas Ratcliff	Scholarship	\$21,759	Solar	Ongoing
ANU	James Bullock	Scholarship	\$65,679	Solar	Ongoing
ANU	Jaret Lee	Scholarship	\$30,445	Solar	Ongoing
ANU	Niraj Lal	Fellowship	\$251,630	Solar	Ongoing
ANU	Fiacre Rougieux	Fellowship	\$225,353	Solar	Ongoing
ANU	Andrew Thomson	Fellowship	\$347,054	Solar	Ongoing
ANU	Elizabeth Thomsen	Fellowship	\$250,000	Solar	Ongoing
ANU	Ngwe Soe Josh Zin	Fellowship	\$250,000	Solar	Ongoing
ANU	Andreas Fell	Fellowship	\$359,490	Solar	Ongoing
ANU	Thomas Allen	Scholarship	\$204,511	Solar	Ongoing
ANU	Da Wang	Scholarship	\$215,525	Solar	Ongoing
ANU	Nicholas Grant	Fellowship	\$364,120	Solar	Ongoing
ANU	Jose Zapata	Fellowship	\$331,057	Solar	Ongoing
ANU	Xinbo Yang	Fellowship	\$356,446	Solar	Ongoing
ANU	Qunyu Bi	Fellowship	\$356,749	Solar	Ongoing
ANU	Katherine Booker	Fellowship	\$371,993	Solar	Ongoing
ANU	Keith Sue	Scholarship	\$120,000	Solar	Ongoing
Charles Darwin	Wai Kean Yap	Fellowship	\$233,412	Solar	Ongoing
CSIRO	Kallista Sears	Fellowship	\$236,478	Solar	Ongoing
CSIRO	Krishna Feron	Fellowship	\$230,446	Solar	Ongoing
CSIRO	Hasitha Weerasinghe	Fellowship	\$332,039	Solar	Ongoing
CSIRO	Tianshi Qin	Fellowship	\$329,231	Solar	Ongoing
CSIRO	Timothy Jones	Fellowship	\$329,231	Solar	Ongoing
Monash	Alex Pascoe	Scholarship	\$48,816	Solar	Ongoing
Murdoch	Tobias Prosin	Scholarship	\$120,000	Solar	Ongoing
RMIT	Ahmad Mojiri	Scholarship	\$39,815	Solar	Ongoing
Swinburne University	Wensheng Yan	Fellowship	\$335,391	Solar	Ongoing
Swinburne University	Ben Ekman	Scholarship	\$130,093	Solar	Ongoing
Swinburne University	Benjamin Mashford	Fellowship	\$337,516	Solar	Ongoing
Sydney University	Bjorn Sturmberg	Scholarship	\$48,815	Solar	Ongoing
Sydney University	Miroslav Dvorak	Fellowship	\$339,112	Solar	Ongoing
Sydney University	Alexandre La Fontaine	Scholarship	\$119,600	Solar	Ongoing
University of Adelaide	Philip van Eyk	Fellowship	\$273,856	Solar	Ongoing

University/ Institution	Scholar	Type of funding	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/expected progress 2013-14
University of Adelaide	Martin Belusko	Fellowship	\$394,585	Solar	Ongoing
University of Melbourne	Wallace Wing Ho Wong	Fellowship	\$324,515	Solar	Ongoing
University of Melbourne	Shuhua Peng	Fellowship	\$336,612	Solar	Ongoing
University of Melbourne	Viktoras Dryza	Fellowship	\$325,928	Solar	Ongoing
University of Melbourne	Kyra Schwarz	Scholarship	\$72,336	Solar	Ongoing
University of Newcastle	Natalie Holmes	Scholarship	\$38,013	Solar	Ongoing
University of Newcastle	Dylan Cuskelly	Scholarship	\$154,268	Solar	Ongoing
University of Newcastle	Mitchell Wilson	Scholarship	\$75,333	Solar	Ongoing
University of Newcastle	Anthony Rawson	Scholarship	\$163,479	Solar	Ongoing
University of Queensland	Ajay K Pandey	Fellowship	\$445,254	Solar	Ongoing
University of Queensland	Yuan Fang	Fellowship	\$382,764	Solar	Ongoing
University of South Australia	Shane Sheoran	Scholarship	\$120,000	Solar	Ongoing
University of South Australia	Ming Liu	Fellowship	\$278,136	Solar	Ongoing
University of South Australia	Nguan Hwee Steven Tay	Fellowship	\$318,796	Solar	Ongoing
University of Western Sydney	Guodong Du	Fellowship	\$321,768	Solar	Discontinued
University of Western Sydney	Wenxian Li	Fellowship	\$200,357	Solar	Ongoing
University of Wollongong	Andrew Nattestad	Fellowship	\$396,321	Solar	Ongoing
University of Wollongong	Joesph Giorgio	Scholarship	\$43,305	Solar	Ongoing
UNSW	Andrew Danos	Scholarship	\$190,471	Solar	Ongoing
UNSW	Tom Keevers	Scholarship	\$31,129	Solar	Ongoing
UNSW	Xiaojing Hao	Fellowship	\$315,015	Solar	Ongoing
UNSW	Nicholas Boerema	Scholarship	\$19,678	Solar	Ongoing
UNSW	Jonathon Dore	Scholarship	\$20,418	Solar	Ongoing
UNSW	Jae Sung Yun	Scholarship	\$84,901	Solar	Ongoing
UNSW	Simon Heslop	Scholarship	\$121,321	Solar	Ongoing
UNSW	Thilini Ishwara	Fellowship	\$363,772	Solar	Ongoing
UNSW	Clare Disney	Scholarship	\$106,668	Solar	Ongoing
UNSW	Robert Patterson	Fellowship	\$322,383	Solar	Ongoing
UNSW	Supriya Pillai	Fellowship	\$370,288	Solar	Ongoing
UNSW	Jianshu Han/Allen Barnett	Scholarship	\$234,554	Solar	Ongoing
UNSW	Henner Kampwerth	Fellowship	\$432,249	Solar	Ongoing
UNSW	Chao Shen	Scholarship	\$174,419	Solar	Ongoing
UNSW	Adrian Shi	Scholarship	\$196,838	Solar	Ongoing

University/ Institution	Scholar	Type of funding	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/expected progress 2013-14
UNSW	Vincent Allen	Scholarship	\$233,864	Solar	Ongoing
UNSW	Matthew Edwards	Fellowship	\$289,089	Solar	Ongoing
UNSW	Xi Wang	Fellowship	\$382,148	Solar	Ongoing
UNSW	Sammy Lee	Fellowship	\$330,195	Solar	Ongoing
UNSW	Binesh Puthen Veettil	Fellowship	\$330,195	Solar	Ongoing
UNSW	Gough Lui	Scholarship	\$27,816	Solar	Ongoing
UNSW	Edward Law	Scholarship	\$45,888	Solar	Ongoing
UNSW	Alexander To	Scholarship	\$45,888	Solar	Ongoing
UNSW	Simon Chung	Scholarship	\$40,544	Solar	Ongoing
UNSW	Sisi Wang	Scholarship	\$31,041	Solar	Ongoing
UNSW	Yang Yang	Fellowship	\$330,195	Solar	Ongoing
UNSW	Peerapat Vithayasrichareon	Fellowship	\$396,843	Solar	Ongoing
UNSW	Zi Ouyang	Fellowship	\$391,717	Solar	Ongoing
UNSW	Bernard Mitchell	Fellowship	\$330,195	Solar	Ongoing
UNSW	Hangtao Cui Bi	Fellowship	\$330,195	Solar	Ongoing
UNSW	Murad Tayebjee	Fellowship	\$330,195	Solar	Ongoing
UNSW	Craig Johnson	Fellowship	\$216,241	Solar	Ongoing
Total		83	\$19,063,784		

DEPLOYMENT					
Project name	Description	Location	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
AGL	Fixed angle PV power stations at Broken Hill (53MW) and Nyngan (102MW)	NSW	\$166,700,000	Solar PV	On track
CS Energy Ltd	44MW Solar Thermal Demonstration	QLD	\$34,900,000	Solar Thermal	On track
Infigen	Design, construction and build Capital Solar Farm c30MW PV	NSW	\$50,000,000	Solar PV	On track
Moree Solar Farm	Design, construction and build 56MWAC PV	NSW	\$101,700,000	Solar PV	On track
Solar Systems Ltd	100MW large-scale solar concentrating power station at Mildura	r VIC	\$75,000,000	Solar PV	Project outcomes at risk
Victorian Wave Partners P/L	Portland Wave Energy Project	VIC	\$66,465,000	Ocean	Project outcomes at risk
Total		6	\$494,765,000		

Project name	Description	Location	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
Abengoa Solar Power Australia Pty Ltd	Perenjori Dispatchable Solar Thermal Power Project	WA	\$449,718	Solar Thermal	On track
BioPower Systems P/L	bioWAVE Ocean Pilot at Port Fairy	VIC	\$11,000,000	Ocean	On track
Brisbane Materials Technology 1-US0018	A pilot-scale plant for the production of solar anti-reflection	QLD	\$1,262,000	Solar PV	On track
BT Imaging - 1-A007	1-A007 Inline inspection tools for photovoltaic manufacturing	NSW	\$2,250,000	Solar PV	On track
Carnegie Wave Energy Ltd	Perth Wave Energy Project	WA	\$13,095,381	Ocean	On track
Carnegie Wave Energy Ltd	CETO6 PWEP Expansion	WA	\$13,000,000	Ocean	On track
Chromasun 3-A013	Lowest LCOE: Australian pilot of rooftop CST and CPV-T micro concentrator systems	VIC	\$3,461,677	Solar Thermal	On track
First Solar	Weipa Solar PV Project	QLD	\$11,300,000	Solar PV	On track
Geodynamics Ltd	Construction of a 25MW EGS hot fractured rock demonstration plant	SA	\$90,000,000	Geothermal	On track
Granite Power 3-A017	Solar Supercritical Organic Rankine Cycle for Power & Indust Heat	NSW	\$812,000	Solar Thermal	On track
Hydro Tasmania	Hydro Tasmania King Island Renewable Energy Integration	TAS	\$6,083,000	Hybrid	On track
James Cook Uni	High Energy Algal Fuels project	QLD	\$5,000,000	Bioenergy	On track
MNGI Pty Ltd (t/as Petratherm)	Paralana Engineered Geothermal Systems Project	SA	\$12,997,300	Geothermal	Project outcomes at risk
MNGI/Petratherm	Construction of a 7MW EGS hot fractured rock demonstration plant	SA	\$24,520,833	Geothermal	Project outcomes at risk
Muradel P/L	Advancing established marine microalgae biofuel to commercialisation	SA	\$4,398,000	Bioenergy	On track
Oceanlinx Ltd	Oceanlinx 1MW Commercial Wave Energy Demonstrator	NT	\$3,970,000	Ocean	Discontinued
Renergi P/L	Advanced Biomass Gasification Technology	WA	\$3,624,253	Bioenergy	On track
Smart Storage P/L (Ecoult)	UltraBattery Distributed Solar PV Support and UltraBattery for RAPS	NSW	\$553,780	Enabling	On track
Southern Cross Venture Partners	REVC	-	\$100,000,000	REVC	On track
Vast Solar P/L 3-A003	Validation of performance modelling for 1.2MWth solar array	NSW	\$437,243	Solar Thermal	On track
Total	20		\$308,215,185		

KNOWLEDGE MANAGEMEN	NT				
Project name	Description	Location	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/ expected progress 2013-14
Geoscience Australia	Produce solar resource data to be used by solar researchers and the Australian solar power industry.	Multiple sites	\$5,000,000	Solar	Complete
Australian Energy Technology Assessment (2013 Update)	Review the O&M cost estimates for renewable energy technologies in the 2013 AETA and update the AETA model to account for any changes to parameters since the release of the 2013 AETA.	Multiple sites	\$133,737	Electricity generation	On-track
Australian Liquid Fuel Technology Assessment (ALFTA)	Production of inaugural bottom up cost analysis of a range of liquid fuel technologies including development of free to use spreadsheet model.	Multiple sites	\$437,176	Liquid transport fuels	On-track
International Geothermal Expert Group	Investigate and report on the prospects for the commercial development of geothermal energy in Australia	Multiple sites	\$486,349	Geothermal	On-track
Total		4	\$6,057,262		

INTERNATIONAL RESI	EARCH EXCHANGES				
University/Institution	Scholar	Type of funding	*Funding provided/ committed (GST exclusive)	Technology	Assessment of progress/expected progress 2013-14
AECOM	Jennifer Riesz	International Research Exchange	\$7,130	Solar	Complete
CSIRO	Benjamin Duck	International Research Exchange	\$109,081	Solar	On-track
CSIRO	Jacek Jasieniak	International Research Exchange	\$83,512	Solar	Complete
University of South Australia	Ming Liu	International Research Exchange	\$10,548	Solar	Complete

FINANCIAL STATEMENTS

TOMORROWS ENERGY INFRASTRUCTURE CREATING OPTIONS A FINANCIALISATION SKILLS FOR THE NEW JOBS FIRSTS FINITURE

Independent Auditor's Report	63
Statement by the Chair of the Board, CEO and CFO	65
Statement of Comprehensive Income	66
Statement of Financial Position	67
Statement of Changes in Equity	68
Cash Flow Statement	69
Schedule of Commitments	70
Schedule of Contingencies	71
Notes to and forming part of the financial statements	73





INDEPENDENT AUDITOR'S REPORT

To the Minister for Industry

I have audited the accompanying financial statements of the Australian Renewable Energy Agency for the year ended 30 June 2014, which comprise: a Statement by the Chair of the Board, Chief Executive Officer and Chief Financial Officer; the Statement of Comprehensive Income; Statement of Financial Position; Statement of Changes in Equity; Cash Flow Statement; Schedule of Commitments, Schedule of Contingencies; and Notes comprising a Summary of Significant Accounting Policies and other explanatory information.

Directors' Responsibility for the Financial Statements

The directors of the Australian Renewable Energy Agency are responsible for the preparation of the financial statements that give a true and foir view in accordance with the Finance Minister's Orders made under the Commonwealth Authorities and Companies Act 1997, including the Australian Accounting Standards, and for such internal control as is necessary to enable the preparation of financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

My responsibility is to express an opinion on the financial statements based on my audit. I have conducted my audit in accordance with the Australian National Audit Office Auditing Standards, which incorporate the Australian Auditing Standards. These auditing standards require that I comply with relevant ethical requirements relating to audit engagements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to finad or error. In making those risk assessments, the auditor considers internal control relevant to the Australian Renewable Energy Agency's preparation of the financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Australian Renewable Energy Agency's internal control. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of accounting estimates made by the directors, as well as evaluating the overall presentation of the financial statements.

I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my audit opinion.

Independence

In conducting my audit, I have followed the independence requirements of the Australian National Audit Office, which incorporate the requirements of the Australian accounting profession.

Opinion

In my opinion, the financial statements of the Australian Renewable Energy Agency:

- (a) have been prepared in accordance with the Finance Minister's Orders made under the Commonwealth Authorities and Companies Act 1997, including the Australian Accounting Standards; and
- (b) give a true and fair view of the matters required by the Finance Minister's Orders including the Australian Renewable Energy Agency's financial position as at 30 June 2014 and its financial performance and cash flows for the year then ended.

Australian National Audit Office

Kristian Gage

Acting Executive Director

Delegate of the Auditor-General

Canberra

23 September 2014

Australian Renewable Energy Agency

STATEMENT BY THE CHAIR OF THE BOARD, CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER

In our opinion, the attached financial statements for the year ended 30 June 2014 are based on properly maintained financial records and give a true and fair view of the matters required by the Finance Minister's Orders made under the *Commonwealth Authorities and Companies Act 1997*, as amended.

In our opinion, at the date of this statement, there are reasonable grounds to believe that the Agency will be able to pay its debts as and when they become due and payable.

This statement is made in accordance with a resolution of the directors.

Signed

Signed

Signed

Greg Bourne

Chair 23 September 2014 Ivor Frischknecht
Chief Executive Officer

Chief Executive Officer 23 September 2014

lan Kay

Chief Financial Officer 23 September 2014

STATEMENT OF COMPREHENSIVE INCOME

for the period ended 30 June 2014

	Notes	2014 \$'000	2013 \$'000
NET COST OF SERVICES			
Expenses			
Employee benefits	3A	884	850
Suppliers	3B	24,375	12,315
Grants	3C	239,339	50,924
Depreciation and amortisation	3D	54	-
Write down and impairment of assets	3E	9	-
Other expenses	3F	1,915	1,751
Total expenses	_	266,576	65,840
Own-source income			
Own-source revenue			
Interest	4A	25	2
Total own-source revenue	_	25	2
Gains			
Other gains	4B	14,282	8,555
Total gains		14,282	8,555
Total own-source income		14,307	8,557
Net cost of services		252,269	57,283
Revenue from Government	4C	261,942	59,580
Surplus on continuing operations	_	9,673	2,297
Total comprehensive income	-	9,673	2,297
Surplus attributable to the Australian Government	_	9,673	2,297

The above statement should be read in conjunction with the accompanying notes.

STATEMENT OF FINANCIAL POSITION

as at 30 June 2014

	Notes	2014 \$'000	2013 \$'000
ASSETS			
Financial assets			
Cash and cash equivalents	6A	26	221
Trade and other receivables	6B	6,407	5,751
Other investments	6C	11,131	1,926
Total financial assets	_	17,564	7,898
Non-financial assets			
Property, plant and equipment	7A,B	6	-
Intangibles	7C,D	798	368
Other non-financial assets	7E	36	-
Total non-financial assets		840	368
Total assets	_	18,404	8,266
LIABILITIES			
Payables			
Suppliers	8A	2,114	1,276
Grants	8B	4,197	4,545
Other payables	8C _	49	114
Total payables	_	6,360	5,935
Provisions			
Employee provisions	9A	74	34
Total provisions		74	34
Total liabilities	_	6,434	5,969
Net assets	-	11,970	2,297
EQUITY			
Retained surplus	_	11,970	2,297
Total equity		11,970	2,297

The above statement should be read in conjunction with the accompanying notes.

STATEMENT OF CHANGES IN EQUITY

for the period ended 30 June 2014

	Retained earnings		Total equity	
	2014 \$'000	2013 \$'000	2014 \$'000	2013 \$'000
Opening balance				
Balance carried forward from previous period	2,297	-	2,297	-
Opening balance	2,297	-	2,297	-
Comprehensive income				
Surplus for the period	9,673	2,297	9,673	2,297
Total comprehensive income	9,673	2,297	9,673	2,297
Closing balance as at 30 June	11,970	2,297	11,970	2,297

The above statement should be read in conjunction with the accompanying notes.

CASH FLOW STATEMENT

for the period ended 30 June 2014

	Notes	2014 \$'000	2013 \$'000
OPERATING ACTIVITIES			
Cash received			
Receipts from Government		265,150	56,194
Interest		25	2
Net GST received	_	19,284	2,596
Total cash received	_	284,459	58,792
Cash used			
Employees		(912)	(702)
Suppliers		(8,821)	(3,725)
Grants		(263,306)	(50,096)
Total cash used		(273,039)	(54,523)
Net cash received by operating activities	10	11,420	4,269
INVESTING ACTIVITIES			
Cash used			
Purchase of property, plant and equipment		(18)	-
Purchase of intangibles		(481)	(368)
Investments		(11,120)	(3,677)
Total cash used		(11,619)	(4,045)
Net cash used by investing activities	_	(11,619)	(4,045)
FINANCING ACTIVITIES			
Cash received			
Refund of deposits held		3	-
Total cash received	_	3	-
Cash used			
Deposits held		-	(3)
Total cash used		-	(3)
Net cash received by financing activities	_	3	(3)
Net increase /(decrease) in cash held	-	(195)	221
Cash and cash equivalents at the beginning of the reporting period		221	-
Cash and cash equivalents at the end of the reporting period	6A	26	221

The above statement should be read in conjunction with the accompanying notes.

SCHEDULE OF COMMITMENTS

as at 30 June 2014

	2014 \$'000	2013 \$'000
	\$ 000	Ψ 000
BY TYPE		
Commitments receivable		
Net GST recoverable on commitments ¹	(49,427)	(65,164)
Total commitments receivable	(49,427)	(65,164)
Committee and a sought		
Commitments payable		
Other commitments	F10 004	C70 022
Project commitments ²	518,984	670,923
Research and development commitments ² Other commitments	104,359	151,998
Total commitments payable	16,352 639,695	12,955 835,876
Net commitments by type	590,268	770,712
rect communicates by type	330,200	
BY MATURITY		
Commitments receivable		
GST recoverable on commitments ¹		
One year or less	(33,075)	(47,430)
From one to five years	(14,970)	(15,519)
Over five years	(1,382)	(2,215)
Total commitments receivable	(49,427)	(65,164)
Commitments payable		
Project commitments ²		
One year or less	337,647	496,931
From one to five years	172,337	161,900
Over five years	9,000	12,092
Total project commitments	518,984	670,923
Research and development commitments ²		
One year or less	44,088	69,685
From one to five years	45,069	58,036
Over five years	15,202	24,277
Total research and development commitments	104,359	151,998
Other commitments	0.075	7.005
One year or less	8,075	7,895
From one to five years	7,967	4,440
Over five years Total other commitments	310	620
Total commitments Total commitments revealed	16,352	12,955
Total commitments payable	639,695 590,268	835,876
Net commitments by maturity	JJU,200	770,712

Note: 1. Commitments were GST inclusive where relevant.

The Australian Renewable Energy Agency is currently providing financial assistance to a broad portfolio of projects and measures across the various stages of renewable energy commercialisation. Project commitments and fellowships are in accordance with signed funding agreements, as varied, or in the case of scholarships, in accordance with the grant offer letter.

SCHEDULE OF CONTINGENCIES

as at 30 June 2014

	2014 \$'000	2013 \$'000
CONTINGENT LIABILITIES		
Claims for damages or costs	500	-
Total contingent liabilities	500	-

Details of each class of contingent liabilities and contingent assets listed above are disclosed in Note 11, along with information on significant remote contingencies and contingencies that cannot be quantified.

No contingent assets were identified as at 30 June 2014.

The above schedule should be read in conjunction with the accompanying notes.

LIST OF NOTES TO AND FORMING PART OF THE FINANCIAL STATEMENTS

Note 1: Summary of Significant Accounting Policies	73
Note 2: Events After the Reporting Period	79
Note 3: Expenses	80
Note 4: Own-source Income	82
Note 5: Fair Value Measurements	83
Note 6: Financial Assets	85
Note 7: Non-Financial Assets	86
Note 8: Payables	88
Note 9: Provisions	89
Note 10: Cash Flow Reconciliation	90
Note 11: Contingent Assets and Liabilities	91
Note 12: Directors Remuneration	92
Note 13: Related Party Disclosures	93
Note 14: Senior Executive Remuneration	94
Note 15: Remuneration of Auditors	96
Note 16: Financial Instruments	97
Note 17: Financial Assets Reconciliation	100
Note 18: Compensation and Debt Relief	101
Note 19: Reporting of Outcomes	102

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

1.1 Objectives of the Australian Renewable Energy Agency

The Australian Renewable Energy Agency (ARENA) is an Australian Government controlled entity operating under the following legislation:

- Australian Renewable Energy Agency Act 2011;
- Australian Renewable Energy Agency (Consequential Amendments and Transitional Provisions) Act 2011
- Australian Renewable Energy Agency Determination No 1 of 2013.

ARENA is governed by an independent, decision-making Board. The members of the Board draw together skills in renewable energy technology, commercialisation, business investment and corporate governance to provide independent and expert administration of ARENA funds.

ARENA is a not-for-profit entity. The objective of ARENA is to improve the competitiveness of renewable energy technologies and increase the supply of renewable energy in Australia.

ARENA is structured to meet the following outcome in accordance with its Act:

Outcome 1: Support improvements in the competitiveness of renewable energy and related technologies and the supply of renewable energy by administering financial assistance, developing analysis and advice about and sharing information and knowledge with regard to, renewable energy and related technologies.

ARENA became a portfolio agency of the Department of Industry ('Industry') on 18 September 2013, prior to this ARENA was a portfolio agency of the former Department of Resources, Energy and Tourism. Under the *Australian Renewable Energy Agency Act 2011* the Secretary of the portfolio department is required to make staff available to ARENA and pay associated costs.

The continued existence of ARENA in its present form and with its present programs is dependent on:

- Government policy and the continuation of its act;
- continued funding under the legislation for the ARENA's administration and programs; and
- the Secretary of the portfolio department making sufficient staff available.

The Government has declared, in the 2014-15 Budget Measures, its intention to abolish the Australian Renewable Energy Agency. This will require the repealing of the *Australian Renewable Energy Agency Act 2011*. If the repeal is successful, signed funding agreements, assets and liabilities at the time of repeal would transfer to the Department of Industry.

On the 19th of June 2014, the Australian Government tabled the Australian Renewable Energy Agency (Repeal) Bill 2014, this Bill, if passed would abolish ARENA. The Bill passed through the House of Representatives on the 1st of September 2014, however, at the date of signing these financial statements debate on the Bill has not occurred in the Senate.

1.2 Basis of preparation of the financial statements

The financial statements are general purpose financial statements and are required by clause 1(b) of Schedule 1 to the CAC Act.

The financial statements have been prepared in accordance with:

- a) Finance Minister's Orders (FMOs) for reporting periods ending on or after 1 July 2011; and
- b) Australian Accounting Standards and Interpretations issued by the Australian Accounting Standards Board (AASB) that apply for the reporting period.

The financial statements have been prepared on an accrual basis and in accordance with the historical cost convention, except for certain assets and liabilities at fair value. Except where stated, no allowance is made for the effect of changing prices on the results or the financial position.

The financial statements are presented in Australian dollars and values are rounded to the nearest thousand dollars unless otherwise specified.

Unless an alternative treatment is specifically required by an accounting standard or the FMOs, assets and liabilities are recognised in the balance sheet when and only when it is probable that future economic benefits will flow to the entity or a future sacrifice of economic benefits will be required and the amounts of the assets or liabilities can be reliably measured. However, assets and liabilities arising under executory contracts are not recognised unless required by an accounting standard. Liabilities and assets that are unrecognised are reported in the schedule of commitments or the schedule of contingencies.

Unless alternative treatment is specifically required by an accounting standard, income and expenses are recognised in the Statement of Comprehensive Income when and only when the flow, consumption or loss of economic benefits has occurred and can be reliably measured.

1.3 Significant accounting judgements and estimates

No accounting assumptions and estimates have been identified that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next reporting period.

1.4 New Australian accounting standard

Adoption of new Australian accounting standard requirements

No accounting standard has been adopted earlier than the application date as stated in the standard.

A number of new standards (including reissued standards) and interpretations that were issued prior to the signing of the financial statements by the Chief Executive and Chief Financial Officer and are applicable to the current reporting period did not have a material financial impact, and are not expected to have a future material financial impact on ARENA.

Future Australian accounting standard requirements

The following new standards/revised standards/interpretations/amending standards were issued by the Australian Accounting Standards Board prior to the sign-off date, which are expected to have a financial impact on ARENA for future reporting periods:

- AASB 1031 Materiality;
- AASB 2014-1 Amendments to Australian Accounting Standards [Part C Materiality]; and
- AASB 1055 Budgetary Reporting.

All other new standards/revised standards/interpretations/amending standards that were issued prior to the sign-off date and are applicable to the future reporting period are not expected to have a future financial impact on ARENA.

1.5 Revenue

Interest revenue is recognised using the effective interest method as set out in AASB 139 *Financial Instruments: Recognition and Measurement.*

Revenue from Government

Funding received or receivable from the Department of Industry and the former Department of Resources, Energy and Tourism (appropriated to the agency as a CAC Act body payment item for payment to ARENA) is recognised as Revenue from Government unless the funding is in the nature of an equity injection or a loan.

1.6 Gains

Resources received free of charge

Resources received free of charge are recognised as gains when a fair value can be reliably determined and the services would have been purchased if they had not been donated. Use of those resources is recognised as an expense.

Resources received free of charge are recorded as either revenue or gains depending on their nature.

1.7 Employee benefits

Liabilities for 'short-term employee benefits' (as defined in AASB 119 *Employee Benefits*) and termination benefits due within twelve months of the end of reporting period are measured at their nominal amounts.

The nominal amount is calculated with regard to the rates expected to be paid on settlement of the liability.

Other long-term employee benefits are measured as net total of the present value of the defined benefit obligation at the end of the reporting period minus the fair value at the end of the reporting period of plan assets (if any) out of which the obligations are to be settled directly.

Leave

The liability for employee benefits includes provision for annual leave and long service leave. No provision has been made for sick leave as all sick leave is non-vesting and the average sick leave taken in future years by employees of ARENA is estimated to be less than the annual entitlement for sick leave.

The leave liabilities are calculated on the basis of employees' remuneration at the estimated salary rates that will be applied at the time the leave is taken, including ARENA's employer superannuation contribution rates to the extent that the leave is likely to be taken during service rather than paid out on termination.

The liability for long service leave has been determined by reference to the Short Hand Method as per the FMOs. The estimate of the present value of the liability takes into account attrition rates and pay increases through promotion and inflation.

Superannuation

ARENA's staff are members of defined contribution schemes.

The liability for superannuation recognised as at 30 June represents outstanding contributions.

18 | 62565

Operating lease payments are expensed on a straight-line basis which is representative of the pattern of benefits derived from the leased assets.

1.9 Fair value measurement

ARENA deems transfers between levels of the fair value hierarchy to have occurred at the end of the reporting period.

1.10 Cash

Cash is recognised at its nominal amount. Cash and cash equivalents includes:

- a) cash on hand
- b) demand deposits in bank accounts with an original maturity of 3 months or less that are readily convertible to known amounts of cash and subject to insignificant risk of changes in value.

1.11 Financial assets

ARENA classifies its financial assets in the following categories:

- a) available-for-sale financial assets
- b) loans and receivables.

The classification depends on the nature and purpose of the financial assets and is determined at the time of initial recognition. Financial assets are recognised and derecognised upon trade date.

Effective interest method

The effective interest method is a method of calculating the amortised cost of a financial asset and of allocating interest income over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash receipts through the expected life of the financial asset, or, where appropriate, a shorter period.

Income is recognised on an effective interest rate basis except for financial assets that are recognised at fair value through profit or loss.

Available-for-sale financial assets

Available-for-sale financial assets are non-derivatives that are either designated in this category or not classified in any of the other categories.

Available-for-sale financial assets are recorded at fair value. Gains and losses arising from changes in fair value are recognised directly in reserves (equity) with the exception of impairment losses. Interest is calculated using the effective interest method and foreign exchange gains and losses on monetary assets are recognised directly in profit or loss. Where the asset is disposed of or is determined to be impaired, part (or all) of the cumulative gain or loss previously recognised in the reserve is included in surplus and deficit for the period.

Where a reliable fair value cannot be established for unlisted investments in equity instruments, these instruments are valued at cost.

Loans and receivables

Trade receivables and other receivables that have fixed or determinable payments that are not quoted in an active market are classified as 'loans and receivables'. Loans and receivables are measured at amortised cost using the effective interest method less impairment. Interest is recognised by applying the effective interest rate.

Impairment of financial assets

Financial assets are assessed for impairment at the end of each reporting period.

Available for sale financial assets. If there is objective evidence that an impairment loss on an available-for-sale financial asset has been incurred, the amount of the difference between its cost, less principal repayments and amortisation, and its current fair value, less any impairment loss previously recognised in expenses, is transferred from equity to the Statement of Comprehensive Income.

Financial assets held at cost. If there is objective evidence that an impairment loss has been incurred, the amount of the impairment loss is the difference between the carrying amount of the asset and the present value of the estimated future cash flows discounted at the current market rate for similar assets.

1.12 Financial liabilities

Financial liabilities are classified as either financial liabilities 'at fair value through profit or loss' or other financial liabilities. Financial liabilities are recognised and derecognised upon 'trade date'.

Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss are initially measured at fair value. Subsequent fair value adjustments are recognised in profit or loss. The net gain or loss recognised in profit or loss incorporates any interest paid on the financial liability.

Other financial liabilities

Other financial liabilities are initially measured at fair value, net of transaction costs. These liabilities are subsequently measured at amortised cost using the effective interest method, with interest expense recognised on an effective yield basis.

The effective interest method is a method of calculating the amortised cost of a financial liability and of allocating interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments through the expected life of the financial liability, or, where appropriate, a shorter period.

Supplier and other payables are recognised at amortised cost. Liabilities are recognised to the extent that the goods or services have been received (and irrespective of having been invoiced).

1.13 Contingent liabilities and contingent assets

Contingent liabilities and contingent assets are not recognised in the Statement of Financial Position but are reported in the relevant schedules and notes. They may arise from uncertainty as to the existence of a liability or asset or represent an asset or liability in respect of which the amount cannot be reliably measured. Contingent assets are disclosed when settlement is probable but not virtually certain and contingent liabilities are disclosed when settlement is greater than remote.

1.14 Acquisition of assets

Assets are recorded at cost on acquisition except as stated below. The cost of acquisition includes the fair value of assets transferred in exchange and liabilities undertaken. Financial assets are initially measured at their fair value plus transaction costs where appropriate.

Assets acquired at no cost, or for nominal consideration, are initially recognised as assets and income at their fair value at the date of acquisition, unless acquired as a consequence of restructuring of administrative arrangements. In the latter case, assets are initially recognised as contributions by owners at the amounts at which they were recognised in the transferor's accounts immediately prior to the restructuring.

1.15 Property, plant and equipment

Asset recognition threshold

Purchases of property, plant and equipment are recognised initially at cost in the balance sheet, except for purchases costing less than \$5,000, which are expensed in the year of acquisition (other than where they form part of a group of similar items which are significant in total).

The initial cost of an asset includes an estimate of the cost of dismantling and removing the item and restoring the site on which it is located.

Revaluations

Following initial recognition at cost, property, plant and equipment were carried at fair value less subsequent accumulated depreciation and accumulated impairment losses. Valuations were conducted with sufficient frequency to ensure that the carrying amounts of assets did not differ materially from the assets' fair values as at the reporting date. The regularity of independent valuations depended upon the volatility of movements in market values for the relevant assets.

Revaluation adjustments were made on a class basis. Any revaluation increment was credited to equity under the heading of asset revaluation reserve except to the extent that it reversed a previous revaluation decrement of the same asset class that was previously recognised in the surplus/deficit. Revaluation decrements for a class of assets were recognised directly in the surplus/deficit except to the extent that they reversed a previous revaluation increment for that class.

Any accumulated depreciation as at the revaluation date is eliminated against the gross carrying amount of the asset and the asset restated to the revalued amount.

Depreciation

Depreciable property, plant and equipment assets are written-off to their estimated residual values over their estimated useful lives to the entity using, in all cases, the straight-line method of depreciation.

Depreciation rates (useful lives), residual values and methods are reviewed at each reporting date and necessary adjustments are recognised in the current, or current and future reporting periods, as appropriate.

Depreciation rates applying to each class of depreciable asset are based on the following useful lives:

	2014	2013
Plant and equipment	3 to 10 years	3 to 10 years

Impairment

All assets were assessed for impairment at 30 June 2014. Where indications of impairment exist, the asset's recoverable amount is estimated and an impairment adjustment made if the asset's recoverable amount is less than its carrying amount.

The recoverable amount of an asset is the higher of its fair value less costs of disposal and its value in use. Value in use is the present value of the future cash flows expected to be derived from the asset. Where the future economic benefit of an asset is not primarily dependent on the asset's ability to generate future cash flows, and the asset would be replaced if the entity were deprived of the asset, its value in use is taken to be its depreciated replacement cost.

Derecognition

An item of property, plant and equipment is derecognised upon disposal or when no further future economic benefits are expected from its use or disposal.

1.16 Intangibles

ARENA's intangibles comprise internally developed software for internal use. These assets are carried at cost less accumulated amortisation and accumulated impairment losses. The threshold for the recognition is \$5,000 for purchased software and \$200,000 for internally developed software.

Software is amortised on a straight-line basis over its anticipated useful life. The useful lives of ARENA's software is 3 to 10 years (2012-13: 3 to 10 years).

All software assets were assessed for indications of impairment as at 30 June 2014.

1.17 Taxation

ARENA is exempt from all forms of taxation except Fringe Benefits Tax (FBT) and the Goods and Services Tax (GST).

Revenues, expenses and assets are recognised net of GST except:

- a) where the amount of GST incurred is not recoverable from the Australian Taxation Office
- b) for receivables and payables.

NOTE 2: EVENTS AFTER THE REPORTING PERIOD

Apart from the disclosure made in Note 1.1 regarding the Government's intentions, there was no subsequent event that had the potential to significantly affect the ongoing structure and financial activities of ARENA.

NOTE 3: EXPENSES

	2014	2013
	\$'000	\$'000
Note 3A: Employee benefits		
Board sitting fees	137	214
Wages and salaries	540	504
Superannuation:		
Defined contribution plans	111	68
Leave and other entitlements	96	64
Total employee benefits	884	850
Note 3B: Suppliers		
Goods and services supplied or rendered		
Audit fees	90	114
Consultants	6,283	1,845
Insurance	268	205
Travel	260	139
Legal fees	1,599	803
Service level agreement	192	237
Department support costs (resources received free of charge) ¹	14,282	8,555
Other	1,235	392
Total goods and services supplied or rendered	24,209	12,290
Goods supplied in connection with		
Related parties	2	-
External parties	96	24
Total goods supplied	98	24
Services rendered in connection with		
Related parties	15,913	9,191
External parties	8,198	3,075
Total services rendered	24,111	12,266
Total goods and services supplied or rendered	24,209	12,290
Other suppliers		
Operating lease rentals in connection with		
Operating lease rentals – external parties:		
Minimum lease payments	157	21
Workers compensation expenses	9	4
Total other suppliers	166	25
Total suppliers	24,375	12,315

^{1.} Department support costs represents the cost of staff and associated costs made available by the Secretary of the portfolio department (also refer to Note 4B).

NOTE 3: EXPENSES (CONTINUED)

	2014 \$'000	2013 \$'000
	·	
Note 3C: Grants		
Public sector		
Australian Government entities (related entities)	14,388	4,506
State and territory governments	187	75
Private sector		
Australian private companies	27,883	4,993
Australian public companies	158,793	32,193
Individual/sole traders	3	19
International organisations ²	1,105	1,433
Other incorporated entities	36,980	7,705
Total grants	239,339	50,924
Note 3D: Depreciation and amortisation		
Note 3D: Depreciation and amortisation Depreciation Property, plant and equipment Total depreciation	3	- -
Depreciation Property, plant and equipment		<u>-</u>
Depreciation Property, plant and equipment Total depreciation		-
Depreciation Property, plant and equipment Total depreciation Amortisation	3	-
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles	51	- - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation	51 51	- - - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation Total depreciation and amortisation	51 51	- - - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation Total depreciation and amortisation Note 3E: Write down and impairment of assets	51 51	- - - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation Total depreciation and amortisation Note 3E: Write down and impairment of assets Property, plant and equipment	51 51 54	- - - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation Total depreciation and amortisation Note 3E: Write down and impairment of assets Property, plant and equipment Carrying value of assets written off	51 51 54	- - - -
Depreciation Property, plant and equipment Total depreciation Amortisation Intangibles Total amortisation Total depreciation and amortisation Note 3E: Write down and impairment of assets Property, plant and equipment Carrying value of assets written off Total losses from write down and impairment of assets	51 51 54	- - - - - 1,751

^{3.} This represents the change in value of the Renewable Energy Venture Capital (REVC) Fund Commonwealth Participation Trust, the investment is shown in the Statement of Financial Position (refer to Note 6C).

NOTE 4: OWN-SOURCE INCOME 2014 2013 \$'000 \$'000 **OWN-SOURCE REVENUE** Note 4A: Interest Deposits 25 2 2 **Total interest** 25 **GAINS** Note 4B: Other gains Resources received free of charge - services 14,282 8,555 **Total other gains** 14,282 8,555 **REVENUE FROM GOVERNMENT** Note 4C: Revenue from Government Portfolio department CAC Act body payment item 261,942 59,580 **Total revenue from Government** 261,942 59,580

NOTE 5: FAIR VALUE MEASUREMENTS

The following tables provide an analysis of assets and liabilities that are measured at fair value. The different levels of the fair value hierarchy are defined below.

- Level 1: Quoted prices (unadjusted) in active markets for identical assets or liabilities that the entity can access at measurement date.
- Level 2: Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.
- Level 3: Unobservable inputs for the asset or liability.

Note 5A: Fair value measurements

Fair value measurements at the end of the reporting period by hierarchy for assets and liabilities in 2014

			measuremen eporting peri	
	Fair value	Level 1 inputs	Level 2 inputs	Level 3 inputs
	\$'000	\$'000	\$'000	\$'000
Financial assets				
Other investments	11,131	-	-	11,131
Total financial assets	11,131	-	-	11,131
Non-financial assets				
Other property, plant and equipment	6	-	-	6
Total non-financial assets	6	-	-	6
Total fair value measurements of assets in the statement of financial position	11,137	-	-	11,137

Note 5B: Valuation technique and inputs for level 2 and level 3 fair value measurements

Level 2 and 3 fair value measurements - valuation technique and the inputs used for assets and liabilities in 2014

	valuation to offinique and the impate about for about and habitation in 2011				
	Category (Level 2 or Level 3)	Fair value \$'000	Valuation technique(s) ¹	Inputs used	Range (weighted average) ²
Financial assets					
Other investments	Level 3	11,131	Cost approach	Net assets of Southern Cross REVC Fund Commonwealth Participation Trust at the end of the financial year	
Non-financial assets					
Other property, plant and equipment	Level 3	6	Cost approach	Internal review	

^{1.} No change in valuation technique occurred during the period.

^{2.} Significant unobservable inputs only. Not applicable for assets or liabilities in the Level 2 category.

NOTE 5: FAIR VALUE MEASUREMENTS (CONTINUED)

Recurring and non-recurring level 3 fair value measurements - valuation processes

The valuation of Other investments as at 30 June 2014, being ARENA's holding in the Southern Cross REVC Commonwealth Participation Trust, is based on the annual audited financial statements of the co-investment arrangement. The co-investment financial statements are relied upon in the absence of an active market to determine a fair value. This approach provides an accurate and reasonable valuation as the financial statements are prepared in accordance with the Australian accounting standards and are independently audited to ensure the statements are a true and fair representation.

The fair values presented in the Other property, plant and equipment category are based on an internal review of the cost and life of the assets.

Recurring level 3 fair value measurements - sensitivity of inputs

The significant unobservable inputs used in the fair value measurement of ARENA's Other investments are the cost of the investments disclosed in the co-investment arrangement's audited financial statements. The cost of these investments is the basis of the fair valuation. Significant increases (decreases) in any of those inputs in isolation would result in a significantly higher (lower) fair value measurement. Generally, a change in the assumption used for the cost of investments within the co-investment arrangement's audited financial statements is accompanied by a directionally similar change in the calculation of net assets of the co-investment arrangement.

The unobservable input used in the fair value measurement of the Other property, plant and equipment are the cost base and elapsed life of the asset. Any change to the input would not significantly affect the fair value measurement.

Recurring level 3 fair value measurements - sensitivity analysis for financial assets and liabilities

The use of alternative valuation methodologies for Other investments and Other property, plant and equipment will not significantly impact the fair value.

Note 5C: Reconciliation for recurring level 3 fair value measurements

Recurring level 3 fair value measurements - reconciliation for assets

	Financial a	Financial assets		Non-financial assets		
	Other investments	Total	Other property, plant and equipment	Total		
	2014 \$'000	2014 \$'000	2014 \$'000	2014 \$ ′000		
Opening balance	1,926	1,926	-	-		
Total gains/(losses) recognised in net cost of services ¹	(1,915)	(1,915)	-	-		
Purchases	11,120	11,120	18	18		
Impairment	-	-	(9)	(9)		
Depreciation charge	-	-	3	3		
Closing balance	11,131	11,131	12	12		

^{1.} These gains/(losses) are presented in the Statement of Comprehensive Income under 'Other expenses' (Note 3F).

The entity's policy for determining when transfers between levels are deemed to have occurred can be found in Note 1.

NOTE 6: FINANCIAL ASSETS

	2014	2013
	\$'000	\$'000
Note 6A: Cash and cash equivalents		
Cash on hand or on deposit	26	221
Total cash and cash equivalents	26	221
Note 6B: Trade and other receivables		
Portfolio Department		
Receivable	178	3,387
Total receivable from the portfolio department	178	3,387
Other receivables:		
GST receivable from the Australian Taxation Office	6,225	1,044
Bond deposits	-	3
Other	4	1,317
Total other receivables	6,229	2,364
Total trade and other receivables (gross)	6,407	5,751
Receivables are expected to be recovered in		
No more than 12 months	6,407	5,751
Total trade and other receivables (net)	6,407	5,751
Receivables are aged as follows		
Not overdue	6,403	4,431
Overdue by:		4.000
0 to 30 days	<u>4</u>	1,320
Total receivables (gross)	6,407	5,751
Note 6C: Other investments		
Other ¹	11,131	1,926
Total other investments	11,131	1,926
Total other investments are expected to be recovered		
More than 12 months	11,131	1,926
Total other investments	11,131	1,926

^{1.} REVC Fund Commonwealth Participation Trust

ARENA holds 15,767,998 (2013: 4,639,502) fully paid "A" class units in the REVC Fund Commonwealth Participation Trust (Trust). The fair value of this investment is ARENA's share of the net assets of the audited Trust. The change in the value of the investment is shown in the Statement of Comprehensive Income (refer to Note 3F).

The principal activity of the Trust is to invest in early stage renewable energy companies.

ARENA's return from the Trust is initially limited to the capital committed plus interest at the long term bond rate. Any return from the Trust above that amount is split amongst the unit holders, including ARENA, on an agreed basis.

NOTE 7: NON-FINANCIAL ASSETS

2014	2013
\$'000	\$'000
6	-
-	-
6	-
6	-
	6

Note 7B: Reconciliation of the opening and closing balances of property, plant and equipment

Reconciliation of the opening and closing balances of property, plant and equipment for 2014

	Other property, plant and equipment \$'000	Total property, plant and equipment \$'000
Additions Purchase or internally developed Depreciation Other movements	18 (3)	18 (3)
Assets written off	(9)	(9)
Total as at 30 June 2014	6	6
Total as at 30 June 2014 represented by Gross book value Accumulated depreciation and impairment Total as at 30 June 2014	6 - 6	6 - 6
	2014 \$'000	2013 \$'000
Note 7C: Intangibles Computer software Internally developed – in progress	22	368
Internally developed – in use ¹	827	-
Accumulated amortisation	(51)	-
Total computer software	798	368
Total intangibles	798	368_

^{1.} Includes transfer of \$368,000 for 'Internally developed – in progress' to 'Internally developed – in use.'

No intangibles are expected to be sold or disposed of within the next 12 months.

No indicators of impairment were found for intangibles.

NOTE 7: NON-FINANCIAL ASSETS (CONTINUED)

Note 7D: Reconciliation of the opening and closing balances of intangibles

Reconciliation of the opening and closing balances of intangibles for 2014

	Computer software internally developed \$'000	Total \$'000
A 4 . L L . 2040		
As at 1 July 2013 Gross book value	368	368
Accumulated depreciation and impairment	300	300
Total as at 1 July 2013	368	368
Additions	300	300
Internally developed	481	481
Amortisation	(51)	(51)
Total as at 30 June 2014	798	798
		700
Total as at 30 June 2014 represented by		
Gross book value	849	849
Accumulated depreciation and impairment	(51)	(51)
Total as at 30 June 2014	798	798
Reconciliation of the opening and closing balances of intangibles for 2013		
	Computer software internally developed \$'000	Total \$'000
Additions		
Internally developed	368	368
Total as at 30 June 2013	368	368
T. 1 .00 1 .0000 11		
Total as at 30 June 2013 represented by	000	200
Gross book value	368	368
Accumulated depreciation and impairment Total as at 30 June 2013	368	368
iviai as at 30 Julio 2013		300
Note 7E: Other non-financial assets		
Prepayments	36	-
Total other non-financial assets	36	-

NOTE 8: PAYABLES

	2014	2013
	\$′000	\$'000
Note 8A: Suppliers		
Trade creditors and accruals	2,114	1,276
Total suppliers	2,114	1,276
Supplier payables expected to be settled		
No more than 12 months	2,114	1,276
Total suppliers	2,114	1,276
Suppliers in connection with		
Related entities	999	729
External parties	1,115	547
Total suppliers	2,114	1,276
Settlement is usually made within 30 days.		
Note 8B: Grants		
Public sector		
Australian Government entities (related entities) Private sector	779	3,221
Australian private companies	2,727	91
Australian public companies	-	978
Other unincorporated entities	-	107
Other incorporated entities ¹	692	148
Total grant payables	4,197	4,545
1. Relates mainly to funding provided by ARENA to Australian universities for scholarships and fellowships.		
Grant payables expected to be settled		
No more than 12 months	4,197	4,545
Total grant payables	4,197	4,545
Grant payables in connection with		
Related entities	779	3,221
External parties	3,418	1,324
Total grant payables	4,197	4,545
Settlement is usually made within 30 days.		
Note 8C: Other payables		
Wages and salaries	44	106
Superannuation Fringe benefits tax payable	2	2 6
Deferred rent payable	3	-
Total other payables	49	114
Other payables are expected to be settled		
No more than 12 months	48	114
More than 12 months		
Total other payables	1 49	114

NUTE 9: PROVISIONS		
	2014 \$'000	2013 \$'000
Note 9A: Employee provisions		
Leave	74	34
Total employee provisions	74	34
Employee provisions are expected to be settled		
No more than 12 months	59	29
More than 12 months	15	5
Total employee provisions	74	34

NOTE 10: CASH FLOW RECONCILIATION

	2014	2013
	\$'000	\$'000
Reconciliation of cash and cash equivalents as per Statement of Financial Position to Cash	Flow Statement	
Cash and cash equivalents as per		
Cash Flow Statement	26	221
Statement of Financial Position	26	221
Discrepancy	-	-
Reconciliation of net cost of services to net cash from operating activities		
Net cost of services	(252,269)	(57,283)
Add revenue from Government	261,942	59,580
Adjustments for non-cash items		
Change in value of investment	1,915	1,751
Depreciation	54	-
Net write down of non-financial assets	9	-
Changes in assets / liabilities		
(Increase) / decrease in net receivables	(660)	(5,748)
(Increase) / decrease in prepayments	(36)	-
Increase / (decrease) in employee provisions	40	34
Increase / (decrease) in supplier payables	838	1,276
Increase / (decrease) in grants payable	(348)	4,545
Increase / (decrease) in other payable	(65)	114
Net cash from operating activities	11,420	4,269

NOTE 11: CONTINGENT ASSETS AND LIABILITIES

		CLAIMS FOR DAMAGES OR COSTS				
	2014 \$'000	2013 \$'000	2014 \$'000	2013 \$'000		
Contingent liabilities						
New contingent liabilities recognised	500	-	500	-		
Total contingent liabilities	(500)	-	(500)	-		
Net contingent assets/(liabilities)	(500)	-	(500)	_		

No contingent assets were identified as at 30 June 2014.

Quantifiable Contingencies

The Schedule of Contingencies contains \$500,000 of contingent liabilities in respect of a letter of demand received in relation to an ARENA project (2013: Nil).

Unquantifiable Contingencies

As at 30 June 2014, ARENA does not have any unquantifiable contingencies.

Significant Remote Contingencies

As at 30 June 2014, ARENA does not have any significant remote contingencies.

ARENA did not have any contingent assets or liabilities in 2013.

NOTE 12: DIRECTORS REMUNERATION

	2014 No.	2013 No.
Note 12A: Non-executive directors' remuneration		
The number of non-executive directors of the entity included in these figures are shown below in the relevant remuneration bands		
\$0 to \$29,999	6	3
\$30,000 to \$59,999	1	3
\$60,000 to \$89,999	-	1
Total number of non-executive directors	7	7
	\$	\$
Total remuneration received or due and receivable by directors of ARENA	141,591	214,182

The Board consists of up to 6 appointed members and the Secretary of the portfolio department. Only appointed members are remunerated.

NOTE 13: RELATED PARTY DISCLOSURES

	2014 \$'000	2013 \$'000
Other Transactions with directors or director-related entities		
Payments to directors/director-related entities	32	77

ARENA had a contract for the provision of services in place with SolarFuture Pty Ltd a director-related entity of Mark Twidell. The contract was to provide high-level advice to assist ARENA to prepare and implement its strategy; manage relationships with key stakeholders; integration of programs and improving business processes.

NOTE 14: SENIOR EXECUTIVE REMUNERATION

2014 \$	2013

Note 14A: Senior executive remuneration expenses for the reporting period

Short-term employee benefits		
Salary	595,042	292,280
Other allowances		37,148
Total short-term employee benefits	595,042	329,428
Post-employment benefits		
Superannuation	69,440	24,150
Total post-employment benefits	69,440	24,150
Other long-term employee benefits		
Annual leave accrued	29,813	27,373
Long-service leave	9,886	4,942
Total other long-term employee benefits	39,699	32,315

704,181

385,893

Total senior executive remuneration expenses

^{1.} Note 14A is prepared on an accrual basis.

^{2.} Note 14A excludes acting arrangements and part-year service where total remuneration expensed as a senior executive was less than \$195,000.

NOTE 14: SENIOR EXECUTIVE REMUNERATION (CONTINUED)

Note 14B: Average annual reportable remuneration paid to substantive senior executives during the reporting period

Average annual reportable remuneration paid to substantive senior executives in 2014

Average annual reportable remuneration ¹	Substantive senior executives	Reportable salary²	Contributed superannuation ³	Reportable allowances ⁴	Total reportable remuneration
	No.	\$	\$	\$	\$
Total reportable remuneration (including part-time arra	angements):				
\$315,000 - \$344,999	2	299,580	34,693	-	334,273
Total number of substantive senior executives	2				

Average annual reportable remuneration paid to substantive senior executives in 2013

Average annual reportable remuneration ¹	Substantive senior executives	Reportable salany²	Contributed superannuation ³	Reportable allowances 4	Total reportable remuneration
	No.	\$	\$	\$	\$
Total reportable remuneration (including part-time arrangement	s):				
less than \$195,000	3	71,982	10,724	1,679	84,385
\$285,000 to \$314,999	1	274,984	22,106	-	297,090
Total number of substantive senior executives	4				

Note 14B is prepared on a cash basis.

- 1. This table reports substantive senior executives who received remuneration during the reporting period. Each row is an averaged figure based on headcount for individuals in the band.
- 2. 'Reportable salary' includes the following:
 - a) gross payments;
 - b) reportable fringe benefits (at the net amount prior to 'grossing up' for tax purposes);
 - c) reportable employer superannuation contributions; and
 - d) exempt foreign employment income.
- 3. The 'contributed superannuation' amount is the average cost to the entity for the provision of superannuation benefits to substantive senior executives in that reportable remuneration band during the reporting period.
- 4. 'Reportable allowances' are the average actual allowances paid as per the 'total allowances' line on individuals' payment summaries.

Note 14C: Average annual reportable remuneration paid to other highly paid staff during the reporting period

No other staff were paid above the threshold of \$195,000 during the reporting period.

NOTE 15: REMUNERATION OF AUDITORS

	2014 \$'000	2013 \$'000
The auditor of ARENA is the Australian National Audit Office (ANAO).		
Amounts received or due and receivable by the ANAO for		
Financial statement audit services for ASI ¹	-	24
Financial statement audit services for ARENA	90	90
Total	90	114

1. The Australian Solar Institute (ASI) ceased operation on 31 December 2012 and the entity's functions were transferred to ARENA. As a result ARENA paid the amount of \$24,164 for the ANAO audit of ASI financial statements for the period ended 31 December 2012.

No other services were provided by the ANAO.

NOTE 16: FINANCIAL INSTRUMENTS

	2014	2013
	\$′000	\$'000
Note 16A: Categories of financial instruments		
Financial assets		
Loans and receivables		
Cash and cash equivalents	26	221
Trade and other receivables	4	1,320
Total loans and receivables	30	1,541
Available-for-sale financial assets		
Investments	11,131	1,926
Total available-for-sale financial assets	11,131	1,926
Total financial assets	11,161	3,467
Financial liabilities		
Financial liabilities measured at amortised cost		
Trade creditors	2,114	1,276
Grants payables	4,197	4,545
Total financial liabilities measured at amortised cost	6,311	5,821
Total financial liabilities	6,311	5,821
Note 16B: Net gains or losses on financial assets		
Loans and receivables		
Interest revenue	25	2
Net gains/(losses) on loans and receivables	25	2
Available-for-sale financial assets		
Fair value changes	(1,915)	(1,751)
Net gains/(losses) on available-for-sale financial assets	(1,915)	(1,751)
Net gains/(losses) on financial assets	(1,890)	(1,749)

NOTE 16: FINANCIAL INSTRUMENTS (CONTINUED)

Note 16C: Fair value of financial instruments

	Carrying amount 2014 \$'000	Fair value 2014 \$'000	Carrying amount 2013 \$'000	Fair value 2013 \$'000
Financial assets				
Loans and receivables:				
Cash and cash equivalents	26	26	221	221
Trade and other receivables	4	4	1,320	1,320
Available for sale:				
Investments	11,131	11,131	1,926	1,926
Total financial assets	11,161	11,161	3,467	3,467
Financial liabilities				
At amortised cost:				
Trade creditors	2,114	2,114	1,276	1,276
Grants payable	4,197	4,197	4,545	4,545
Total financial liabilities	6,311	6,311	5,821	5,821

Note 16D: Credit risk

ARENA was exposed to minimal credit risk as loans and receivables were cash and trade receivables. The maximum exposure to credit risk was the risk that arises from potential default of a debtor. This amount was equal to the total amount of other receivables.

The entity held no collateral to mitigate against credit risk.

Maximum exposure to credit risk (excluding any collateral or credit enhancements)

	2014 \$'000	2013 \$'000
Financial assets carried at amount not best representing maximum exposure to credit risk		
Trade and other receivables	4	1,320
Total financial assets carried at amount not best representing maximum exposure to credit risk	4	1,320

Credit quality of financial assets not past due or individually determined as impaired

	Not past due nor impaired 2014 \$'000	Not past due nor impaired 2013 \$'000	Past due or impaired 2014 \$'000	Past due or impaired 2013 \$'000
Receivables for goods and services	4	1,320	-	-
Total	4	1,320	-	-

NOTE 16: FINANCIAL INSTRUMENTS (CONTINUED)

Note 16D: Credit risk (continued)

Ageing of financial assets that were past due but not impaired in 2014

	0 to 30 days \$'000	31 to 60 days \$'000	61 to 90 days \$'000	90+ days \$'000	Total \$'000
Receivables for goods and services	4	-	-	-	4
Total	4	-	-	-	4

Ageing of financial assets that were past due but not impaired in 2013

	0 to 30 days \$'000	31 to 60 days \$'000	61 to 90 days \$'000	90+ days \$'000	Total \$'000
Receivables for goods and services	1,320	-	-	-	1,320
Total	1,320	-	-	-	1,320

Note 16E: Liquidity risk

ARENA's financial liabilities were payables. The exposure to liquidity risk was based on the notion that ARENA will encounter difficulty in meeting its obligations associated with financial liabilities. This was highly unlikely due to government funding mechanisms available to ARENA and internal policies and procedures in place to ensure there were appropriate resources to meet its financial obligations.

Maturities for non-derivative financial liabilities in 2014

	On demand \$'000	within 1 year \$'000	between 1 to 2 years \$'000	between 2 to 5 years \$'000	more than 5 years \$'000	Total \$'000
Trade creditors	2,114	-	-	-	-	2,114
Grants payable	4,197	-	-	-	-	4,197
Total	6,311	-	-	-	-	6,311

Maturities for non-derivative financial liabilities in 2013

	On demand \$'000	within 1 year \$'000	between 1 to 2 years \$'000	between 2 to 5 years \$'000	more than 5 years \$'000	Total \$'000
Trade creditors	1,276	-	-	-	-	1,276
Grants payable	4,545	-	-	-	-	4,545
Total	5,821	-	-	-	-	5,821

Note 16F: Market risk

ARENA held basic financial instruments that did not expose the entity to certain market risks, such as 'Currency risk' and 'Other price risk'.

NOTE 17: FINANCIAL ASSETS RECONCILIATION

	Notes	2014 \$'000	2013 \$'000
Financial assets			
Total financial assets as per Statement of Financial Position		17,564	7,898
Less: non-financial instrument components			
Statutory receivables	6B	(6,225)	(1,044)
Receivable from portfolio department	6B	(178)	(3,387)
Total non-financial instrument components		(6,403)	(4,431)
Total financial assets as per financial instruments Note 16		11,161	3,467

NOTE 18: COMPENSATION AND DEBT RELIEF

Compensation and debt relief

No 'Act of Grace payments' were expensed during the reporting period (2013: nil).

No waivers of amounts owing to the Australian Government were made pursuant to subsection 34(1) of the *Financial Management and Accountability Act 1997* (2013: nil).

No payments were provided under the Compensation for Detriment caused by Defective Administration (CDDA) Scheme during the reporting period (2013: nil).

No ex-gratia payments were provided for during the reporting period (2013: nil).

No payments were provided in special circumstances relating to APS employment pursuant to section 73 of the *Public Service Act 1999* (PS Act) during the reporting period (2013: nil).

NOTE 19: REPORTING OF OUTCOMES

Note 19A: Net cost of outcome delivery

	Outcom	Outcome 1		
	2014 \$'000	2013 \$'000	2014 \$'000	2013 \$'000
Departmental				
xpenses	266,576	65,840	266,576	65,840
Own-source income	(14,307)	(8,557)	(14,307)	(8,557)
Net cost of outcome delivery	252,269	57,283	252,269	57,283

Outcome 1 is described in Note 1.1. Net costs shown included intra-government costs that were eliminated in calculating the actual Budget Outcome. Refer to Outcome 1 Resourcing Table of this Annual Report.

The face statements of these financial statements represent the major classes of departmental expense, income, assets and liabilities by outcome and as such they are not repeated in Note 19.

TOMORROWS ENERGY INFRASTRUCTURE CREATING CREATI

ACRONYMS AND INITIALISMS

ABIR Advanced Biofuels Investment Readiness

Australian National Audit Office ANAO

ARENA Australian Renewable Energy Agency ASCI Accelerated Step Change Initiative

ASI Australian Solar Institute

CARRE Community and Regional Renewable Energy Program

CEFC Clean Energy Finance Corporation

CEO Chief Executive Officer CFO Chief Financial Officer

CRI Commercial Readiness Index CSP concentrated solar power FIF Education Investment Fund ERP Emerging Renewables Program

EOI expression of interest FTE full-time equivalent GFS General Funding Strategy GST goods and services tax

GW gigawatt

I-RAR Regional Australia's Renewables Industry Program

ΙP Investment Plan

MWmegawatt

PBS Portfolio Budget Statement

PGPAPublic Governance, Performance and Accountability

PV Photovoltaic

RAC Risk and Audit Committee

RAR Regional Australia's Renewables

RET Renewable Energy Target

REVC Renewable Energy Venture Capital

SHARE Supporting High-value Australian Renewable Energy Knowledge

TRL Technical Readiness Level WHS work health and safety

104

ARENA ANNUAL REPORT 2013/14 REFERENCES

105

LIST OF FIGURES AND TABLES

FIGURES

Fig 1:	ARENA's relationship with the RET and CEFC	7
Fig 2:	ARENA Board, 30 June 2014	13
Fig 3:	ARENA organisational structure	13
Fig 4:	ARENA funding by technology (at 30 June 2014)	15
Fig 5:	Innovation chain	20
Fig 6:	ARENA programs across the innovation chain	21
Fig 7:	Technical Readiness Level and Commercial Readiness Index on the innovation chain	22
Fig 8:	Indicative ARENA application assessment process	23
Fig 9:	ARENA funding across the innovation chain	24
Fig 10:	ARENA Board membership, 2013-14	45
Fig 11:	ARENA Chief Executive Officer, 2013-14	49
TABLES		
Table 1:	Amendments to ARENA Act s64	11
Table 2:	Planning and reporting framework, 2013-14	15
Table 3:	Results against ARENA performance measures, 2013-14 (at 30 June 2014)	16
Table 4:	Agency resource statement, 2013-14	17
Table 5:	Expenses by outcome, 2013-14	18
Table 6:	Contribution to Ecologically Sustainable Development, 2013-14	36
Table 7:	ARENA Board meetings, 2013-14	48
Table 8:	ARENA Risk and Audit Committee meetings, 2013-14	50
Table 9:	Financial assistance, 2013-14	51

INDEX OF COMPLIANCE WITH ANNUAL REPORT REQUIREMENTS

Australian Renewable Energy Agency Act 2011 (section 70)	For each person to whom financial assistance has been provided, particulars of:	51-59
	■ name of the person	
	■ nature and amount of the financial assistance provided or committed	
	 renewable energy technology or technologies to which the assistance relates 	
	Assessment of the extent to which agreements for the provision of financial assistance entered into during the year have progressed, or are expected to progress, the principle objectives and priorities as stated in the general funding strategy in force for the year	51-59
	Ministerial directions under s. 13 (Minister directs ARENA to provide advice)	12
	Ministerial requests under s. 11 (Minister requests ARENA to consider funding for specified projects)	12
Australian Renewable Energy Agency (Consequential Amendments and Transitional Provisions) Act 2011 (Schedule 2, Part 2, section 28)	In respect of financial assistance provided under a transferred Commonwealth funding agreement or ASI Limited agreement:	51-59
	■ name of the person	
	nature and amount of the financial assistance provided or committed	
	 renewable energy technology or technologies to which the assistance relates 	
Commonwealth Authorities and	Annual report content requirements:	62-102
Companies Act 1997 (section 16; Schedule 1, parts 1 and 2)	■ financial statements prepared by the directors in accordance with the:	
	 Commonwealth Authorities (Annual Reporting) Orders 2011—which contain the requirements for the content of the report of operations of a Commonwealth authority for financial years ending on or after 30 June 2005 	
	 Commonwealth Authorities and Companies Orders (Financial Statements)—which outline the requirements for the preparation of annual financial statements by Commonwealth authorities 	
	AuditorGeneral's report to the Minister on those financial statements, prepared under Part 2 of Schedule 1	
	 provision of reports, documents and information in relation to ARENA's operations as required by the Finance Minister, including but not limited to annual CAC Act compliance reporting under Finance Circular 2008/05 	
Commonwealth Authorities (Annual Reporting) Orders 2011 (<i>Commonwealth Authorities and</i> <i>Companies Act 1997</i>)	Directors (para 13)	iii, 13,
	names, qualifications and experience	44-48
	executive director or non-executive director	
	meeting attendance	
	 approval and preparation of report of operations (para 6) 	
	Disclosure requirements for government business enterprises (para 20)	NA
	Exemption from the Orders (para 7)	NA
	Indemnities and insurance premiums for officers (para 19)	40
	Index of requirements (para 21)	Yes

Commonwealth Authorities (Annual Reporting) Orders 2011 (Commonwealth Authorities and Companies Act 1997)	Judicial decisions and reviews by outside bodies (para 17)	40
	decisions of administrative tribunals	
	■ reports by the Auditor-General, a parliamentary committee, the Commonwealth Ombudsman or the Office of the Australian Information Commissioner	
	Enabling legislation (para 10)	10
	 enabling legislation, including a summary of agency's objectives and functions 	
	Ministerial directions and other statutory requirements (para 12)	12
	directions	
	■ General Policy Orders	
	■ other legislation	
	Organisational structure (para 14)	10, 13-14
	■ structure	17-18
	location/s of operations	
	■ statement on governance, including	44-48, 50
	board committees and responsibilities	
	education and performance review processes for directors	
	ethics and risk management policies	
	Related entity transactions (para 15)	41
	Responsible minister (para 11)	12
	Key activities and changes (para 16)	11, 24, 40
	 significant events (section 15 of the CAC Act)—formation of company, significant partnership or trust 	11
	operational and financial results	17-18, 20-21
	 state of affairs or principle activities 	24
	amendments to enabling or other legislation	11
	Standards of presentation and language and design (paras 8–9)	Yes
	Subsidiaries (paras 14 and 18)	NA
Environment Protection and Biodiversity Conservation Act 1999 (section 516A)	Accord between activities and ecologically sustainable development (ESD) principles	36
	Contribution of outcomes to ESD	36
	Effects of activities on the environment	36
	Measures to review and minimise effects on the environment	36
Freedom of Information Act 1982 (Part II)	Information Publication Scheme statement	40
Work Health and Safety Act 2011 (Schedule 2, part 4)	Initiatives	41
	Investigations	41
	Notifiable incidents	41
	Other matters	41

INDEX

Abengoa Solar, 26 abolition of ARENA, 11, 40 Accelerated Step Change Initiative, 21, 31 achievements, 5 acronyms and initialisms, 104 administrative tribunals, 40 advanced biofuels, 21, 33 Advanced Biofuels Investment Readiness Program projects, 21 Advisory Panel, 13 agency resource statement, 17 AGL, 24 appropriations, 11, 17-18 see also financial statements; funding (ARENA) assessment tools and process, 22-23 Auditor-General, 40 audits independent audit report, 40, 63-64 internal, 40 Australian Centre for Renewable Energy, 10 Australian National Audit Office, 40 Australian National University, 25 Australian Public Service Values and Code of Conduct, 38 dealing with alleged breaches, 39 Australian Renewable Energy Agency Act 2011, 10, 11, 14, 17, 20, 44 Australian Renewable Energy Agency (Consequential Amendments and Transitional Provisions) Act 2011, 51 Australian Renewable Energy Agency Determination No. 1 of 2013, 10 Australian Renewable Energy Agency (Repeal) Bill 2014, 11 Australian Solar Institute, 10, 21, 25

B

Big Solar *see* Deploying Utility Scale Renewable Energy (Big Solar) bioenergy, 15, 21, 33, 52, 53, 54, 58 Board meetings, 47-48 membership, 13, 14, 44-47 remuneration, 92 reporting to Minister, 12, 48 responsibilities, 44 Risk and Audit Committee, 40, 48, 50 strategic approach, 7 Broken Hill, NSW, 24-25 Business Continuity Plan, 37

C

Carnegie Wave Energy Limited CETO wave energy technology, 28 Chair, 13, 45 letter of transmittal, iii report from, 2 Chief Executive Officer, 13, 49 report from, 3 Chief Financial Officer, 13, 50 Clean Energy Finance Corporation (CEFC), 7 Clean Energy Legislation (Carbon Tax Repeal) Act 2014, 11, 17 Clean Energy Legislation (Carbon Tax Repeal) Bill 2014. 10 Comcover, 40 Commercial Readiness Index, 22, 23 commercialisation, 6, 20, 22, 32 committees of Board see Risk and Audit Committee Commonwealth Authorities and Companies Act 1997, 10, 11, 12, 14, 38, 40, 48, 50 Commonwealth Fraud Control Guidelines, 39 Commonwealth Ombudsman, 40 Commonwealth Procurement Rules, 36 Community and Regional Renewable Energy Program (CARRE), 21, 29, 31 competitiveness of renewable energy technologies, 16 conflicts of interest policy, 37 consultancies, 36 contact details, ii corporate governance, 11, 37 cost reductions in solar photovoltaic systems, 6 CSIRO, 26 culture, organisational, 14

demonstration projects, 22 case studies, 27-28 component of innovation chain, 24 financial assistance agreements and progress, 58-59 Department of Industry, 11, 15, 18, 37, 40, 41 Department of Resources, Energy and Tourism, Deploying Utility Scale Renewable Energy (Big Solar), 21, 24-25 deployment projects case studies, 30 component of innovation chain, 24 financial assistance agreements and progress, 57 performance, 24-25 desalinated water production, 28 diesel generation reduction/replacement, 27, 30, 31 Disaster Recovery Plan, 37 due diligence on proposals, 23, 37 WHS obligations, 41

Ε

ecological sustainable development, 36
Education Investment Fund (EIF), 10-11
electricity generation, renewable energy share, 6, 16
Emerging Renewables Program, 21, 27-28, 31
emerging technologies, 6, 27-28, 31
Enhanced Geothermal Systems, 32
Environment Protection and Biodiversity
Conservation Act 1999, 36
ethics, 37, 38
expenses by outcome, 17-18
external scrutiny, 40

F

fellowships and scholarships, 25, 55-57 financial assistance agreements and progress, 51-59

Financial Management and Accountability Act 1997, 14, 38 financial performance, 11, 17-18 financial statements, 61-102 financial support for projects/R&D, additional, First Solar (Australia) Pty Ltd, 29-30 fraud control, 39 Freedom of Information Act 1982, 40 freedom of information report, 40 fringe-of-grid locations, renewable energy solutions, 27, 29 funding (ARENA), 10-11, 17 funding applications Advisory Panel role in assessment, 13 approved, 3, 24 assessed, 3, 24 assessment tools and process, 22-23 decision making safeguards, 10 funding for technologies, 15

G

gas processing, geothermal energy sources in, 32 General Funding Strategy, 12, 16, 20-21 General Policy Orders, 12 geothermal energy, 15, 31, 32, 53, 58, 59 governance, 11, 37 green electricity, 28 grid-connected CETO technology, 28

Н

health and safety arrangements, 41 High-Value Knowledge List, 31, 33 Hot Sedimentary Aquifer geothermal energy, 32 hybrid energy technologies, 15 hybrid technology, 27, 30, 31, 51, 52

ı

independent audit report, 40, 63-64 Information Publication Scheme, 40 innovation chain, 20, 21, 22, 24 insurance cover, 40 integrated energy technologies, 30, 31 internal audit, 40 International Geothermal Expert Group, 32 Investment Plan, 16, 20-21 investment strategy, 6, 16, 20-21

J

judicial decisions, 40

K

key activities and changes affecting ARENA, 40 knowledge management, 40, 59 knowledge sharing, 31, 33

Laing O'Rourke, 27 legal expenditure, 41 legislative framework, 14, 38 enabling legislation, 10 enabling legislation repeal bill, 11 funding schedule amendment, 11 letter of transmittal, iii liability insurance, 40

M

marine energy sources, 15
Minister for Industry, 10, 12
Board reports to, 12, 48
Minister for Resources and Energy, 12
Ministerial approvals, 12
ministerial directions, 11, 12
Ministers responsible, 12
mission, 7

N

nanotechnology, 25 National Renewable Energy Laboratory (US), 22 Nyngan, NSW, 24-25

O

P

Parliamentary Budget Office, 12 parliamentary committees, 40 performance achievements in first two years, 5 financial, 11, 17-18 against performance measures, 16 program performance, 20-33 Perth Wave Energy Project, 28 planning and reporting framework, 15 plans, 15 Business Continuity Plan, 37 Disaster Recovery Plan, 37 Fraud Control Plan, 39 Investment Plan, 16, 20-21 risk management, 37 Work Plan, 12 plasmonic solar cells, 25 Portfolio Budget Statements, 17, 20 priorities, operational, 16 procurement, 36 program and outcome structure, 18 program performance, 20-33

initiatives and programs, 21	component of innovation chain, 24
objectives, 23	financial assistance agreements and
outcomes, 24-33	progress, 51-57
projects	performance, 25-26
additional support, 3, 24	Research and Development Program, 3, 12, 21, 25
approved, 3, 24	
assessment tools and process, 22-23 completed, 3, 24	Review of Corporate Governance of Statutory Authorities and Office Holders (Uhrig review),
financial assistance agreements and	12
progress, 51-59	Rio Tinto Alcan, 29, 30
milestones, 18	Risk and Audit Committee, 40, 48, 50
performance and outcomes, 24-33	risk management, 37
selection process, 23	role and functions of ARENA, 6, 10
value, 3, 24	
Public Governance, Performance and	
Accountability Act 2013, 38	S
Public Interest Disclosure Act 2013, 39	
Public Interest Disclosure Scheme, 39	scholarships and fellowships, 25, 55-57
Public Service Act 1999, 14, 18	Senate Economics Legislation Committee, 11
	senior executive, 13, 49-50
	remuneration, 94-95
R	service charter, 38
radanlavahla larga saala salar/diasal huhrid	service level agreement with Department, 15
redeployable large-scale solar/diesel hybrid	significant events, 11
power plant, 27 Regional Australia's Renewables Community	Softbank China Venture Capital, 33 solar cells, 6, 25
and Regional Program, 21, 29, 31	solar demonstration projects, 58-59
Regional Australia's Renewables Industry	solar deployment projects, 57
Program, 21, 27, 29-30	solar photovoltaic system cost reductions, 6
Regional Australia's Renewables Initiative, 21,	solar power systems, 6, 15, 30
27, 29-31	large-scale, 10, 21, 24-25
related entity transactions, 41	solar research projects, 25-26, 51-54
remote regions, energy solutions for, 27, 29-31	solar/diesel hybrid power plant, redeployable,
remuneration	27
auditors, 96	Southern Cross Renewable Energy Fund, 21, 33
non-executive directors, 92	Southern Cross Venture Partners Pty Ltd, 33
SES officers, 94-95	staff, 14, 18
Renewable Energy Target (RET), 7	stakeholder engagement, 14
Renewable Energy Venture Capital Fund	steam production using solar energy, 26
Program (Southern Cross Renewable Energy	strategic approach, 7
Fund), 15, 21, 33	Strategic Research Initiatives, 25
reporting	structure, organisational, 13
ARENA activities, 12 Board meetings, 12, 48	subsidiaries, 41 supercritical steam, 26
framework, 15	supply of renewable energy, 6, 16
to Minister, 12, 48	Supporting High-value Australian Renewable
13 Milliotel, 12, 10	Sapporting ringir raids rustralian renewable

Energy Knowledge (SHARE) program, 21, 31, 32

Synergy, 40

research and development activities

additional support, 24

case studies, 25-26

T

Technical Readiness Level, 22, 23 technologies, emerging *see* emerging technologies timeframe for delivery of objectives, 7 training and development, 38-39 transportable solar farm, 27

U

Uhrig review (*Review of Corporate Governance of Statutory Authorities and Office Holders*), 12



values, 38 vision, 7



wave energy arrays, 28, 57, 58 Weipa solar farm, 30 work health and safety, 41 Work Health and Safety Act 2011, 41 Work Plan, 12