

ANNUAL REPORT



2014/2015





CAT Company Group



The CAT Company Group is comprised of the Centre for Appropriate Technology Ltd (CAT Ltd) – an Aboriginal and Torres Strait Islander owned not-for-profit business – and its wholly owned multi award winning commercial engineering consultancy Ekistica PTY Ltd trading as CAT Projects.

CAT is based in Alice Springs with a national focus – currently undertaking projects across Central and Northern Australia (WA, NT, Qld and SA). CAT has a proven track record of implementing highly successful partnerships and technology solutions with Aboriginal and Torres Strait Islander communities. Success is built upon effective Aboriginal community engagement and true collaboration in decision making; planning, implementation, operationalisation and assessment. CAT is also a Registered Training Organisation (RTO).

CAT Projects specialises in remote and urban area project management, energy and power system engineering and stakeholder management across both Australia and the Asia Pacific Region. CAT Projects exports the IP and technologies developed in partnership with Aboriginal and Torres Strait Islander communities to address remote area needs in Australia and overseas.

CAT Company Group has 65 Staff and \$11.2M turnover. Twenty-eight percent of CAT staff are Aboriginal or Torres Strait Islander.

What we do

From its establishment in 1980 CAT Ltd has grown to become a leading Aboriginal and Torres Strait Islander science and technology business specialising in providing appropriate technology and service delivery solutions across remote Australia. We combine our unique understanding of remote contexts and their development challenges with technical expertise to deliver the enabling technology platforms that support social and economic empowerment.

The scope of CAT's activities ranges from local engagement with people and place to delivering robust technical advice, design and project implementation. We link Aboriginal and Torres Strait Islander people with knowledge and skills to stimulate innovation and enable sustainable solutions. Our work spans the fields of water, renewable and isolated energy systems, telecommunications, community infrastructure and accredited training.

Our Vision

Happy and safe communities of Aboriginal and Torres Strait Islander people.

Our Mission

Securing sustainable livelihoods through appropriate technology.

Through our unique knowledge of remote people and place we apply integrated technical, project design, engagement, training and infrastructure expertise to deliver innovative appropriate 'enabling technology' platforms and processes that underpin development.

Appropriate 'fit for purpose' technology unlocks economic development.



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Wayne Doolan and Xavier Armstrong, Finke Community.

Highlights 2014/15



Next generation appropriate technology: CAT MOBILE PHONE HOTSPOT

During 2014/15, CAT developed the mobile phone HotSpot, to provide mobile coverage in remote locations such as communities and roads where coverage for hand-held mobile devices has not been available until now. The Hotspot design is in keeping with CAT's reputation for robust appropriate technology, since it requires no power supply and has no moving parts. Furthermore, the surveying, fabrication and installation at each site is carried out by the CAT Enterprise workshop, ensuring ongoing employment for Aboriginal people. The first sites were installed at Hermannsburg outstations early in 2015 and are operating successfully. CAT is currently discussing a more substantial roll-out of this technology with Northern Territory and Federal Government agencies.



Phil Coombe and Roland Dann installing signs.

SKILLS FOR REMOTE AREA WORK

CAT Ltd's RTO arm specialises in providing place based job relevant technical training at Certificate I to III levels for remote Aboriginal communities and employers across the Northern Territory.

During 2014 CAT trained a total of 533 students and delivered 53,535 actual contact hours. The average completion rate for our programs is 75 percent which is significantly higher than the NT average.



Welding and fabrication

ALICE SPRINGS REVITALISATION PROJECT WINS NT ARCHITECTURE AWARDS

This project won the Urban Design Award, the Colourbond Award for Steel Architecture and the Tracey Memorial Award.

Aboriginal staff in the CAT Enterprise worked closely with designer Elliot Rich to fabricate the bench seats located in the CBD.

CAT Projects were also an integral part of the broader project team providing engineering and project management services.



CAT Enterprise staff installing bench seats in Alice Springs mall.

ABORIGINAL LED INFRASTRUCTURE DEVELOPMENT

CAT has worked very closely over the last 12 months with Central Land Council's Community Development Unit (CLC-CDU) who administers community allocated funds for the delivery of community level infrastructure.

In partnership with CLC-CDU, we are directly involved in community engagement and helping community's to make the appropriate decisions on how to utilise their money. CAT undertakes procurement and project management and prioritises opportunities for the training and employment of local residents.

In 2014/15, projects have been largely centred within a 300 km radius of Alice Springs and have included the building of ablution blocks, laundries, meeting places, fencing and church upgrades. The total turnover for projects has been over \$1M.

Projects provided accredited training and employment for over 20 local Aboriginal people.

ARRERENTE WOMEN'S CAMP

In April 2015, CAT welcomed a group of Arrernte Women to an intensive five week music camp at the CAT Life Skills Camp.

Organised by Rachel Perkins (Blackfella Films) with assistance from Myfany Turpin (Sydney Conservatorium of Music) the camp involved the revival of traditional singing practices and the sharing of knowledge and performance across generations. The Life Skills Camp and the surrounding land provided the Arrernte Women with a deep cultural connection that was necessary for their ceremonies and was greatly appreciated by the group.



Attendees at the Arrernte Women's Camp and CAT Board members.

REVENUE OVER THE REPORTING PERIOD

CAT Ltd revenue for the 2014/15 year was evenly balanced between government grants and commercial contracts. A total of \$5.4M was secured from winning fee for service contracts and \$5.5M represented income from government.



Report from the Chairman



The Board of CAT has been very busy over the last 12 months with a focus on getting us back on track after the fallout from external widespread shocks within Indigenous affairs. We have identified the need for a new way forward for Aboriginal organisations like CAT. This is a path of renewal and will enhance our ability to assist Aboriginal people and communities into the future.

We have made a very strategic appointment at the top of the organisation, bringing on board our new CEO Steve Rogers and have committed to a sharper business focus in all operations and processes at CAT to ensure that we get the best possible outcomes for Aboriginal people in remote Australia. We have transitioned from being a block funded organisation for our first 30+ years to a business based on openly contested projects, contract opportunities, and the development of strategic partnerships with the public and private sector.

Core to our future is that we ensure that Aboriginal people are present in any future engagement about their lands and development aspirations.

In my recent update in March I introduced Dr. Steve Rogers to members. Steve is enthusiastic about further developing CAT's grounding in science and innovation and the provision of independent technical advice and support. To this end he requested the CAT Ltd Board to endorse the establishment of a \$200k CAT Innovation Fund (CAI). The Fund provides CAT staff the opportunity to leverage and match external funding in order to research, design and further develop innovative technologies and approaches that deliver better outcomes for Aboriginal and Torres Strait Islander people across central and northern Australia. The CAI incorporates a competitive application process and requires Board subcommittee approval.

The Board is committed to nurturing the skills and talents of staff and building an organisational culture where technical expertise leverages local knowledge to deliver appropriate and innovative solutions to the issues CAT works to address.

The Board has also appointed Grant Behrendorff as a new company Director. He brings strong background knowledge of Bushlight and Bushlight India projects as well as valued experience from overseeing his own successful energy business based out of Cairns QLD. We have also endorsed the appointment of our CEO Dr Steve Rogers onto the Board of Ekistica Pty Ltd (trading as CAT Projects) to compliment and strengthen the company governance arrangements and to streamline current capability across the CAT Company Group.

Actively building and strengthening the membership base with strategic appointments for extra skills and knowledge in the Corporation will be an ongoing priority for the Board. We are also investing significantly in developing the strategic focus for CAT and exploring opportunities for geographic expansion.

Organisational confidence has been maintained through two successful projects on the Utopia and Laynhapuy Homelands, increased training outcomes and more recently the CAT mobile Hotspots rollout. With one year of block funding to run we have been actively engaging with The Department of Prime Minister and Cabinet around the remaining work plan for 2015/16.

Aboriginal employment outcomes and technological and innovation solutions that not only support Aboriginal communities but can also be transferred to remote locations anywhere, have been a highlight for the Board. The audit of Homelands and Outstations undertaken this year have delivered excellent results for CAT and communities

through the stewardship of Robyn Grey-Gardner and her hard working team of existing and ex CAT staff and the many friends of CAT. A big thank you to Robyn and team!

CAT now has a depth and breadth of infrastructure knowledge and relationships with the majority of smaller communities in the NT and this will help assist in future development plans for those remote communities.

We have built successful relationships with the Department of Prime Minister and Cabinet in Canberra and regionally and also the Northern Territory Government. We are finding that the NT government highly values our capacity and capability and have pursued senior CAT staff for advice on many and varied opportunities for communities right across the NT. We are also seeing closer working relationships through the Land Councils as well.

In closing I would like to take this opportunity to provide a sincere thank you to Dr Bruce Walker. Bruce took the helm at CAT through a tumultuous period and worked closely with the Board to rebuild stability and sharpen our confidence and capability to respond to future opportunities.



Peter Renehan, CAT Chairman



The Hon Peter Styles MLA with CAT Chairman Peter Renehan and Board members Frank Curtis and Jenny Kroker.

Report from the CEO



It is my great pleasure to present my first CEO annual report having commenced with CAT in late January this year. It has certainly been a busy initial five months for myself and a busy year for CAT as we continue to re-position the organisation and commence building a vision and sustainable future that will deliver meaningful benefit to Aboriginal people in remote Australia.

Following a period of downsizing, staff numbers have remained fairly stable during the reporting period, with 53 staff of which 28 percent are Aboriginal or Torres Strait Islander. This provides CAT with a core capacity and capability with which to build on.

I'm also pleased to report that CAT has achieved a positive operating result this year, this is a significant turnaround following significant operating losses in the preceding two financial years, demonstrating the organisation is now on a sound financial basis. This result is testament to the efforts of all staff in the organisation who collectively played a part in the control of costs, the securing of new business opportunities, and prudent decision making during the year.

The transition to the Commonwealth Government Indigenous Advancement Strategy program has certainly received significant attention and comment nationally. However, CAT was successful in securing two and a half years funding to support its 'in place' training programs. In fact the CAT training program has performed exceptionally well this year and has transitioned in 12 months from making a significant financial loss in 2013/14 to a six figure net income this year. Part of this is due to a reduction in costs, but it is also the result of a significant increase in demand for CAT training with Aboriginal RJCP's.

CAT continues to deliver project outcomes that have demonstrable benefit to Aboriginal people. Delivery highlights during the year include:

- » CAT RTO delivering place based, job relevant training to 533 students in Aboriginal communities, delivering 53,535 contact hours with a completion rate of 75%.

- » CAT infrastructure group delivering over \$1M of community infrastructure projects on behalf of the Central Land Council's Community Development Unit that provided training and employment for 20 local Aboriginal people.
- » Design and uptake of the BEEBox energy use interface technology through the Manymak Energy Efficiency Project with over 150 installed in houses in East Arnhem Land. The CAT team working on this project also trained 93 Yolngu Energy Efficiency workers of which 72 are now regularly employed in the project.
- » The successful installation and operation of two CAT Mobile Hotspots at outstations located near Hermannsburg.

The development and roll out of the CAT Mobile Hotspot epitomises the core of CAT's mission. In response to a 'service' gap identified by Aboriginal people, CAT has designed a simple, robust, fit for purpose technology that is able to successfully fill a 'hole' in the provision of mobile phone service in remote locations. The fabrication, siting and installation of the technology also provides employment and skills development for Aboriginal people working at CAT. This is what CAT is about, Aboriginal people working with technical experts to develop and deliver solutions. The HotSpot demonstrates how living in the bush shouldn't mean you don't get essential and municipal services like everywhere else in Australia. It also shows that how services are delivered, and the technologies and infrastructure used, will be different to the ways things are done in urban Australia. In recognition of the potential for the Hotspot technology to address mobile telecommunication black spots and to protect our intellectual property CAT has applied for an Australian Patent (Application no. 2015202582).

Clearly the technology has application outside of Aboriginal communities, such as black spots on major infrastructure routes, and CAT has received significant interest from a range of interested parties. I look forward to reporting more exciting news about further developments in future Annual reports.

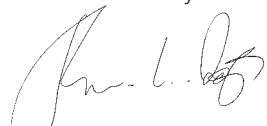
CAT is a national organisation that works across Aboriginal communities, Federal, State, Territory and Local Government agencies, the private sector and NGO's. During the year 209 organisations engaged with CAT providing financial or other support to its programs including 93 Aboriginal communities across NT, WA and Queensland, 21 Government Departments and 95 private sector and NGO's (the majority of which are Aboriginal organisations). These figures truly demonstrate the extent of CAT's engagement across multiple sectors in remote Northern Australia.

One outstanding example of our work in Queensland is the Live and Thrive on Country Program, supported by the John Villiers Trust, a philanthropic organisation supporting development in rural and remote Queensland. This program has worked with a number of Aboriginal Corporations, providing technical and project management support assisting groups in leveraging funding and investment to achieve economic and social outcomes from the ownership of traditional homelands. Examples include securing improved water supply infrastructure and solar power development.

None of these outcomes would have been possible without the dedication and professionalism of CAT staff, many of whom have remained committed to CAT and its vision through some very difficult and challenging times over the past few years. Seldom have I had the privilege to work with such a committed and dedicated group of people. I'd like to extend my personal thanks to you all, and gratitude in steering me through a fairly steep learning curve over the last few months.

I would also like to express my gratitude and thanks to the CAT Ltd Board of Directors, and the Chair Peter Renehan for their patience, guidance, and support throughout my first six months in the CEO position.

Finally, I would like to express my thanks and gratitude to the Aboriginal people I have met with in remote communities. CAT can only continue to achieve successful outcomes with your ongoing support and partnership.



Steve Rogers, CEO



Steve Rogers at Williams Well Outstation.

Partners & end-users

END USERS: GOVERNMENTS, INDUSTRY AND NGOS, COMMUNITIES

CAT Ltd works with governments, non-government organisations, the private sector and communities across the NT, WA and QLD. Those listed in the following table provided financial or other support for CAT's activities during 2014/15.

GOVERNMENT

Department of Chief Minister NT
Department of Business NT
Department of Prime Minister & Cabinet
Department of Communities NT
Department of Correctional Services NT
Department of Infrastructure NT
Department of Corporate & Information Services NT
Department of Aboriginal and Torres Strait Islander and Multicultural Affairs QLD
Australian Army (ACCAP)
Barkly Regional Council
Central Desert Regional Council
Cookshire Council (QLD)
East Arnhem Regional Council
Inspiring Australia
McDonnell Regional Council
NT Parks & Wildlife
Roper Gulf Regional Council
Tiwi Regional Council
Victoria-Daly Regional Council
West Daly Regional Council

INDUSTRY & NGOS

ACCAN
Alternative Technology Association
Arid lands Environment Centre NT
Animal Management in Rural & Remote Indigenous Communities (AMRRIC)
Arnhem Lands Progress Association
Arup
Aurecon
Australian Conservation Foundation

Balkanu Cape York Development Corporation (QLD)
Bana Yarralji Bubu inc. (QLD)
Barkly Regional Council NT
Batchelor Institute of Indigenous Tertiary Education
Bawinanga Aboriginal Corporation
Broadband for the Bush Alliance
Bush Heritage Australia
Cape York Land Council
Cape York Natural Resource Management
CatholicCare NT
Central Land Council
Central Desert Native Title Services (WA)
Charles Darwin University
Civil Train
Coen Region Aboriginal Corporation (QLD)
CSIRO
Darrba Land Trust (QLD)
Dambimangari Aboriginal Corporation
Desert Knowledge Australia
Embassy of the United States of America
Engineers Without Borders
Environment Centre (NT)
Galgenyem Trust (WA)
Gerdan Cultural Tours (WA)
Ilpeye Ilpeye Aboriginal Corporation
Indigenous Business Australia
Indigenous Community Volunteers
Indigenous Land Corporation
Intrepid Travel
Iwupataka Land Trust (NT)

Jabalbina Yallanji Aboriginal Corporation (QLD)
Jarlmadangah Eco Retreat
James Cook University
Jawoyn Association Aboriginal Corporation
Jobfind
John Villiers Trust
Kalan Enterprises (QLD)
Katherine Regional Aboriginal Health & Related Services
Keringke Arts
Kimberly Development Commission
Kimberley Land Council
Kimberly Regional Service Providers (WA)
Kowanyama Aboriginal Shire Council (QLD)
Kowanyama Land and Natural Resource Management Office (QLD)
Layhnapuy Aboriginal Corporation (NT)
Lirrwi Tourism
Lurujarri Trail and guided cultural tours
Mabunji Aboriginal Resource Centre
Madjulla Wilderness Centre
Marngarr Aboriginal Corporation (NT)
Miwatj Employment (NT)
Motor Trades Association NT
My Pathways
Ngaliwuru-Wuli Association Aboriginal Inc
Ngangatjatjara College
Ngurratjuta/Pmara Ntjarra Aboriginal Corporation (NT)
MG Corp (WA)
Ngaanyatjarra Council (WA)
Ninti One

NPY Women's Council
Numbulwah Homeland Resource Centre
Olkola Aboriginal Corporation (QLD)
ParsonsBrinkerhoff
Power & Water Corporation
QLD University of Technology
Road Tech
Regional Development Australia – FNQ and Torres Straits
Swinburne University
Stellar Consulting (WA)
Tangentyere Council
Thaa- Nguigarr Strathgordon Aboriginal Corporation RNTBC (QLD)
The Nature Conservancy
Tjuwanpa Outstation Resource Centre Aboriginal Corporation (NT)
Tourism Cape York
University of Melbourne-The Bower Studio
University of Sydney
Uptuyu Aboriginal Adventures
Ubuntu Developments (WA)
Water Research Australia
Waltja Tjukanku Palyapai
Warddeken Land Management Inc. & Kabulwarnamyo
Warnbi Aboriginal Corporation
Wuthathi Aboriginal Corporation (QLD)
Yantjarrwu Resource Centre Aboriginal Corp
Yarrabah Aboriginal Shire Council (QLD)
Yilli Rreung Housing
Yintjingga Aboriginal Corporation (QLD)



NT Minister the Hon Peter Styles MLA with CAT Chairman Peter Renehan and CAT CEO Steve Rogers.

COMMUNITIES

NT

Akanta Outstation
 Ali Curung
 Alice Springs
 Alyuen
 Amoonguna
 Ampilatawatja
 Angurugu
 Areyonga
 Arlparra
 Atitjere
 Atnewengerrpe
 Bulman
 Canteen Creek
 Docker River
 Dulcie Ranges
 Outstation
 Engawala
 Finke
 Gapuwiyak
 Garden Outstation
 Haasts Bluff
 Harts Range
 Imanpa
 Kings Canyon (Watarrka)
 King Valley Community
 Kintore
 Lajamanu
 Laynhapuy
 Laramba
 Lilla Outstation
 Mt Liebig
 Ntaria
 Nyirripi
 Old Station Outstation
 Panels Well Outstation
 Papunya
 Peppimenarti
 Red Sandhill Outstation

Santa Teresa
 Standley Chasm
 Tarntipi Homelands –
 Tiwi Islands
 Tennant Creek
 Ti Tree
 Titjikala
 Ulpanyali Outstation
 Ulupperte Outstation
 Urremerne Outstation
 Wadeye
 Walkabout Bore
 Outstation
 Wangarri Karri
 Outstation
 Wallace Rockhole
 Wanmarra Outstation
 West Waterhouse
 Outstation
 Williams Well Outstation
 Wilora
 Wutunugurra
 Yirrkala
 Yuendumu
 Yulara

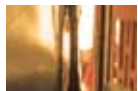
WA

4 Mile
 Balginjirr
 Bawoorrooga
 Bidanj Community –
 Winun Ngari Aboriginal
 Corporation
 Bow River
 Bililuna
 Broome
 Bow River
 Goolarabooloo
 Gumbanun
 Jarlmadangah
 Kiwirrkurra

Marra Worra Worra –
 Biridu
 Mingalkala
 Oongkalkada
 Yawuru
 Yirralalem

QLD

Cairns
 Coen
 Crosby
 Darrba
 Glengarland
 Killarney
 Old Dixie
 Oriners ranger base
 Port Stewart
 Siptons Flat
 Strathgordon
 Strathmay
 Yarrabah



Our focus



1. TECHNOLOGY INNOVATION AND APPLICATION
2. APPLIED PROJECT DESIGN & MANAGEMENT
3. COMMUNITY ENGAGEMENT, PLANNING AND FACILITATION
4. PLACE BASED TRAINING, SKILLS DEVELOPMENT AND CAPACITY BUILDING
5. ABORIGINAL AND TORRES STRAIT ISLANDER ENTERPRISE AND JOBS
6. COMMUNITY INFRASTRUCTURE

Capabilities

1. **COMMUNITY ENGAGEMENT**
Planning and facilitation
Resource development
Consultancy services
Respectful business relationships
2. **WATER SUPPLY**
Risk Management planning
Quality assessment
Technical advice & capacity building
3. **COMMUNITY INFRASTRUCTURE AND HOUSING**
Co-design
Building upgrades
Repairs and maintenance
Aboriginal construction teams
4. **TELECOMMUNICATIONS ACCESS**
Mobile phone access solutions
Internet advice and advocacy
Community phone design and maintenance
5. **ISOLATED & OFF GRID ENERGY**
Solar system design
Installation
Maintenance
Community energy planning
Energy efficiency and demand management
6. **ABORIGINAL EMPLOYMENT MODELS**
Enterprise based employment
Project based community employment
7. **CAT ENTERPRISE WORKSHOP**
Product design, fabrication and installation
Construction: Metal, concrete
Facilities maintenance and cleaning
8. **EXTENSIVE KNOWLEDGE AND UNDERSTANDING OF REMOTE REGIONS**
Remote community information (infrastructure & access)
Design and implementation of integrated physical and social asset assessment
9. **CORPORATE MANAGEMENT & GOVERNANCE**
Policies and procedures
Finance, HR, IT etc.
10. **ADVICE & CONSULTANCY**
Technical and engineering
Professional services
Governance and Corporate Services
11. **TRAINING**
Accredited courses
Custom design of training courses



Roland Dann fabricating the CAT CHIP Heater.

Technology innovation & application



Top: Imangara community members identifying their computer needs.
Above: Home Internet in use at Munglawurru.

HOME INTERNET PROJECT

Project manager: Andrew Crouch

Partners and funders: Swinburne University, CLC, ACCAN

Project description:

This year was the final reporting year for the four year Home Internet Project. Earlier phases had included a baseline study, provision of computers in 20 small community households, and training and support for community residents. CAT was involved in all phases of the project, and was specifically responsible for the implementation, training and support. The primary objectives of the project were to:

- » Examine the use of home internet in remote communities, and compare this with other regimes of access, including communal facilities and mobile devices.
- » Generate knowledge on the challenges involved in the Government meeting its NBN policy goals in the remote Indigenous community context.

Key outcomes:

- » Where mobile coverage is available, this is a far more popular means of Internet access than satellite or other fixed connections.
- » Women had a higher profile and level of participation in the project, suggesting that the home computing model might facilitate greater ICT usage by women and children.
- » ICT arrangements need to be flexible to respond to the mobility of residents.
- » Obtaining and sustaining a post-paid satellite Internet account is difficult for remote community residents.
- » Administratively simpler options need to be available through the NBN.
- » CAT has published both the baseline report and a comprehensive final technical report on its website.

WOODYCUPALDIYA AND EMU POINT POWER SYSTEM REPORT

Project team: Michael Tuckwell, Murray Schneider, Ben Smede

Partners and funders: Northern Territory Government & Yantjarrwu Resource Centre Aboriginal Corp.

Project description:

The Top End CAT office in conjunction with CAT Projects were successful in securing an agreement with the NT Department of Community Services and Yantjarrwu to undertake an in depth study of the current state of operation of the existing Emu Point hybrid/diesel solar system.

Gather measured data from both Woodycupaldiya and Emu Point that would inform a Solar/Diesel Hybrid system design for Woodycupaldiya; and an operational analysis of the existing solar/diesel hybrid system for Emu Point.

Key outcomes:

- » Recommendations on a design for a hybrid solar/diesel system for the community of Woodycupaldiya.
- » Identification of potential efficiencies and areas of improvement in regard to the operation of the existing stand-alone solar/diesel hybrid power system at Emu Point.
- » Recommendations for selection of an appropriate tariff to meet the ongoing operation and maintenance costs of the system.

WASTE MANAGEMENT APP

Project team: Andrew Crouch, Sonja Peter

Partners and funders: NTEPA, Central Desert, Macdonnell & Barkly Regional Councils, Spinifex Valley software developer

Project description:

Development of an iPad based app using visual prompts to facilitate preparation of online reports by landfill management staff, replacing tedious paper-based reporting. The app enables Aboriginal staff with limited English language literacy to complete the reports, with minimal training and few errors. Reports are uploaded over the mobile network for subsequent review by supervisory staff.

The project brief was that the app needed to be easy to use, visual and be able to generate reports that would be readily accessible remotely.

Key outcomes:

- » The development succeeded through effective working relationships between CAT as project manager/design architect and Central Desert Regional Council waste management staff as users/field testers for the app, as well as Spinifex Valley as the software developer.
- » An iPad platform was chosen because of its ready availability, appropriate size and user-friendliness.
- » Development time was minimised by using photographs of the target landfill features as the visual prompts throughout, rather than relying on intensive graphic design input.
- » Successful field testing at Yuendumu by the landfill management team, many of whom are not native English speakers.



Regional Council field staff from Yuendumu testing the Waste Management App.



Beebox training in Arnhem Land.

MANYMAK ENERGY EFFICIENCY PROJECT (East Arnhem Land Low Income Energy Efficiency Project)

Project team: Sal Ward, Marteena McKenzie, Leonie Molloy, Elle Morrell, Richard Singh, Endra Che-Kahn, Lorrae McArthur

Funder: Commonwealth Department of Industry and Science

Consortium partners: Power and Water Corporation; Charles Darwin University; East Arnhem Regional Council; NTG Department of Housing

Project description:

The development and roll-out of a custom designed energy use interface ('BEEBox') has been central to the success of the Manyamak Energy Efficiency Project.

Most Indigenous communities in the NT pay for their power with pre-payment meters, and do not receive power bills. As a way of assisting residents with energy demand, the project team worked with CAT Projects to develop a user interface that provides real-time feedback on energy consumption and cost to help manage energy expenditure.

Commercially available monitors are not suitable for use in remote Indigenous communities. With support from the Northern Territory Government, CAT designed an appropriate model that would stand up to the rigours of remoteness and would be useful to residents.

Key outcomes:

- » The BEEBox (Bushlight Energy Efficiency Box) energy use interface is an innovative technology developed to meet a specific need in Indigenous communities.
- » The BEEBox is a robust, visual user interface that conveys a range of energy use information to householders. It has a tailored 'energy budget' for each household, and displays rate of current energy use and dollars spent. It provides crucial feedback on household energy use and helps residents make informed choices about the type of appliances to use and for how long.
- » More than 150 BEEBoxes have been installed throughout East Arnhem Land, with a target of 250 to be installed by the end of 2015. Residents have provided positive feedback on the use of these devices, and they have resulted in improvements in understanding and management of energy use throughout the focus communities.

REMOTE INDIGENOUS ENERGY PROGRAM – BOW RIVER SOLAR SYSTEM

Project team: Murray Schneider, Brad Riley, Matt Combe, Josh Backwell

Funder: Department of Prime Minister and Cabinet, Remote Indigenous Energy Program

Project description: Community consultation, design and installation of a Bushlight solar system for the community of Bow River – W.A.

In early 2014, The Centre for Appropriate Technology was awarded the contract to develop the System Design Requirements for the new Renewable Energy System at Bow River in Western Australia.

Based on extensive experience in community engagement and Homeland solar system design, CAT developed a cost effective, long term and reliable power solution for Bow River, as determined by the requirements of the residents through the CAT Community Energy Planning process (CEP).

CAT was also awarded the contract to project manage the installation of the new Bow River solar system.

Key outcomes:

- » Commissioning of the system occurred in September 2014. The community was subsequently trained in the operation of the system, how to troubleshoot technical issues and perform basic system maintenance tasks. CAT also delivered extensive energy efficiency training with all community members.
- » Each house received a pre-negotiated 'Energy Budget', that provided sufficient energy for essentials such as lights, refrigeration and medical equipment and also for discretionary power use such as, fans, TV, washing machine and other electrical appliances.
- » Each household was given instruction on how to use and understand their household EMU (Energy Management Unit) and was provided resources and knowledge to make informed decisions on energy usage and energy efficiency appropriate to a stand-alone solar system design with back up generator.
- » CAT remained in contact with the community via the phone and through remote monitoring of the system for the six months leading up to our first maintenance visit in March 2015. Through these contacts, CAT determined that the system had sustained a significant array failure after being struck by lightning in late February. These issues were resolved at a low cost to the satisfaction of the community in early March.
- » CAT also provided follow up training during the March maintenance visit to each household. Individual household energy budgets through the EMUs were adjusted based on both anecdotal and technical data.



FINKE GORGE NATIONAL PARK MOBILE PHONE HOTSPOTS

Project manager: Andrew Crouch

Partners and funders:

Old Station and Red Sandhill outstation communities, CLC.

Project description:

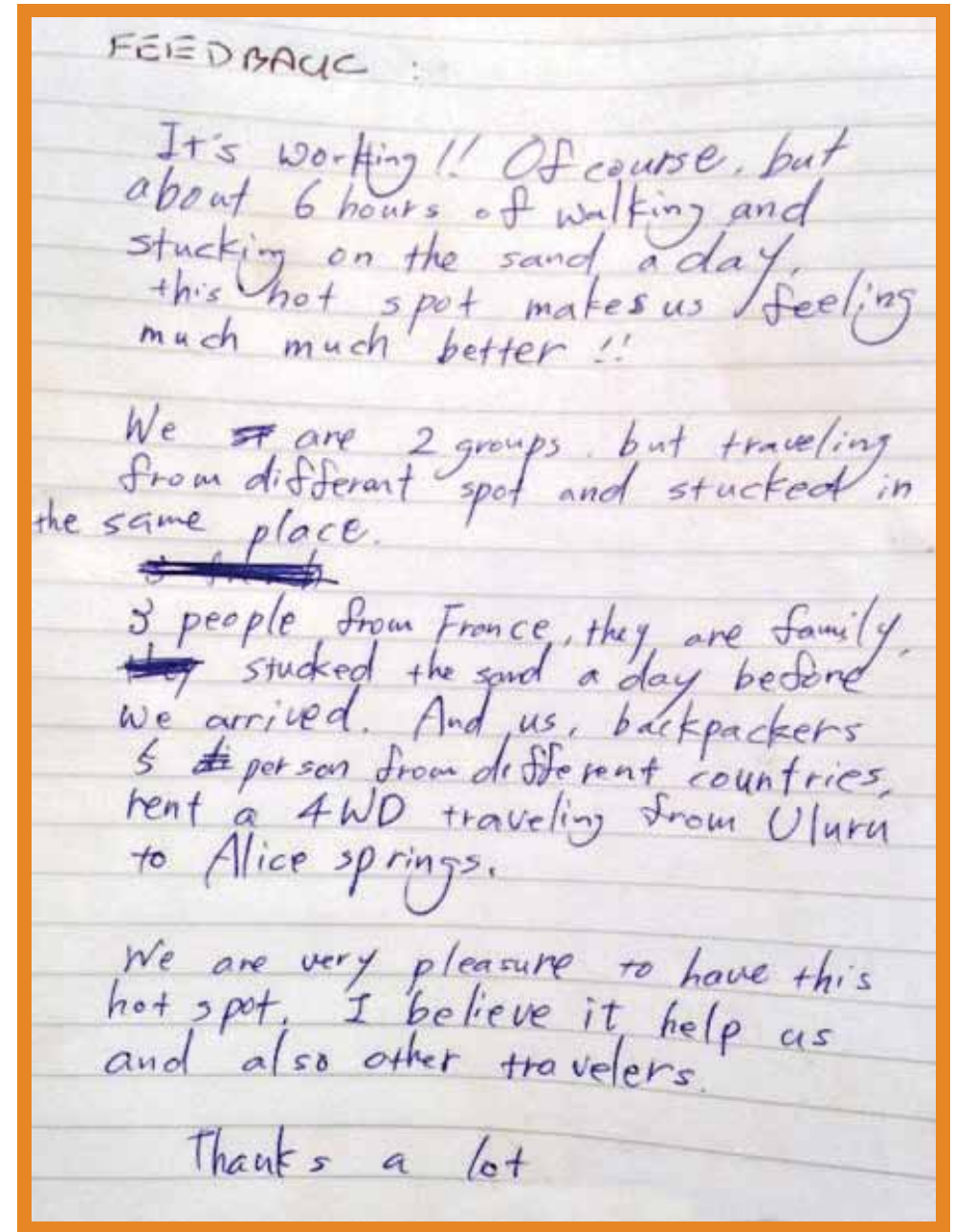
The HotSpot addresses the need for mobile coverage in remote locations such as communities and roads where coverage for hand-held mobile devices is not available. The Hotspot design exemplifies robust appropriate technology, since it requires no power supply, has no moving parts, and is easy to use.

The Old Station brief was unique, in that the residents sought a 'help phone' that would provide tourists travelling on the nearby Boggy Hole 4WD track with a means of obtaining assistance to extricate their bogged vehicles, rather than coming to the outstation which is ill-equipped to provide help. The Hotspot solution was fully funded through the residents' rent money program with facilitation by the CLC.

From these beginnings, CAT is now moving toward a larger scale program, and further refinement of the Hotspot technology.

Key outcomes:

- » CAT was contracted to provide Hotspots to the Old Station and Red Sandhill outstations, with installation early in 2015.
- » CAT provided the full implementation service including site surveying and signage, and the fabrication and installation work was carried out by CAT Enterprise workshop staff.
- » Feedback to-date received from tourists using the Hotspot has been extremely positive.
- » The Hotspot is patented. Aust. patent app no. 2015202582.



Note deposited in the HotSpot feedback box at Old Station.



Applied project design & management



WATARRKA TRADITIONAL OWNERS MEETING PLACE AND ABLUTION BLOCK

Project manager: Yash Srivastava

Partner and funder: CLC Community
Development Unit

Project description:

The project delivered a meeting place for a geographically dispersed group of Traditional Owners (TOs) to meet and make joint decisions regularly near the Kings Canyon car park. The meeting place provides shelter, toilets, showers and cooking facilities for the Traditional Owners to camp and collectively make decisions. The toilet and shelter is equipped with solar lights.

Key outcomes:

- » CAT worked closely and collaboratively with TOs over 12 months to arrive at a design that was within budget and acceptable to the TOs and NT Department of Parks and Wildlife.
- » This is a milestone project where NT Department of Parks and Wildlife have leased land back to the TOs and permitted building a structure on that land.
- » CAT successfully negotiated stringent approvals and processes imposed by NT Department of Parks and Wildlife, Department of Health.
- » The project was completed on time and within budget.



Watarrka Meeting Place, NT.



WALKABOUT BORE SHED & PIT TOILET

Project manager: Yash Srivastava

Partners and funders: CLC – Community Development Unit

Project description:

The Traditional Owners chose to build a shelter and pit toilet to conduct community meetings. They also requested the inclusion of a pit toilet adjacent to the shelter to minimise disruptions to meetings. The TOs were keen that local residents be involved and employed in the construction of these facilities.

Key outcomes:

- » CAT jointly designed the shelter with the TOs.
- » CAT needed to outsource the construction but ensured that the builder and his crew trained the local workers in laying paving.
- » CAT provided tiles to the workers to practice and build a narrow path connecting the shelter with the pit toilet. They also received wages for working at the site.

AREYONGA (UTJU) CHURCH EXTENSION & UPGRADE

Project manager: Yash Srivastava

Partners and funders: CLC – Community Development Unit

Project description:

The Traditional Owners chose to utilise their rent money to extend their very old and frail church in a manner that was sensitive to the heritage value of the church. They also wished to renovate the inside of the church with new flooring and air conditioning.

Key outcomes:

- » CAT developed a sensitive design with the community in deference to the TOs wishes to retain visual integrity and yet widen the church to enable large congregations.
- » The community have expressed great satisfaction with the completed works and pride in their ‘new’ church.
- » The success of the church renovations has spread far through Aboriginal networks and CAT has been engaged by communities to discuss renovations on their churches based on the Areyonga model.



HOMELANDS ASSETS AND ACCESS REVIEW

Project manager: Robyn Grey-Gardner

Partners and funders: Department of Prime Minister and Cabinet and the Northern Territory Government.

Project description:

The Review will provide detailed information on approximately 400 Homelands – 350 occupied Homelands, 24 minor communities and 25 unoccupied Homelands.

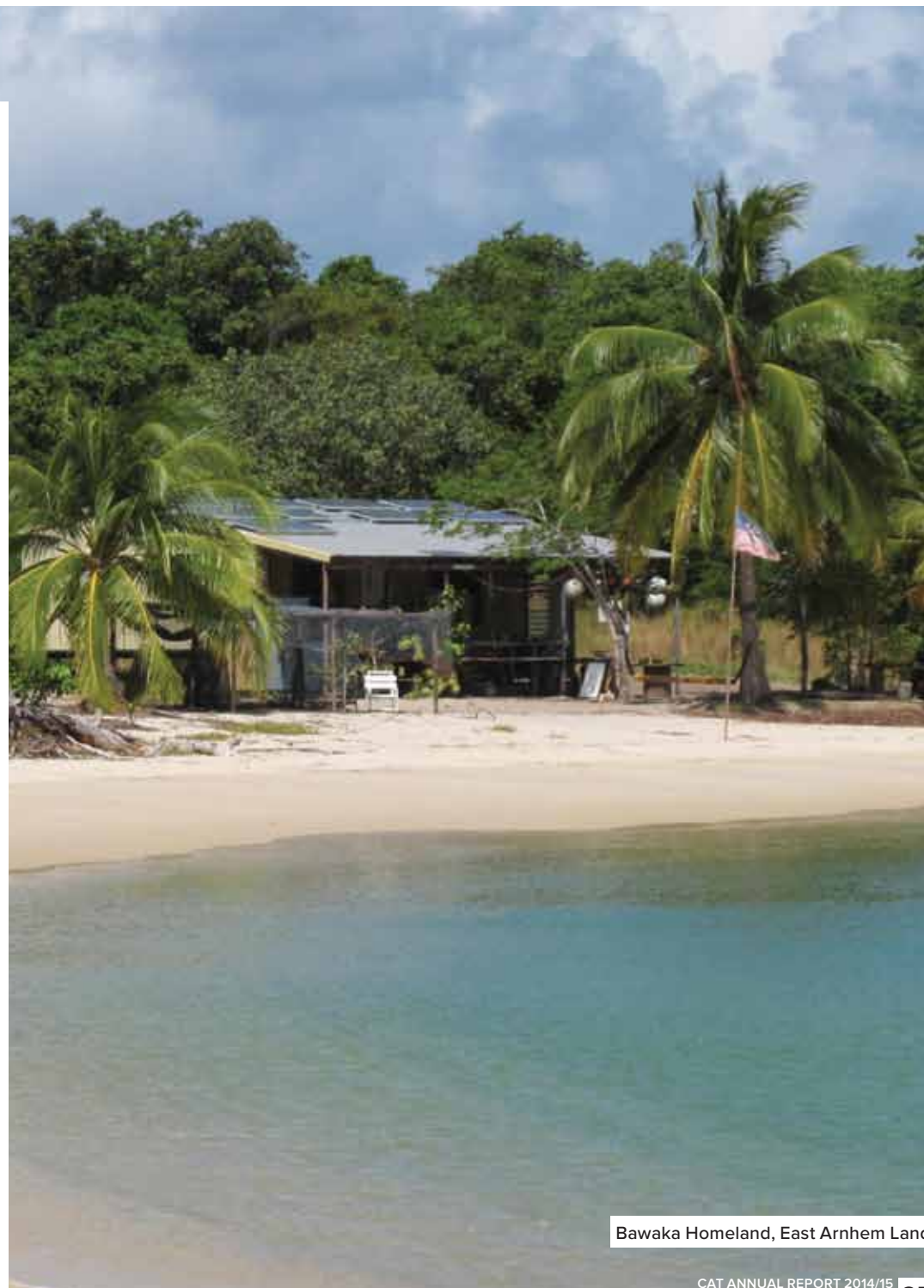
The NTG has provided CAT with the list of occupied homelands and minor communities. CAT has selected the unoccupied homelands based on recommendations from Central Land Council and recommendations from resource agencies. The primary data is being collected from a set of investigative community surveys and interviews with community residents and a survey of associated resource agencies. The Homeland community visits include a mixed method of both investigative surveys and in person community resident interviews. The primary data collected is mixed mode including both quantitative and qualitative data. The survey is a point in time snapshot which considers both physical and social dimensions. Physical dimensions are the infrastructure that provides essential and municipal services: water, sewerage, energy, waste management, telecommunications, roads and transport, housing, community buildings and environmental management. The social dimensions are the access to community services: population & occupancy, education, health, employment and enterprise and support networks.

The process for conducting the surveys requires the CAT staff to seek consent from the head tenant or spokesperson for each homeland prior to conducting the interview or inspecting the infrastructure.

CAT is applying a high level assessment of the functional suitability of each asset to each community which will allow a relative comparison between all of the Homelands to be achieved.

Key outcomes:

- » 396 Homelands have been surveyed and data about each of the following has been collected: water, sewerage, energy, waste management, telecommunications, roads and transport, housing, community buildings and environmental management, population & occupancy, education, health, employment & enterprise and support networks.
- » A CAT report is underway which describes the survey, analysis and findings of the Review. The report will describe the current status of access and assets in Homelands to inform governments about future investments.



Bawaka Homeland, East Arnhem Land.



Community engagement, planning & facilitation



OLKOLA SUSTAINABLE LIVELIHOODS PROJECT

Project manager: Andre Grant

Partners and funders: Olkola Aboriginal Corporation, Department of Aboriginal and Torres Strait Islander Partnerships – QLD, John Villiers Trust, Indigenous Land Corporation.

Project description: CAT prepared detailed Infrastructure assessments of a number of former cattle stations due for transfer of ownership back to Traditional Owners – the Olkola People. The technical assessments identified critical issues needing to be resolved in order for the Olkola Aboriginal Corporation (OAC) to safely and effectively use and be able to benefit from the infrastructure post hand back. The assessments were combined with participatory planning workshops around livelihoods and asset management planning pre hand back of traditional lands to the Olkola People. The project formally completed in December 2014 with the Olkola hand back ceremony, however importantly CAT continues to provide technical support for infrastructure and planning issues to ensure strong outcomes. This ongoing support has been possible due to funding provided by the John Villiers Trust.

Key outcomes:

- » The project worked closely with the Olkola People and the State government to assist in positioning the OAC to economically and socially benefit from the return of their land.
- » Significant health, safety and operational issues were resolved or funding provided by the State prior to hand back of the land.
- » CAT assisted Olkola to broker new relationships and partners to help realise their vision laid out in planning.
- » CAT assisted the Olkola to secure significant additional funding for infrastructure from the Indigenous Land Corporation.
- » OAC has established several business activities and has valuable income streams emerging from Carbon, Tourism and conservation activities creating many jobs on country for their people.

KINGS CANYON OUTSTATIONS: COMMUNITY PLANNING

Project team: Andrew Crouch, Sonja Peter

Partners and funders: Aboriginal Benefits Account

Project description: CAT facilitated community planning with the residents of four Kings Canyon / Watarrka communities: Akanta, Lilla, Ulpanyali and Wanmarra. Activities encompassed practical plans for managing their water, buildings, power, telecommunications and other community infrastructure as well as their future enterprise aspirations. The project also funded minor infrastructure upgrades.

Key outcomes:

Community and infrastructure plans were completed at the four communities.

- » At Wanmarra, the residents embarked on an ambitious project to offer a unique cultural tourism experience to Watarrka visitors. The project funded provision of a visitor shelter, which has become the centrepiece of the entrance area. CAT also provided planning advice, and developed a logo for the 'Karrke' business enterprise, which has successfully operated from the start of the 2015 tourist season.
- » At Lilla, a large but derelict wiltja built from bush materials had been used as a location where the residents could tell tourists about their culture and traditions. The project funded the wiltja's renovation using locally sourced timbers sympathetic to the original design.
- » At Akanta, road signs to the tourist campground had been damaged and lost. The project funded new signage, which was installed by the residents.
- » At Ulpanyali, the established Art Centre was too hot to work in during the hot summer months. The project funded a shaded outdoor annex, so that Ulpanyali women could continue to work throughout the year.



Peter Abbott painting the visitor shelter.



Energy Efficiency workers, East Arnhem Land.

MANYMAK ENERGY EFFICIENCY PROJECT

(East Arnhem Land Low Income Energy Efficiency Project)

Project manager: Sal Ward, Marteena McKenzie, Leonie Molloy, Elle Morrell, Richard Singh.

Funders: Commonwealth Department of Industry and Science

Consortium partners: Power and Water Corporation, Charles Darwin University, East Arnhem Regional Council, NTG Department of Housing

Project description:

This project supports remote community members to make informed choices about energy use and energy efficiency in their homes. It works with households in Galiwinku, Gapuwiyak, Milingimbi, Yirrkala, Gunyangara and Ramingining.

There are three full time CAT community engagement officers based in Darwin, supporting and training teams of Yolngu Energy Efficiency Workers (YEEWs) to undertake the project. YEEWs deliver energy efficiency education and coordinate technology retrofits to more than 400 households across the region. The project is funded through the Australian Government's Low Income Energy Efficiency Program (LIEEP).

Key outcomes:

- » 93 Yolngu Energy Efficiency Workers received four weeks training in energy efficiency and job-readiness skills (delivered in local language).
- » 72 Yolngu Energy Efficiency Workers regularly employed in the project across the six participating communities in East Arnhem Land.
- » More than 380 individual households approached and participating in the energy efficiency education process, including participation rates exceeding 90 percent in some communities.
- » Specialist energy education resources developed and used in household training, targeted to people with literacy and numeracy challenges and for whom English is not a first language.

LIVE AND THRIVE ON COUNTRY PROGRAM

Project manager: Andre Grant

Partner and funder: John Villiers Trust

Project description:

The Program was developed by the CAT QLD office to assist Indigenous groups to Live (develop robust appropriate infrastructure) and Thrive (develop sustainable livelihoods) on Country (on traditional homelands). Through this program, CAT provides technical support and advice and discrete project management as well as planning facilitation with a view to assisting groups to leverage funding and investment for better economic and social outcomes from the ownership of traditional land.

The program has demonstrated CAT is in a unique position to provide catalytic technical support to these groups that creates better remote infrastructure as well as economic and social outcomes.

Key outcomes:

- » The program completed a two year development and pilot phase as of June 2015 and has been refunded for a further two years based on its success.
- » The program has leveraged additional funds for the Indigenous groups we have provided support to. Leverage has been in the region of 4:1 on the investment by the John Villiers Trust.
- » The program has further highlighted the inseparable link between appropriate technology (robust remote infrastructure) and sustainable livelihood outcomes (economic activity on country).
- » Thaa Nguigarr Strathgordon Aboriginal corporation extensive upgrades to water supply.
- » Olkola Aboriginal Corporation – planning and extensive infrastructure improvements across 5 cattle stations pre and post handback.
- » Yintjingga Aboriginal Corporation: Probono engineering secured for Port Stewart Water supply.
- » Kowanyama Land Office: funding and volunteers secured for remote solar power development.

Place-based skills development & capacity building



CERTIFICATE I AND CERTIFICATE II AUTOMOTIVE VOCATIONAL PREPARATION

Trainer: Devender Bohra

Partners and funders: Motor Trades Association NT, NT Correctional Services

Project description:

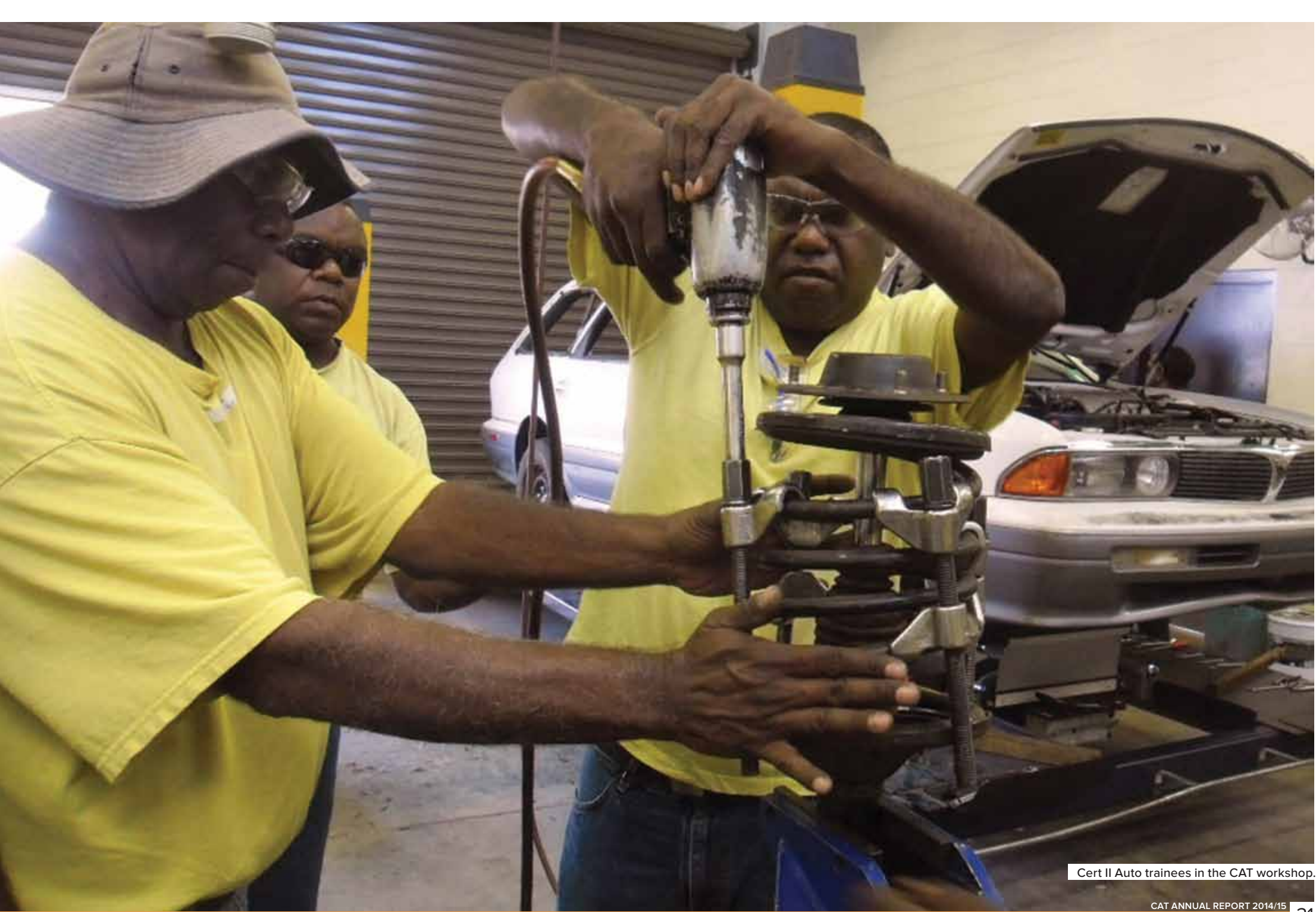
CAT delivered Certificate I and Certificate II Automotive Vocational Preparation training in partnership with the Motor Trades Association NT to provide accredited skills to trainees from NT Correctional services based in Alice Springs. The training was delivered in our automotive workshops on the Desert Peoples Centre campus.

This program enabled CAT to work with the Motor Trades Association (MTA) and NT Correctional Services to deliver a program that was designed to enable the learners to gain valuable skills that would enable them to look for employment opportunities on exiting the prison system.

The Alice Springs program was part of an NT-wide initiative where NT Correctional Services entered into an Indigenous Employment Program with the Department of Prime Minister & Cabinet to deliver 150 training and employment outcomes for prisoners from the Darwin and Alice Springs Correctional Facilities. The MTA Automotive program provided not only training but mentoring and support services to achieve more successful outcomes for the participants.

Key outcomes:

- » A total of twelve learners gained units of competency in the Certificate I and ten learners gained units of competency in the Certificate II Automotive Vocational Preparation with four learners achieving full Certificate II qualifications.
- » CAT and its partners nominated as a finalist in the NT Training Awards in the Industry Collaboration category.



Cert II Auto trainees in the CAT workshop.



Some of the work crew at House 10 in Arlparra.

UTOPIA HOMELANDS PROJECT

Project manager: Robyn Grey-Gardner

Partners and funders: Department of Prime Minister and Cabinet in a partnership with Urupuntja Aboriginal Corporation and Barkly Regional Council.

Project description:

The Utopia Homelands Project was completed on 30 August 2014. An extension to the project was granted to allow savings made in the delivery of the project to be directed toward an additional project that would be of community benefit. The Urupuntja Aboriginal Corporation nominated the upgrade of their property, House 10 at Arlparra to be refurbished.

Key outcomes:

- » House 10 at Arlparra was completely refurbished to allow Urupuntja Aboriginal Corporation to use a functional building for community purposes.
- » All work on House 10 was completed by Aboriginal people consisting of four Aboriginal CAT mentors and a work crew of seven local Aboriginal workers.

ESSENTIAL UPSKILLING FOR REGIONAL COUNCIL STAFF

Project team: Nick Raymond/Amanda Connor

Partners and funders: Central Desert Regional Council, MacDonnell Regional Council, Barkly Regional Council including stations in Barkly region, Canteen Creek, PowerWater Corporation and Department of Business.

Project description: PowerWater Corporation (PWC) contract external providers to maintain and monitor PWC assets across remote Central Australia. PWC have made it a requirement that 'contracted' Essential Service Officer's (ESO's) maintaining PWC assets hold as a minimum requirement the Certificate II in Remote Area Essential Services. The Centre for Appropriate Technology has partnered up with MacDonnell, Central Desert and Barkly Regional Councils to upskill and provide job specific qualifications to Council Essential Service Officers through the delivery of the Certificate II in Remote Area Essential Services.

Key outcomes:

The course was designed to meet the needs of staff working as Essential Service Officers with powerhouse duties and water duties.

- » Training was delivered in a mixed mode, through workbooks, work experience and onsite assessments.
- » Considerable skills delivered as well as meeting the requirements of PowerWater Corporation and presenting a pathway to further employment and training opportunities.
- » The course was delivered in the following communities: Santa Teresa, Finke, Imanpa, Docker River, Amoonguna, Ti Tree, Canteen Creek, Engawala, Haasts Bluff, Mt Liebig, Papunya, Areyonga, Ntaria, Wallace Rockhole, Alparra and Willowra.

ENERGY EFFICIENCY WORKERS IN EAST ARNHAM LAND MANYMAK ENERGY EFFICIENCY PROJECT

(East Arnhem Land Low Income Energy Efficiency Project)

Project team: Sal Ward, Marteena McKenzie, Leonie Molloy, Elle Morrell, Richard Singh, Endra Che-Kahn, Lorrae McArthur.

Partners and funders: Commonwealth Department of Industry and Science
Consortium Partners: Centre for Appropriate Technology, Power and Water Corporation; Charles Darwin University; East Arnhem Regional Council; NTG Department of Housing.

Project description: Local training and employment are at the heart of the delivery of this innovative energy efficiency project. Through partnership with the local East Arnhem Council, Yolngu people have been employed across all six communities to undertake householder energy efficiency education and to help coordinate the roll-out of technology refits. As the project comes to a close, Indigenous 'co-researchers' have also been employed to assist Charles Darwin University with the evaluation of the project.

Key outcomes:

- » In order to equip employees with necessary knowledge and skills, the project engaged ARDS (Aboriginal Resource and Development Services) to deliver training to project staff across six communities. Training commenced in four week blocks, and covered all aspects of power and water operations and use. As well as theoretical content about household energy use and appliances, it also included practical work skills such as how to conduct appliance audits and deliver energy education. Power and Water field staff also hosted visits to the power stations and community water infrastructure, to help convey the full story of power and water production in communities.
- » All training is delivered in Yolngu Matha, the local language group of East Arnhem Land, by experienced ARDS trainers. Each training session began by drawing up a schematic of the relationships between participants and trainers— their name, mälk (skin name) and gurruṯu (kin term). This helps set the scene for proper, culturally acceptable interactions throughout the training and work period.
- » The training has now been delivered to more than 90 Yolngu people throughout the participating communities in East Arnhem Land. More than 70 have gone on to regular employment with the project.



Phil Coombes, Roland Dann and Shaun Cummings constructing the abluition block.

WILLIAMS WELL OUTSTATION UPGRADE

Project team: Peter Gleeson, Yash Srivastava

Partners and funders: CLC, CAT

Project description:

The Traditional Owners approached the CLC Community Development Unit to utilise their funds to upgrade facilities at Williams Well Outstation, including reinstating the water supply, installing an abluition facility and minor house repairs. Once complete the TO's would be able to return and live at their Outstation. The TO's wanted CAT to do the works as they believed CAT would support the employment of the TO's in undertaking the repairs and maintenance works.

Key outcomes:

- » Five TO's and family members were employed by CAT on the project and were supported by CAT Enterprise staff.
- » CAT Enterprise fabricated and installed a new abluition facility complete with pit toilets and a CAT Chip Heater
- » Three dwellings were cleaned and repainted, new windows installed and verandah areas were enclosed to incorporate outdoor kitchen facilities.
- » Water supply was reinstated and a culvert improved to ensure access to the Outstation during times of flood.

Aboriginal & Torres Strait Islander enterprise & jobs



Phil Coombe and Peter Gleeson with Judith Kueschner who commissioned a motorcycle sculpture.

THE CAT ENTERPRISE

Project managers: Metta Young, Peter Gleeson

Partners and funders: NT Department of Business, Centre for Appropriate Technology.

Project description:

The CAT Enterprise workshop was established in 2012 as a fabrication and construction social enterprise to provide employment and skills development for Aboriginal people in central Australia. Aligned with the workshop are broader business activities focused on property management services including cleaning, with a core commitment to provide employment opportunities for Aboriginal people.

During 2014 the NT Department of Business provided funding to support further development of the CAT Enterprise and implement systems and processes to build the business's financial viability and consolidate employment pathways.

The CAT Enterprise specialises in the fabrication of CAT products, including our latest generation of appropriate technology – the CAT Mobile Phone Hotspot – as well as undertaking construction work (ablution blocks, shelters, minor infrastructure upgrades) on site in communities. Property services incorporate the management of facilities across the Desert Peoples Centre and the provision of cleaning services to CAT's facilities on the Desert Knowledge Precinct and at Heath Road.

Key outcomes:

- » Employment for 20 Aboriginal people provided through CAT Enterprise initiatives
- » Business modelling incorporating strategies for business diversification, product development and market penetration completed and implemented
- » Workforce development plan completed and implemented including individual training plans for Aboriginal staff.
- » 49 contracts secured during the 2014–2015 year including: CAT Digging Sticks, CAT Chip Heaters, outside benches and seating, ablution blocks, safety rails, cattle grids, CAT Mobile Phone Hotspots, CAT Wicking Beds, CAT Drum Ovens and on site construction works.

LAYNHAPUY AND MARNGARR HOMELANDS SUSTAINABLE LIVING PROJECT (HSLP)

Project manager: Robyn Grey-Gardner

Partners and funders: Department of Prime Minister and Cabinet in a partnership with Northern Territory Government, Laynhapuy Homelands Aboriginal Corporation and Marn Garr Resource Aboriginal Corporation Project description.

The HSLP included Fix and Make Safe (FMS) conducted in 167 houses in 32 Homelands from March to June 2014. The project was extended to June 2015 to enable additional housing works, scoped through engagement with residents and funded under the Project, to be completed in the Gapuwiyak region homelands between July and December 2014. The delivery of works was alongside the delivery of the Northern Territory Government's Homelands Extra Allowance (HEA) for house improvements.

A project evaluation was conducted during February and March 2014.

Key outcomes:

- » White card training was provided to 94 Yolngu homeland residents.
- » Yolngu worked 15,263 hours mainly on their homelands fixing their houses.
- » Fix and Make Safe was conducted in 167 houses in 32 Homelands
- » Additional housing works, scoped through engagement with residents, were completed in the Gapuwiyak region homelands between July and December 2014.
- » A project evaluation to distil lessons learnt during the project was completed. Key concepts and the project model was described as a project design foundation for future investments.
- » The cost to employ a Yolngu trade assistant for 1 hour was calculated as \$108 – the salary for a Yolngu worker is approximately 20 percent of the total hourly cost to employ local trade assistants on a housing project similar to HSLP.



Trainees at Gumatj Aboriginal Corporation with the finished drum oven kits supplied by CAT.

Communications

CAT'S COMMUNICATION ACTIVITIES SUPPORT EFFECTIVE COMMUNITY ENGAGEMENT AND KNOWLEDGE DISSEMINATION. THEY ALSO PROVIDE A SOURCE OF INDEPENDENT TECHNICAL ADVICE FOR ABORIGINAL AND TORRES STRAIT ISLANDER COMMUNITIES, ORGANISATIONS AS WELL AS SERVICE PROVIDERS.



CAT staff at NAIDOC week.

Key activities during the reporting period include:

Development and launch of the new CAT website.

Production and distribution of Our Place Magazine Number 47.

Feedback survey of subscribers to CAT's publications, which revealed a strong preference for hard copy publications (reflective of the limited download capacity available to Aboriginal organisations in remote Australia), and the usefulness of CAT's BUSH TECHS.

Production of engagement and information resources for various CAT projects including the Utopia, Laynhapuy Homelands Projects and the Ernest Giles Rd project.

Design and production of Corporate documents including the 2013/14 Annual report, the CAT Capability Statement and the Life Skills Camp Brochure.

Logo and other design work for communities and organisations working with CAT including the Karrke Aboriginal Cultural Tourism logo, Old Station and Red Sandhill Mobile Phone Hotspots signage, rebranding the Desert Knowledge Australia Solar Centre Logo and new signage for the Desert Peoples Centre.

Management of CAT's social media presence – Vimeo & FACEBOOK
Event management including the Desert Science Network Stand Up Science.

Event Rangelands Conference Alice Springs, NAIDOC week, CAT tours and information sessions.



Karrke Aboriginal Cultural Tourism logo

During 2014/15 the CAT website received 1,243,720 hits, had 44,053 unique visitors & our publications & resources were downloaded 88,133 times.

MEDIA

CAT MEDIA RELEASE 19 November 2015.
CAT Ltd appoints new Chief Executive Officer.

CAT MEDIA RELEASE 16 March 2015.
Alternative solutions for sustainable remote communities.

Joint MEDIA RELEASE (CAT Ltd & Central Land Council) 9 March 2015. Alice-designed appropriate technology helps community and tourists.

Joint MEDIA RELEASE (CAT Ltd, Central Desert, MacDonnell, Barkly Regional Councils and Northern Territory Environmental Protection Authority) 30 April 2015.

New Waste Management App supports the work of Regional Council staff.

ABC Alice Springs radio interview 28 November 2014, Centre for Appropriate technologies new CEO keen to consider future opportunities.

ABC Longreach radio interview 14 March 2015, CAT's mobile phone Hotspots.

ABC News 18 March 2015, High-tech emergency phones trialled in the Outback.

Alice Springs News May 17 2015, Tax money for bush. Don't ask how much ask how!

Imparja News May 19 2015, Alternative solutions for the bush.

Land Rights News March 13 2015, Alice Designed appropriate technology helps community and tourists.

MacDonnell Regional Council Newsletter April 2015, Mobiles can work in the bush The Conversation 17 March 2015, Aboriginal Lifestyles could fix the hole in the heart of Australia– Victoria Grieves.

The Grey Nomads News March 18 2014, Outback Hotspots could save bogged nomads.

CAT MEDIA RELEASE November 2014, BEEBox all a buzz in East Arnhem Homes, published on Power & Water website at www.powerwater.com.au

Joint MEDIA RELEASE October 2014, (CAT Ltd & PowerWater Corporation) Power and Water's Manyak project receives Tidy Town recognition, published on Power & Water website at www.powerwater.com.au

Joint MEDIA RELEASE September 2014, (CAT Ltd & PowerWater Corporation) Energy Efficiency LIEEPing ahead in Gove, published on Power & Water website at www.powerwater.com.au

Joint MEDIA RELEASE July 2014, (CAT Ltd & PowerWater Corporation) Manyak Champions Energy and Water Efficiency, published on Power & Water website at www.powerwater.com.au



Reports & publications



CAT REPORTS

Activity Performance Report, Technical Resource Grant, Department of Prime Minister and Cabinet, October 2014.

Enterprise Development & Sustainable Infrastructure – Ernest Giles Road / Kings Canyon Communities CAT Activity Performance Report, submitted to ABA, October & November 2014.

Final Report to NTEPA Waste Data Collection App Development submitted to NT Environmental Protection Authority, May 2015.

Final Report to the Indigenous Workforce Participation Initiatives Program, submitted to NT Department of Business, January 2015.

Guidelines for Meeting Energy & Telecommunications Requirements At Kings Canyon / Ernest Giles Road Communities, October 2014, submitted to Department of Prime Minister and Cabinet.

Interim Report, Indigenous Workforce Participation Initiatives Program, submitted to NT Department of Business July 2014.

Laynhapuy and Marngarr Homelands Sustainability Project Performance Report 4: 29 August 2014, submitted to Department of Prime Minister and Cabinet.

Laynhapuy and Marngarr Homelands Sustainability Project Performance Report 5: 31 December 2014, submitted to Department of Prime Minister and Cabinet.

Laynhapuy and Marngarr Homelands Sustainability Project Evaluation Report: 29 June 2015, submitted to Department of Prime Minister and Cabinet.

Manymak Energy Efficiency Project, Milestone Report 7, August 2014, submitted to NT Power & Water Corporation.

Manymak Energy Efficiency Project, Milestone Report 8, January 2015, submitted to NT Power & Water Corporation.

Manymak Energy Efficiency Project, Milestone Report 9, March 2015, submitted to NT Power & Water Corporation.

Manymak Energy Efficiency Project, Milestone Report 10, May 2015, submitted to NT Power & Water Corporation.

Manymak Energy Efficiency Project, Milestone Report 11, July 2015, submitted to NT Power & Water Corporation.

Major Project Report LIEEP, Manymak Energy Efficiency Project, August 2014, submitted to NT Power & Water Corporation.

Progress Report to the Indigenous Workforce Participation Initiatives Program, July 2014, Submitted to NT Department of Business.

TRG Homelands Infrastructure Assessment Progress Report, submitted to Department of Prime Minister and Cabinet, 14 January 2015.

TRG Activity Performance Report November 2014 – June 2015, submitted to Department of Prime Minister and Cabinet.

Utopia Homelands Project Milestone 6 report: 28 November 2014, submitted to Department of Prime Minister and Cabinet.

Utopia Homelands Project Final Report 18 July 2015, submitted to Department of Prime Minister and Cabinet.

Waste Application & Data Management Requirements Report submitted to NT Environmental Protection Authority, February 2015.

CAT PAPERS

Akanta Water Management Plan, July 2014, Stephen Purvis.

CAT Submission to the Senate Standing Committee on Community Affairs re the Aboriginal and Torres Strait Islander Amendment (A Stronger Land Account) Bill 2014, August 2014.

CAT Submission re Funding Growth in the NT Training Market, NT Department of Business, April 2015.

CAT Submission to the Senate Standing Committee on Community Affairs re the Creating Parity the Forrest Review Consultation, September 2014.

Extreme weather events: Should drinking water quality management systems adapt to changing risk profiles?

Stuart J. Khan, Daniel Deere, Frederic D.L. Leusch, Andrew Humpage, Madeleine Jenkins, David Cunliffe, ScienceDirect, 2015.

Home Internet for Remote Indigenous Communities Technical Report September 2014, Andrew Crouch, www.cat.org.au.

Home Internet for Remote Indigenous Communities – Monograph. Chapter 4 – Sustainability, Economics and Infrastructure (in press), Andrew Crouch.

Lilla Community Plan, July 2014, Andrew Crouch, Sonja Peter.

The CAT Enterprise Business Plan, October 2014.

The CAT Enterprise Workforce Development Plan, May 2015.

The Utopia Homelands Project – lessons from experience, Robyn Grey-Gardner and Metta Young, 18 July 2014, www.cat.org.au.

Ulpanyali Community Plan, July 2014, Andrew Crouch, Sonja Peter.

Utopia Homelands Project BEEBox Evaluation Report, submitted to Department of Prime Minister and Cabinet, Jac Semmler and Rob Langen-Hann, June 2015.

VIP toilets in Utopia, Barkly Regional Council, Peter Young, July 2014, submitted to Barkly Regional Council.

Water Management Plans for 17 homelands in the Utopia region, by Peter Young and Clem Bresson, submitted to Department of Prime Minister and Cabinet, Barkly Regional Council, Urapuntja Aboriginal Corporation and Northern Territory Government, 18 July 2014.

CAT RESOURCES

CAT Capability Statement, August 2014.

Home Internet for Remote Indigenous Communities Newsletter July 2014.

Laynhapuy and Marngarr Homelands Sustainability Project 12 minute video: 31 July 2014, submitted to Department of Prime Minister and Cabinet, Laynhapuy Homelands Aboriginal Corporation, Marngarr Resource Aboriginal Corporation, Northern Territory Government and published at www.cat.org.au.

Laynhapuy and Marngarr Homelands Sustainability Project 5 minute video: 31 July 2014, submitted to Department of Prime Minister and Cabinet, Laynhapuy Homelands Aboriginal Corporation, Marngarr Resource Aboriginal Corporation, Northern Territory Government and published at www.cat.org.au, shown at Garma Festival 2014.

Laynhapuy and Marngarr Homelands and Sustainable Living Project workers book, 31 December 2014 submitted to Department of Prime Minister and Cabinet, Miwatj Employment and Participation Ltd, Laynhapuy Homelands Aboriginal Corporation, Marngarr Resource Aboriginal Corporation, Northern Territory Government.

Manymak newsletter, May 2015, published on Power & Water website at www.powerwater.com.au.

Manymak Newsletter, June 2015,, published on Power & Water website at www.powerwater.com.au.

Manymak newsletter, August 2014, published on Power & Water website at www.powerwater.com.au.

Manymak newsletter, November 2014, published on Power & Water website at www.powerwater.com.au

MEP Newsletter Volume 1 Issue 1: CAT – Homelands Sustainable Living Project – learning on the job article for Miwatj Employment Participation Newsletter, July 2014.

Number 10 Arlparra Workers Book: 28 November 2014, submitted to Department of Prime Minister and Cabinet and Urapuntja Aboriginal Corporation, published at www.cat.org.au.

Our Place Number 47, March 2015.

Utopia Workers book: 18 July 2015, submitted to Department of Prime Minister and Cabinet and Urapuntja Aboriginal Corporation, published at www.cat.org.au.

‘YoIngu making informed choices about using power and water’ (brochure), October 2014, published on Power & Water website at www.powerwater.com.au.

Report from CAT Projects



2014/15 has been a good year for CAT Projects, although it has been the most challenging year for the organisation to date.

There is continued significant uncertainty within both the construction industry and the renewable industry as the changes in government priorities at both a Territory/State and Commonwealth level slow general investment. This reduction in investment, coupled with substantial reductions in expenditure in the mining sector are resulting in extreme competition within the market for provision of engineering services, and most explicitly project management services. This does not appear likely to change in the near term.

Fortunately however, CAT Projects strategy for expanding work internationally, as well as developing new opportunities domestically have resulted in CAT Projects being able to maintain its momentum.

By the end of the financial year CAT Projects had generated over a third of its revenue from international activities, including:

- » Working in Kenya for the Kenyan Tea Development Agency
- » Commencement of power system construction in Nepal
- » Detailed feasibility studies for islands in the Philippines
- » Further work commissioning power systems in the Solomon Islands based on earlier design work.
- » Designing water storage facilities in Nauru.
- » Commissioning power systems on 6 islands in the Cook Islands.
- » Drafting a renewable energy policy document for the Indonesian Government.

Concurrently with this, CAT Projects has been working on a range of domestic projects including:

- » Design and Development of a 4MWp PV system and energy master plan for Darwin Airport.
- » Managing the development of a 1.8MWp PV system at Yulara.
- » Commencing development and project management of a \$40M wind farm in South Australia.
- » Managing the knowledge sharing program for ARENA's Remote Australia Renewables program.
- » Design and manage the further expansion of Alice Springs Airports existing PV system along with substantial upgrades to the terminals air-conditioning system.
- » A variety of commercial due diligence work for Private Equity Investment firms.

The large scope of work, in substantially varying locations has been challenging to manage, however the strength and commitment of the team has ensured that we have continued to achieve good outcomes for our clients..

Left: Installation of a solar PV mini-grid underway in the village of Chyasmitar, Nepal, May 2015.



Solar system at Rakahanga, Cook Islands.

Board members profiles



Jenny Kroker

Jenny is an Eastern Arrernte woman. Jenny has a practical background in cross-cultural education and uses this to nurture the organisational culture at CAT. She has integrated Indigenous Knowledge into science curriculum in schools. She is a strong advocate for women in technology.



Peter Renehan

Peter Renehan was born and raised in Alice Springs. He has been CAT Chair since October 2010. He brings to CAT strong community engagement skills and practical hands-on abilities. Peter's leadership underpins the strength of the CAT Board and their focus on achieving positive outcomes for Aboriginal and Torres Strait Islander people.



Noel Hayes

Noel Hayes is a Kaytetye man from Ali Curung, central Australia. For ten years, he served as an ATSIC commissioner. He currently serves on the Barkly Shire Council in the NT. Noel has been involved in a leadership capacity for a range of social programs and community justice initiatives. He brings strong expertise in working with government.



Dr. Steve Rogers

Dr. Steve Rogers commenced as the CEO of CAT in January 2015. He has most recently been the Science and Industry leader at the Australian Institute of Marine Science in Perth. He has also been the CEO and Managing Director of two Co-operative Research Centre's and Principal Research Scientist with CSIRO Land and Water. He is an experienced company director with a strong vision for CAT as a national organisation delivering the technology innovation needed to stimulate economic development across remote Australia.



Brian Singleton

Brian Singleton is a Yirraganydji Rainforest Bama (People) whose people Ancestral Traditional Lands are from the Cairns region to Port Douglas. Brian works for the Great Barrier Reef Marine Park as an Indigenous Community Compliance Liaison Officer. He brings more than 15 years' experience in engaging Traditional Owners and Indigenous Communities in Land and Sea Management. Brian is passionate about providing training and knowledge exchange to communities and Traditional Owners to manage their own sea country.



Frank Curtis

A local Arrernte man, Frank Curtis served the people of central Australia for a period of twenty years in his role as an Aboriginal Community Police Officer, Frank is currently working at the Ali Curung Health Centre and is in the process of developing a Youth rehabilitation camp at Umbussa Amurra outstation. Frank enjoys working with young people to build up their self esteem and confidence. He strives to instill in these youth a vision that someday they will end up being leaders of their country. As a member of the CAT Board, Frank is passionate about finding ways for Aboriginal people to return to country and live on their homelands.



Brian Stacey

Brian Stacey is an anthropologist by training and worked in the Australian Public Service for more than 30 years in Indigenous Affairs. He started in Alice Springs as a graduate clerk for the former Department of Aboriginal Affairs in 1983 and worked with the Centre for Appropriate Technology in helping Aboriginal people to return to their country. Ultimately Brian became a senior officer including the State Manager in the Northern Territory and a Division head responsible for Land for Indigenous people. Brian has left the Public Service and now works as the Head of Policy in the Cape York Partnership in Cairns.



Heron Loban

Heron Loban was born on Thursday Island in the Torres Strait. Her family comes from Mabuia and Boigu islands. She studied Law /Arts at the University of Queensland. Working as a solicitor for traditional owners in native title claims gave Heron an opportunity to talk to and learn from Elders about our ways. A highlight of this work was representing the people of Mabuia in the Federal Court at the determination of native title. Heron also worked in a Cairns-based Indigenous consumer organisation, resulting in her election to the board of ACCAN, a national body, which has as its primary focus consumer and communications issues. Heron is passionate about people and equality of opportunity for all people.

CAT Board Members ensure good governance, financial integrity and organisational focus on our intended purpose.



CAT Board members with the US Ambassador to Australia, John Berry.

Financial report

The Board is pleased to present an abridged set of accounts of the Centre for Appropriate Technology and its controlled entity for the year ending 30 June 2015. The comparative period is for the 12 months to 30 June 2014. A set of audited accounts is available upon request. The accounts have been prepared to satisfy the requirements of the Corporations Act and have been audited by LBW & Partners. The financial summary is presented in two parts:

STATEMENT OF INCOME AND EXPENDITURE

2014/15 has seen the Centre for Appropriate Technology Ltd achieve a modest profit after two years of sizable losses which is the result of an on-going consolidation of the organisation's resources, in the face of uncertain revenues and lack of clarity relating to future government funding policy.

The reduction of grant funded income is due mainly to the completion of two significant homelands housing maintenance programs in Utopia and Laynhapuy homelands, for which the main expenditure occurred in 2013/14. The reduction in grant funding has changed the percentage of funding received from grant funded sources to 61% of CAT's total income from 72% in the 2013/14 financial year. The remaining income being received from self-generated sources.

	CONSOLIDATED		PARENT	
	2015 \$	2014 \$	2015 \$	2014 \$
INCOME				
Sales revenue	111,198	163,740	111,198	163,740
Other	11,044,568	16,379,120	9,132,553	15,323,898
TOTAL INCOME	11,155,766	16,542,860	9,243,751	15,487,638
EXPENDITURE				
Employee benefits expense	5,570,782	7,936,342	4,543,123	7,036,462
Depreciation and amortisation expenses	328,944	364,038	328,755	363,832
Communities infrastructure	5,553	485,136	0	391,323
Other expenses	4,880,636	8,409,551	3,985,575	8,500,973
Finance costs	0	0	0	0
Loss on Disposal of Fixed Assets	0	1,705	0	1,705
TOTAL EXPENDITURE	10,785,915	17,196,772	8,857,453	16,294,295
SURPLUS/(DEFICIT) FOR THE YEAR	369,851	(653,912)	386,298	(806,657)

BALANCE SHEET

The Balance Sheet details the end of year state of CAT's finances. It records what CAT owns as assets, its cash and investment position and the money owed to its creditors and debtors.

	CONSOLIDATED		PARENT	
	2015 \$	2014 \$	2015 \$	2014 \$
CURRENT ASSETS				
Cash, investments, receivables, other	6,354,445	7,181,919	5,648,409	6,789,750
NON CURRENT ASSETS				
Property, plant and equipment	10,424,418	10,681,234	10,524,428	10,781,055
Other assets	-	-	-	-
TOTAL ASSETS	16,778,863	17,863,153	16,172,838	17,570,805
CURRENT LIABILITIES				
Creditors, accruals, provisions	1,128,209	1,299,119	950,541	1,414,403
Other liabilities (incl unexpended grants)	1,284,682	2,599,843	1,284,681	2,593,506
NON CURRENT LIABILITIES				
Provision for long service leave	281,747	249,812	212,388	223,967
Loan	-	-	-	-
TOTAL LIABILITIES	2,694,638	4,148,774	2,447,610	4,231,875
NET ASSETS	14,084,225	13,714,379	13,725,228	13,338,930
EQUITY				
Accumulated funds	3,009,441	2,639,591	2,650,440	2,264,142
Reserves	11,074,788	11,074,788	11,074,788	11,074,788
TOTAL EQUITY	14,084,229	13,714,379	13,725,228	13,338,930



Notes to the financial statements



The consolidated financial statements cover Centre for Appropriate Technology Ltd and its controlled entity.

1. Summary of Significant Accounting Policies

Basis of Preparation

Although the company was incorporated on 1 January 2014, when the former Incorporated Association converted to a Company Limited by Guarantee, under the Northern Territory Associations Act section 62, the new entity is 'considered to be the same entity as the body corporate constituted by the incorporated association'. The accounts have been prepared as if the company existed prior to that date and the comparative figures of the Incorporated Association have been included in the Financial Statements.

The consolidated general purpose financial statements have been prepared in accordance with the requirements of the Australian Charities and Not-for-profits Commission Act 2012, Australian Accounting Standards and other authoritative pronouncements of the Australian Standards Board.

The company is a not-for-profit entity for financial reporting purposes under Australian Accounting Standards. Material accounting policies adopted in the preparation of these financial statements are presented below and have been consistently applied unless stated otherwise.

The financial statements, except for the cash flow information, have been prepared on an

accruals basis and are based on historical costs, modified, where applicable, by the measurement of fair value of selected non-current assets, financial assets and financial liabilities. The amounts presented in the financial statements have been rounded to the nearest dollar.

(a) Principles of Consolidation

The consolidated financial statements incorporate all the assets, liabilities and results of the parent and the controlled entity. Controlled entities are entities the parent controls. The parent controls an entity when it is exposed to, or has rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.

The assets, liabilities and results of the controlled entity are fully consolidated into the financial statements of the Group from the date on which control is obtained by the Group. The consolidation of a controlled entity is discontinued from the date that control ceases. Intercompany transactions, balances and unrealised gains or losses on transactions between group entities are fully eliminated on consolidation. Accounting policies of the controlled entity have been changed and adjustments made where necessary to ensure uniformity of the accounting policies adopted by the Group.

(b) Comparative Figures

Comparative figures have been adjusted to conform to changes in presentation for the current financial year.

(c) Revenue and Other Income

Revenue is measured at the fair value of the consideration received or receivable after taking into account any trade discounts and volume rebates allowed.

Interest revenue is recognised using the effective interest rate method, which for floating rate financial assets, is the rate inherent in the instrument.

Revenue from rendering of a service is recognised upon delivery of the service to a customer.

Revenue from grant funding is recognised once the right to this revenue has been established. If the right has not been established, this funding is deferred to future financial years.

Non-reciprocal grant revenue is recognised in profit or loss when the entity obtains control of the grant and it is probable that the economic benefits gained from the grant will flow to the entity and the amount of the grant can be measured reliably.

If conditions are attached to the grant which must be satisfied before it is eligible to receive the contribution, the recognition of the grant as revenue will be deferred until those conditions are satisfied.

When grant revenue is received whereby the entity incurs an obligation to deliver economic value directly back to the contributor, this

is considered a reciprocal transaction and the grant revenue is recognised in the state of financial position as a liability until the service has been delivered to the contributor, otherwise the grant is recognised as income on receipt.

Revenue from rental properties is recognised on a straight-line basis for leases with fixed rental increases. For all other leases, revenue is recognised when the Group has a right to receive the rent in accordance with the lease agreement. All revenue is stated net of the amount of goods and services tax (GST).

(d) Income Tax

The Company is exempt from paying income tax. The controlled entity is subject to income tax. The income tax expense (income) for the year comprises the current income tax expense (income) and deferred tax expense (income). Current income tax expense charged to profit or loss is the tax payable on taxable income. Current tax liabilities (assets) are measured at the amounts expected to be paid to (recovered from) the relevant tax authority.

(e) Cash and Cash Equivalents

Cash and cash equivalents include cash on hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less, and bank overdrafts. Bank overdrafts are shown within short-term borrowings in current liabilities in the Statement of Financial Position.

(f) Fair Value of Assets and Liabilities

The company measures some of its assets and liabilities at fair value on either a recurring or non-recurring basis, depending on the requirements of the applicable Accounting Standard.

Fair value is the price the company would receive to sell an asset or would have to pay to transfer a liability in an orderly (i.e. unforced) transaction between independent, knowledgeable and willing market participants at the measurement date.

As fair value is a market-based measure, the closest equivalent observable market pricing information is used to determine fair value. Adjustments to market values may be made having regard to the characteristics of the specific asset or liability. The fair values of assets and liabilities that are not traded in an active market are determined using one or more valuation techniques. These valuation techniques maximise, to the extent possible, the use of observable market data.

To the extent possible, market information is extracted from either the principal market for the asset or liability (i.e. the market with the greatest volume and level of activity for the asset or liability), or, in the absence of such a market, the most advantageous market available to the entity at the end of the reporting period (i.e. the market that maximises the receipts from the sale of the asset or minimises the payments made to transfer the liability, after taking into account transaction costs and transport costs).

For non-financial assets, the fair value measurement also takes into account a market participant's ability to use the asset in its highest and best use or to sell it to another market participant that would use the asset in its highest and best use.

The fair value of liabilities and the entity's own equity instruments (excluding those related to share-based payment arrangements) may be valued, where there is no observable market price in relation to the transfer of such financial instruments, by reference to observable market information where such instruments are held as assets. Where this information is not available, other valuation techniques are adopted and, where significant, are detailed in the respective note to the financial statements.

(g) Property, Plant and Equipment

Each class of property, plant and equipment is carried at cost or fair value as indicated, less, where applicable, any accumulated depreciation and impairment losses.

Freehold property

Freehold land and buildings are shown at their fair value based on periodic valuations by external independent valuers, less subsequent depreciation for buildings.

In periods when the freehold land and buildings are not subject to an independent valuation, the directors conduct a directors' valuation to ensure the carrying amount for the land and buildings is not materially different to fair value. Increases in the carrying amount arising

on revaluation of land and buildings are recognised in other comprehensive income and accumulated in the revaluation surplus in equity. Revaluation decreases that offset previous increases of the same class of assets shall be recognised in other comprehensive income under the heading of revaluation surplus. All other decreases are recognised in profit and loss.

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

Plant and Equipment

Plant and equipment are measured on the cost basis less depreciation and impairment losses.

The carrying amount of plant and equipment is reviewed annually by the directors to ensure it is not in excess of the recoverable amount from these assets. The recoverable amount is assessed on the basis of the expected net cash flows that will be received from the asset's employment and subsequent disposal.

Depreciation

The depreciable amount of all fixed assets excluding freehold land is depreciated on a straight-line basis over the asset's useful life commencing from the time the asset is held ready for use. Leasehold improvements are depreciated over the shorter of either the unexpired period of the lease or the estimated useful lives of the improvements.

The depreciation rates used for each class of depreciable assets are:

CLASS OF FIXED ASSET	DEPRECIATION RATE
Buildings	2.50%
Plant and Equipment	10%-50%
Motor Vehicles	10%-25%
Office Equipment	5%-33%
Computer Equipment	33%

An asset's carrying amount is written down immediately to its recoverable amount if the asset's carrying amount is greater than its estimated recoverable amount.

Gains and losses on disposals are determined by comparing proceeds with the carrying amount. These gains and losses are included in the income statement. When revalued assets are sold, amounts included in the revaluation surplus relating to that asset are transferred to retained earnings.

(h) Impairment of Assets

At the end of each reporting period, the Group reviews the carrying values of its tangible and intangible assets to determine whether there is any indication that those assets have been impaired. If such an indication exists, the recoverable amount of the assets, being the higher of the asset's fair value less costs to sell and value in use, is compared to the asset's carrying value. Any excess of the asset's carrying value over its recoverable amount is expensed to the income statement. Where it is not possible to estimate the recoverable amount of an individual asset, the

Company estimates the recoverable amount of the cash-generating unit to which the asset belongs.

(i) Trade and Other Receivables

Trade and other receivables debtors include amounts receivable from customers for goods sold in the ordinary course of business. Receivables expected to be collected within 12 months of the end of the reporting period are classified as current assets. All other receivables are classified as non-current assets.

Accounts receivable are initially recognised at fair value and subsequently measured at amortised cost using the effective interest method, less any provision for impairment.

(j) Employee Provisions

Short-term employee provisions

Provision is made for the Group's obligation for short-term employee benefits. Short-term employee benefits are benefits (other than termination benefits) that are expected to be settled wholly before 12 months after the end of the annual reporting period in which the employees render the related service, including wages and salaries. Short-term employee benefits are measured at the (undiscounted) amounts expected to be paid when the obligation is settled.

Long-term employee provisions

Provision is made for employees' long service leave and annual leave entitlements

not expected to be settled wholly within 12 months after the end of the annual reporting period in which the employees render the related service. Other long-term employee benefits are measured at the present value of the expected future payments to be made to employees. Expected future payments incorporate anticipated future wage and salary levels, durations of service and employee departures, and are discounted at rates determined by reference to market yields at the end of the reporting period on government bonds that have maturity dates that approximate the terms of the obligations. Upon the re-measurement of obligations for other long-term employee benefits, the net change in the obligation is recognised in profit or loss as a part of employee benefits expense.

The Group's obligations for long-term employee benefits are presented as non-current employee provisions in its statement of financial position, except where the company does not have an unconditional right to defer settlement for at least 12 months after the end of the reporting period, in which case the obligations are presented as current provisions.

(k) Provisions

Provisions are recognised when the Group has a legal or constructive obligation, as a result of past events, for which it is probable that an outflow of economic benefits will result and that outflow can be reliably measured. Provisions recognised represent the best

estimate of the amounts required to settle the obligation at the end of the reporting period.

(l) Goods and Services Tax (GST)

Revenues, expenses and assets are recognised net of the amount of GST, except where the amount of GST incurred is not recoverable from the Tax Office. In these circumstances the GST is recognised as part of the cost of acquisition of the asset or as part of an item of the expense. Receivables and payables in the statement of financial position are shown inclusive of GST.

Cash flows are presented in the statement of cash flows on a gross basis, except for the GST component of investing and financing activities, which are disclosed as operating cash flows.

(m) Leases

Lease payments for operating leases, where substantially all of the risks and benefits remain with the lessor, are charged as expenses on a straight-line basis over the life of the lease term.

Lease incentives under operating leases are recognised as a liability and amortised on a straight-line basis over the life of the lease term.

(n) Economic Dependence

Centre for Appropriate Technology Ltd is dependent on the Department of Prime Minister and Cabinet for the majority of its revenue used to operate the business. At

the date of this report, the Board of Directors has no reason to believe the Department of Prime Minister and Cabinet will not continue to support the Centre for Appropriate Technology Ltd.

(o) New and Revised Standards that are effective for annual periods beginning on or after 1 January 2014

A number of new and revised Standards are effective for annual periods beginning on or after 1 July 2014. Information on these new Standards is presented below.

AASB 10 Consolidated Financial Statements

AASB 10 supersedes the consolidation requirements in AASB 127 Consolidated and Separate Financial Statements (AASB 127) and AASB Interpretation 112 Consolidation – Special Purpose Entities. AASB 10 revises the definition of control and provides extensive new guidance on its application.

These new requirements have the potential to affect which of the Group's investees are considered to be subsidiaries and therefore to change the scope of consolidation. The requirements on consolidation procedures, accounting for changes in non-controlling interests and accounting for loss of control of a subsidiary are unchanged.

AASB 10 is applicable to Not for Profit entities for annual reporting periods beginning on or after 1 January 2014.

To assist Not for Profit entities applying the AASB 10, the AASB issued AASB 2013-8 Amendments to Australian Accounting Standards – Australian Implementation Guidance for Not for Profit Entities – Control and Structured Entities on 31 October 2013. AASB 2013-8 added an appendix to AASB 10 to explain and illustrate how the principles in AASB 10 apply from the perspective of Not for Profit entities in the private and public sectors, particularly to address circumstances where a for-profit perspective does not readily translate to a Not for Profit perspective. Similarly, it added an appendix to AASB 12 Disclosure of Interests in Other Entities, in relation to structured entities.

AASB 10 (and AASB 2013-8) became applicable to Not for Profit entities for annual reporting periods beginning on or after 1 January 2014.

Management has reviewed its control assessments in accordance with AASB 10 and has concluded that there is no effect on the classification (as subsidiaries or otherwise) of any of the Group's investees held during the period or comparative periods covered by these financial statements.

AASB 11 Joint Arrangements

AASB 11 supersedes AASB 131 Interests in Joint Ventures (AAS 131) and AASB Interpretation 113 Jointly Controlled Entities- Non-Monetary-Contributions by Venturers. AASB 11 revises the categories of joint arrangement, and the

criteria for classification into the categories, with the objective of more closely aligning the accounting with the investor's rights and obligations relating to the arrangement. In addition, AASB 131's option of using proportionate consolidation for arrangements classified as jointly controlled entities under that Standard has been eliminated. AASB 11 now requires the use of the equity method for arrangements classified as joint ventures (as for investments in associates).

AASB 11 became applicable to Not for Profit entities for annual reporting periods beginning on or after 1 January 2014.

The adoption of AASB 11 has not had any impact on the Group as it is not a party to any joint arrangements.

AASB 12 Disclosure of Interests in Other Entities

AASB 12 integrates and makes consistent the disclosure requirements for various types of investments, including unconsolidated structured entities. It combines the existing disclosures in AASB 127, AASB 128 and AASB 131, and introduces a range of new disclosure requirements.

AASB 12 became applicable to Not for Profit entities for annual reporting periods beginning on or after 1 January 2014.

The adoption of AASB 12 has not had any significant impact on the Group.

AASB 2012-3 Amendments to Australian Accounting standards – Offsetting Financial Assets and Financial Liabilities.

AASB 2012-3 adds application guidance to AASB 132 to address inconsistencies identified in applying some of the offsetting criteria of AASB 132, including clarifying the meaning of "currently has a legally enforceable right of set-off" and that some gross settlement systems may be considered equivalent to net settlement.

AASB 2012-3 is applicable to annual reporting periods beginning on or after 1 January 2014.

The adoption of these amendments has not had a material impact on the Group as the amendments merely clarify the existing requirements in AASB 132.

AASB 2013-3 Amendments to AASB 136 – Recoverable Amount Disclosures for Non-Financial Assets.

These narrow-scope amendments address disclosure of information about the recoverable amount of impaired assets if that amount is based on fair value less costs of disposal.

When developing IFRS 13 Fair Value Measurements, the IASB decided to amend IAS 36 Impairment of Assets to require disclosures about the recoverable amount of impaired assets. The IASB noticed however that some of the amendments made in introducing those requirements resulted in the requirement

being more broadly applicable than the IASB had intended. These amendments to IAS 36 therefore clarify the IASB's original intention that the scope of those disclosures is limited to the recoverable amount of impaired assets that is based on fair value less costs of disposal.

AASB 2013-3 makes the equivalent amendments to AASB 136 Impairment of Assets and is applicable to annual reporting period's beginning on or after 1 January 2014. The adoption of these amendments has not had a material impact on the Group as they are largely of the nature of clarification of existing requirements.

(p) Critical Accounting Estimates and Judgements

The directors evaluate estimates and judgements incorporated into the financial statements based on historical knowledge and best available current information. Estimates assume a reasonable expectation of future events and are based on current trends and economic data, obtained both externally and within the Group.

Key estimates

Impairment

The Company assesses impairment at the end of each reporting period by evaluating conditions specific to the Company that may be indicative of impairment triggers. Recoverable amounts of relevant assets are reassessed using value-in-use calculations which incorporate various key assumptions.



Contact



CENTRAL AUSTRALIA

Head Office
Desert Peoples Centre
Desert Knowledge Precinct
South Stuart Highway
PO Box 8044
Alice Springs NT 0871
Tel: (08) 8959 6100
Fax: (08) 8959 6111
info@icat.org.au

NORTH QUEENSLAND

Level 1 – Unit 3
143 Buchan Street
Bungalow
PO Box 6182
Cairns QLD 4870
Tel: (07) 4031 0505
Fax: (07) 4031 0431
nq@icat.org.au

NORTHERN AUSTRALIA

7 Searcy Street
PO Box 2875
Darwin City NT 0801
Tel: (08) 8981 7599
Fax: (08) 8981 7233
darwin@icat.org.au

CEO:

Steve Rogers
08 8959 6134
04 0909 6268
Fax: (08) 8959 6111
steve.rogers@icat.org.au

PROJECTS:

Robyn Grey-Gardner
08 8959 6168
Fax: (08) 8959 6111
robyn.grey-gardner@icat.org.au

CAT PROJECTS:

Lyndon Frearson
08 8959 6242
Fax: (08) 8959 6111
lyndon.frearson@catprojects.com.au

MEDIA & COMMUNICATIONS:

Metta Young
08 8959 6127
Fax: (08) 8959 6111
metta.young@icat.org.au

TRAINING:

Mark Bagley
08 8959 6178
Fax: (08) 8959 6111
mark.bagley@icat.org.au

COMMUNITY INFRASTRUCTURE PROJECTS:

Yash Srivastava
08 8959 6171
Fax: (08) 8959 6111
yash.srivastava@icat.org.au

CORPORATE SERVICES:

Lucy Ayre
08 8959 6213
Fax: (08) 8959 6111
lucy.ayre@icat.org.au

HUMAN RESOURCES:

Allan Dunn
08 8959 6131
Fax: (08) 8959 6111
allan.dunn@icat.org.au

MANAGER – QUEENSLAND:

Andre Grant
07 4031 0505
Fax: (07) 4031 0431
andre.grant@icat.org.au

MANAGER – DARWIN:

Murray Schneider
08 8981 7599
Fax: (08) 8981 7233
murray.schneider@icat.org.au



