

## ATC15 FINALIST DESCRIPTIONS (*Alphabetical by State*)

Finalist	State	Description
Calix	NSW	Calix's mission is to simplify how things are made. Calix has invented and developed micron-sized, nano-active MgO particles for use as a plant foliar spray that is a safe, environmentally friendly and helps plants fight disease without expensive, dangerous chemicals.
CIM Environmental Group	NSW	The CIM Enviro ACE Platform identifies the root cause of human, software and hardware faults within mechanical and control systems in the built environment delivering multiple benefits such as improved thermal comfort, longer life cycle of plant and equipment plus significant energy cost savings.
Corky's Sustainable Energy	NSW	Corky's VAM RAB is a method of safely abating coal mine methane from an underground coalmine's ventilation air which is variable in terms of flow, methane and dust concentration. The VAM RAB has advantages over other competitors because it provides superior safety and emissions outcomes that can be use on working coal mines.
FluidIntel	NSW	FluidIntel developed and owns the world's leading fuel and lubricants management system for the mining sector which enables fuel reductions of 2-5%. Its system has been selected by six of the ten top global miners as clearly the market leader.
Melville Equipment	NSW	Melville Equipment has developed a machine to safely remove Pandrol Elastic railway fasteners that hold the rail to the sleepers and can become rusted into position and difficult to remove. The technology uses an impact force with a "squeeze byace" to vibrate and remove the clips in a controlled, safe manor.
Ocius Technology	NSW	Ocius Bluebottles are a new type of Unmanned Surface Vessels (USVs) that differentiate themselves from competitors by using Ocius core technology developed over 14 years of patented Rigid Opening Sails (ROS), rudder wave oscillators and Hybrid Marine Power technology. By combining solar, wind and wave energy BlueBottles have 2-5 times the power, payload and performance when compared to known competitors.
Pacific Environment	NSW	Pacific Environment's EnviroSuite is a proactive environmental management system that combines real-time monitoring and predictive modelling with high resolution weather forecasting and automated data analysis to enable clients to maximise operational efficiencies whilst meeting or exceeding their regulatory compliance obligations.
Switch Automation	NSW	Switch Automation has the world's first completely cloud-hosted, holistic enterprise operations platform for managing buildings and other physical assets. We are ambitious in our goal to revolutionize the way that buildings are managed.
Spinifex Resins	NT	Spinifex Resins' has developed an organic, non-toxic, non-carcinogenic Resin free from Urea Formaldehyde extracted from the Spinifex plant. This innovative resin provides a cost competitive, renewable, non-fossil fuel based resin for engineered timber products (MDF, Particleboard, Plywood etc).
Oceansmart	QLD	Oceansmart's Smart Tuna Hook system is a solution that prevents hundreds of thousands of endangered seabirds and turtles taking baited hooks, subsequently becoming hooked and killed on longlines every year. The technology uses galvanic reaction to release a shield that covers the baited hook immersed in water and is below the feeding depth of seabirds & turtles.
Aquamation	VIC	Aquamation's Water Cremation technology uses water instead of propane gas fired incineration to cremate bodies that reduces energy use, emissions, toxic fumes and airborne mercury pollution.
GreenSync	VIC	GreenSync has built a suite of complementary products that share the fundamental aim of better balancing electricity use across the grid to reduce network, customer and generation peaks. GreenSync's PeakResponse™ and MicroEM™ products are built on a robust, industrial strength technology platform and provide energy optimisation and demand management.
Polymeric Powders	VIC	Polymeric Powders has developed a new flexible plastic-rubber composite material that has increased shock absorption, increased resistance to cracking, increased thermal insulation and increased acoustic insulation. The material can thus be utilised for manufacturing of high-tech products via traditional moulding type manufacturing as well as new 3D printing manufacturing techniques.
Reedbed Technology	VIC	Reedbed Technology has developed an advanced reedbed treatment system called the "Reedcell" system that successfully treats wastewater, industrial wastewater, mining wastewater and contaminated groundwater and is extremely simple to operate, has a long lifespan, uses no chemicals, produces no odours and provides a visually attractive living amenity.
Southern Innovation	VIC	Southern Innovation has developed, patented and commercialised "SITORO®" a proprietary, disruptive, digital signal processing technology for radiation-based materials analysis across a range of industries enabling real-time material characterisation capability with unprecedented speed, accuracy and scale.
Metro Power Company	WA	Metro Power has invented a smart grid analytics platform named 'E2M' that acts as a decision support system for large grid network operations control centres by predicting future rolling 15 minute peak electricity loads across their grid, 96hours ahead of time.



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