



## Ethical Investor

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## Cleantech Investor 30

Top 30 ACT Australian CleanTech Index components by market capitalisation



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| Sector                 | Company name                            | ASX Code | Business Description  | 30 April    | 31 May10    | Market Cap |
|------------------------|---|----------|---|-------------|-------------|------------|
|                        |   |          |   | Share price | Share price |            |
| EFFICIENCY             | Advanced Energy Systems                 | AES      | Advanced Energy Systems was formed with an emphasis on solar power and solar utilities. Its solar assets were then sold to SunEnergy in 2008 and the company now has a focus on low-voltage, DC power network management for telecommunications.  | 0.09        | 0.05        | 22.3       |
| WASTE                  | AnaeCo                                  | ANQ      | AnaeCo delivers Alternative Waste Technology (AWT) facilities based on the patented DICOM bioconversion process. The system incorporates advanced sorting, recycling, anaerobic digestion and aerobic composting to recycle municipal solid waste (MSW) into renewable energy from biogas, agricultural-grade compost and recyclables such as steel, aluminium, glass and plastics.   | 0.22        | 0.18        | 29.5       |
| HYDRO, WAVE & TIDAL    | Carnegie Wave Energy                    | CWE      | Carnegie's primary technology is the CETO Wave Energy technology, which involves multiple underwater buoys driving pressured water. The technology is being demonstrated at Freemantle. The company also owns early-stage technologies involved with clean coal, solar thermal and wind aerofork.   | 0.11        | 0.10        | 79.0       |
| FUEL CELLS & STORAGE   | CBD Energy                              | CBD      | CBD Energy provides wind, solar and energy storage in an integrated solutions package. The company is focused on diesel reduction and the overall reduction of greenhouse gas emissions by providing renewable power technology to both on-grid and remote area power systems.  | 0.14        | 0.13        | 45.6       |
| FUEL CELLS & STORAGE   | Ceramic Fuel Cells                      | CFU      | Ceramic Fuel Cells (CFC) is a world leader in developing solid oxide fuel cell (SOFC) technology to provide reliable, energy efficient, high quality, and low-emission electricity from widely available natural gas and renewable fuels. CFC is developing SOFC products for small-scale on-site micro combined heat and power (m-CHP) and distributed generation units that co-generate electricity and heat for domestic use.  | 0.21        | 0.18        | 149.4      |
| WASTE                  | CMA Corp                                | CMV      | CMA Corp is an integrated waste management company. It has undertaken extensive acquisitions since its listing in its bid to consolidate the fragmented Australian waste management and recycling sector. Has also made acquisitions in New Zealand and the UK.   | 0.09        | 0.09        | 84.2       |
| CARBON                 | CO2 Group                               | CO2      | The CO2 Australia Carbon Sequestration Program is dedicated to establishing commercial-scale, permanent (>100 years) carbon sinks. The program involves establishing plantings of long-lived native eucalypts for the purpose of generating carbon credits. The trees will not be harvested. The company also offers offsets online via an emissions calculator, by quotation to SMEs, pre-tax employee payroll solutions, partnership to make products carbon neutral, management of forestry projects and carbon bank management. | 0.15        | 0.13        | 34.9       |
| ENVIRONMENTAL SERVICES | Coffey Environments                     | COE      | Coffey Environments is one of the largest environmental services organisations in the southern hemisphere. It offers environmental, property engineering and workplace health and safety and is supported by a fully NATA accredited in-house laboratory.   | 1.60        | 1.18        | 152.3      |
| WATER                  | Craze Group                             | CRG      | The Craze Group is a leading manufacturer and distributor of non-ferrous metal products and plastic pipeline systems and a major distributor of plumbing and electrical supplies in Australia and New Zealand. Customer base includes plumbing, industrial, building, mining, electrical, telecommunication, government, and rural industries.  | 9.10        | 8.79        | 677.8      |
| WASTE                  | Dolomatrix                              | DMX      | DoloMatrix is a technology-based business, specialising in the cost-effective treatment of hazardous and other complex problem waste materials. The Dolocrete® technology is a worldwide-patented catalyst and binder system based on uniquely calcined dolomitic minerals. The combination of specifically chosen materials in the Dolocrete® system enables waste to be chemically bonded within a stable and inert matrix.   | 0.26        | 0.28        | 38.3       |
| SOLAR                  | Dyesol                                  | DYE      | Dyesol's Dye Solar Cell technology uses an electrolyte rather than silicon. Claims to be lower cost, lower embedded energy to manufacture, more efficient in lower light and can be embedded in glass in buildings rather than panels. Has strong international international connections including a joint venture with Cosun on laminated steel pV and with Pilkington on BPV glass manufacture.  | 1.21        | 1.07        | 139.0      |
| BIOGAS                 | Energy Developments                     | ENE      | Energy Developments operates a 420MW international portfolio of low-emissions projects which continue to grow in size and diversity. These projects are focused on the provision of renewable and innovative energy and environmental solutions. It has operating plants in Australia, France, Greece, Taiwan, the UK and the US with 50% of the generation capacity being landfill gas, 25% coal seam methane and 25% natural gas. Currently 80% owned by Greenspark.  | 2.54        | 2.50        | 391.6      |
| EFFICIENCY             | Galaxy Resources                        | GXY      | Galaxy Resources is the developer of the Mt Cattin Lithium Project (hard rock spodumene) in Ravensthorpe, Western Australia. Whilst mining is not directly a cleantech industry the lithium production will be driven by battery technologies.  | 1.29        | 1.05        | 159.5      |
| EFFICIENCY             | Gale Pacific                            | GAP      | Gale Pacific Limited is a world leading manufacturer and distributor of advanced polymer fabrics which includes knitted outdoor fabrics, coated waterproof fabrics and PVC coated mesh fabrics. Products are sold to a range of consumer and industrial markets including the retail and home furnishings, architectural, construction, and agribusiness markets.   | 0.20        | 0.14        | 39.2       |
| GEOTHERMAL             | Geodynamics                             | GDY      | Geodynamics is the leading geothermal company in Australia with extensive drilling work completed at Habanero. Hoping to finalise circulation tests in 2009. The company purchased a AS3.2m special purpose drilling rig in July 2007 to enable it to move ahead with its drilling program without delays. Major investors are Origin Energy and Iata Power.  | 0.59        | 0.43        | 125.0      |
| ENVIRONMENTAL SERVICES | GreenCap Ltd                            | GCG      | GreenCap Ltd owns a number of separate businesses servicing remediation, fire safety, risk management and environmental services in general.  | 0.10        | 0.08        | 19.7       |
| WIND                   | Infigen Energy                          | IFN      | Infigen Energy is a specialised investment fund focused on the wind energy generation sector, offering investors an opportunity to invest in a portfolio of globally diversified wind energy generation assets. Sold its Spanish assets in 2008 as they were undervalued. Acquired the management contract from its former parent company, Babcock & Brown, in late 2008.   | 0.99        | 0.84        | 683.9      |
| BIOFUELS               | Mission NewEnergy                       | MNT      | Mission NewEnergy owns and operates a 100,000 tonnes pa production facility in Malaysia. The company also has agreements in place to expand its operations into China and India.  | 0.34        | 0.28        | 77.0       |
| EFFICIENCY             | Orocobre                                | ORE      | Orocobre Ltd is a lithium miner that is developing the Salar de Doraaz brine deposit in Argentina, widely recognized as the world's next large scale, low cost lithium-potash brine resource. Toyota has bought into the Salar de Oloroz project to secure a lithium source for its car batteries.  | 2.45        | 2.18        | 176.2      |
| BIOGAS                 | Pacific Energy                          | PEA      | Pacific Energy owns an operating 46MW biomass project in Perth, a development biomass project in New Jersey, US, operating hydro projects at Blue Rock and Cardinia Reservoir in Victoria and development hydro projects in New Jersey. In December 2008, the company acquired Kalgoolie Power Systems that owns 150MW of gas, diesel and dual fuel installed plants at WA mine sites.  | 0.32        | 0.28        | 36.7       |
| GEOTHERMAL             | Panux Geotherm                          | PAX      | Panux was originally established as a uranium explorer spun out of WPC Resources but then acquired the Limestone Coast, SA geothermal project from Scopenergy which includes 50MW PPA with Snow Hydro. Bonus de Coapl (ex Geodynamics, MD) to the IAD. The company has a 43% ownership of the geothermal rights in the Indian state of Maharashtra and has the right to earn 61% of four geothermal projects in Yrgyzstan which are controlled by Kenter Gold.  | 0.12        | 0.11        | 33.8       |
| WASTE                  | Papyrus Australia                       | PPY      | Papyrus is commercialising a technology to make banana plant fibre into raw paper. Papyrus believes that its technology will provide a sustainable paper-making technology as an alternative to that on which the conventional pulp and paper industry is currently based.  | 0.39        | 0.29        | 26.4       |
| EFFICIENCY             | Pro-Pac Packaging                       | PPG      | Pro-Pac Packaging was established in 1987 and has become a leader in the manufacture and supply of flowable and non-flowable voidfill protective packaging. Pro-Pac was the first company in Australia to offer biodegradable voidfill packaging to protect our customers' products while caring for the environment.   | 0.33        | 0.32        | 39.4       |
| SOLAR                  | Quantum Energy                          | QEM      | Quantum Energy Technologies is a manufacturer of advanced renewable energy water, building & pool heating products for residential, commercial and industrial applications.   | 0.13        | 0.08        | 85.5       |
| WASTE                  | Sims Metal Management Ltd               | SGM      | Sims Metal Management is growing into one of the world's leading waste and recycling companies and already claims to be the world's largest "re-cycler" of IT, electrical and electronic goods. In 2007, it acquired the US based Metal Management that established a major position in the US.   | 20.88       | 20.19       | 4109.5     |
| SOLAR                  | Sylex Systems                           | SLX      | Sylex Systems owns a majority stake in Translucent Technologies, a US-based developer of a laser enrichment solar technology. Sylex also owns the old BP Solar manufacturing plant in Sydney and is in the process of acquiring the assets of Solar Systems.  | 6.04        | 5.46        | 810.6      |
| WASTE                  | Top Free Solutions                      | TOX      | Top Free is a Western Australia based company that offers a one-stop-shop for industrial waste management. It has diversified revenue streams including Barry Brothers, which it acquired from PMS in 2008 and Greenpac Recycling in Wodonga, Victoria.   | 2.42        | 2.30        | 210.3      |
| WIND                   | Transfield Services Infrastructure Fund | TSI      | Transfield Services Infrastructure Fund owns a 50% stake in the brown coal fired Loy Yang A power station. However, it also owns two water filtration plants and 177MW of operating wind farms, that it purchased from the Queensland Government.   | 0.97        | 0.68        | 186.9      |
| WASTE                  | Transpacific Industries                 | TPI      | Transpacific Industries is one of Australia's largest integrated waste management companies. Through Waste Management NZ, it is also one of New Zealand's leading waste companies. The company acquired Cleanway from KBR in 2007.  | 1.30        | 1.20        | 1152.8     |
| BIOGAS                 | Willmott Forests                        | WFL      | Willmott Forests establishes, manages, harvests, processes and supplies timber products from plantation grown resources. It develops plantations for high value veneer timber production and wood pellets for energy production through the BioForest Project. The company owns 51% of Ethanol Technologies, that is developing cellulosic ethanol and 100% of BioEnergy Australia Ltd.   | 0.35        | 0.34        | 48.6       |