



Australian CleanTech Index

3Q FY18

Quarterly Performance Report

April 2018

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1. Australian CleanTech Index Overview

The Australian CleanTech Index provides the definitive measure of the performance of Australian listed cleantech stocks. The cleantech industry is split into a number of sub-sectors as detailed in the table below. Each of the sub-sectors contains companies that have both environmental and economic benefits.

Solar Thermal and Photovoltaics	Carbon Sequestration & Trading
Wind Generation	Energy Efficiency & Biomaterials
Biofuels	Resource Efficiency
Wave, Tidal & Hydro	Green Buildings
Biogas	Waste Management & Recycling
Geothermal – Hot dry rocks and conventional	Water
Sustainable Materials	Energy Storage & Fuel Cells
Environmental Services	Low Emissions Vehicle Technologies
Pollution Control	Air Quality Monitoring and Control
Land remediation	

The cleantech sector is fundamentally different to Socially Responsible Investments (SRI) or Environmental, Social and Governance (ESG) performance. SRI and ESG look at incremental improvements in company performance and can be seen as ‘operational hygiene’ measures that find the best in class. Cleantech focuses on companies whose output positively enhances the communities and ecologies in which they reside. It is about doing ‘more good’ rather than ‘less bad’.

With 86 companies falling under the coverage of the Index and with a combined market capitalisation, after its rebalance, of \$41 billion, the Australian CleanTech Index presents a comprehensive picture of the Australian cleantech industry’s growth in a single measure.

The Index is weighted by market capitalisation and is benchmarked against both the ASX200 and the ASX Small Ordinaries. The rules for the formulation and management of the Index have been developed with reference to global best practice. An overview of these rules is provided in the annual performance report.

The ACT Australian Cleantech Index is updated each month and published on the Australian CleanTech website at www.auscleantech.com.au, and in numerous domestic and international publications.

Monthly results can be emailed directly to interested parties by subscribing at <http://www.auscleantech.com.au/Pages/cleantech.html>.

2. Australian CleanTech Index Performance 3Q FY18

Australian CleanTech Index again outperformed the ASX200 for the month of March and the third quarter of FY18.

The Australian CleanTech Index fell from 64.60 to 63.72 over the month recording a 1.35% loss. This compared to the ASX200 loss of 4.27% and the ASX Small Ordinaries loss of 3.01%. The Australian CleanTech 20 recorded a loss of 1.17% for the month.

Over the third quarter of the 2018 fiscal year, the Australian CleanTech Index recorded a loss of 3.0%, ahead of the ASX200's loss of 5.0% and the ASX Small Ordinaries' 3.8% loss.

The twelve-month figure also remains ahead of the ASX200. Over the last 12 months, the Australian CleanTech Index recorded a gain of 12.6%, 14.4% ahead of the ASX200. **Over the last 3 years, the Australian CleanTech Index leads the ASX200 by nearly 40%.**

Percentage Change	FY14	FY15	FY16	FY17	MAR'17	3Q FY18	6 Mnths	12 Mnths	3Yrs	5Yrs
Australian CleanTech Index	19.6%	16.6%	21.3%	13.1%	-1.35%	-3.0%	5.9%	12.6%	36.5%	86.1%
Australian CleanTech 20	19.6%	16.0%	18.4%	14.8%	-1.17%	-2.9%	5.6%	13.2%	34.2%	82.6%
ASX200	12.3%	1.3%	-4.3%	9.4%	-4.27%	-5.0%	1.4%	-1.8%	-2.2%	16.0%
ASX Small Ords	9.6%	-2.8%	10.4%	3.6%	-3.01%	-3.8%	9.0%	11.4%	23.0%	16.1%

The market capitalisation after its rebalance of the 86 stocks in the Australian CleanTech Index is A\$41.1 billion.

Best and Worst Stocks

The best and worst performers in terms of share price performance over the month and the quarter are shown in the table below.

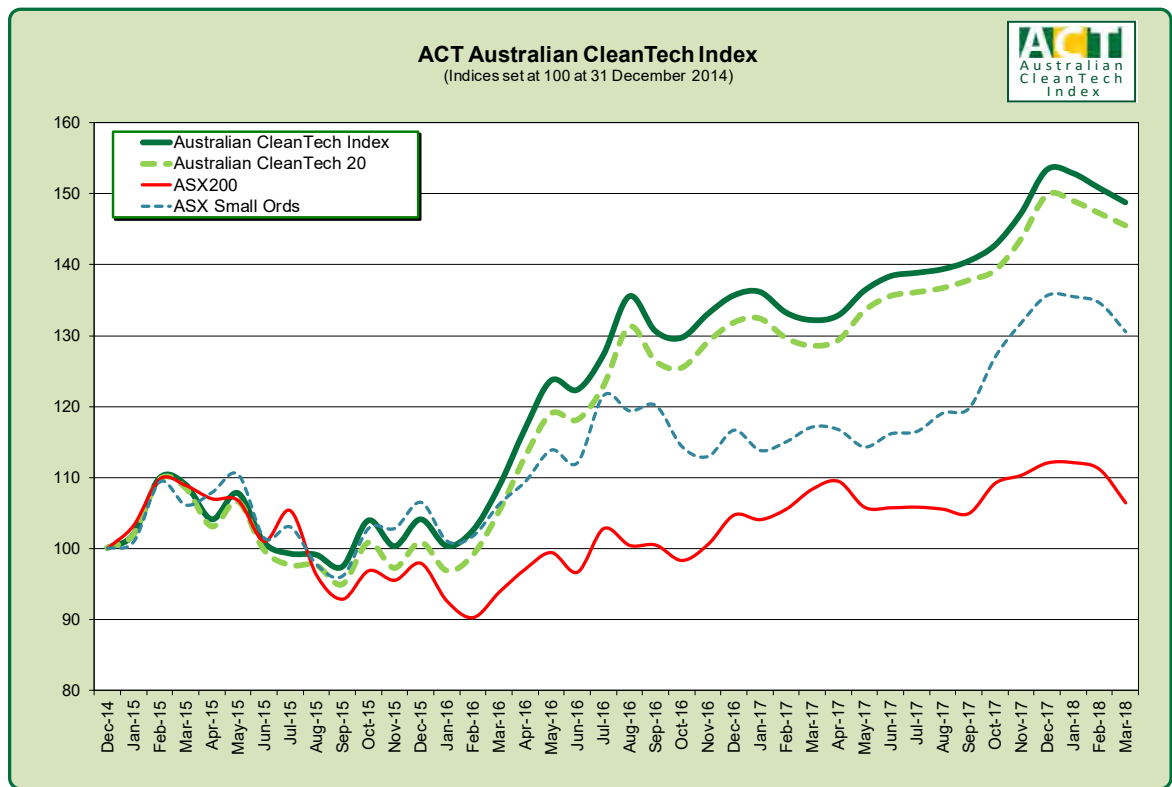
The month's performance was driven by 7 companies with gains of more than 15%. The greatest percentage gains were recorded by **Cobalt Blue Holdings (COB)**, **Bluglass (BLG)** and **Bass Metals (BSM)**. The greatest gain in market capitalisation over the month was from **Reece (REH)**.

These gains were more than offset by 20 companies recording losses of more than 15% led by **Eden Innovations (EDE)**, **Papyrus Australia (PPY)** and **Tag Pacific (TAG)**. The greatest loss in market capitalisation over the month was from the ever-volatile **Sims Metal Management (SGM)**.

The quarter's performance was driven by 9 companies with gains of more than 25%. The greatest gains were recorded by **Australian Vanadium (AVL)**, **Quantum Energy (QTM)** and **Cobalt Blue Holdings (COB)**.

These losses were more than offset by 15 companies recording losses of more than 25% led by **BuildingIQ (BIQ)**, **Environmental Group (EGL)** and **Collaborate Corp (CL8)**.

March 2018		
Best Performers Share Price Gain > 15%	Worst Performers Share Price Loss > 15%	
Sterling Biofuels Fluence Corp Bluglass Novonix Bass Metals Cobalt Blue Holdings Orbital Corporation	K2 Energy Limited Tag Pacific Leaf Energy Papyrus Australia Pyrolyx AG Range International SciDev Sims Metal Management BuildingIQ Eden Innovations	Hazer Group Metro Performance Glass SECOS Group First Cobalt Corp Galaxy Resources Kibaran Resources Lithium Power International Orocobre Triton Minerals EnviroSuite
3Q FY18		
Best Performers Share Price Gain > 25%	Worst Performers Share Price Loss > 25%	
Quantum Energy Water Resources Group Bluglass Vivid Technology Australian Vanadium Bass Metals Cobalt Blue Holdings First Graphite Volt Resources	Leaf Energy Papyrus Australia SciDev BuildingIQ Eden Innovations Energy Action Hazer Group Metro Performance Glass Lithium Power International	Neometals Syrah Resources Kalina Power Environmental Group EnviroSuite Collaborate Corp



3. Index Rebalance

The Australian CleanTech Index underwent its quarterly rebalancing at the end of March which took account of recent share issues and other corporate activity. The following company was moved from the *Australian Renewable Energy Index* to the *Australian Efficiency and Energy Storage Index*:

- **Vivid Technologies (ASX:VIV)** following the significant change in its business activities to focus on technology-focused solutions in the industrial energy efficiency and CO₂-to-fuel conversion markets in Australia and the Asia Pacific.

The following four companies were added to the Index in an ongoing sign that the sector is growing in both breadth and depth:

- **BlackEarth Minerals (ASX:BEM)** has a portfolio of high-quality graphite assets in West Australian and Madagascar. The Maniry and Ianapera graphite projects in Madagascar are both in close proximity to the large, high-quality Molo project. The stock is also added to the new *Australian Sustainable Minerals Index*.
- **Carbonxt (ASX:CG1)** reduces environmental pollutants through the development of activated carbons. Its activated carbons are primarily utilised in capturing mercury emissions from coal-fired power stations and cement plants.
- **Pearl Global (ASX:PG1)** has a unique Thermal Desorption Unit (TDU) technology to process end of life rubber including waste tyres into oil, char, non-condensable gas and steel. These products can be sold commercially or further treated to create higher value added products. The stock has also been added to the *Australian Waste Index*.
- **Simble Solutions (ASX:SIS)** provides an integrated, end-to-end solution that combines the company's software-as-a-service (SaaS) platform with energy meters that can monitor, control and monetise power usage in real-time. The solution principally caters to SME and enterprise markets. The stock has also been added to the *Australian Efficiency and Energy Storage Index*.

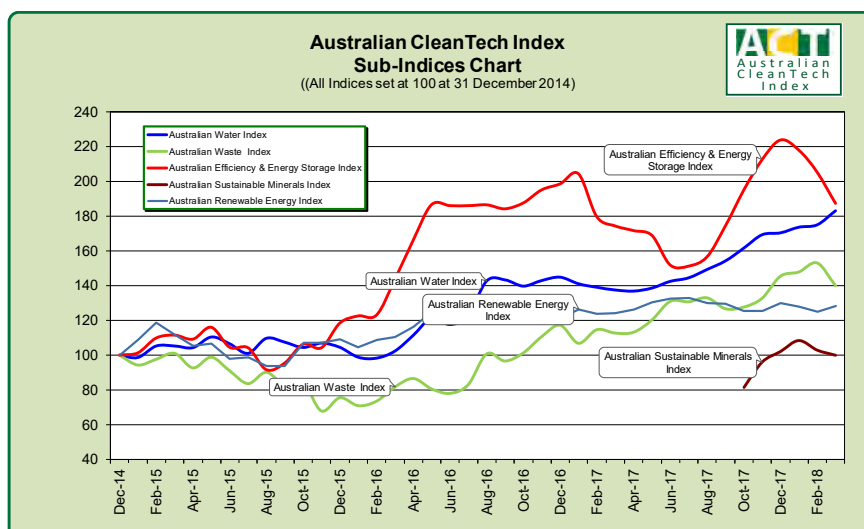
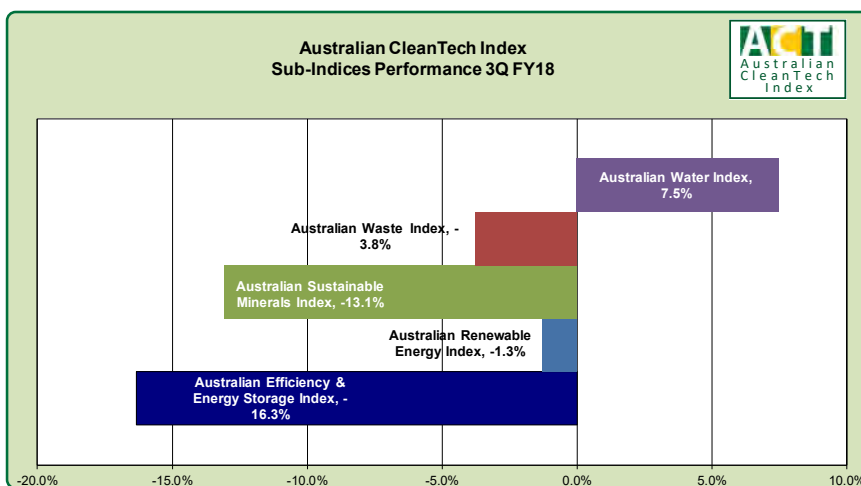
4. Component Sub-Indices

To provide an analysis of the Australian CleanTech Index, a number of sub-indices have been developed. The performance of each of these sub-indices over the last five financial years and during 3Q of FY18 is shown in the table and charts below.

To provide better transparency of industry trends, an adjustment has been made to the sub-index structure with the Sustainable Minerals stocks separated out from the Efficiency and Energy Storage stocks to start a new sub-index going forward.

Australian CleanTech Sub-Indices

	FY13	FY14	FY15	FY16	FY17	3Q FY18
Australian Efficiency & Energy Storage Index	-27.9%	2.9%	31.0%	78.1%	-18.4%	-16.3%
Australian Renewable Energy Index	-22%	10%	29.5%	27.4%	6.2%	-1.3%
Australian Sustainable Minerals Index	-	-	-	-	-	-13.1%
Australian Waste Index	-3.4%	18.3%	-7.4%	-14.3%	68.0%	-3.8%
Australian Water Index	-14.6%	26.3%	16.1%	10.3%	21.1%	7.5%



5. Component Companies on 31 March 2018

The largest 20 largest Index constituents by market capitalisation on 31 March 2018 are provided in the table below. These companies will form the constituents of the Australian CleanTech 20 until the index is rebalanced again on 30 June 2018.

Market Cap Ranking	Company	Ticker
1	Meridian Energy	MEZ
2	Reece	REH
3	Mercury NZ	MCY
4	Contact Energy	CEN
5	Cleanaway Waste	CWY
6	Sims Metal Management	SGM
7	Reliance Worldwide Corp	RWC
8	Orocobre	ORE
9	Galaxy Resources	GXY
10	Bingo Industries	BIN
11	Syrah Resources	SYR
12	CleanTeQ	CLQ
13	Nanosonics	NAN
14	Tox Free Solutions	TOX
15	Infigen Energy	IFN
16	New Energy Solar	NEW
17	Beacon Lighting Corp	BLX
18	Magnis Resources	MNS
19	First Cobalt Corp	FCC
20	Pro-Pac Packaging	PPG

New one entrant to the Australian CleanTech 20 at this rebalance was First Cobalt Corp which replaced Neometals.

Each of the constituents in the Australian CleanTech 20 has a market capitalisation of more than \$221m with an average market capitalisation of \$1.9 billion.

For a full listing of all companies included in the Australian CleanTech Index, please email your request to index@auscleantech.com.au.

6. China CleanTech Index

Australian CleanTech, through its Beijing-based Chinese operations, publishes the China CleanTech Index. This index tracks all 157 Chinese-based listed cleantech companies with a combined market capitalisation of US\$324 billion and provides the definitive measure of Chinese cleantech stocks for global markets. The charts below show the performance of the China CleanTech Index against its benchmarks and also show the relative performance of the China CleanTech Index against the Australian CleanTech Index.

Full details of the China CleanTech Index can be downloaded from www.sinocleantech.com, where it is also possible to sign up to receive the monthly performance reports.

