



AUSTRALIAN

SNAPSHOT - APRIL 2011

## SOCIALLY RESPONSIBLE INVESTMENT

### How Prepared are we for the Next Major Catastrophe?

Recent tragic events in Japan have highlighted the fragility of the human race and its susceptibility to the consequences of natural disasters. Japan is a rich, industrialized nation, undoubtedly one of the best prepared for a catastrophic incident particularly given its proximity

to a major geological structural fault and its history of earthquakes. However, when the almost infinite power of nature comes in conflict with the complexities of modern

science, existing risk assessments, planning and "best practice" may prove to be inadequate and in urgent need of reassessment.



#### Addressing Public Safety and Preparedness

Public safety and preparedness are seen as two key responsibilities of any government. Historically, the greatest threats have been seen as external and military in nature, which have caused

governments to give priority to traditional military defense policies. However, in the 21<sup>st</sup> century the perceived nature of these threats is gradually changing. Increasingly,

the public is more concerned with the possibility of a terrorist attack, a potential pandemic, a major accident at a chemical industrial facility

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or, as in the case in Japan, the crippling of a nuclear power plant.

Each of these scenarios requires the rapid deployment of thousands of first responders such as police, rescue services and relief workers into potentially hazardous environments both to deal directly with the threat itself and also to provide humanitarian relief. These key personnel need personal protection from a wide range of potential threats and contaminants. Following recent events in Japan, governments around the world are reviewing their disaster contingency plans and the resources and technology those plans require.

Adequate clothing protection is one of the first priorities for personnel who have to operate in a contaminated environment for sustained periods of time. Given the nature of many of these potential threats it is not surprising that the defense industry funds and conducts research to develop protective clothing technology.

### **Challenges in Producing Protective Clothing**

Conventional wisdom has previously dictated the use of impenetrable “barrier” technologies on clothing which, although effective in providing protection, make fabrics uncomfortable and often lead to heat stress for the wearer especially under circumstances requiring prolonged physical exertion. Also with barrier technologies, any damage to the fabric can result in all protection being lost. The future trend is to move towards more comfortable “reactive” apparel, which should be lighter weight, preferably

made from breathable fabrics, yet which will also provide protection against a wide range of potential contaminants.

This enhanced performance requirement is a significant challenge to the global textile industry, which is already under pressure to reduce pollution and replace potentially harmful chemistry with “green” chemistry alternatives. An example of this is the use of C8 fluoropolymers, which when applied to the surface of the fabric provide exceptional oil and water repellency and have been used extensively for decades by the textile industry for protective clothing. Trials conducted over the past few years have shown that during the production and use of C8 fluoropolymers, harmful toxins are produced, which remain persistent in the environment. Despite its efficacy, it is no surprise that this C8 technology is being rapidly phased out to be replaced by a more environmentally friendly





but arguably more expensive and less technically effective C6 fluoropolymer alternative.

### **Alexium's Reactive Surface Treatment (RST)**

The Alexium Reactive Surface Treatment ("RST") was originally developed by the US Department of Defense (DoD) as part of a CBRN (chemical, biological, radiological and nuclear) protection program. RST uses microwave energy to "bond" various functions to a surface or substrate giving it new or improved properties and thereby expanding the use and value of a material.

This technology can be used to treat a wide spectrum of products, including glass, paints, plastics, adhesives, and in particular textiles. The initial objective was to treat standard cotton/nylon textiles to make them machine-washable, self-extinguishing in a fire, super hydrophobic and oleophobic, antimicrobial to protect against germs, and also to provide protection against chemicals including solvents and acid. Unlike many other surface treatments, the RST process can treat deep into the fabric, encapsulating the individual fibres without significantly changing the "hand" or feel of the fabric. Currently, the

patented technology is being prepared for commercial role out at Alexium's new US facility in Greer, South Carolina. Alexium is now commissioning its third generation RST production unit for use at this facility. The new unit is expected to triple the speed of continuous treatment in order to meet the high volume needs of the textile industry.

### **An Environmentally Friendly Process**

Any new technology adopted by industry not only has to demonstrate improved performance but also needs to meet ever stricter environmental standards. Alexium's RST is energy efficient as it uses only a short burst of microwave energy rather than conventional heating for the grafting process. As multiple functions may be applied simultaneously, the company believes that the technology may eliminate multiple energy and chemical intensive treatments currently in use. It is also environmentally friendly in other ways, as the latest coatings (CLEANSHELL™) use neither surfactants nor



Above are two samples, one was treated with Alexium's Reactive Surface Treatment (RST) and one was not. This sample on the right underwent a single treatment making it self-extinguishing in a fire and super hydrophobic and oleophobic.



emulsifiers or any harmful solvents. These “purer” coatings are already showing their value. In the application of the new “greener” C6 fluoropolymer with the RST process, Alexium has demonstrated performance comparable to C8 fluoropolymer on an initial range of textiles. Alexium sees this achievement as having potentially huge global implications, not only for the treatment of textiles but also for a number of other industries where fluoropolymer coatings are used extensively and the new restrictions are proving challenging.

**Market for Alexium Reactive Surface Treatment**

Given the heritage of the technology and the long standing relationship that Alexium has with the US Department of Defense, the company sees the CBRN protective garments mar-

ket as an obvious and lucrative pursuit. There are millions of CBRN protective suits in service in the US alone and many more globally. These suits have a limited “shelf life” and are replaced on a regular basis. Alexium believes this will provide a lucrative, on-going and repetitive commercial opportunity for a company like Alexium.

The Alexium technology has been submitted and short listed for an initial CBRN protective clothing program in the US. Alexium believes that, if successful, this would be the first of several future CBRN protective clothing programs. Alexium has recently signed an agreement with the International Textile Group (ITG), a billion dollar revenue textile group and major supplier of defense industry textiles, which will be Alexium’s preferred textile supplier for military and commercial bids.

To date, Alexium has benefited from the DoD’s investment of over \$30 million in RST technology.



Alexium recently announced the renewal of its CRADA (Cooperative Research and Development Agreement) with its commercial and technology partner, the US Air Force. This agreement aims to accelerate the commercial availability of the technology not only for defense but also for wider commercial applications identified by Alexium.

It is these wider commercial applications of the RST technology that offer some of the most compelling longer-term opportunities for Alexium. These include the treatment of specialized textiles including composites, filter media, and even wound dressings, applications where surface functionality is critical. Initial commercial agreements have been signed within the last few months with two other major specialist textile groups. Both of these companies, one in the US and one in Australia, have been familiarizing themselves with the Alexium technology and are now in the process of selecting the most

appropriate applications for their current textile offerings. In addition, ITG and Alexium have agreed to collaborate on new product lines using the RST process.

### **“The World’s Best Technology”**

In 2009, Alexium was named “The World’s Best Technology” by a panel of venture capitalists and Fortune 500 technology scouts at a major technology showcase in the US. The patented RST technology was selected ahead of 90 finalists from 11 countries due to the wide range of potential valuable applications for the technology and the few remaining barriers to commercialization. With the technology now “out of the lab” Alexium is well on the way to justifying this prestigious accolade.

The article has been written in cooperation with Alexium International.





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# Company Fact Sheets



## Alexium, Ratios



◇ Symbol, ASX	AJX
◇ Website:	<a href="http://www.alexiuminternational.com">www.alexiuminternational.com</a>
◇ Market Capitalization	AU\$ 13 Mio.
◇ Revenues Year to Date (HJ)	AU\$ 0.0 Mio.
◇ Total Comprehensive Income (Loss) (HJ)	(-AU\$ 1.76 Mi.)
◇ Cash and Cash Equivalents: December 2010	AU\$ 1.86 Mi.

Source: Alexium Half-Year Financial Report, 31 December 2010

## Chart & SRI-Highlights



Source: Comdirect, Stock Exchange Sydney, 07 April

- ◇ New multi-functional materials produced in seconds
- ◇ "Clean" microwave chemistry replaces heat
- ◇ Very low energy use
- ◇ No harmful solvents
- ◇ Multiple properties grafted in one coating
- ◇ Lower water use and very limited waste
- ◇ Lower carbon footprint for producers
- ◇ Low surface energy coatings

## Field of Activity & News

Alexium was founded to commercialize a reactive surface treatment process originally developed by the U.S. Air Force. Leveraging approximately \$30 million by the US Department of Defense (DoD) to develop the technology, Alexium acquired the technology from the DoD to produce solutions for commercial and military customers. Alexium has formalized these relationships under exclusive patent licenses and Cooperative Research and Development Agreement (CRADA). Alexium continues to expand its Intellectual Property (IP) portfolio.

- ◇ 05 April 2011: Alexium Asked to Present at Small Cap Forum in Frankfurt  
<http://www.asx.com.au/asxpdf/20110405/pdf/41xvmb39fhpv6x.pdf>
- ◇ 28 March 2011: Alexium Enters Into Collaborative Agreement (MoU) with ITG  
<http://phx.corporate-ir.net/External.File?item=UGFyZW50SUQ9ODcyMTJ8Q2hpGRJR0tMXxUeXB1PTM=&t=1>
- ◇ 24 March 2011: \$8 Million 3 Year Funding Commitment from Roswell Capital Partners  
<http://phx.corporate-ir.net/External.File?item=UGFyZW50SUQ9ODcyMTJ8Q2hpGRJR0tMXxUeXB1PTM=&t=1>
- ◇ 23 March 2011: Alexium CTO Presents at International Conference  
<http://phx.corporate-ir.net/External.File?item=UGFyZW50SUQ9ODcyMTJ8Q2hpGRJR0tMXxUeXB1PTM=&t=1>

## Download Annual Report & Presentation



Half Yearly Report and Accounts

[http://media.corporate-ir.net/media\\_files/irol/16/160861/2010AR.pdf](http://media.corporate-ir.net/media_files/irol/16/160861/2010AR.pdf)



Company Presentation

<http://www.asx.com.au/asxpdf/20110120/pdf/41w8h0q9sj5kp0.pdf>

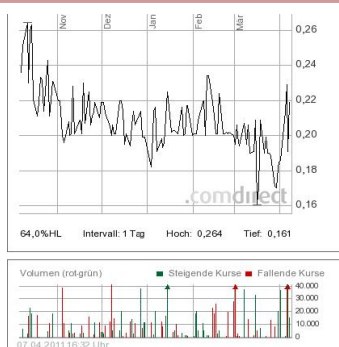
## ERA Carbon Offsets, Ratios



◇ Symbol: Frankfurt	9EA
◇ Website:	<a href="http://www.eraecosystems.com">www.eraecosystems.com</a>
◇ Operating Revenues Q09/10	CA\$ 20 Thou.
◇ EBITDA Q09/10	(- CA\$455 Thou.)

Source: TSX Quote Media

## Chart & SRI - Highlights



Source: Comdirect, Frankfurt Stock Exchange, 07 April

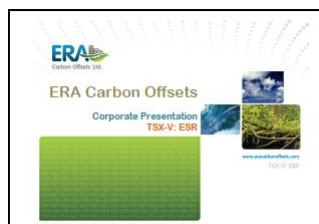
- ◇ Reforestation/Avoided Deforestation/REDD
- ◇ CO<sub>2</sub>-Reduction
- ◇ Local projects in Africa to build up the infrastructure and other needs for the local community
- ◇ Multiple social and environmental co-benefits

## Field of Activity & News

ERA Carbon Offsets is a Canadian-based pioneer in forest-based carbon offset programs and project development. Through its subsidiary, ERA Ecosystem Restoration Associates, ERA produces significant, measurable carbon sequestration benefits. These are validated and verified to international standards and sold to purchasers interested in offsetting their greenhouse gas footprints as a means of mitigating the effects of climate change.

- ◇ 04 April 2011: ERA Announces Signing of a 17.5 Million Tonne Carbon Offset Agreement With the Democratic Republic of Congo  
[http://www.eraecosystems.com/whats\\_new/company\\_news/index.php?&content\\_id=157](http://www.eraecosystems.com/whats_new/company_news/index.php?&content_id=157)
- ◇ 28 January 2011: ERA Carbon Offsets Shareholders Update  
[http://www.eraecosystems.com/whats\\_new/company\\_news/index.php?&content\\_id=156](http://www.eraecosystems.com/whats_new/company_news/index.php?&content_id=156)
- ◇ 06 Jan 2011: ERA Carbon Offsets Ltd. Announces Mr. Steve Baczko as Director of Commercialization  
[http://www.eraecosystems.com/whats\\_new/company\\_news/index.php?&content\\_id=155](http://www.eraecosystems.com/whats_new/company_news/index.php?&content_id=155)

## Download Presentation & Video



### Company Presentation

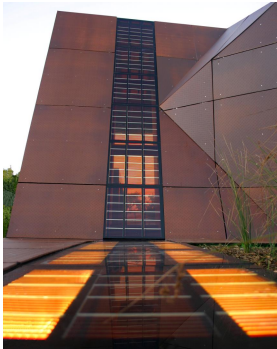
[http://www.eraecosystems.com/\\_resources/ERA\\_Carbon\\_Offsets-Presentation\\_May\\_18\\_2010.pdf](http://www.eraecosystems.com/_resources/ERA_Carbon_Offsets-Presentation_May_18_2010.pdf)



### Dr. Robert Fall, CEO

[www.ceodlips.com/media/EraEcosystems.asx](http://www.ceodlips.com/media/EraEcosystems.asx)

## Dyesol, Ratios



◇ Symbol: ASX	DYE
◇ Website:	www.dyesol.com
◇ Market Capitalization (7 April)	A\$ 114.3 Mio.
◇ Revenue for Half-Year Ended 31 Dec 2010:	A\$ 852 Thou.

Source: Dyesol Half-Year Financial Report (Ended 31 December 2010)

## Chart & SRI - Highlights



Source: Comdirect, ASX, 5 April

- ◇ Commercialization of dye solar cells
- ◇ Leading supplier of 3rd generation solar technology
- ◇ Lowest embodied energy of any solar technology
- ◇ Minimized energy and water usage in manufacturing operations

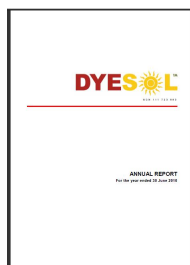
## Field of Activity & News

Dyesol works in the commercialization of dye solar cells for energy production. Dyesol develops & produces materials that are necessary for dye solar cells. Dyesol market test and lab instruments and provide consulting & technical services.

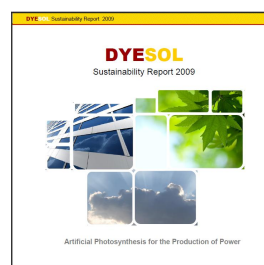
Dyesol operates in the B2B area. For example, Corus - the worlds fifth biggest steelmaker - and Dyesol in a joint production plant work together to produce steel using a dye solar cell coating technology that will produce power.

- ◇ 1 April 2011: Tata Steel, LCRI Invest in Energy from Buildings Research  
<http://www.dyesol.com/index.php?element=DYE110401+-+SBEC+Opening+final.pdf>
- ◇ 30 March 2011: Dyesol and Tata Steel Move to Next Phase in Photo-voltaics Project  
<http://www.dyesol.com/index.php?element=DYE110330+-+TataDyesol.pdf>
- ◇ 7 March 2011: Dyesol Welcomes New Director  
<http://www.dyesol.com/index.php?element=DYE110307+-+Dyesol+welcomes+new+Director.pdf>

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 **Annual Financial Report 2010**  
<http://www.dyesol.com/index.php?element=2010+Annual+Report+complete.pdf>



 **Dyesol Sustainability Report**  
[http://www.dyesol.com/index.php?element=Sustainability\\_Report\\_Dyesol\\_ER4.pdf](http://www.dyesol.com/index.php?element=Sustainability_Report_Dyesol_ER4.pdf)



# Fairs & Congresses

## European Sustainable Investment Strategy Meeting

**12-13 April 2011**

**Amsterdam, Netherlands**

This event brings together senior level executives to connect with others at the senior level, discover new sites of potential collaboration, exchange knowledge and discuss future development strategies.

### QUICK FACTS

WHEN?

12-13 April 2011

MORE INFORMATION

<http://www.ibdg.co.uk/business-development-and-strategy-meetings/>

WHERE?

Amsterdam, Netherlands

CONTACT

[izabela.janecka@ibdg.co.uk](mailto:izabela.janecka@ibdg.co.uk)

## EBAN 11th Annual Congress

**12-13 May 2011**

**Warsaw, Poland**

This event is organized by Lewiatan Business Angels. It has emerged over the last ten years as a premier opportunity for top-class networking and learning opportunities. This year's congress is expected to be the largest yet. 350 potential participants involved in financing or supporting innovative businesses in their early stage have already been invited.

### QUICK FACTS

WHEN?

12-13 May 2011

MORE INFORMATION

<http://www.ebancongress2011.eu/>

WHERE?

Warsaw, Poland

CONTACT

[info@tbli.org](mailto:info@tbli.org)

## Sustainable Emerging Markets

**24-25 May 2011**

**London, UK**

Hosted by C5 and Responsible Investor, this event grants participants access to the insights of market leaders. Environmental, social and corporate governance (ESG) factors are especially important risk & return criteria in emerging markets. This event will inform participants through "hands-on" experience in an interactive learning environment.

### QUICK FACTS

WHEN?

24-25 May 2011

MORE INFORMATION

[http://image.excd.net/lib/fe31178736702/d/1/609F11\\_E\\_.pdf](http://image.excd.net/lib/fe31178736702/d/1/609F11_E_.pdf)

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