



# Being Green



**CINTELLATE**

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## Support for Sustainability

Sustainable Development is a global initiative defined by the UN-sponsored World Commission on Environment & Development as,

*“development that meets the needs of current generations without compromising the ability of future generations to meet their needs and aspirations”*

By its very nature, this subject requires understanding and management of the ongoing balance between economic, social and environmental factors.

Whilst Sustainable Development is a complex topic, the subset concept of Corporate Sustainability Management (CSM) defines a more localized and specific view of the contribution that individual organizations can make towards Sustainable Development, typically encompassing corporate governance, risk management, environmental, social and human factors and fundamentally relating itself to triple bottom line (TBL) reporting.

The ability to protect reputation, brand equity, a company’s license to operate and ultimately realize cost savings are clear business drivers for CSM, together with the ability to attract, motivate and retain talented employees. There is increasing evidence that responsible companies often carry lower risk and are better positioned for long-term performance than less enlightened peers<sup>1</sup>, and investors are becoming increasingly aware that the links between sustainability management and long-term performance can add value to investments in all industries. As a result, indices such as the Dow Jones Sustainability Index (DJSI)

make strong reference to the fact that there is growing market demand to apply the concepts of CSM across the entire equity market.

Market analysis conducted by CINTELLATE’s Strategic Team substantiated that CSM must be thoroughly embraced and integrated into each and every company activity in order to raise awareness and promote considered action to maximize the opportunities presented by CSM. To date, however, organizations have been constrained in doing so by a lack of off-the-shelf tools to support such initiatives. Download a copy of “Sustainability Matters” by clicking on the banner.

CINTELLATE have long championed the benefits of managing related business processes in an integrated manner. The philosophy surrounding the effective management of the business processes encompassed by CSM represents a logical extension to the existing CINTELLATE suite. We believe that our new generation of software uniquely provides a common platform to schedule, record & report the results of all CSM activities for an organization and we have been working hard to enhance existing business processes and develop additional modules to address CSM in a manner that embeds it as part of day-to-day business.

Over the coming months, we will showcase a number of these modules. This month the limelight is on our enhanced GHG & Emissions Management module.

<sup>1</sup>What is socially responsible investing? – Joe Keefe, DragonFly Media, November 2004



# The Latest Thoughts on Climate Change

By Anthony Walker

The key message of the concluding communication from the Copenhagen Climate Science Congress attended by approximately 2000 scientists and others on 11-12 March 2009 reads:

*Recent observations confirm that, given high rates of observed emissions, the worst-case IPCC scenario trajectories (or even worse) are being realized. For many key parameters, the climate system is already moving beyond the patterns of natural variability within which our society and economy have developed and thrived.*

*These parameters include global mean surface temperature, sea-level rise, ocean and ice sheet dynamics, ocean acidification, and extreme climatic events. There is a significant risk that many of the trends will accelerate, leading to an increasing risk of abrupt or irreversible climatic shifts.*

*“...increasing risk of abrupt or irreversible climatic shifts.”*

And as the recent bush fires in Victoria, floods in Queensland and hurricanes in the USA would indicate, we are already paying a price (both financial and social) for the increase in frequency and severity of natural catastrophes, a sentiment that is backed up in figures by Swiss RE<sup>1</sup>, one of the worlds largest reinsurance companies.

*“...there is no excuse for inaction.”*

Not all governments, boards or individuals agree with the science of climate change but nevertheless it is a major economic, political, environmental and corporate issue and as highlighted further by the Copenhagen Congress:

*There is no excuse for inaction. We already have many tools and approaches: economic, technological, behavioral, management to deal effectively with the climate change challenge. But they must be vigorously and widely implemented to achieve the societal transformation required to decarbonize economies. A wide range of benefits will flow from a concerted effort to alter our energy economy now, including sustainable energy job growth, reductions in the health and economic costs of climate change, and the restoration of ecosystems and revitalization of ecosystem services.*

The good news is that we have successfully tackled emissions-based issues before, such as smog, acid rain and CFCs. All have been significantly improved with negligible net financial cost to society. However, history tells us that some form of Government intervention (often unilateral in the first instance) is required to catalyze the extent of behavioral change required.

1. Swiss RE [http://www.swissre.com/pws/media%20centre/news/news%20releases%202008/pr\\_sigma\\_20081218.html](http://www.swissre.com/pws/media%20centre/news/news%20releases%202008/pr_sigma_20081218.html)

# Climate Change Challenge for the US

*By Vivienne H-Rigney*

The priorities for the newly formed U.S Government are many, and in seeking to steward America into a new era of responsibility<sup>1</sup>, 2009 is an important year in which America can make its mark, none more so than in the realms of climate change.

Proposed priorities include economic stimulus in the form of massive investment in infrastructure, planned health care reforms, and a pronounced focus on the issue of climate change and carbon management. The current proposal is to ensure that 10% of America's electricity comes from renewable sources by 2012, and 25% by 2025. Additionally, the goal of an 80% cut in greenhouse gas (GHG) emissions by 2050 by investing \$150bn in alternative fuel over the next 10 years, and introducing a cap and trade scheme to reduce GHG emissions<sup>2</sup>.

Practical applications and outcomes of a cap and trade scheme have been posited previously by Fred Krupp, president of the Environmental Defence Fund. In a recent interview with Time Magazine, Mr Krupp proffers that putting a price on carbon (especially in the fossil-fuel-intensive airline industry) will improve the perceptions and feasibility of renewable energy sources, while setting a ceiling for carbon output which allows companies that come in under the limit to sell credits to those that don't, thus creating a carbon credit economy. The flow-on effect is that carbon levels fall, and businesses will find there is money to be made in being greener than their competitors<sup>3</sup>.

In the short term, the economic stimulus package is likely to fast track 400 wastewater projects valued at US\$6bn – projects which otherwise would have remained on hold due to a lack of funding. These initial efforts toward synergizing efficient energy use and infrastructure delivery may well be the historic first steps in America's plan for a 'green' economy<sup>4</sup>.

## **The Impact on the States**

The obvious truth about the U.S is that it is a diverse country; federal plans and proposals must take into account the unique needs of individual states – be they heavily reliant upon non-renewable fuel supplies and associated infrastructure, or able to directly benefit from the opportunities presented by a green economy. The unanimous adoption of green policies across the many states and territories within its borders will be the true litmus test of America's ability to lead the world in this battle against climate change. In particular, cap and trade schemes are experiencing a groundswell of support, with individual states and groups of states (such as the Northeast, where regional GHG trading blocs are being launched) committing to mandatory carbon caps at an encouraging pace<sup>3</sup>.

## **Objections?**

The ostensible objection to a cap-and-trade system is the question of economic growth; how does the scheme impact the bottom line? California serves as an example of such a scheme that is fully approved and implemented, with little detriment to economic growth. Law AB 32 is the country's most aggressive GHG legal instrument, and seeks to achieve a reduction of emissions by 25% by 2020.

A possible side effect of the scheme in its current State-by-State implementation is that it may see local business departing to unregulated states, particularly if any one state begins to surge ahead in its carbon emission capping levels. This reinforces the importance of a national cap, as it prevents certain industries and companies being pushed out of their home states, and will enhance the ability of the scheme to reach proposed national objectives<sup>3</sup>.

The measurable outcomes may be unknown at this early stage, but the message is loud and clear: policies, practices and leadership are expected to benefit not only the society, but also aid in ensuring the future of the planet for all subsequent generations.

1 Randerson, J. The Guardian (Online), January 20, 2009. <http://www.guardian.co.uk/environment/blog/2009/jan/20/obama-inauguration-climatechange>

2 Deveson, M. BBC News (Online), January 5, 2009. <http://news.bbc.co.uk/2/hi/americas/7793045.stm>

3 Walsh, B. Time (Online), April 16, 2008. [http://www.time.com/time/specials/2007/article/0,28804,1730759\\_1731383\\_1731363,00.html](http://www.time.com/time/specials/2007/article/0,28804,1730759_1731383_1731363,00.html)

4 Environmental Expert.com, February 12, 2009. [http://www.environmental-expert.com/newsletter/News\\_Water\\_12022009](http://www.environmental-expert.com/newsletter/News_Water_12022009).

# The Australian Perspective

The National Greenhouse and Energy Reporting (NGER) Act 2007 was introduced to establish a national framework for GHG emissions, reductions, removals and offset reporting in Australia, starting 1 July 2008 and reporting due in October 2009.

The key features of the NGER Act 2007 are:

- Removing duplication of reporting requirements across state, territory and national schemes by providing a single electronic portal for all GHG reporting in Australia called the Online System for Comprehensive Activity Reporting (OSCAR).
- Creating a robust, verifiable reporting mechanism to form the basis of the Carbon Pollution Reduction Scheme (CPRS).

- Central reporting of abatement and offsets prior to the introduction of CPRS. Providing public disclosure of company level information on GHG and energy performance.

For further details on NGER Act 2007, click on the banner:



Feedback from CINTELLATE's clients through a number of state based GHG forums hosted by CINTELLATE and focused meetings over the past months, indicated that industry within Australia has responded positively to the NGER's legislative instrument.

Organizations have knuckled down and made great strides in responding to the requirements leading up to submission for the first reporting period in the prescribed format. Most agree that the increased rigor introduced in terms of reporting accuracy will also drive improved understanding and behavior in the short-term.

Unfortunately progress towards the successful introduction of the proposed CPRS has waned somewhat over the past months. At a conceptual level, support for Australia's version of a cap and trade system is still strong but solid leadership will be required to align implementation options and set meaningful targets.



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## How Can CINTELLATE Assist?

Many organizations are actively scrutinizing the way they address climate change - some in response to legislation, some in response to Corporate Sustainability Management (CSM), some in response to an anticipated increase in carbon regulation, some in response to voluntary schemes and some for other reasons – but the point is that they are doing it. The old mantra “you can't manage what you can't measure” has enormous applicability in this case.

At CINTELLATE, we believe that our recently launched extended Carbon Emissions Management solution can, and will, contribute to the overall climate change cause as it directly assists in the “measuring” and “managing” sphere. Most organizations today use MS Office solutions, such as spreadsheets to measure and track carbon emissions, which more often than not become unmanageable and often fail from an audit perspective, which is an increasingly important aspect of carbon emissions management as global accounting frameworks and standards are applied.

*“you can't manage what you can't measure.”*

CINTELLATE assists in progressing organizations with the development of an enterprise level solution through our GHG and Emissions Management process. We believe that CINTELLATE Carbon Emissions Management module effectively incorporates many forms of corporate social responsibility reporting requirements with a practical, auditable, robust capture within an integrated solution.

# New Clients

We would like to extend a warm welcome to some of our new clients worldwide.



Gold Fields Limited is one of the world's largest unhedged producers of gold with eight operating mines in South Africa, Ghana, Peru and Australia. Gold Fields strives to achieve outstanding returns for investors by optimizing existing operations and aggressively pursuing and developing additional world-class deposits, promoting mutually beneficial relationships and applying best practice technology.

Leighton Contractors is a wholly owned subsidiary of the Australian publicly listed company, Leighton Holdings Limited. Leighton Contractors employ over 9,000 people with operations in construction, mining, telecommunications and industrial services. Its clients and partners include some of Australia's highest profile blue chip companies, as well as technical services providers, financial institutions and government bodies.



Coogee Resources is an Australian oil and gas unlisted public company, with 2P oil reserves of 41.2 million barrels. The Company has an attractive portfolio of production, development and exploration assets all located within the low sovereign risk Australian waters of the Timor Sea off the north coast of Western Australia. On the 24th of December 2008, Coogee Resources Limited signed a Share Sale Agreement to become a wholly owned subsidiary of PTT Exploration and Production Public Company Limited ( PTTEP ).



Lihir Gold Limited (LGL) is a leading global gold company with operations in Papua New Guinea, Australia and West Africa. The company's flagship operation is one of the world's largest gold mines and processing facilities located on the island of Lihir, in New Ireland province of Papua New Guinea. In Australia, LGL is developing an underground mine and process plant at the historic gold mining centre of Ballarat.

OZ Minerals is now Australia's third largest diversified mining company with the merger of Oxiana Limited and Zinifex Limited. Having worked with Zinifex Limited in the past, CINTELLATE was provided the opportunity to continue working with Zinifex with a corporate roll out across both companies. Currently CINTELLATE is in operation at the following 4 sites: Melbourne, Century, Rosebery and the new site Prominent Hill.



## Featured Staff



### *Anthony Walker, Strategic Business Development Manager*

My passion for technology is only slightly out-weighed by my passion for conservation, natural photography and greening the planet. I grew up in Southern Africa, surrounded by a “green” family, in constant contact with nature on our farm. To this day, my family rehabilitates wildlife and is involved with conservation practices in some way, shape or form. On the technological side, I have a Masters Degree in Geographical Information Systems (GIS) and technical background in software development. I have spent the last 10 years relating computer technology to Environmental, Health and Safety processes and workflows across many diverse business sectors. This focus has led me to many countries around the world and brought along with it some interesting experiences - the most memorable being an occasion when I found myself caught in a militant uprising in the deepest, darkest part of Africa.

I spent the first part of my professional life designing and implementing ISO14001 Environmental Management Systems for mining companies in Sub-Sahara Africa, and this led naturally to a focus on systems around environmental performance data management (Air, Water, Land and Waste), closely allied with spatial reporting and spatial interrogation. Much of my time was spent in closely integrating the laboratories with on-site EHS systems, including integrity checking, notification, exceedence management, SCADA / PLC integration etc. My passion for spatial systems meant a progression from this data management to interrogation using GIS.

I firmly believe that the electronic systems which clients implement have a tangible effect on the environment. As such, I have tended to gravitate towards organizations who have a green streak and care about the environment. CINTELLATE is one such company and one such product. My strategic work in the environmental area of CINTELLATE compliments my passion and desire to have a positive effect on the environment, and as such, I hope to provide our clients with cutting edge EHS & Risk management software solutions that meet their needs and address the challenges they face.

## Training Services Announcement

CINTELLATE is offering Training Services for all CINTELLATE users to help maximize the benefits of system usage within your organization. Visit <http://www.cintellate.com/services/training> for more information on our training support services, including course details and program schedule or email: [training@cintellate.com](mailto:training@cintellate.com).

## Feedback Request: [newsletter@cintellate.com](mailto:newsletter@cintellate.com)

We welcome any feedback or ideas you may have regarding our e-newsletter. Let us know what tickle your senses content-wise for the upcoming issues.

## Knowledge Sharing

We would like to invite you to share your knowledge in the area of EHS. Sharing knowledge can be in the form of an interview with you, jointly developing a case study, sending in an article, recommending relevant reading materials etc.

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