

# Carbon Management

PROFESSIONAL DEVELOPMENT COURSE

Brisbane, Australia  
20-21 August 2012



 INTERNATIONAL  
**Energy Centre**  
Leaders for a low carbon world

IEC Partners:



# Professional Development COURSES

The transition towards a low carbon future is one of the defining global challenges of our times. The effect of working in such an environment will impact on how industry and government address key business, societal and policy issues. This will require a more highly tuned and integrated approach than many organisations may have today and will require a more integrated leadership approach.

The International Energy Centre (IEC) is the trusted partner in Professional Development Courses. Through our partners and multidisciplinary approach, the IEC will be an industry leader in expert capability development and critical thinking through the delivery of world-class postgraduate education, targeted professional development training, innovative and knowledge management to meet the challenges at the nexus of energy, climate change and sustainability.

## Carbon Management Course

IEC is proud to present the Carbon Management Course. The course has been designed and tested over the past five years by our academic partner The University of Queensland. The course is refined and optimised for IEC delivery. The in-practice learning outcomes are suitable for participants with various levels of knowledge and pre-training in carbon and energy related fields.

The Carbon Management Course is delivered by industry experts and world renowned researchers. The delivery team has extensive experience in climate change policy, carbon and energy markets, business management, energy, forestry and sustainability.

## About the course

The course looks at carbon management in a global and regional context, before focusing on developing a toolkit, via practical learning exercises, to manage relevant Australian climate change legislation such as the National Greenhouse and Energy Reporting Act, Clean Energy Act (Carbon Pricing Mechanism), the Carbon Farming Initiative and Energy Efficiency Opportunities Act.

The course is relevant for Australian organisations of all sizes that recognise and wish to build capacity to manage the emerging risks and opportunities presented by domestic and global carbon markets. As an "end-to-end" management course it is valuable for participants from all backgrounds and of all levels of knowledge.

The course will include guest speakers from industry and government, and will conclude with a networking function following the emissions trading simulation on Day 2.

## CarbonGame (Emissions Trading Simulation)

Participants will engage in a series of business management tasks set in a fictional country called Tasland. Participants, assigned one of nine Taslandian companies, will manage the carbon compliance obligations for the company and will learn more about the challenges of developing a greenhouse gas emission inventory (carbon footprint), building a Marginal Abatement Cost Curve and cap-and-trade emissions trading.

The objective of the exercise is to give participants a better understanding of how the rules of a carbon pricing scheme influence supply and demand for carbon permits, and how those dynamics in turn influence how carbon prices are set and how the subsequent economics of compliance and abatement supports or constrains sustainable business practice. CarbonGame is run using the latest simulation technology, allowing for an engaging learning experience.



# Course Schedule

20-21 August 2012, Brisbane

## Day 1 - Monday 21 August 2012 8:30am to 5:30pm

### **Module 1 - Course Introduction**

This module will review the aims and objectives of the course

### **Module 2 - The Fundamentals of Climate Change**

This module will briefly discuss the latest developments in climate science and highlight the important role that anthropogenic greenhouse gas emissions play in climate change. The history of the Earth's climate will be presented, and predictions for the future discussed. The concept of 'a tCO<sub>2</sub>e' will be introduced.

### **Module 3 – Carbon Economics and Public Policy Options**

Climate change mitigation policy options include prohibition, manufacturing standards, taxes, renewable energy targets, incentives, land-use management and emissions trading schemes. This module will review the public costs and benefits of each of these options.

### **Module 4 – The United Nations Framework Convention on Climate Change (UNFCCC)**

This key international climate change mitigation policy agreement of 1992 will be reviewed briefly. This module will also provide an introduction to the Kyoto Protocol, including the context in which the protocol was developed and will investigate the Durban Platform, a newly agreed roadmap to establish an international legally enforceable regime by 2015 to reduce global emissions.

### **Module 5 – National and Regional Climate Change Policy and Carbon Markets.**

A stocktake of different climate change policies that are currently operating, or in the process of being implemented, at a regional and national level e.g. the EU-ETS, NZ-ETS, California ETS and Regional GHG Initiative. This module will also look at trends and issues facing carbon markets around the world.

### **Module 6 – Australian Climate Change Policy**

Australian climate change policy and implications for business will be explored in depth. This includes the Greenhouse and Energy Reporting Act, Clean Energy Act (Carbon Pricing Mechanism), Carbon Farming Initiative and Energy Efficiency Opportunities Act.

### **Practical Exercise 1 – Greenhouse Gas and Energy Reporting**

This module is a practical exercise, wherein participants will learn about international greenhouse gas and energy reporting standards and frameworks. They will then undertake a GHG emissions inventory of a hypothetical company set in a country called Tasland. Participants will be supplied with energy and other input data and will be asked to collate that data, and translate it into an emissions and energy inventory.

## Day 2 - Tuesday 22 August 2012 (8:30am to 6:30pm)

### **Module 7 – Carbon Offsets, Abatement and Project Appraisal**

This module will review the important role that carbon offsets will play for Australian Businesses who are directly or indirectly impacted by the Clean Energy Act. It will also look at the role of abatement projects (such as renewables, energy efficiency and fugitive emissions avoidance) in saving costs and reducing emissions. Importantly, the module will present participants with an effective understanding and framework of how to conduct financial and risk appraisal (Net Present Value etc) of these offset and abatement projects which is a precursor to developing a MACC.

### **Module 8 – Developing a Marginal Abatement Cost Curve**

A review will be conducted on the principles and methods of how to conduct a marginal abatement cost curve (MACC) at facility, organisation, community and national levels. MACCs are important because they provide an effective method for organizations to evaluate the relative costs and benefits of different emissions reduction strategies.

### **Practical Exercise 2 – Marginal Abatement Cost Curves.**

This will be followed by a practical exercise, wherein participants will be invited to develop a MACC for the Tasland company that they developed a carbon inventory for in the first Practical Exercise. Participants will be supplied with information on abatement options and the participants will be asked to calculate the marginal costs of various abatement options, and plot those abatement costs in the form of a MACC.

### **Practical Exercise 3 – CarbonGame (Emissions Trading Simulation)**

Participants will be assigned management responsibility for hypothetical companies that need to manage their cost of compliance under a hypothetical cap and trade type of emissions trading scheme. The exercise will run over three hours – each hour session representing one year in a three year period of compliance.

### **Networking Drinks**

## Cost

AU\$ 1,750.00 (inc GST) per participant. Includes morning tea, lunch, afternoon tea and networking drinks on Day 2.

## Venue

Lady Thieess Room, UQ Customs House, 399 Queens Street, Brisbane

The closest car park to Customs House is:

Secure Car Park

Emirates House

167 Eagle Street, Brisbane

Phone: 1300 727 483

[www.secureparking.com.au](http://www.secureparking.com.au)

## Course Registration

Course registrations can be made by completing the online registration form:

[www.internationalenergycentre.com/pdc](http://www.internationalenergycentre.com/pdc)

Note: Registrations close Tuesday 14 August 2012.

## Contact Details

If you have any questions or require assistance completing the online registration form, please contact us:

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