

Coal Mining Methane Abatement Seminar

An international seminar to consider technologies needed to safely avoid and reduce fugitive methane emissions from coal mining

**4 - 5 September 2012
InterContinental Hotel, Sydney, Australia**

**6 September 2012
Site Visit - Illawarra**

This free seminar covers...

- » the Australian Government's \$70 million coal mine methane abatement program
- » strategies to progress the development of key technologies
 - » monitoring and reporting greenhouse emissions
 - » methane avoidance through enhanced drilling and drainage systems
 - » using drainage gases
 - » capturing and using ventilation air methane
- » safety and compliance standards
- » inspection tour of the Appin Waste Coal Mine Gas Power Station and the West Cliff Ventilation Air Methane Power Station
- » displays by technology developers

Presented by...

The Global Methane Initiative and the Australian Government Department of Resources, Energy and Tourism



Australian Government
**Department of Resources,
Energy and Tourism**



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DAY ONE: Tuesday 4th September 2012

8:15	Seminar Registration: Level 2 Arcade area adjacent to the James Cook Ballroom
9:00	Session 1 and welcome: Policy drivers and international actions Purpose: <i>To consider policy drivers and international actions supporting the development and deployment of technologies to reduce fugitive methane emissions from coal mining</i>
9.00 - 9.05	Session Chair and Opening Comments <ul style="list-style-type: none"> • Wayne Calder, General Manager, Low Emissions Coal & CO2 Storage Branch, Department of Resources, Energy and Tourism (RET)
9.05 - 9.30	Welcome Address: Drew Clarke , Secretary, Department of Resources, Energy and Tourism (RET)
9.30 - 9.50	<ul style="list-style-type: none"> • Felicia Ruiz, US EPA Coalbed Methane Outreach Program; and Co-Chair of GMI Coal Subcommittee
9.50 - 10.10	<ul style="list-style-type: none"> • Mr Sun Qinggang, Deputy Director, Energy Division, China Coal Information Institute
10.10 - 10.30	<ul style="list-style-type: none"> • Jonathan Habjan, Resources Officer, United States Embassy, Canberra
10.30 - 10.40	QUESTIONS
10.40 - 11.00	Morning Tea
	Session 2: Avoiding methane emissions in ventilation air Purpose: <i>To consider the status and role of indirect methane abatement technologies such as methane drainage, mine design and ventilation practices</i>
	Session Chair: Trevor Stay , General Manager, Gas and Carbon, Anglo American Metallurgical Coal
11.00 - 11.20	'Gas Capture Maximisation' approach for avoiding methane emissions in ventilation air <ul style="list-style-type: none"> • Dr Rao Balusu, Group Leader, Mining Systems, CSIRO
11.20 - 11.40	Role of coal seam gas industry in supporting pre-drainage of coal seams ready for mining <ul style="list-style-type: none"> • Derek Hannigan, General Manager Strategic Mining Ventures, Arrow Energy and • Bill Koppe, Mining Co-development Advisor, Arrow Energy
11.40 - 12.00	US industry experience in pre-drainage <ul style="list-style-type: none"> • Ray Pilcher, President, Raven Ridge Resources
12.00 - 12.20	QUESTIONS
12.20 - 1.20	Lunch
	Session 3: Progress in developing ventilation air methane (VAM) technologies Purpose: <i>To consider the role of direct VAM abatement technologies and progress in developing new technologies and processes for reducing and using VAM</i>
	Session Chair: Jim Sandford , Manager Gas Projects, Xstrata Coal
1.20 - 1.40	A Technical Overview of VAM mitigation technology platforms <ul style="list-style-type: none"> • Prof Behdad Moghtaderi, Deputy Director, PRCFE, University of Newcastle
1.40 - 2.00	VAMCAT trials in China, other work by CSIRO to use VAM including future potential technologies and solutions <ul style="list-style-type: none"> • Dr Shi Su, Research Leader, CSIRO
2.00 - 2.20	Lean gas burn turbine system <ul style="list-style-type: none"> • Yoshihiro Yamasaki, Industrial Gas Turbine Engineering Department, Kawasaki Heavy Industries, Japan
2.20 - 2.40	VAM regenerative after burner technology <ul style="list-style-type: none"> • Rodney Peet, Business Manager, Corky's Sustainable Energy
2.40 - 2.50	QUESTIONS

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2.50 - 3.10	Afternoon Tea
	<p>Session 4: Waste coal mine gas power station project experience Purpose: <i>To provide feedback on experience at operating coal mines in using drainage gases and capturing/using VAM</i></p>
	Session Chair: Troy McDonald , Asset President, Illawarra Coal
3.10 - 3.30	<p>Experience in managing and operating waste coal mine gas power stations, experience in using VAM and ways forward</p> <ul style="list-style-type: none"> • Keith Barker, General Manager - Vent Air Methane, Energy Developments Ltd (EDL)
3.30 - 3.50	<p>WestVAMP and China project</p> <ul style="list-style-type: none"> • Richard Mattus, Managing Director, Megtec, Sweden, WestVAMP and China Projects
3.50 - 4.10	<p>Full-Scale VAM abatement in the USA and China</p> <ul style="list-style-type: none"> • Jim Stone, Senior Key Account Manager, Dürr Systems, Inc, USA
4.10 - 4.30	QUESTIONS & Wrap up of Day One
5.30 - 7.30	Welcome Reception, Treasury Room, InterContinental Hotel
DAY TWO: Wednesday 5th September 2012	
9.00 - 9.05	Welcome
	<p>Session 5: Health, safety and regulatory requirements and processes Purpose: <i>To consider mine safety and regulatory issues that need to be incorporated into the development and deployment of methane abatement technologies and work that is being done to identify and address additional risks</i></p>
	Session Chair: Paul Harrison , Executive Director, Simtars
9.05 - 9.25	<p>New South Wales coal mines safety inspectorate/regulatory authority</p> <ul style="list-style-type: none"> • Rob Regan, Director, Mine Safety Operations, NSW Trade and Investment
9.25 - 9.45	<p>Queensland coal mines safety</p> <ul style="list-style-type: none"> • Ken Singer, Deputy Chief Inspector of Coal Mines, Queensland, Department of Natural Resources and Mines
9.45 - 10.05	<p>Study on identifying and managing risks with coal mine methane abatement technology</p> <ul style="list-style-type: none"> • John Pala, Managing Director, Palaris and • Stan McDonald, Senior Engineering Projects Manager, Palaris
10.05 - 10.25	QUESTIONS
10.25 - 10.50	Morning Tea
	<p>Session 6: Measuring and monitoring emissions Purpose: <i>To share lessons learned in developing greenhouse gas reporting methodologies and consider advances in technology for measuring methane emissions</i></p>
	Session Chair: Dr John Carras , Director, Advanced Coal Technology, CSIRO
10.50 - 11.20	<p>Advances in measuring emission from open cut coal mines</p> <ul style="list-style-type: none"> • Dr Andrew Feitz, Section Leader - Greenhouse Gas Monitoring, Geoscience Australia
11.20 - 11.40	<p>Drivers for effective and accurate measuring and monitoring of emissions</p> <ul style="list-style-type: none"> • Jim Sandford, Underground Mining Manager, Xstrata Coal
11.40 - 12.00	<p>Methodologies for reporting greenhouse gas emissions from coal mining</p> <ul style="list-style-type: none"> • Rob Sturgiss, Assistant Secretary, National Inventory Systems and International Reporting Branch, Department of Climate Change and Energy Efficiency
12.00 - 12.20	QUESTIONS
	Session Chair: Ray Pilcher , President, Raven Ridge Resources
12.20 - 1.10	<p>Session 7: Closing Session Purpose: <i>Session Chairs to provide closing comments covering the Seminar as a whole</i> Panellists: Session Chairs and US Co-Chair of the GMI</p>
1.10 - 1.20	Closing Statement: Wayne Calder , General Manager, Low Emissions Coal & CO2 Storage Branch, RET
1.20 - 2.20	Lunch
1.30 - 6.00	<p>Global Methane Initiative Coal Subcommittee Meeting Agenda on following page</p>

GLOBAL METHANE INITIATIVE COAL SUBCOMMITTEE MEETING - PRELIMINARY AGENDA

Held in conjunction with Australia's Coal Mining Methane Abatement Seminar

InterContinental Hotel Sydney, Australia

5 September 2012, 1:30pm

1.30pm	Welcome
	<ul style="list-style-type: none"> • Co-Chair Felicia Ruiz (USA), Co-Chair Huang Shengchu (China), Co-Chair A.K. Singh (India) • Brief introduction of all meeting participants • Adoption of agenda
1.45pm	Update from the Administrative Support Group (ASG) <i>Monica Shimamura, Co-Director ASG</i>
	<ul style="list-style-type: none"> • New activities • GMI Partner Country Action Plans • Coordination with Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants • Overview of Methane Expo 2013: 12-15 March 2013, Vancouver, Canada
2.30pm	Coal Mines Sector Plans for Methane Expo 2013 in Vancouver, Canada <i>Ray Pilcher, Raven Ridge Resources</i>
	<ul style="list-style-type: none"> • Planning for technical and policy sessions • Showcasing coal mine methane project opportunities
3.30pm	Break
4.00pm	Updates from Partner Countries
	<i>Brief updates (5-10 minutes each) from Partner country delegates regarding any new or planned activities. Partner countries should also provide status update on the implementation of country-specific/sector-specific national Action Plans</i>
	Update from Project Network
	<i>Brief updates (5 minutes each) from Project Network members regarding activities or new developments in 2012</i>
5.30pm	Action Items and Review <i>Felicia Ruiz, Co-Chair</i>
	<ul style="list-style-type: none"> • Updates to Coal Mine Technology Database • Coal Subcommittee Action Plan • Action items for next Coal Subcommittee Meeting in Vancouver, Canada
6.00pm	Adjourn

DAY THREE: Thursday 6th September 2012

Site Visit: Illawarra (approx. 90mins from Sydney)

8.30	Bus departs InterContinental Hotel
10.00 - 11.30	West Cliff Colliery and WestVAMP VAM project: The WestVAMP VAM processing plant uses MEGTEC technology and uses VAM for electricity generation.
11.30 - 1.00	Appin Waste Coal Mine Gas (WCMG) power station: Located approximately 10 mins from the West Cliff Colliery and the West VAMP project, the Appin WCMG power station uses the WCMG from the Appin and Tower mines to fuel a 97 MW power station. This power station also has infrastructure that can be used to support VAM use
1.30 - 2.30	Lunch - Appin Site
2.30	Depart Appin site. (The bus will return to Sydney via the airport (domestic and international terminals). The estimated arrival time at will be 4.30 pm at the Sydney domestic airport; 4.45 pm at the international terminal, and approximately 5.15 pm in the city)

The site tour is being organised in conjunction with Illawarra Coal, owner and operator of the West Cliff and Appin/Tower collieries; Energy Developments Ltd, owner and operator of the Appin/Tower WCMG power station and operator of the West Cliff power station; and MEGTEC, the provider of the VAM technologies for the WestVAMP project

COAL MINING METHANE ABATEMENT 4-6 SEPTEMBER - REGISTRATION FORM

Register online at www.tmm.com.au

or complete this form & send to The Meetings Manager Fax: +61 2 9810 7320 or Email meetings@tmm.com.au

There is not cost to attend this seminar

TITLE (eg Dr, Mr, Mrs) _____ PREFERRED NAME FOR NAME BADGE _____

FIRST NAME _____ LAST NAME _____

JOB TITLE/POSITION _____

ORGANISATION _____

ADDRESS _____

CITY _____ STATE/PROVINCE _____ POST CODE/ZIP CODE _____

COUNTRY _____ TELEPHONE _____ MOBILE _____

EMAIL _____

Accommodation: InterContinental Sydney, 117 Macquarie Street, Sydney A number of superior city side rooms are available for seminar delegates at a special rate of AU\$265.00 room only. Please specify your arrival and departure dates below.

Please note: Accommodation required before the 3rd and after the 5th is subject to availability and may incur an additional cost. A credit card will be required to guarantee the booking. Your credit card will be passed to the hotel and you will be responsible for payment of your account directly to the hotel on departure. Check-in is 3:00pm and Check-out is 11:00am.

Hotel's cancellation policy: Cancellation of your accommodation within 7 days of your arrival date will incur the full cost of your accommodation booking.

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Please charge the following credit card: Mastercard Visa Amex Diners

Card number *(these details MUST be provided if you are booking accommodation)*

Expiry date _____ / _____ CCV No. _____

Signature _____ Cardholders name _____

(Please Print)

Welcome Reception: 4th September, InterContinental Hotel, Treasury room 5:30 - 7:30pm

I will be attending the Welcome Reception I will not be attending the Welcome Reception

GMI Subcommittee meeting: 5th September 1:30 - 6:00pm (for more information - <http://www.globalmethane.org/gmi/>)

Are you also attending this meeting? Yes (as country member) Yes (as project network member) No

I will only be attending the GMI Subcommittee meeting & not the seminar

Site tour: BHP Billiton, Appin - 6th September (limited to 40 places*) CURRENTLY FULL.

Please waitlist me for the site tour I will not be attending the site tour

Our Privacy Policy: By registering for this conference, relevant details will be held on a database by Department of Resources, Energy & Tourism and The Meetings Manager. An attendee list will be provided to all participants (name, position and organisation only). If you do not wish your information to be used in this manner, please advise The Meetings Manager.