

ENERGY MANAGEMENT WORKSHOP

“The Fuel Gas Challenge” Increasing Revenue through Fuel Gas Savings & Methane Emissions Reduction



“The largest untapped source of energy is the energy we waste.”

Hon. Gary Lunn, Minister of Natural Resources - October 2006

UPSTREAM OIL AND GAS FACILITY ENERGY AUDITS, FUEL GAS PRACTICES & BENCHMARKING

ATTEND AN INTERACTIVE WORKSHOP WHERE PLANT OPERATORS, ENGINEERS, REGULATORS, AND PLANT MANAGERS WILL DISCUSS:

- BENEFICIAL TECHNOLOGIES AND INNOVATIONS
- FORWARD-LOOKING PROFITS FROM INTEGRATED AUDITS™
- IMPACT OF REGULATORY INITIATIVES AND GOVERNMENT THINKING

**THIS IS YOUR OPPORTUNITY TO DETERMINE HOW TO
INCREASE YOUR PROFITS
BY IMPROVING OPERATIONAL EFFICIENCY
AND AT THE SAME TIME
REDUCE GHG EMISSIONS.**

DATE: January 15-17, 2007 (Monday Evening to Wednesday Afternoon)

FEE: WORKSHOP FEE \$750. Space is limited.

LOCATION: Delta Lodge at Kananaskis. Accommodation and meals cost approximately \$450 for 2 days.

Register at <http://www.ptac.org/shop>

For more information, email jlukacs@cetacwest.com



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Canada**

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ENERGY MANAGEMENT WORKSHOP

“The Fuel Gas Challenge”

Increasing Revenue through Fuel Gas Optimization & Methane Emissions Reduction

January 15 - 17, 2007

<u>Monday, January 15th</u>		
3:00 p.m.	<u>Registration</u>	
7:30 p.m.	WORKSHOP OPENING REMARKS <ul style="list-style-type: none"> • Welcome • The Workshop Process • Introductions of Participants 	Joe Lukacs, CETAC-WEST Eric Lloyd, PTAC Roger Fernandez, EPA, Methane to Markets Blaine Lee, Leemartin Associates John Sames, Sulphur Experts
8:30 p.m.	<i>Social/Mixer</i>	*****

<u>Tuesday, January 16th</u>		
7:30 a.m.	<i>Coffee & Muffins</i>	*****
	<u>Eco-Efficiency Program for the Upstream Oil & Gas Sector</u>	FACILITATOR: Blaine Lee/John Sames
8:00 a.m.	THE BEST FROM THE INTEGRATED AUDITSTM Observations From the Eco-Efficiency Program <u>Panel Presentations</u> <ul style="list-style-type: none"> ▪ Amine Sweetening ▪ Refrigeration Systems ▪ Sulphur Recovery/Incineration ▪ Utility Systems ▪ Energy Monitoring and Tracking ▪ Leak Detection and Repair ▪ Industry Comments 	Joe Lukacs, CETAC-WEST John Sames, Sulphur Experts <u>Expert Panel</u> Ben Spooner, Amine Experts Neil Franklin, Tartan Engineering Jamie Swallow, Sulphur Experts Nev Hircock, N.C. Hircock Process Consulting Brian Tyers, Stantec Consulting Marline Smith, Clearstone Engineering <u>Industry Panel</u>
10:00 a.m.	<i>Coffee Break</i>	*****

Tuesday, January 16th

	<u>Eco-Efficiency – Cont’d.</u>	FACILITATOR: Blaine Lee/John Sames
10:30 a.m.	<p>ENERGY BENCHMARKING IN THE UPSTREAM OIL & GAS INDUSTRY</p> <p>Observations from the Benchmarking Program</p> <p><u>Panel Discussion</u></p> <ul style="list-style-type: none"> • How do we apply this in operations? 	<p>Al Wakelin, Sensor Environmental</p> <p><u>Panel</u></p> <p>Roy Kanten, Shell Canada Rod Sikora, Keyera Energy Steve O’Connell, Devon Energy</p>
11:00 a.m.	<ul style="list-style-type: none"> • Process Optimization – The Way Forward • Unit Operations Optimization Tools <ul style="list-style-type: none"> ▪ Amine Sweetening ▪ Glycol Dehydrators ▪ Methane Savings from Dehydrators and Compressors ▪ Cusum – “A Monitoring Tool” 	<p>Ben Spooner, Amine Experts Rod Leland, RCL Environmental Donald Robinson, ICF Consulting</p> <p>Brian Tyers, Stantec Consulting Ltd.</p>
12:00 p.m.	<i>Lunch Break</i>	*****
	<u>Eco-Efficiency - Fuel Gas Practice</u>	FACILITATOR: Blaine Lee/John Sames
1:30 p.m.	<p>FUEL GAS FIELD SURVEY</p> <ul style="list-style-type: none"> ▪ “The Fuel Gas Challenge” ▪ Fuel Gas Consumption and Measurement 	<p>Al Wakelin, Sensor Environmental Don Gabruck, Consultant</p>
2:00 p.m.	<p>FUEL GAS PRACTICES IN THE UPSTREAM OIL & GAS SECTOR</p> <ul style="list-style-type: none"> ▪ Regulatory Requirements – Directive 17 ▪ Industry Expectations ▪ Management Processes 	<p><u>Panel Discussion</u></p> <p>Jim Spangelo, Alberta EUB John Squarek, CAPP Don Gabruck, Consultant</p>
2:30 p.m.	<p>FUEL GAS MANAGEMENT</p> <p>Case Studies</p> <ul style="list-style-type: none"> ▪ Fuel Gas Minimization – “A Plant Wide Strategy” ▪ Methane Savings from Directed Inspection and Maintenance in Compressors 	<p>Chad Wilson, Talisman Energy, Edson Gas Plant Jim Cormack, TransCanada Pipelines</p>
3:30 p.m.	<i>Coffee Break</i>	*****
	<u>Technology Demonstrations</u>	FACILITATOR: Blaine Lee/Eric Lloyd
3:45 p.m.	<ul style="list-style-type: none"> • Firetube Heaters & Other Initiatives • Energy Audit Assistance 	<p>Phil Croteau, Petro-Canada Bruce Peachey, New Paradigm</p>
4:30 p.m.	<i>Energy Break</i>	*****
	<u>Fuel Gas Management – The Efficiency Resource</u>	<u>Panel Discussion</u>
5:00 p.m.	<ul style="list-style-type: none"> ▪ Why Energy Conservation? ▪ Methane to Markets ▪ The Untapped Resource ▪ Clean Air - A Federal Perspective ▪ Fuel Gas Task Force – The Alberta Plan ▪ The Regulator’s Perspective 	<p>John Rilett, Climate Change Central US EPA Michael Burke, NR Can Helen Ryan, Environment Canada David Breakwell, Alberta Energy Mike Bruni, Alberta EUB</p>
6:30 p.m.	<i>Dinner Break followed by Social/Mixer</i>	*****

Wednesday, January 17th

7:45 a.m.	<i>Coffee and Muffins</i>	*****
	<u>Technology Demonstrations – Cont’d.</u>	FACILITATOR: Blaine Lee/Eric Lloyd
8:00 a.m.	<ul style="list-style-type: none"> • REM Vue Slipstream • REM Slipstream Technology Industry Impact Assessment • Waste Heat Recovery Systems From Compressor Engines • Energy Efficiency Technology Database Tool • Fixed Orifice Steam Traps 	<p>Howard Malm, REM Technologies Eric Lloyd, PTAC</p> <p>Victor Juchymenko, Great Northern Power Eric Lloyd, PTAC Patti Lowe, MEI Resources</p>
10:30 a.m.	<i>Coffee Break</i>	*****
11:00 a.m.	<ul style="list-style-type: none"> • Low Emissions Wellsite • LDAR – FLIR Optical Camera • Directed Inspection and Maintenance 	<p>Milos Krnjaja, BP Canada</p> <p>Terence Trefiak, Conoco Phillips Donald Robinson, ICF Consulting</p>
12:00 noon	<i>Lunch Break</i>	*****
	<u>Methane to Markets</u>	FACILITATOR: Roger Fernandez
1:30 p.m.	<ul style="list-style-type: none"> • EPA Methane to Markets Program Overview • Leak Detection and Quantification <ul style="list-style-type: none"> ▪ Status of Emerging Technologies 	<p>Roger Fernandez, EPA, Methane to Markets</p> <p>Ted Hart, Envirotech Engineering</p>
2:15 p.m.	<ul style="list-style-type: none"> • Processor Best Practices 	Roger Fernandez, EPA, Methane to Markets
3:00 p.m.	<ul style="list-style-type: none"> • Efficient Pigging of Gathering lines • Acid Gas Removal 	<p>Methane to Markets Partner Presentation Tony Irwin, Duke Energy</p>
3:45 p.m.	<i>Energy Break</i>	*****
	<u>Summary</u>	FACILITATOR: Blaine Lee
4:00 p.m.	<ul style="list-style-type: none"> • Responsible Energy Management <ul style="list-style-type: none"> ▪ How Do We Seize The Pie? • Conclusions 	<p><u>Participant Panel</u></p> <p>Joe Lukacs, CETAC-WEST Eric Lloyd, PTAC Roger Fernandez, EPA, Methane to Markets</p>