



LET'S MAKE A DEAL!

CEE 20th Annual Meeting, December 9-10, 2015 Houston Branch - Federal Reserve Bank of Dallas Conference Center http://www.dallasfed.org/houston.cfm



As a reminder, by tradition our meetings are conducted on a non-attribution basis. "Chatham House"

rules apply. Agenda is always subject to change.					
Session	Agenda Item				
	Thought Leaders/Commentators				
	Wednesday, December 9				
8:00AM	Arrival, registration, refreshments – Brazos Ballroom				
8:30	Welcome				
	Agenda for annual meeting and workshop				
	Michelle Michot Foss, BEG/CEE Chief Energy Economist and Program Manager				
	"What Keeps Me Up at Night"				
	All participants are invited to submit your "Up at Night" contributions on note cards for collection				
	by noon . CEE program staff will summarize and add to analysis from previous years.				
	2015 – Wheeling and Dealing Through Cycles				
	How should we think about the evolution of business models, policy and regulation relative to				
	what we believe we understand about the economics of energy industries and value chains? What				
	drives what? Shifts in technology can impact the economics of energy businesses, creating new				
	opportunities, destroying others. Ordinarily policy (and regulation) should reflect these transitions. Interactions are complex. Commodity prices, cost of money, and other (including non-				
	financial) motivations and behaviors can push business models farther than technology or markets				
	can fully support, creating new risks and uncertainties. Governments can intervene, creating				
	winners and losers in ways that seem disconnected from purely economic fundamentals. Market				
	participants are motivated to influence policy and regulation in directions that favor their interests.				
	For our 20 th annual meeting and conference, we review the health of the key energy industry				
	segments and look ahead in light of policy and regulatory overtones. Within the context of CEE				
	research we revert to some basic questions about what we know, and don't know.				
	What is the "fit" between economics, business models, policy and regulation?				
	 How do intrinsic and extrinsic driving forces interact to create, destroy business models and what are the implications? 				
	What can energy economics research do to help inform thinking about business organization,				
	structure, funding and policy/regulatory approaches for commercial/bankable projects and longer				
0.20	term outlooks?				
9:30	Big Moving Parts – Do Accidents "Happen"? NEW – CEE Book Club				
	We read, a lot. It's our business. The best way to share some of the more provocative items that				
	come across the desk is to invite the authors to tell us themselves. For this year's kick off to the				
	new CEE Book Club, we invited Peter Zeihan, Zeihan on Geopolitics. Peter's work covers the				
	interplay of geography, demographics, history and culture in driving global distributions of power.				
	He is a geopolitical strategist, author of <i>The Accidental Superpower</i> , and former vice president of				
	Stratfor. http://zeihan.com/				





Session	Agenda Item
00001011	Thought Leaders/Commentators
10:30	Break
10:45	Upstream Part 1 – *Unconventionally Conventional Would the "shale gale" have happened without cheap money? What have we learned, what do we need to learn, from the technology "space"? (*We acknowledge a contribution of ideas from Christine Economides, University of Houston Petroleum Engineering, on how unconventional plays and drilling/production practices may benefit conventional fields.) What is same, what is different about upstream cost structures and finance? What are the special risks and uncertainties associated with national oil companies? How will Mexico, Iran, and other producers fit into the picture?
	Bob Skinner, University of Calgary/CEE Global Advisors, chair and leader (confirmed) – scene setting Remarks: Bob Kleinberg, Schlumberger/Doll (confirmed), the technology "white space" Paul Ziff, Solomon Associates/Ziff Energy (confirmed), upstream models and the long term Ziff cost benchmarks
	Miranda Wainberg, BEG/CEE Senior Energy Advisor, insights from CEE NOC research Discussion:
	Arthur L. Smith, Triple Double Advisors (confirmed)
	Luis Giusti, CSIS/CEE Global Advisors (confirmed)
	Luis Labardini, Marcos y Asociados on Mexico (confirmed)
	David Knapp, Energy Intelligence Group/CEE Modeling Advisors (confirmed)
40.00014	Svetlana Ikonnikova, BEG/CEE Energy Economist
12:30PM	Lunch/Networking CEE team collects "Up at Night" submissions
	Energy Opportunities Resource riches and development challenges – the microcosm of extractive industry, alternative energy, land management businesses within a milieu of market dynamics, cross-border flows and public perception. Mark Houser, CEO, University Lands (confirmed)
1:30	Upstream Part 2 – Navigating the Midstream Rapids
1.50	What have we learned about the complexity of production streams and monetization? Can the industrial renaissance survive dampened expectations of global growth and currency ructions? How are costs and business models evolving?
	 Les Deman, Coastside/CEE Modeling Advisors (confirmed) Deniese Palmer-Huggins, BEG/CEE Senior Energy Advisor Discussion with Upstream 1 panel
2:45	Break
3:00	Big Ticket Projects – Special Economics, Special Regions and Very Special Frameworks From mega-LNG to nuclear to oil sands, cost management and outc/omes are challenged as project scale and scope expand. What are the drivers, risks, uncertainties for large cap energy projects – do large cap projects create their own, inherent risk profiles? How do large cap cycles affect expectations for exports, longer term supply-demand balances and price signals? What are some specific regional considerations? Can competitive market designs accommodate large cap projects and if not, what are the alternatives?
	Luis Giusti, chair and leader – scene setting (confirmed)





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	Thought Leaders/Commentators
	Remarks:
	Howard Rogers, Oxford Institute for Energy Studies (confirmed), LNG and gas pipelines
	Hisanori Nei, GRIPS/CEE Global Advisors (confirmed), Japan/Asia energy projects
	Bob Skinner, oil sands and Canadian LNG
	Discussion:
	Michelle Michot Foss, project management/development trends and drivers
	Chen-Hao Tsai, BEG/CEE Senior Economist/Research Associate, nuclear costs
5:00	Closing Thoughts for Day 1, Look Ahead to Day 2
	CEE Advisors Panel – Dave Knapp, chair
5:30	Open Reception – Buffalo Bayou Room
6:30-8:00	Donor/Advisor Dinner – By Invitation Only
	Wheeling and Dealing in Washington in 2016
	Sheila Hollis, Duane Morris/CEE Global Advisors (confirmed)
	Thursday, December 10
8:30AM	Arrival, registration, refreshments – Trinity Room
9:00	Power and Utilities Part 1 – Fuzzy Logic? Thinking Outside the Houston Box (Carefully)
	Conflicting objectives? Competing agendas!
	Cost efficiency: best delivered via well-designed competitive markets but price formation
	encumbered with price caps and other measures to mitigate price volatility.
	High reliability: mandated reserve margins and capacity markets because economically
	optimal reliability might allow for outages.
	Maximize the share of renewables: for a mix of reasons, including emissions reduction, energy
	security, local job creation but cost and balancing problems can be acute.
	Grid security: including against physical or cyber-attacks complicates the "centralization"
	"decentralization/distributed energy" tradeoffs.
	In the meantime, technology evolves: utility-scale solar PV is gaining ground while residential PV
	associated with smart grid applications and storage is encouraging distributed generation. Large-scale storage faces technical and financial challenges.
	scale storage races technical and initialicial challenges.
	What does it all mean for the future of the electricity business? How are the economics of power
	value chains shifting? What is the impact of policy and regulation (energy, environment) on utility
	business models? What is "real" in the technology space? A wide-ranging exploration on the most
	unpredictable segment and ramifications across the energy business and economics landscape.
	Juan Eibenschutz, CNSNS/CEE Global Advisors (tentative), chair and leader – scene setting
	Remarks:
	Gürcan Gülen, BEG/CEE Senior Energy Economist/Research Scientist and Chen-Hao Tsai,
	insights from CEE/UTEI research
	Jim Caldwell, CEERT, economics of renewables (confirmed; see
	http://lowcarbongrid2030.org/)
	Christi Tezak, Clearview Energy Partners (confirmed), range of issues facing utilities in an
	increasing complex market encumbered by federal intervention and state-by-state rules
	Ed Kelly, IHS/CEE Modeling Advisors (confirmed)
	Discussion:
	Bruce Stram Erice Group/CEE Modeling Advisors (confirmed)
	Terry Thorne IGU/CEE Modeling Advisors (confirmed)
10:30	Break





Session	Agenda Item
	Thought Leaders/Commentators
10:45	Power and Utilities Part 2 – Transmission and Storage
	Rapid expansion of PV and energy storage will have implications up the supply chain from
	manufacturing to mining. What are the requirements for minerals and materials?
	Discussion:
	Michelle Foss/Rahul Verma, BEG/CEE Graduate Student Researcher, insights from CEE
	research on critical minerals for energy storage
	Daniel Crotzer, Fractal Business Analytics, the potential for batteries (confirmed)
	Shawn Patterson, Apex, the case for CAES (confirmed)
	Discussion with Power and Utilities 1 panel on transmission and other issues
11:45	Closing Thoughts for Day 2, Comments on/Recommendations for CEE Research
	CEE Advisors Panel – Terry Thorn, chair
12:15PM-	Closing Lunch Discussion
1:30	Technology Disruptions – Gas and Power Deep Dive
	Ed Kelly (confirmed)
1:30	Adjourn

BEG/CEE Program Financial Support FY15-16

UT Jackson School of Geosciences Endowment

BEG State of Texas Advanced Resource Recovery Program/Office of the Comptroller

And

Cedigaz • Chevron Corporation (Global Gas, Africa/Latin America) • Electric Power Research Institute (EPRI) • Ernst & Young • ExxonMobil (PGA, GPM/UT-McCombs) • Frost Bank • GE Oil & Gas • Haddington Ventures • Southern Company • McKinsey & Company • SUEZ Energy North America • Toyota Motor North America • UT McCombs Texas Executive Education Programs (ExxonMobil, CNOOC)

And

U.S. Department of State, Bureau of Energy Resources – Support to Government of Mexico on Upstream Oil and Gas Sector





BEG/CEE personnel:

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