

**Monday March, 9**

**10:15am - 10:40am**

**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Amin H. Nasser, President and Chief Executive Officer, Saudi Aramco

**10:40am - 11:10am**

**Waves of Change: Industry acts**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Bob Dudley, Chairman, Oil and Gas Climate Initiative (OGCI), former Chief Executive, BP, BP plc  
 Patrick Pouyanné, Chairman and Chief Executive Officer, TOTAL SA  
 Vicki Hollub, President and Chief Executive Officer, Occidental  
 Claudio Descalzi, Chairman and Chief Executive Officer, Eni

**11:10am - 11:40am**

**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Herbert Diess, Chairman of the Board of Management, Volkswagen AG

**11:40am - 12:20pm**

**More Energy, Lower Emissions: The dual challenge**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
 Wan Zulkiflee, President and Group Chief Executive Officer, PETRONAS  
 Maarten Wetselaar, Integrated Gas and New Energies Director, Royal Dutch Shell plc  
 Lorenzo Simonelli, Chairman, President and CEO, Baker Hughes  
 Jean-Pascal Tricoire, Chairman and Chief Executive Officer, Schneider Electric

**12:20pm - 12:45pm**

**Leadership Dialogue**

**12:55pm - 02:15pm**

**Luncheon and Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 David M. Rubenstein, Co-Founder and Co-Executive Chairman, The Carlyle Group

**02:30pm - 03:15pm**

**Waves of Change: Fuels of the Future**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Christopher Crane, President and Chief Executive Officer, Exelon  
 Jack Fusco, President and Chief Executive Officer, Cheniere Energy  
 Dr. Fatih Birol, Executive Director, International Energy Agency (IEA)  
 John Hess, Chief Executive Officer, Hess Corporation

**02:30pm - 03:15pm**

**Decapitalization of Energy: Cyclical or structural?**

Roger Diwan, Vice President, Financial Services, IHS Markit  
 Tom Greenberg, Managing Director and Co-Head of Global Oil and Gas, Credit Suisse  
 Marcel van Poecke, Head of Carlyle International Energy Fund, Carlyle International Energy Partners (CIEP)  
 Poppy Allonby, Managing Director, BlackRock

**03:20pm - 04:05pm**

**Politics of Climate: Splintering coherence or thousand points of light**

Carlos Pascual, Senior Vice President, IHS Markit  
 Fred Krupp, President, Environmental Defense Fund (EDF)

**03:20pm - 04:05pm**

**Digital Transformation: Driving sustainable operations**

David Hicks, Senior Vice President, Upstream Energy, IHS Markit  
 Peter Terwiesch, President Industrial Automation and Member of the Group Executive Committee, ABB Ltd  
 Karl Johnny Hersvik, Chief Executive Officer, Aker BP

**04:20pm - 04:45pm**

**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Vicki Hollub, President and Chief Executive Officer, Occidental

**04:45pm - 05:25pm**

**Energy Transition: How much, how fast?**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
 David Eyton, Head of Technology, BP  
 Tadashi Maeda, Governor, Japan Bank for International Cooperation (JBIC)

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**04:20pm - 04:45pm**
**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Vicki Hollub, President and Chief Executive Officer, Occidental

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**04:45pm - 05:25pm**
**Energy Transition: How much, how fast?**

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 David Eyton, Head of Technology, BP  
 Tadashi Maeda, Governor, Japan Bank for International Cooperation (JBIC)

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**05:25pm - 05:50pm**
**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Andrew R. Jassy, Chief Executive Officer, Amazon Web Services (AWS)

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**05:50pm - 06:30pm**
**Technologies and Business Models for the Energy Transition**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Øyvind Eriksen, President and Chief Executive Officer, Aker ASA  
 Peter Voser, Chairman and Chief Executive Officer, ABB

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**06:30pm - 07:30pm**
**Conference-wide Reception**


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**07:30pm - 09:00pm**
**Insight Dinners (view more +)**
**The North Sea: The new energy sea? 07:30pm - 09:00pm**

Jon Story, Senior Director, Energy, IHS Markit  
 Bob Maguire, Managing Director, Carlyle International Energy Partners (CIEP)  
 Arne Sigve Nylund, EVP, Development and Production Norway (DPN), Equinor  
 Phil Kirk, Chrysaor, Chief Executive Officer and Founder  
 Agnete Johnsgaard-Lewis, Managing Director, A/S Norske Shell  
 John Knight, Senior Partner, HitecVision

**Plastics Sustainability: Emerging solutions 07:30pm - 09:00pm**

Dewey Johnson, VP, Research and Analysis, Chemical, IHS Markit

**US Energy Policy, Climate and the 2020 Elections 07:30pm - 09:00pm**

Carlos Pascual, Senior Vice President, IHS Markit  
 Jason Bordoff, Professor of Professional Practice and Founding Director, Columbia University  
 Karen Harbert, President and CEO, American Gas Association  
 Sarah Ladislav, Senior Vice President and Director, Energy Security and Climate Change Program, Center for Strategic and International Studies (CSIS)  
 Mike Sommers, President and CEO, American Petroleum Institute (API)

**Investment Strategies for a Lower Carbon World 07:30pm - 09:00pm**

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit  
 Fiona Wild, Vice President Sustainability and Climate Change, BHP  
 Derek Mathieson, Chief Marketing and Technology Officer, Baker Hughes

**Turmoil or Transition: Outlook for the global economy 07:30pm - 09:00pm**

Nariman Behraves, IHS Markit, Chief Economist  
 Saad Rahim, Chief Economist, Trafigura Pte Ltd  
 Ahmed Ali Attiga, Chief Executive Officer, Arab Petroleum Investments Corporation (APICORP)

**What Should the Oil Industry Do about Scope 3 Emissions? 07:30pm - 09:00pm**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
 Dr. Ernest Moniz, President and Chief Executive Officer, Energy Futures Initiative  
 Luis Cabra Dueñas, Executive Managing Director of Technology Development, Resources, and Sustainability, Repsol

**Future of Mobility 07:30pm - 09:00pm**

James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit

**Decoupling? The future of the US-China relationship 07:30pm - 09:00pm**

Xizhou Zhou, Vice President, Gas, Power and Energy Futures, IHS Markit

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**Tuesday March, 10**
**07:30am - 08:40am**
**Strategic Dialogues (Breakfast) (view more +)**
**Creating Value from Carbon 07:30am - 08:40am**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
 Takajiro Ishikawa, Senior Executive Vice President, Mitsubishi Heavy Industries America  
 Mark Goulthorpe, Associate Professor Department of Architecture, MIT

**Middle East Oil and Politics: After Abqaiq and Suleimani 07:30am - 08:40am**

Bhushan Bahree, Executive Director, Global Oil, IHS Markit  
 Vali R. Nasr, Majid Khadduri Professor of Middle East Studies and International Affairs, Johns Hopkins SAIS  
 Vera de Ladoucette, Distinguished Expert in International Relations and the Energy Industry, IHS Markit

**Special Western Canadian Premiers' Energy Dialogue 07:30am - 08:40am**

Kevin Birn, Vice President, North American Crude Oil Market, IHS Markit  
 Jason Kenney, M.L.A., Premier, Alberta  
 Scott Moe, Premier of Saskatchewan, Government of Saskatchewan

**Hydrogen and Renewable Gas: A growing role? 07:30am - 08:40am**

Shankari Srinivasan, Vice President, Energy, IHS Markit  
 Holger Lösch, Deputy Director General, Federation of German Industries (BDI)  
 Rod Christie, President and Chief Executive Officer, Turbomachinery Solutions, Baker Hughes

**Decarbonizing Transportation: What's doable? 07:30am - 08:40am**

Daniel Evans, Vice President, Global Refining and Marketing Research, IHS Markit  
 David Victor, Co-Director, Deep Decarbonization Initiative, University of California, San Diego  
 Chris Rowland, Director of Economics and Market Analysis, Marathon Petroleum Corporation

**Crude Quality: Too much light? 07:30am - 08:40am**

Ha Nguyen, Executive Director, Oil Markets, IHS Markit  
 Keo Lukefahr, Director, Derivatives Trading, Motiva  
 Wang Pei, UNIEPEC, Deputy General Manager of Research and Strategy Department  
 B. Anand, Chief Executive Officer, Nayara Energy

**Latin American E and P: Increasing competitiveness 07:30am - 08:40am**

Ricardo Bedregal, Executive Director, Upstream Research and Analysis, IHS Markit  
 Juan Manuel Rojas, Corporate Vice President, Strategy and Business Development, Ecopetrol S.A.  
 Nelson Queiroz Tanure, Chief Executive Officer, PetroRio

**Africa's Upstream: Getting the investment? 07:30am - 08:40am**

Daniel Berkove, Senior Associate, Energy, IHS Markit  
 Svein Jakob Liknes, Chief Executive Officer, Aker Energy AS

**Asia's Upstream: Shifting portfolios, shifting priorities 07:30am - 08:40am**

Nick Sharma, Executive Director, Asia Pacific, Upstream Oil and Gas Insight, IHS Markit  
 Natruedee Khositaphai, Executive Vice President, Strategy and Business Development Group, PTT Exploration and Production Public Company Limited  
 Dharmawan Samsu, Upstream Director, PT Pertamina  
 Alok Sinha, Global Head, Oil and Gas and Chemicals Global Industries Group, Standard Chartered Bank, Singapore

**08:50am - 09:15am**
**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Patrick Pouyanné, Chairman and Chief Executive Officer, TOTAL SA

**09:15am - 09:40am**
**Leadership Dialogue**

HE Dr. Sultan Ahmed Al Jaber, Minister of State in the United Arab Emirates, Chief Executive Officer of the Abu Dhabi National Oil, Abu Dhabi National Oil Company (ADNOC)

**09:40am - 10:05am**
**Leadership Dialogue**
**10:05am - 10:30am**
**Future of Transportation Dialogue**
**10:30am - 11:00am**
**Global Oil Plenary**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Gregg R. Lemkau, Co-Head of the Investment Banking Division (IBD), Goldman Sachs

**11:00am - 11:20am**
**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 Ryan Lance, Chairman and Chief Executive Officer, ConocoPhillips

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**11:30am - 12:30pm****Strategic Dialogues (view more +)****Carbon Pricing and Policies: Choices and strategies 11:30am - 12:30pm**

Steven Knell, Director, Energy Wide Perspectives, IHS Markit  
Jeff Currie, Commodities Research in Global Investment Research (GIR), Goldman Sachs  
Fiona Wild, Vice President Sustainability and Climate Change, BHP  
Etienne Anglès d'Auriac, Vice President Climate Strategy, TOTAL S.A.  
Helen Currie, Chief Economist, ConocoPhillips

**Moving Oil and Gas to Markets: Pipeline politics and finance 11:30am - 12:30pm**

Matthew Palmer, Research and Analysis Manager, Global Gas, IHS Markit  
Richard G. Newell, President and Chief Executive Officer, Resources for the Future (RFF)  
Vern Yu, Executive Vice President and President, Liquids Pipelines, Enbridge Inc.  
Amy Shank, Director of Pipeline Safety and Asset Integrity, The Williams Companies

**Global LNG: Where are we in the cycle? 11:30am - 12:30pm**

Terrell Benke, Executive Director, Global Gas and LNG Group, Energy, IHS Markit  
Michael Sabel, Co-Chief Executive Officer, Co-Chairman and Founder, Venture Global LNG  
Sherry Duhe, Executive Vice President and Chief Financial Officer, Woodside Energy Ltd.

**Asian Gas Market Liberalization: Breaking the dynasty 11:30am - 12:30pm**

Jenny Yang, Director, Greater China Gas, Power, and Energy Future, IHS Markit  
Jun Bai, Vice President, Research Institute, Beijing Gas Group

**Energy Investment: Where's the money flowing? 11:30am - 12:30pm**

Roger Diwan, Vice President, Financial Services, IHS Markit  
Osmar Abib, Chairman of Global Energy, Credit Suisse  
Matt Portillo, Managing Director, E and P Equity Research, Tudor, Pickering, Holt and Co.  
Mark Florian, Managing Director, BlackRock  
Reby Gulcan, Principal, Global Infrastructure Partners  
Mark Viviano, Partner, Kimmeridge Energy Management Company, LLC

**Oil Market Outlook: Will the cycle of surplus continue? 11:30am - 12:30pm**

James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit  
Adam Sieminski, President, King Abdullah Petroleum Studies and Research Center  
Ayed S. Al-Qahtani, Director of Research Division, Organization of the Petroleum Exporting Countries (OPEC)  
Ben Luckock, Co-Head of Oil Trading, Trafigura Pte Ltd  
Francis R. Fannon, Assistant Secretary for the Bureau of Energy Resources (ENR), United States Department of State  
Colin Fenton, Chairman, Commodities, Tudor, Pickering, Holt and Co.

**IMO: From sulfur limits to carbon limits 11:30am - 12:30pm**

Sandeep Sayal, Vice President, Downstream Energy Research, IHS Markit  
John LaRese, Marine Fuels Venture Advisor, ExxonMobil Marine Fuels and Lubricants  
Savvas Manousos, Global Head of Trading, Maersk Oil Trading and Investments  
Horace Hobbs, Chief Economist, Phillips 66

**Technology: Shifting the upstream cost frontier 11:30am - 12:30pm**

Pritesh Patel, Executive Director, Capital Costs Analysis Forum, IHS Markit  
Leonardo Moreira de P. Junqueira, Executive Director of Portfolio and Performance Exploration and Production, Repsol  
Antonio Pietri, President and Chief Executive Officer, Aspen Technology, Inc.

**Maturing Basins: Top attraction for E and P Growth? 11:30am - 12:30pm**

Paul Markwell, Vice President, Global Upstream Oil and Gas Insight, IHS Markit  
Elizabeth Schwarze, Vice President, Global Exploration, Chevron Corporation  
Hinda Gharbi, Executive Vice President, Reservoir and Infrastructure, Schlumberger

**Role of "E" in "E and P": The future of exploration 11:30am - 12:30pm**

Gerald Kepes, Executive Director, Plays and Basins, Upstream Oil and Gas Insight, IHS Markit  
Emeliana Rice-Oxley, Vice President Exploration, Upstream, PETRONAS  
Kevin J. McLachlan, Senior Vice President Exploration, TOTAL S.A.

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**12:45pm - 02:00pm****Luncheon and Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Bernard Looney, Chief Executive Officer, BP

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**02:10pm - 02:55pm****Future of Global Upstream**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
Liam M. Mallon, President, ExxonMobil Upstream Oil and Gas  
Arne Sigve Nylund, EVP, Development and Production Norway (DPN), Equinor  
Tomás García, Executive Managing Director of Exploration and Production, Repsol  
Felipe Bayón, Chief Executive Officer, Ecopetrol S.A.

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**02:10pm - 02:55pm****Downstream and the Energy Transition**

The energy transition is pressuring downstream oil companies to simultaneously reduce emissions and compete in a slowing—and perhaps declining—product demand market. Across the globe, climate-related policies, regulations, and societal pressures are seeking to reduce carbon emissions from transportation fuels and the oil supply chain. How are environmental regulations impacting refining profitability and the outlook for long-term investments? What are the right strategies—such as more petrochemical integration, advanced biofuels investments, retail market integration—to address expected market changes? How are consumers expected to respond to the cost of new lower-carbon fuels needed for an energy transition?

Kurt Barrow, Vice President, Oil Markets, Midstream and Downstream Insights, IHS Markit  
Bryan W. Milton, President, ExxonMobil Fuels and Lubricants Company  
Bernard Pinatel, President, Refining and Chemicals, TOTAL S.A.  
B. Anand, Chief Executive Officer, Nayara Energy  
Nawaf S. Al-Sabah, President and CEO, Kuwait Petroleum International

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**03:00pm - 03:45pm****Competitive Sources of Supply**

Gerald Kepes, Executive Director, Plays and Basins, Upstream Oil and Gas Insight, IHS Markit  
Geraldine Slattery, President Operations Petroleum, BHP  
Starlee Sykes, Regional President for the Gulf of Mexico and Canada, BP

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**03:00pm - 03:45pm****Future of Petrochemicals**

Mark Eramo, Vice President, Global Business Development, Energy and Chemicals, IHS Markit  
Karen McKee, President, ExxonMobil Chemical Company  
María Victoria Zingoni, Executive Managing Director of Commercial Businesses and Chemicals, Repsol

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**03:50pm - 04:35pm****Ministerial Plenary: Challenges for Oil Producers**

Carlos Pascual, Senior Vice President, IHS Markit  
Nurlan Askarovich Nogayev, Minister of Energy, Republic of Kazakhstan

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**03:50pm - 04:35pm****Future for North American Shale?**

Shale production is no longer new. North American shale producers have brought this enormous resource to the surface in quantities that have overwhelmed the market. Yet the sector has been struggling with multiple challenges, and sentiment has soured. What will be the legacy of shale? Will it be a small (and final) chapter in the long history of oil and gas? Or is this a disruption that signals the start of the next phase? How does shale stack up against conventional assets in terms of performance and profitability? Will it be advantaged or disadvantaged in a world of environmental, social, and governance concerns? Why has shale resource development been so slow to take root outside North America? Is that changing? Can companies make shale work financially? What needs to happen for it to deliver consistent and strong returns?

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit  
Steve Green, President, Chevron North America Exploration and Production Company  
Maynard Holt, Chief Executive Officer, Tudor, Pickering, Holt and Co.

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**04:40pm - 05:25pm**
**The New Psychology of Global Oil Markets**

Daniel Yergin, Chairman, CERAWeek, IHS Markit  
 HE Mohammad Sanusi Barkindo, Secretary General, Organization of the Petroleum Exporting Countries (OPEC)  
 Sanjiv Singh, Chairman, Indian Oil Corporation Ltd. (IOCL)  
 Scott D. Sheffield, Chief Executive Officer, Pioneer Natural Resources Company

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**04:40pm - 05:25pm**
**Where is Digitalization Creating Value?**

David Hicks, Senior Vice President, Upstream Energy, IHS Markit  
 Darryl Willis, Vice President - Energy Industry, Microsoft Corporation  
 Sanjay Poonen, Chief Operating Officer, VMware  
 Arif Mahmood, Executive Vice President and CEO, Downstream, PETRONAS  
 Peter Herweck, EVP, Industrial Automation, Schneider Electric

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**04:40pm - 05:25pm**
**Agriculture and Energy**

Along with fertilizer, crop protection chemicals, transportation, and packaging, biofuels are a major area of intersection between agriculture and energy. Over the past 15 years, biofuels production has increased globally and has become a major part of the energy profile of developed and developing countries. While energy security and farm income support were early pillars of biofuels policy, biofuels as a solution to developing renewable, sustainable, low-carbon sources of energy is a major theme in both commercial and policy organizations considering future biofuels development. What are the geographic differences in areas such as feedstocks and policy? How will technology play a role? What are the critical policy changes that could happen? What role will energy prices play?

Tom Scott, Global Director of Agribusiness Consulting, IHS Markit

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**05:30pm - 05:50pm**
**Leadership Dialogue**


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**05:55pm - 06:30pm**
**Europe, Russia and US: Who drives Europe's energy security?**

European energy security—particularly where natural gas is concerned—has recently been the subject of high-level geopolitical debate. From the perspective of many in Europe, the continent's gas supply has never been more secure, thanks to major EU gas market reforms over the past 15 years and, at present, plentiful supply in the global LNG market. However, the United States sees threats to European energy security from new Russian pipelines—a view shared by some countries in Central and Eastern Europe. Meanwhile, the continued growth of renewable generation in Europe points toward the localization of energy production in the long term. How secure is Europe's energy supply? Can the US play a constructive role in Europe's energy security? Should Russia be viewed as part of the problem, or can it be part of the solution?

Laurent Ruseckas, Executive Director, Gas Power and Renewables, EMEA, IHS Markit  
 Francis R. Fannon, Assistant Secretary for the Bureau of Energy Resources (ENR), United States Department of State  
 Michaela Spaeth, Deputy Director General for Energy and Climate Policy, German Federal Foreign Office  
 Maria Rita Galli, Executive Vice President Business Development and International Asset Management, Snam S.p.A

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**05:55pm - 06:30pm**
**Waves of Change: Future of the Americas**

Carlos Pascual, Senior Vice President, IHS Markit  
 Luis Alberto Moreno, President, Inter-American Development Bank (IDB)

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**06:30pm - 07:30pm**
**Conference-wide Reception**


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**07:30pm - 09:00pm**
**Dinner and Dialogue: Charting Uncertainty: Waves of Great Power Conflict**

Carlos Pascual, Senior Vice President, IHS Markit  
 Angela Stent, Author of Putin's World: Russia against the West and with the Rest, Director, Center for Eurasian, Russian and East European Studies at Georgetown University  
 William Burns, Former Deputy Secretary of State, President, Carnegie Endowment for International Peace  
 Suzanne Maloney, Interim Vice President, Foreign Policy, The Brookings Institution  
 Yukon Huang, Senior Fellow, Asia Program, Carnegie

Wednesday March, 11

07:30am - 08:40am

### Strategic Dialogues (Breakfast) (view more +)

#### Future of Shipping: New technologies, new fuels 07:30am - 08:40am

Hédi Grati, Director, Refining and Marketing, IHS Markit  
 Luca Volta, Marine Fuels Venture Manager, ExxonMobil  
 T Muhammad Taufik, Executive Vice President and Group Chief Financial Officer, PETRONAS

#### EVs and Oil: What's the impact? 07:30am - 08:40am

Jeff Meyer, Director, Mobility and Energy, IHS Markit  
 S M Vaidya, Director (Refineries), Indian Oil Corporation Ltd. (IOCL)  
 Hans Jakob Hegge, Equinor US Country Manager, Equinor  
 Ed Rawle, Chief Economist, Abu Dhabi National Oil Company (ADNOC)

#### Can Latin America Achieve its Gas Potential? 07:30am - 08:40am

Clarissa Lins, Founding Partner, Catavento Consultoria  
 Gustavo Baquero, SVP, Operations Technology Excellence, Development and Production International, Equinor

#### Cleantech Investment Strategies of Oil and Gas Companies 07:30am - 08:40am

Eduardo Zoco, Research and Analysis Director, Solar and Energy Storage, Energy Technology, IHS Markit  
 Barbara Burger, President, Chevron Technology Ventures, Chevron  
 Prof. Dr. Nasir Darman, Chief Technology Officer, PETRONAS  
 Luca Cosentino, Executive Vice President, Energy Solutions, Eni

#### Asia Gas in a World of Transition 07:30am - 08:40am

Zhi Xin Chong, Associate Director, South and Southeast Asia, Gas, Power and Energy Futures, IHS Markit  
 Kunio Nohata, Member of the Board and Senior Executive Officer, Tokyo Gas  
 Gordon Waters, CEO of Asia Pacific Trading and Global Head of LNG - GEM, ENGIE

#### Global Coal Demand: Varying by region 07:30am - 08:40am

James Stevenson, Senior Director, Global Coal, Energy, IHS Markit  
 Nick Cron, Vice President Portfolio Optimization and Marketing, Xcoal Energy and Resources  
 Soma Banerjee, Executive Director, Confederation of Indian Industry

#### Water and Energy 07:30am - 08:40am

David Vaucher, Associate Director – Cost and Technology, IHS Markit  
 Kelly Bennett, Co-Founder and President, B3 Insight

#### Future Competitiveness of the Offshore 07:30am - 08:40am

Ian Conway, Executive Director, Plays and Basins, Upstream Oil and Gas Insight, IHS Markit  
 Paul Goodfellow, Executive Vice President, Deep Water and Chairman, Shell Midstream Partners, Shell  
 Neil Saunders, President and CEO, Oilfield Equipment, Baker Hughes

#### De-Bottlenecking U.S. Oil and Gas Transportation and Exports 07:30am - 08:40am

Aaron Brady, Senior Director, Energy, IHS Markit  
 Corey Prologo, Head of Oil Trading North America, Trafigura Trading LLC  
 Jon Ackerman, EVP and CFO, Founding Partner, Moda Midstream

08:50am - 09:15am

### Leadership Dialogue

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
 HE Saad Sherida Al-Kaabi, Minister of State for Energy Affairs, President and CEO of Qatar Petroleum, Qatar Petroleum

09:15am - 10:00am

### Gas in the New World of Competition

Natural Gas is a growing business both in North America and internationally, but prices and margins are under pressure. Finding value pools in the value chain is critical. How do companies create sustainable value from the US shale revolution? Where are the opportunities in the mid- and downstream value chain? Which geographies have an advantage in a competitive world, both internationally and in North America??

Michael Stoppard, Chief Strategist, Global Gas, Energy; CERAWEEK Vice Chair, IHS Markit  
 Ernie Thrasher, Chief Executive Officer and Chief Marketing Officer, Xcoal Energy and Resources  
 Toby Z. Rice, President and Chief Executive Officer, EQT Corporation

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**10:00am - 10:35am**
**Strategies for the Energy Transition**

 Al Monaco, President and Chief Executive Officer, Enbridge Inc.
 

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**10:35am - 11:20am**
**Energy Transition and the Future of LNG**

The share of LNG in world energy supply has grown and will continue to grow in the coming years. Recently, this growth has been dramatic. Across the world, LNG developments are being led by international majors, national oil and gas companies, and independents. While the current consumer appetite for gas is being satisfied by surging international trade, the transition by many countries to a new ultra-low carbon energy paradigm raises questions about how sustainable the surge in LNG will be. How long will the boom last? How will customers and policy makers assess the balance of environmental benefits and costs? How will intense competition among LNG suppliers change business perceptions?

Simon Blakey, Advisor, Global Gas, IHS Markit  
 Hee-Bong Chae, President and CEO, Korea Gas Corporation  
 Philippe Sauquet, President, Gas, Renewables and Power and President, Strategy-Innovation, TOTAL  
 Robert Pender, Co-CEO, Co-Chairman and Founder, Venture Global LNG

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**11:30am - 12:30pm**
**Strategic Dialogues (view more +)**
**North American Gas: A market in transition 11:30am - 12:30pm**

Samuel Andrus, Executive Director, Energy, IHS Markit  
 William T. Yardley, Executive Vice President and President Gas Transmission and Midstream, Enbridge Inc.

**Trading Gas: Liquidity in LNG markets 11:30am - 12:30pm**

Jonathan Westby, Co-Managing Director, Energy Marketing and Trading, Centrica plc

**Financing the Future: The new LNG value chain 11:30am - 12:30pm**

Andy Barrett, Senior Advisor, Global Gas and Power, Energy, IHS Markit  
 Erik Codrington, Managing Director, Head of Structured Finance, MUFG

**India: Creating a new natural gas economy 11:30am - 12:30pm**

Gauri Jauhar, Executive Director, Integrated Solutions, Energy Wide Perspectives, IHS Markit  
 Dinesh Kumar Sarraf, Chairperson, Petroleum and Natural Gas Regulatory Board (PNGRB)  
 Thomas Hardy, Director (Acting), United States Trade and Development Agency

**Future of North American Shale: After the slowdown 11:30am - 12:30pm**

Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit  
 Brian Singer, Head of Americas Energy and Utilities Business Unit, Goldman Sachs  
 Dominic Macklon, President, Lower 48, ConocoPhillips  
 Donald (Donnie) Ross, President, North America Land, Schlumberger

**Lowering the Carbon Footprint in Upstream Operations 11:30am - 12:30pm**

Oscar Abbink, Director, Upstream Research Group, IHS Markit  
 Kim McHugh, Vice President, Drilling and Completions, Chevron Corporation  
 Dr. Pratima Rangarajan, Chief Executive Officer, OGCI Climate Investments  
 Alessandro Puliti, Chief Upstream Officer, Eni

**Tracking GHG Emissions: Keeping score 11:30am - 12:30pm**

Kevin Birn, Vice President, North American Crude Oil Market, IHS Markit  
 Martha Hall Findlay, Senior Vice President and Chief Sustainability Officer, Suncor Energy

**Adapting to climate change 11:30am - 12:30pm**

Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit

**What are Likely Feedstocks for Advanced Biofuels? 11:30am - 12:30pm**

Kevin Lindemer, Managing Director, Downstream Consulting, Energy, IHS Markit  
 Jan M. Henke, Director, Meo Carbon Solutions GmbH and International Sustainability and Carbon Certification  
 Paulo Côte-Real Neves, MD Raízen Trading, Raízen  
 Cynthia (CJ) Warner, President and CEO, Renewable Energy Group (REG)  
 Carlos Ocampo, Global Business Director, Cellulosic Biorefining, Novozymes

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**12:30pm - 01:20pm****Next Generation Batteries in Transport: Solid state and beyond**

Batteries are widely recognized as the key to enabling the electrification of transport and helping to decarbonize the sector. Battery technology developments have been a major factor in accelerating this transformation, but huge R and D efforts are still underway to make further technological improvements. What will be the next generation of battery technology? When will it be available? What impact will it have on the electrification of the transportation sector?

Douglas Campbell, Chief Executive Officer, Solid Power  
Jarvis Tou, Executive Vice President, Enevate Corporation

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**12:45pm - 02:00pm****Luncheon and Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Dan Brouillette, Secretary of Energy, United States Department of Energy

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**02:10pm - 02:55pm****The Case for Investing in the Upstream**

Paul Markwell, Vice President, Global Upstream Oil and Gas Insight, IHS Markit  
Timothy Perry, Managing Director and Global Co-Head of Oil and Gas, Credit Suisse  
Arnaud Breuillac, President, Exploration and Production, TOTAL S.A.

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**02:10pm - 02:55pm****Transforming Global Gas**

The LNG supply build is happening across continents, helping to complete a new global marketplace. Business models are changing as more investments are made on balance sheets and trading takes on a more important role. Across emerging markets, gas reforms are underway, with new players appearing in a more complex marketplace. What are the implications of a global gas market? How quickly is the transformation to a commoditized market taking place? What is needed to thrive in the gas market of tomorrow?

Shankari Srinivasan, Vice President, Energy, IHS Markit  
Mark Gyetvay, Chief Financial Officer and Deputy Chairman of the Management Board, PAO NOVATEK  
Takayuki Ueda, President and CEO, INPEX  
Thorbjørn Fors, CEO, Services Distributed Generation and Oil and Gas, Siemens Gas and Power

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**02:10pm - 02:55pm****Ministerial Plenary**

Carlos Pascual, Senior Vice President, IHS Markit

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**03:00pm - 03:45pm****Plastics Sustainability: Meeting the challenge**

Dewey Johnson, VP, Research and Analysis, Chemical, IHS Markit  
Bob Patel, Chief Executive Officer, LyondellBasell Industries  
Jim Fitterling, Chief Executive Officer, Dow

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**03:00pm - 03:45pm****Future of Carbon Capture, Use and Storage**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
Dr. Pratima Rangarajan, Chief Executive Officer, OGCI Climate Investments  
Cindy Yeilding, Senior Vice President, BP America, BP  
Richard Jackson, President, Oxy Low Carbon Ventures

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**03:00pm - 03:45pm****Africa's New Energy Future**

Daniel Berkove, Senior Associate, Energy, IHS Markit

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**03:50pm - 04:35pm****Digital Transformation Driving Operational Excellence**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
Greg Leveille, Chief Technology Officer, ConocoPhillips  
John Markus Lervik, Co-Founder and Chief Executive Officer, Cognite AS  
Abdul Nasser Al Mughairbi, Senior Vice President, Digital, Abu Dhabi National Oil Company (ADNOC)

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**03:50pm - 04:35pm****Ministerial Dialogue**

Carlos Pascual, Senior Vice President, IHS Markit

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**03:50pm - 04:35pm****Future of Trading and Risk Management**

Roger Diwan, Vice President, Financial Services, IHS Markit  
Khaled Salmeen, Executive Director, Marketing, Supply and Trading Directorate, Abu Dhabi National Oil Company (ADNOC)

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**04:40pm - 05:25pm****The Future of the European Green Deal**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Kadri Simson, Commissioner, European Commission for Energy

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**04:40pm - 05:25pm****Hydrogen – will it be real this time?**

The prospects for the role of hydrogen in the energy mix are rising, but not for the first time. To finally break through into the mainstream energy sector, the industry needs to scale up and reduce costs. As the use of hydrogen grows, it will also need to win both wider public acceptance and the right policy support. Hydrogen's advantage is its versatility. In which applications can it best succeed? Where are the next technology and cost breakthroughs likely to come from? How can policy best support the hydrogen economy?

Shankari Srinivasan, Vice President, Energy, IHS Markit

Paul Browning, President and CEO, Mitsubishi Hitachi Power Systems Americas (MHPSA)

Daniel Muthmann, Head of Strategy, Policy and Communication, Open Grid Europe GmbH

Richard Boocock, Senior Vice President, Chief Information Officer and Special Advisor to the Chairman, Air Products and Chemicals Inc.

Didier Holleaux, Executive Vice President, ENGIE

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**05:30pm - 06:15pm****Building Tomorrow's North American Infrastructure**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit

Alan S. Armstrong, President and Chief Executive Officer, The Williams Companies

Sean Strawbridge, Chief Executive Officer, Port Corpus Christi

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**05:30pm - 06:15pm****Energy Strategies for the Transition**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit

Michele Della Vigna, Commodity Equity Business Unit Leader in EMEA, Goldman Sachs

Yasushi Fukuizumi, Executive Officer and Senior Executive Fellow, Mitsubishi Heavy Industries (MHI)

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**06:30pm - 07:30pm****Conference-wide Reception****07:30pm - 09:00pm****Dinner and Dialogue**

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Thursday March, 12

07:30am - 08:40am

**Strategic Dialogues (Breakfast) (view more +)**

**How PV Competes in a Low Cost, Low Revenue Environment? 07:30am - 08:40am**

Francesco d'Avack, Senior Analyst, Global Renewables, IHS Markit  
 Mariano Berges, Chief Technical and Commercial Officer, Fotowatio Renewable Ventures (FRV)  
 Varun Sivaram, Chief Technology Officer, ReNew Power Limited

**Distributed Energy: Balancing flexibility, reliability, and resilience 07:30am - 08:40am**

Sam Huntington, Associate Director, GPE, IHS Markit  
 Jorge Pikunic, Managing Director, Centrica Business Solutions, Centrica  
 Larry Cochrane, Managing Director and CTO, Azure Global Energy Industry, Microsoft Corporation

**Beyond China and India: Where is the new engine for renewables growth in Asia? 07:30am - 08:40am**

Allen Wang, Associate Director, Gas, Power and Energy Futures, IHS Markit  
 Fumiyo Harada, General Manager, Corporate Finance Department, Development Bank of Japan

**Electrifying Africa: Where are the opportunities? 07:30am - 08:40am**

Andy Barrett, Senior Advisor, Global Gas and Power, Energy, IHS Markit

**Reshaping Latin American Power Markets: Cheaper and cleaner 07:30am - 08:40am**

Emanuel Simon, Associate Director, Energy, IHS Markit  
 Diego Mesa, Vice Minister of Energy, Ministry of Energy and Mines of Colombia  
 Justin DeAngelis, Partner, Denham Capital

**Decarbonization of Heating: New technology and business models 07:30am - 08:40am**

Catherine Robinson, Executive Director, IHS Markit  
 Charles Cameron, Director of Technology, Engineering and Centrica Innovations, Centrica  
 Agustín Delgado Martín, Chief Innovation and Sustainability Officer, Iberdrola  
 Herkko Pit, President and CEO, Baltic Connector Oy

**Texas's Energy Future: Crucible for change 07:30am - 08:40am**

Michael Pickens, Associate Director, Energy, IHS Markit  
 Elizabeth Killinger, President, NRG Retail and Reliant  
 Stacey H. Dore, President, Hunt Utility Services  
 Kenan Ögelman, Vice President, Commercial Operations, ERCOT

08:50am - 09:15am

**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
 Ben van Beurden, Chief Executive Officer, Royal Dutch Shell plc

09:15am - 09:40am

**Leadership Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
 Andrew Wheeler, Administrator, U.S. Environmental Protection Agency (EPA)

09:40am - 10:25am

**The Shifting Narrative for the Power Business: Deregulation to decarbonization**

Simple and appealing stories periodically gain traction and create narratives of industry transformation that influence public policy and corporate strategy development. However, narratives do not always provide insights into the future. Looking back, the deregulation narrative did not provide insights into the transition from traditional regulation to the current complex mix of market forces and regulatory processes. Looking ahead, a strategic challenge exists to evaluate the feasibility and internal consistency of the decarbonization narrative that is gaining traction and driving climate policy initiatives and a vision of the electric utility of the future. What ideas about the electricity future are going viral and shaping the decarbonization narrative? Did the gap between the expectations and the realities of deregulation provide lessons for managing the expectations associated with the decarbonization narrative?

Lawrence Makovich, Vice President and Senior Advisor, Energy; CERAWEEK Vice Chair, IHS Markit  
 Nick Akins, Chairman, President and Chief Executive Officer, AEP  
 Gil Quiniones, President and Chief Executive Officer, New York Power Authority (NYPA)  
 Mauricio Gutierrez, Chief Executive Officer, NRG Energy  
 Pedro Pizarro, President and Chief Executive Officer, Edison International

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**10:25am - 11:15am****Designing for Success: Power markets, prices and the technology**

Market designs influence wholesale electricity market price formation. Getting price signals right is key to successful electricity system operations in the short run, and timely, adequate investments over the long run. Are market rules and institutions changing to harmonize climate initiatives with effective market competition? Can retail and wholesale market designs evolve to effectively integrate new technology deployment on both the demand and supply sides of the electricity business?

Lawrence Makovich, Vice President and Senior Advisor, Energy; CERAWEEK Vice Chair, IHS Markit  
Thad Hill, President and Chief Executive Officer, Calpine Corporation  
Gordon van Welie, President and Chief Executive Officer, ISO New England  
Manu Asthana, President and Chief Executive Office, PJM Interconnection

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**11:30am - 12:30pm****Strategic Dialogues (view more +)****How Renewables Fare in Competitive Markets 11:30am - 12:30pm**

Sylvain Cognet-Dauphin, Senior Director, Gas, Power and Energy Futures, IHS Markit  
Thomas Pieper, Head of Commercial Analysis and Global Strategies, RWE Supply and Trading GmbH

**Renewables in the Boardroom: New strategies for corporate procurement 11:30am - 12:30pm**

Anna Shpitsberg, Director, Global Power and Renewables, IHS Markit  
Miranda Ballentine, Chief Executive Officer, Renewable Energy Buyers Alliance (REBA)  
Christen Blum, Vice President, Renewables and Analytics Advisory, Edison Energy  
Brian Janous, General Manager of Energy and Sustainability, Microsoft Corporation

**Offshore Wind: How fast can it grow? 11:30am - 12:30pm**

Eduard Sala de Vedruna, Executive Director, Global Power and Renewables, Energy, IHS Markit  
Allan Baker, MD - Global Head of Power, Societe Generale  
João Paulo Costeira, Chief Development Officer, Repsol Electricidad y Gas  
Jonah Margulis, Country Manager - United States, Aker Solutions  
Steve Dayney, Head of Offshore North America, Siemens Gamesa Renewable Energy Inc.

**Financing New Power Projects: Seeking bankability 11:30am - 12:30pm**

Meg McIntosh, Senior Director, Energy, IHS Markit  
Jonathon Kaufman, Head of the Global Infrastructure, Utility and Renewables Group, Credit Suisse  
Pooja Goyal, Partner and Head of Renewable and Sustainable Energy, Carlyle International Energy Partners (CIEP)

**The Case for Investing in Coal 11:30am - 12:30pm**

Jim Thompson, Senior Director, Coal, Energy, IHS Markit  
Jack Porco, Chief Operating Officer, Xcoal Energy and Resources  
Jeremy Sussman, Chief Financial Officer, Ramaco  
Kirk Tholen, President of Alliance Royalty, LLC and SVP, Alliance Resource Partners, L.P.  
Nicolas Descoqs, Fund Manager - Alken Energy Transition, Alken Asset Management

**Large-Scale Storage in Power: How big? How economic? 11:30am - 12:30pm**

Coralie Laurencin, Research and Analysis Director, Global Gas, IHS Markit  
Alex Klein, Director, US Fundamentals, National Grid Ventures

**Grid Anxiety: Integrating EVs and the power grid 11:30am - 12:30pm**

Wade Shafer, Associate Director, Power, Gas, Coal, and Renewables, IHS Markit  
Carl Bayliss, Vice President, Mobility and Home Energy, Centrica  
Yuan Ren, Executive Director, State Grid US Representative Office  
Alex Keros, Lead Architect, EV Infrastructure, General Motors

**Solar Power: Are we on a new cost curve? 11:30am - 12:30pm**

Silvia Macri, Senior Research Analyst, Energy Global Power and Renewables Group, IHS Markit  
Tom Werner, CEO and Chairman of the Board, SunPower  
Jay Mariyappan, Head of New Energy, PETRONAS  
John Berger, Chief Executive Officer, Sunnova Energy Corporation

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**12:45pm - 02:00pm****Luncheon and Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Lynn J. Good, Chairman, President and Chief Executive Officer, Duke Energy

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**02:10pm - 02:35pm****Regulatory Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Hon. Neil Chatterjee, Chairman, Federal Energy Regulatory Commission (FERC)

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**02:40pm - 03:25pm****Future of Renewables**

Philippe Frangules, Vice President, Energy, IHS Markit  
Enrico Viale, Head of North America, Enel SpA  
Sumant Sinha, Chairman and Managing Director, ReNew Power

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**02:40pm - 03:25pm****Role of Gas in the Energy Future**

The focus on the energy transition provides both opportunities and challenges for natural gas, the most environmentally friendly of the fossil fuels. The gas industry has already shown that it can reduce emissions and improve air quality, but can it also demonstrate that it is the foundation for deeper, faster decarbonization? What does the gas industry look like in a deep decarbonization world, and how does it adapt? What role does thermal power—and especially natural gas—play in power systems with increasing amounts of renewable supply? How can industry and policymakers counter the opposing risks of stranded assets and carbon “lock-in”?

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Maryam Brown, President, Southern California Gas Company  
Cynthia Hansen, Executive Vice President and President, Gas Distribution and Storage, Enbridge Inc.

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**03:30pm - 04:15pm****Electrifying Transportation: New business models**

James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit  
Annette Clayton, President and CEO of North America Operations and Executive Vice President, Global Supply Chain, Schneider Electric  
Calvin G. Butler Jr., Senior Executive Vice President and Chief Executive Officer, Exelon Utilities, Exelon

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**04:15pm - 05:00pm****Energy Storage: The missing link**

Xizhou Zhou, Vice President, Gas, Power and Energy Futures, IHS Markit  
Andrés Gluski, President and Chief Executive Officer, AES

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**05:00pm - 05:45pm****Reliability, Affordability and Environment: Managing the trade-offs**

Consumers prefer reliable grid-based electricity supply capable of responding and adapting to deviations from expected operating conditions while also providing environmentally responsible electricity services at an affordable price. Electricity utilities face a strategic challenge to balance the costs and benefits of these multiple objectives. Are electrification trends driving consumer demands for greater reliability as the generation fuel and technology mix shifts toward lower levels of inherent power supply resilience? What is the appetite of consumers and governments for price increases to achieve a reliable, resilient, and environmentally responsible electric grid?

Lawrence Makovich, Vice President and Senior Advisor, Energy; CERAWEEK Vice Chair, IHS Markit  
Bernard L. McNamee, Commissioner, Federal Energy Regulatory Commission

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**05:45pm - 06:30pm****Waves of Change: Reimagining the energy transition**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
Hunter Hunt, Chief Executive Officer, Hunt Consolidated, Inc.

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**06:30pm - 07:30pm****Conference-wide Reception****07:30pm - 09:00pm****Dinner and Dialogue**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
Susan Hockfield, President Emerita and Professor of Neuroscience, MIT

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Friday March, 13

07:30am - 08:45am

**Energy Transition: Charting the energy future**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
James Burkhard, Vice President, Oil Markets, Energy and Mobility, IHS Markit  
Shankari Srinivasan, Vice President, Energy, IHS Markit  
Susan Farrell, Vice President, Energy-Wide Perspectives, IHS Markit  
Raoul LeBlanc, Vice President, North American Unconventionals, IHS Markit  
Xizhou Zhou, Vice President, Gas, Power and Energy Futures, IHS Markit

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08:45am - 09:30am

**Technology Frontiers: A Renaissance for coal?**

Atul Arya, Senior Vice President and Chief Energy Strategist, IHS Markit  
Randall Atkins, Chairman and Chief Executive Officer, Ramaco Carbon  
Hon. Joe Manchin, United States Senator for West Virginia, U.S. Senate Energy and Natural Resources Committee  
Brian J. Anderson, Director, National Energy Technology Laboratory (NETL)

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09:50am - 10:30am

**What's Ahead in Washington?**

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10:30am - 11:15am

**Global Demographics, Economics and Security**

Carlos Pascual, Senior Vice President, IHS Markit  
Bruce Jones, Vice President and Director - Foreign Policy, Brookings Institution

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11:30am - 12:15pm

**Will Energy Innovation Deliver?**

Carlos Pascual, Senior Vice President, IHS Markit  
Dr. Robert Armstrong, Director, MIT Energy Initiative, Chevron Professor of Chemical Engineering, MIT

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12:15pm - 12:30pm

**Concluding Thoughts**

Daniel Yergin, Chairman, CERAWEEK, IHS Markit  
James Rosenfield, Senior Vice President IHS Markit, CERAWEEK Co-Chairman, IHS Markit

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12:30pm - 01:30pm

Networking Lunch

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