

37TH IAAE INTERNATIONAL CONFERENCE

JUNE 15–18, 2014 | NEW YORKER HOTEL | NEW YORK CITY, USA

ENERGY & THE ECONOMY

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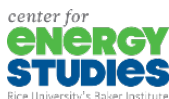
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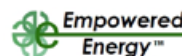


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Robert Eric
Borgström



NHH



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ENERGY ECONOMICS

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UNITED STATES ASSOCIATION for ENERGY ECONOMICS

MEETING ROOM EXPLANATION & WALKING DIRECTIONS

The 37th IAEE International Conference will take place in three separate properties. These are the Wyndham New Yorker Hotel, the Manhattan Center Grand Ballroom (for all lunches and the Monday night Awards dinner) and the Loews Theater where, on the fourth floor, four concurrent sessions will take place during any given concurrent session time block. The Loews Theater is located directly across from the Manhattan Center. The map at the right is designed to help you visualize where meeting rooms are located. Note that both the Wyndham New Yorker Hotel and the Manhattan Center have a Grand Ballroom. It is easiest to recall that the Manhattan Center Grand Ballroom is only used for lunches and the dinner. Further note that coffee breaks will be offered in both the Wyndham New Yorker Hotel and in the Loews Theater, fourth floor lobby. Plenty of food and beverages will be offered during each coffee break to enhance your networking opportunities with colleagues and new friends.



TO GET TO THE MANHATTAN CENTER GRAND BALLROOM:

- From the lobby of the Wyndham New Yorker Hotel look in the corner for the Tick Tock Restaurant and the Transportation Desk. There will be a conference sign that says "Manhattan Center Grand Ballroom / Loews Theater Concurrent Sessions." Follow these signs to exit the hotel on to 34th street.
- Exit the hotel and turn right. Staying on the same side of the street walk approximately 175 feet to the Manhattan Center (right next to the Wyndham New Yorker Hotel). Look for the building sign that says "Manhattan Center," on your right.
- As you enter the Manhattan Center on the lobby level there are elevators to your right and left to the 7th floor (Grand Ballroom floor level). Alternatively, you may take the stairs on the right side of the lobby.
- Have your meal ticket ready for collection before you enter the Grand Ballroom.

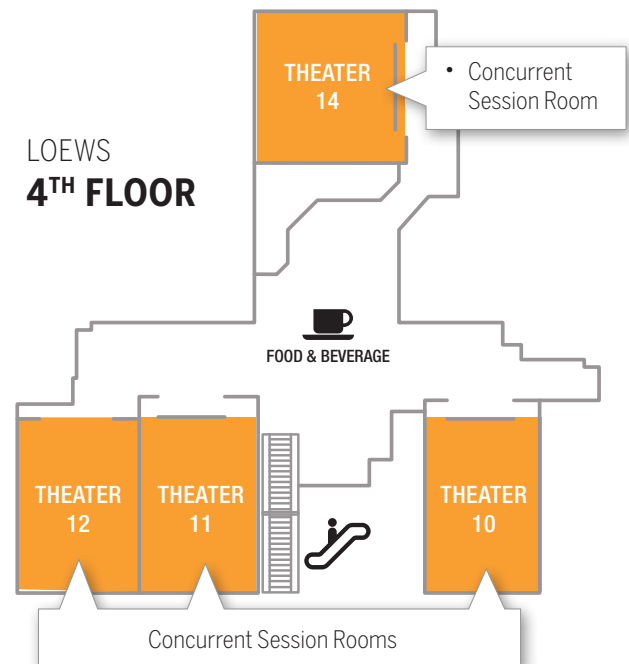
TO GET TO THE LOEWS THEATER:

- From the lobby of the Wyndham New Yorker Hotel look in the corner for the Tick Tock Restaurant and the Transportation Desk. There will be a conference sign that says "Manhattan Center Grand Ballroom / Loews Theater Concurrent Sessions." Follow these signs to exit the hotel on to 34th street.
- Turn right as you exit the hotel. Directly across from the Manhattan Center (left hand side of the street) is the Loews Theater – a traditional motion picture movie complex. Cross the street and enter the Loews Theater.
- Move up the escalators to the 4th floor where four concurrent sessions will be held in theater rooms. Look for conference signage at each escalator landing with arrows that say "Concurrent Sessions."
- Note that coffee breaks will be held on both the 4th floor of the Loews Theater as well as in the Foyer/Mezzanine and the landing outside of the Grand Ballroom balcony of the Wyndham New Yorker Hotel (two separate buildings used for all coffee breaks offered throughout the conference).

MANHATTAN CENTER 7TH FLOOR

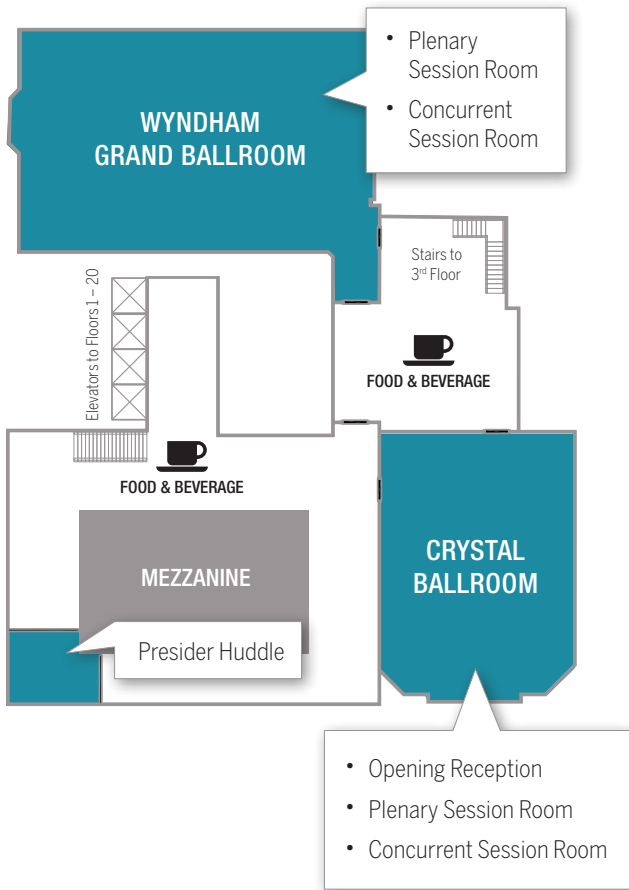


LOEWS 4TH FLOOR

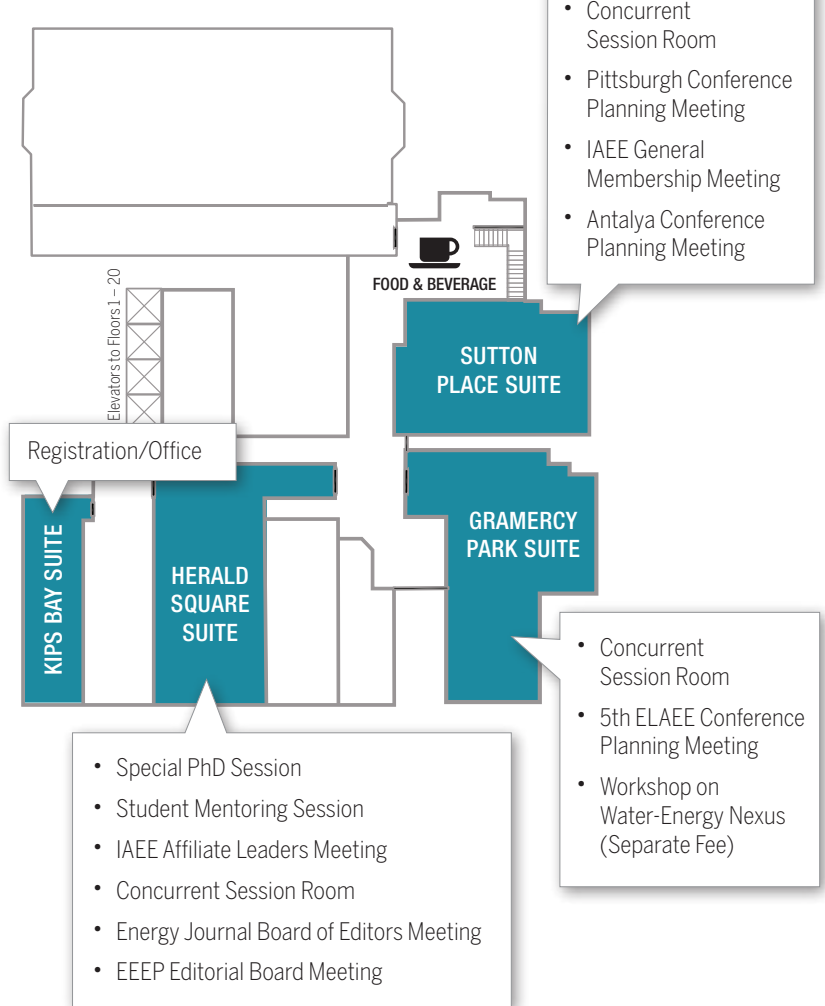


WYNDHAM NEW YORKER HOTEL FLOORPLAN

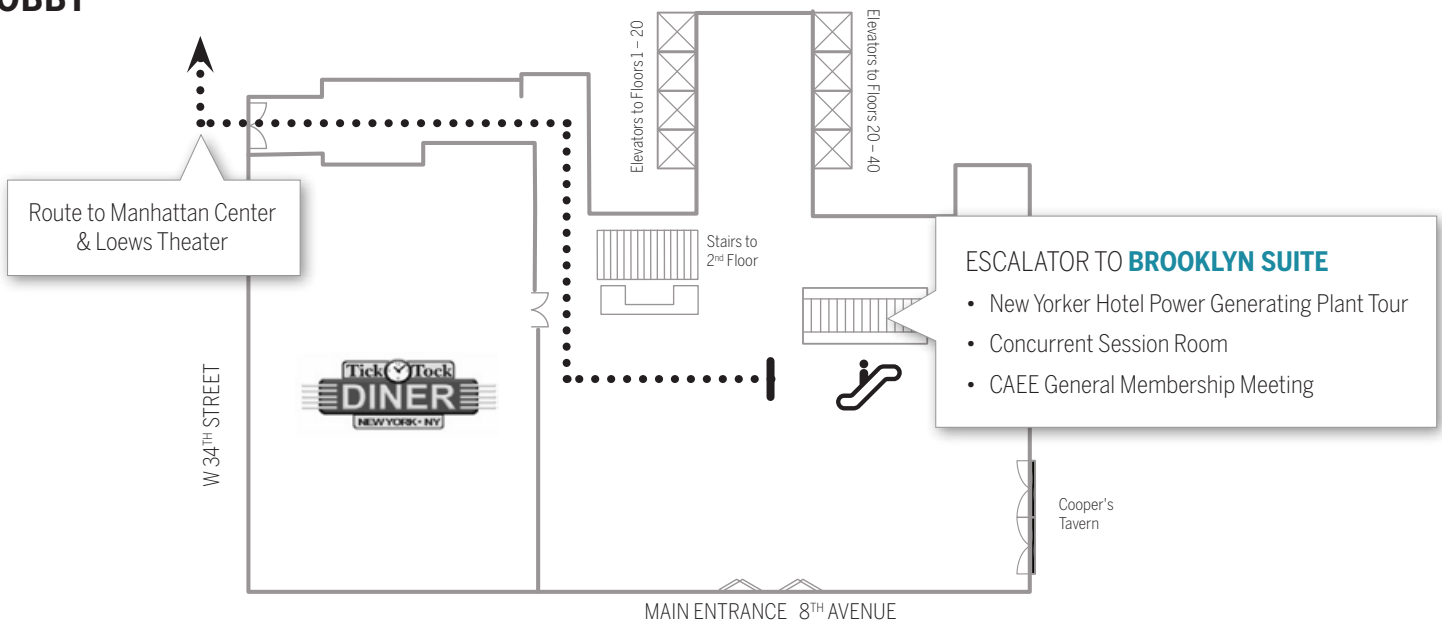
WYNDHAM NEW YORKER HOTEL 2ND FLOOR



WYNDHAM NEW YORKER HOTEL 3RD FLOOR



WYNDHAM NEW YORKER HOTEL LOBBY



Meal tickets are only valid for conference provided meal functions. Meal tickets are not transferrable to general hotel restaurants or bars.

SUNDAY, JUNE 15

REGISTRATION

12:00 noon - 7:00 pm / Kips Bay Suite

NY

IAEE Council Meeting
(By Invitation)

9:00 am - 12:00 noon / Sutton Place Suite

NY

IAEE/USAAE Council Lunch
(By Invitation)

12:00 noon - 1:00 pm / Gramercy Park Suite

NY

USAAE Council Meeting
(By Invitation)

1:00 pm - 4:30 pm / Sutton Place Suite

NY

Special PHD Session

1:00 pm - 5:15 pm / Herald Square Suite

NY

Opening Reception

6:00 pm - 7:30 pm / Crystal Ballroom

NY

Sponsored By: **Baker Hughes**

Student Mentoring Program

7:30 pm - 10:00 pm / Herald Square Suite

NY

This is an informal event for all of our student members. After the opening reception (6:00 – 7:30 pm, Sunday June 15 in the Crystal Ballroom) come along to the Herald Square Suite to hear from a dozen energy professionals about their lifetime experiences in different sectors of energy economics. We have invited a diverse group of working professionals to reflect with you on their career paths and lessons learned. They will be meeting with separate groups of students simultaneously but you'll have time during the session to visit with up to six speakers as they will repeat their talks and you can participate in the individual Q&A's and chat one-on-one with the professionals afterwards.

VENUE KEY:

NY NEW YORKER HOTEL

L LOEWS THEATER

MC MANHATTAN CENTER

MONDAY, JUNE 16

REGISTRATION

7:00 am - 7:00 pm / Kips Bay Suite

NY

IAEE Affiliate Leaders Meeting

7:45 am - 8:45 am / Herald Square Suite

NY

Student Breakfast Meeting

7:45 am - 8:45 am / Sutton Place Suite

NY

Sponsored By: **Chevron**

Continental Breakfast

8:00 am - 8:45 am /

Foyer, Mezzanine & Grand Ballroom Balcony

NY

Sponsored By: **ConocoPhillips**

Presider's Huddle

8:15 am - 8:30 am / Mezzanine 2nd Floor

NY

Presidents' Welcome & Introduction

8:45 am - 9:30 am /

New Yorker Hotel Grand Ballroom

NY

OPENING PLENARY SESSION:
International Implications of
U.S. Energy Renaissance

9:30 am - 10:30 am /

New Yorker Hotel Grand Ballroom

NY

Surging production of oil and gas in the U.S. is having effects on energy markets around the world, helping consumers and providing stiffer competition for producers. However, this growth also is raising questions about public acceptance of energy development activities and stimulating a debate over U.S. energy exports. There are indirect effects within the U.S. as well, among them assisting energy intensive industries to expand output and gain market share. In this session, such effects will be discussed in detail. The leadoff talk will offer a U.S. viewpoint while discussants will comment from European and Middle Eastern perspectives and develop broader implications, both for the short and the long run. These will include reproducibility on a global scale, strategic and competitive implications, logistic and infrastructure challenges, and implications for world economic activity and growth.

Michael E. Canes (Presiding)

DISTINGUISHED FELLOW, LOGISTICS MANAGEMENT INSTITUTE

Adam E. Sieminski

ADMINISTRATOR, ENERGY INFORMATION ADMINISTRATION

David Hobbs

HEAD OF RESEARCH, KAPSARC

Eirik Wærness

CHIEF ECONOMIST, STATOIL ASA

Coffee Break



10:30 am - 11:00 am / Foyer, Mezzanine, Grand Ballroom Balcony & Loews Theater Foyer

Sponsored By: **EPRI**

NY L

CONCURRENT SESSIONS: 1 to 10

11:00 am - 12:45 pm

1. Energy and Economic Growth 1

NY New Yorker Hotel Grand Ballroom

Gurkan S Kumbaroglu (Presiding)

PROFESSOR, BOGAZICI UNIVERSITY

Oil, Economic Growth, Clean Transportation Technologies and the Strategic Petroleum Reserve

Carmine DiFiglio

DEPUTY ASSISTANT SECRETARY, U.S. DEPARTMENT OF ENERGY

Energy and Economic Growth: The Stylized Facts

David I Stern

THE AUSTRALIAN NATIONAL UNIVERSITY

Mar Rubio

DEPT. OF ECONOMICS, UNIVERSIDAD PUBLICA DE NAVARRA

Zsuzsanna Csereklyei

DEPT. OF ECONOMICS, VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS

Energy Use and Economic Growth 1965 – 2012

Rognvaldur Hannesson

PROFESSOR, NORWEGIAN SCHOOL OF ECONOMICS

How Dependent is Growth from Primary Energy? An Empirical Answer on OECD Countries

Zeynep Kahraman

THE SHIFT PROJECT

Gaël Giraud

CENTRE D'ÉCONOMIE DE LA SORBONNE

The Role of Energy Technologies in Long Run Economic Growth

Fouquet Roger

LONDON SCHOOL OF ECONOMICS

2. Challenges in Energy Consumption Reduction

NY Herald Square Suite

Jean-Thomas Bernard (Presiding)

PROFESSOR, UNIVERSITE D'OTTAWA

New Evidence on the Decoupling of Income and Energy Consumption

David C Broadstock

PROFESSOR, TEAM FOR INTEGRATED ENERGY AND ENVIRONMENTAL RESEARCH STUDIES

Session Continued ↪

Assessing the Energy and Emission Reduction Potentials in the UK Industry Sector in the Scope of an Energy Systems Analysis

Birgit Fais
Neil Strachan
Nagore Sabio
 UCL ENERGY INSTITUTE, UNIVERSITY COLLEGE LONDON

Drivers of U.S. Household Energy Consumption, 1980-2009

Behjat Hojjati
 ENERGY INFORMATION ADMINISTRATION

Oil Phase Out in the Transportation Sector of Sweden – Costs and Consequences

Martin Börjesson
Erik O Ahlgren
 CHALMERS UNIV OF TECHNOLOGY

Robert Lundmark
 LULEÅ TECHNICAL UNIVERSITY

Dimitris Athanassiadis
 SWEDISH UNIV OF AGRICULTURAL SCIENCES

Role of Residential and Commercial Sectors in Meeting California’s 80 Percent GHG Emissions Reduction Goal by 2050 using CA-TIMES Model

Saleh Zakerinia
Sonia Yeh
Christopher Yang
 UNIVERSITY OF CALIFORNIA DAVIS

3. Demand for Liquid Fuels

NY Gramercy Park Suite

Sylvie D'Apote (*Presiding*)
 MANAGING PARTNER, PRYSMA E&T CONSULTORES

Gasoline Demand in Brazil: An Empirical Analysis

Thais M Vilela
Marcelo C Medeiros
Leonardo B Rezende
 DEPARTMENT OF ECONOMICS, PUC-RIO

Transportation Energy Demand and Emissions in China's Provinces to 2030

Paul N Kishimoto
Valerie J Karplus
 MIT JOINT PROGRAM ON THE SCIENCE & POLICY OF GLOBAL CHANGE

Da Zhang
 TSINGHUA UNIVERSITY, INSTITUTE FOR ENERGY, ENVIRONMENT & ECONOMY

Examining the Role of Technical Progress in Energy Demand and CO₂ Emissions in Nigeria: Policy Implications

Ibrahim A Tajudeen
 UNIVERSITY OF MANCHESTER

Session Continued ↗

How the Interaction of Supply and Demand Shapes Patterns of New Technology Adoption: Plug-In Electric Vehicles in California

Varun Rai
Vivek Nath
 THE UNIVERSITY OF TEXAS AT AUSTIN

Looking to the Andes: Long-term Scenarios of Oil Supply and Demand for Peru, Colombia and Ecuador

Mauro F Chavez-Rodriguez
R. Esperanza Gonzalez
Andre FP Lucena
Alexandre Szklo
Roberto Schaeffer
 ENERGY PLANNING PROGRAM COPPE/UFRJ

Alejandro Egüez
 LUND UNIVERSITY

Pablo Carvajal
 NATIONAL POLYTECHNIC SCHOOL OF ECUADOR

Juan Martinez Jaramillo
Santiago Arango Aramburo
 NATIONAL UNIVERSITY OF COLOMBIA

4. Investment in Electricity Markets

NY Sutton Place Suite

Robert E Borgstrom (*Presiding*)
 ADVISOR ON REGULATION, INDEPENDENT CONSULTANT

Electricity Market Modelling of Network Investments: Comparison of Zonal and Nodal Approaches

Sadhvi Ganga
Iain F MacGill
 UNIVERSITY OF NEW SOUTH WALES

Interaction between Capacity Markets and Investment into Renewable Energy in the Netherlands and Germany

Kaveri K Iychettira
Pradyumna C Bhagwat
Jörn C Richstein
Laurens J De Vries
 DELFT UNIVERSITY OF TECHNOLOGY

Modelling the Impact of Market Disequilibria on Power Plant Investment Profitability

Thomas Kallabis
Christoph Weber
 UNIVERSITY OF DUISBURG-ESSEN

Optimal Operation and Expansion Planning of Electricity Generation and Transmission Based on a Benders Decomposition Approach Applied to the German Power System up to 2050

Viktor Slednev
Fichtner Wolf
Valentin Bertsch
 KARLSRUHE INSTITUT OF TECHNOLOGY (KIT), INSTITUTE FOR INDUSTRIAL PRODUCTION (IIP)

Session Continued ↗

Modeling the Efficiency of the U.S. Fossil Fleet

David Luke Oates
Paulina Jaramillo
 CARNEGIE MELLON UNIVERSITY

5. Renewable Energies in Europe

NY Crystal Ballroom

Amela Ajanovic, *Presiding*
 SENIOR RESEARCH SCIENTIST,
 VIENNA UNIVERSITY OF TECHNOLOGY

Impact of German Electricity Generation from RES on European Electricity Markets

Fernando Oster
 TU BERLIN

Aggregated Costs of the German Energiewende: How to Improve Cost Effectiveness?

Georg Erdmann
 PROFESSOR, TU BERLIN

Effects of the German Energiewende on the Dutch Electricity Market

Machiel Mulder
 PROFESSOR, UNIVERSITY OF GRONINGEN / NETHERLANDS AUTHORITY FOR CONSUMERS & MARKETS

Implementing Renewables for Electricity—Experiences in Europe and Germany

Hermann-Josef Wagner
 RUHR-UNIVERSITÄT BOCHUM

French Energy Transition: A Unique in Depth Debate Organized in France

Christophe Bonneray
 FRENCH ASSOCIATION FOR ENERGY ECONOMICS

6. GHG Emissions Reduction

L Loews Theater 10

Filiz Karaosmanoglu (*Presiding*)
 PROFESSOR, ISTANBUL TECH. UNIVERSITY

Counting Consumption-Based Energy System Emissions: Linking an Energy System and EEIO Model

Hannah E Daly
Neil Strachan
 UCL ENERGY INSTITUTE

Kate Scott
John Barrett
 UNIVERSITY OF LEEDS

Is a Global Decrease in GHG Emissions Compatible With Some Local Increases in Oil Production?

Pierre-Olivier Pineau
 PROFESSOR, HEC MONTREAL,
 CHAIR IN ENERGY SECTOR MANAGEMENT

Session Continued ↘

Intergenerational Discounting and Market Rate of Return in OLG Version of RICE Model

Andrey Polbin

THE RUSSIAN PRESIDENTIAL ACADEMY OF NATIONAL ECONOMY AND PUBLIC ADMINISTRATION

Oleg Lugovoy

EDF; RANEPa

Science and the Stock Market: Investors' Recognition of Unburnable Carbon

Paul A Griffin

Amy Myers Jaffe

Rosa Dominguez-Faus

UNIVERSITY OF CALIFORNIA, DAVIS

David Lont

SCHOOL OF COMMERCE, UNIVERSITY OF OTAGO

Macroeconomic Impacts of the California Global Warming Solutions Act on the Southern California Economy

Dan Wei

Adam Rose

USC

7. IAEE Best Student Paper Award

NY Brooklyn Suite

Thomas E Drennen (Presiding)

PROFESSOR OF ECONOMICS
HOBART AND WILLIAM SMITH COLLEGES

Strategic Withholding Through Production Failures

Ewa Lazarczyk Carlson

Sara Fogelberg

IFN, STOCKHOLM SCHOOL OF ECONOMICS

Electricity Market Price Volatility: The Importance of Ramping Costs

Dan Werner

UNIVERSITY OF MARYLAND

From Boom to Bust? A Critical Look at US Shale Gas Projections

Philipp M Richter

DIW BERLIN

Bribes, Bureaucracies, and Blackouts: Towards Understanding How Corruption Impacts the Quality of Electricity Supply to End-Users in Transition and Developing Economies

Jacquelyn Pless

Harrison Fell

COLORADO SCHOOL OF MINES

Morgan Bazilian

COLUMBIA UNIVERSITY

8. Carbon Pricing 1

L Loews Theater 11

Ronald D Ripple (Presiding)

PROFESSOR OF ENERGY BUS. AND FIN., UNIVERSITY OF TULSA

The Grey Paradox: How Owners of Carbon-Emitting Resources Can Benefit

Renaud Coulomb

LONDON SCHOOL OF ECONOMICS AND ECOLE CENTRALE
PARIS

Fanny Henriot

PSE, CNRS

Would Border Carbon Adjustments Prevent Carbon Leakage and Heavy Industry Competitiveness Losses? Insights From a Meta-Analysis of Recent Economic Studies

Frederic Branger

Philippe Quirion

CIREP

Designing a Global Differentiated Carbon Tax Scheme Based on the Cost Fairness Principle

Lei Zhu

Ying Fan

Lianbiao Cui

CENTER FOR ENERGY AND ENVIRONMENTAL POLICY RESEARCH, INSTITUTE OF POLICY AND MANAGEMENT, CHINESE ACADEMY OF SCIENCES

Estimating an Idealized Carbon Tax Via Dispatch Protocols

Amy Sopinka

Ariane Ouellette

Lawrence Pitt

UNIVERSITY OF VICTORIA

Output-Based Rebating and Competitiveness: Optimal Unilateral Carbon Policies When Playing with Others

Taran Fæhn

Brita Bye

STATISTICS NORWAY

Knut Einar Rosendahl

UNIVERSITY OF LIFE SCIENCES

Christoph Böhringer

UNIVERSITY OF OLDENBURG

9. OPEC and Geopolitical Issues

L Loews Theater 12

Arnold B Baker (Presiding)

PRINCIPAL, ABB CONSULTING

Major Geopolitical Developments That Could Impact on Oil Supplies from the Arab Gulf Region

Mamdouh G Salameh

WORLD BANK, WASHINGTON DC / OIL MARKET CONSULTANCY SERVICE, UK

Session Continued ↗

Crude Oil Price Movements: Implications of World Oil Market Regime and Strategic Supply

Xin Jin

UNIVERSITY OF ABERDEEN

Mine K Yucel

FEDERAL RESERVE BANK IN DALLAS

Nathan Balke

SOUTHERN METHODIST UNIVERSITY

Market Power in the World Oil Market: Evidence for an OPEC Cartel and an Oligopolistic Non-OPEC Fringe

CY Cynthia Lin

UNIVERSITY OF CALIFORNIA AT DAVIS

Output Adjusting Cartels Facing Dynamic, Convex Demand under Uncertainty: The Case of OPEC

Franz Wirl

UNIVERSITY OF VIENNA

OPEC's Kinked Demand Curve

Marc H Vatter

ECONOMIST, ECONOMIC INSIGHT, INC.

10. Energy Efficiency

L Loews Theater 14

Ricardo Raineri (Presiding)

ALTERNATE EXECUTIVE DIRECTOR FOR ARGENTINA, BOLIVIA, CHILE, PARAGUAY, PERU AND URUGUAY
THE WORLD BANK GROUP

Energy Efficiency and Price Regulation

Xuemei Zheng

Flavio Marques Menezes

THE UNIVERSITY OF QUEENSLAND

Joisa Dutra

CENTRE FOR REGULATION, FGV

Energy Efficiency Determinants: An Empirical Analysis for Spanish Innovative Firms

Jose Garcia-Quevedo

M Teresa Costa-Campi

UNIVERSITY OF BARCELONA

Agusti Segarra

ROVIRA I VIRGILI UNIVERSITY

Target versus Price: Improving Energy Efficiency of Industrial Firms in China

Kuangyuan Zhang

PENN STATE UNIVERSITY

The Impact of Increased Energy Efficiency: A Computable General Equilibrium Analysis for Spain

Pablo Arocena

Sofía Peña

Antonio Gómez

UNIVERSIDAD PÚBLICA DE NAVARRA

Creating an Energy Efficiency "Marketplace" Within City Government Operations

Kristin Barbato

Emily Small

NYC DCAS ENERGY MANAGEMENT

VENUE KEY:

NY NEW YORKER HOTEL

L LOEWS THEATER

MC MANHATTAN CENTER

Lunch & Poster Session

12:45 pm - 2:00 pm /
Manhattan Center Grand Ballroom

MC

These are not just stand-up buffet lunches—they are also great opportunities for all conference delegates to mingle with—and learn from—students who will be presenting posters of their recent academic work in the room where lunch will be available. At this unique event you will be able to network with students and colleagues around energy topics in which you share a common interest. There will be two sets of posters, one on Monday and another on Tuesday. So don't wait in a long line for food and drink, be first to engage with the students and their posters during these 1¼ hour long breaks from the main conference.

See page 19 for a full list of poster session participants.

DUAL PLenary SESSION: Energy & The Economy

2:00 pm - 3:30 pm /
New Yorker Hotel Grand Ballroom

NY

The panel will discuss energy prices and US economic activity. The panel will address whether increased US oil and gas production from shale has impacted energy security, the trade balance and the effects of oil price shocks on the economy.

Mine Yucel (*Presiding*)
VICE PRESIDENT & SR ECONOMIST,
FEDERAL RESERVE BANK OF DALLAS

Lutz Kilian
PROFESSOR OF ECONOMICS, UNIVERSITY OF MICHIGAN

Prakash Loungani
ADVISOR, RESEARCH DEPARTMENT,
INTERNATIONAL MONETARY FUND

Philip K. Verleger, Jr.
PRESIDENT, PK VERLEGER LLC

DUAL PLenary SESSION: Renewables, Power Prices, and Grid Integration

2:00 pm - 3:30 pm / Crystal Ballroom

NY

The panel will address key issues associated with increasing amounts of renewables on the critical decisions and impacts for grid operators, utilities and other key stakeholders. The panel will present a breadth of perspectives, and address technical, regulatory, economic, and "business model" implications for the power sector, for different structures from different countries & states.

Douglas Arent (*Presiding*)
EXECUTIVE DIRECTOR JISEA,
NATIONAL RENEWABLE ENERGY LAB

Session Continued ↗

Karsten Neuhoff
HEAD OF DEPARTMENT, GERMAN INSTITUTE FOR
ECONOMIC RESEARCH (DIW BERLIN) AND PROFESSOR
TECHNICAL UNIVERSITY BERLIN

Jose Maria Valenzuela
DIRECTOR DE SUSTENTABILIDAD ENERGETICA,
SECRETARIA DE ENERGIA, GOVERNMENT OF MEXICO

Everett W. Whitaker
MANAGING DIRECTOR, POLICY & PLANNING,
POWER ECONOMICS ENERGY CONSULTING, USA,
GE ENERGY MANAGEMENT

Coffee Break



3:30 pm - 4:00 pm / Foyer, Mezzanine, Grand
Ballroom Balcony & Loews Theater Foyer

NY L

CONCURRENT SESSIONS: 11 to 20

4:00 pm - 5:45 pm

11. Energy and Economic Growth 2

NY New Yorker Hotel Grand Ballroom

Pierre O Pineau (*Presiding*)
PROFESSOR, HEC MONTREAL

A Multiphases Analysis of China's Energy Consumption And Economic Growth Nexus

Xiaoqi Sun
Haizhong An
Xiaoliang Jia
Lijun Wang
CHINA UNIVERSITY OF GEOSCIENCES, BEIJING

Energy and Chaos: Modelling Energy in a Dynamical Growth Model with Chaotic Bifurcation

Gaël Giraud
CENTRE D'ÉCONOMIE DE LA SORBONNE

Explaining the Causality between Economic Growth and CO₂ Emissions in Taiwan: A Multivariate Sectoral Analysis

Cheng-Da Yuan
Fu-Kuang Ko
Hui-Chih Chai
INSTITUTE OF NUCLEAR ENERGY RESEARCH (INER)/
CENTER OF ENERGY ECONOMICS AND STRATEGY RESEARCH

Power System and Economic Growth: Twenty Years after the End of the Soviet Era

Malika A Saidkhodjaeva
MOSCOW STATE UNIVERSITY
Kholisakhon R Saidkhodjaeva
TASHKENT STATE TECHNICAL UNIVERSITY

Session Continued ↗

The Implication of Limited Conventional Fossil Fuels and Declining EROI on Economic Growth in China

Lianyong Feng
Jingxuan Feng
Chaoren Jin
Yingchao Chen
CHINA UNIVERSITY OF PETROLEUM, BEIJING

Bin Chen
BEIJING NORMAL UNIVERSITY

William Wei
GRANT MACEWAN UNIVERSITY

Yan Hu
SINOPEC GROUP EXPLORATION &
PRODUCTION RESEARCH INSTITUTE

12. Unconventional Natural Gas

NY Herald Square Suite

Surya Rajan (*Presiding*)
DIRECTOR, STRATEGY, BAKER HUGHES

Can Natural Gas Be a Bridge to a Global Low-Carbon Energy System?

Christophe E McGlade
UCL INSTITUTE FOR SUSTAINABLE RESOURCES
(UNIVERSITY COLLEGE LONDON)

A Comparison of Air Emissions from Natural Gas Pathways for Road Transportation

Fan Tong
Inês L Azevedo
Paulina Jaramillo
CARNEGIE MELLON UNIVERSITY

Unconventional Gas: What Value for the Option to Develop?

Oana Ionescu
EDDEN, GRENOBLE INSTITUTE OF TECHNOLOGY

Catherine Locatelli
EDDEN-CNRS

Marginal Cost Curves For Conventional and Unconventional Natural Gas Production

Chi Kong Chyong
David Reiner
Arjun Mahalingam
EPRG, UNIVERSITY OF CAMBRIDGE

An Agent-Based Modeling Approach to Non-Equilibrium Dynamics of Natural Gas Supply Shock Propagation

Alexander V Outkin
Vanessa N Vargas
Peter H Kobos
Barter Garrett
Melissa M Myerly
SANDIA NATIONAL LABORATORIES

13. Cap-And-Trade

NY Gramercy Park Suite

Adonis Yatchew (*Presiding*)

PROFESSOR, DEPARTMENT OF ECONOMICS,
UNIVERSITY OF TORONTO

What's Impact of the Allocation of Carbon Permits on the Cost-Effectiveness of Carbon Trading Market?

Duan Hongbo
Fan Ying
Zhu Lei

UNIVERSITY OF CHINESE ACADEMY OF SCIENCES

Gürkan Kumbaroglu
BOGAZICI UNIVERSITY

Study the Sector Coverage in the ETS in China

Ying Fan
CEEP, IPM, CHINESE ACADEMY OF SCIENCES

Lei Zhu
Xu Wang
CEEP, IPM, CHINESE ACADEMY OF SCIENCES

The Stability Reserve in EU Carbon Emission Trading: Does it Deliver What it Promises?

Joern C Richstein
Laurens J de Vries
Emile J Chappin
DELFT UNIVERSITY OF TECHNOLOGY

Resource Shuffling and the California Carbon Market

Danny Cullenward
BERKELEY ENERGY AND CLIMATE INSTITUTE

David Weiskopf
STANFORD LAW SCHOOL (FORMER)

Speculation Investigation from Microcosmic Traders Behaviors and Its Effects on Carbon Price in EU-ETS

Guo Jianfeng
Liu Yinpeng
CENTER FOR ENERGY & ENVIRONMENTAL POLICY RESEARCH,
INSTITUTE OF POLICY AND MANAGEMENT,
CHINESE ACADEMY OF SCIENCES

14. Energy Subsidies and Taxes

NY Sutton Place Suite

Carol A Dahl (*Presiding*)

RESEARCH PROFESSOR, COLORADO SCHOOL OF MINES

Fuel Subsidies and the Global Oil Market

Michael Plante
Mine K Yucel
FEDERAL RESERVE BANK OF DALLAS

Nathan Balke
SOUTHERN METHODIST UNIVERSITY

Rebound Effects and Fossil Subsidies Reform in China

Qin Bao
Liang Dong
Hong Li
ACADEMY OF MATHEMATICS AND SYSTEMS SCIENCE,
CHINESE ACADEMY OF SCIENCES

How OECD Countries Subsidizes Oil and Natural Gas Producers and Modeling the Consequences

Xu Zhao
CHINA UNIVERSITY OF PETROLEUM, BEIJING
Carol A Dahl
COLORADO SCHOOL OF MINES

Vertical Fiscal Externalities and the Environment

Hidemichi Yonezawa
Nicholas Rivers
UNIVERSITY OF OTTAWA

Christoph Böhringer
UNIVERSITY OF OLDENBURG

A Computable General Equilibrium Model of Energy Taxation with Endogenous Resource Supply and Flexible Substitution

Andre J Barbe
RICE UNIVERSITY

15. Support Schemes for Renewable Energy

NY Crystal Ballroom

Christophe Bonnery (*Presiding*)
PRESIDENT, F-AEE

On the Economics of Decentralized Battery-Supported Photovoltaic Systems

Albert Hiesl
Reinhard Haas
VIENNA UNIVERSITY OF TECHNOLOGY

Are Households with Solar Rooftop PV Systems More or Less Likely to Support Energy Service Company (ESCO) Services?

Zaida M Contreras
Michelle Rodriguez
Peta Ashworth
Lygia Romanach
CSIRO

Joint Support Scheme as Solution to the Post 2020 Problem

Lise-Lotte Pade
Henrik K Jacobsen
Lise Skovsgaard
TECHNICAL UNIVERSITY OF DENMARK

Session Continued ↗

The Cost Effectiveness of Renewable Energy Support Schemes in the European Union

Arjun Mahalingam
David MG Newbery
David M Reiner
EPRG, UNIVERSITY OF CAMBRIDGE

Financial Impacts of Distributed PV on Utility Rates and Profitability

Andrew Satchwell
Galen Barbose
Andrew Mills
LAWRENCE BERKELEY NATIONAL LAB

16. Electricity Modeling 1

L Loews Theater 10

Karen Palmer (*Presiding*)
SR. FELLOW & RESEARCH DIRECTOR,
RESOURCES FOR THE FUTURE

A Structural Econometric Model of the Dynamic Hourly Electricity Production Game in California

Derek Nixon
CY Cynthia Lin
UNIVERSITY OF CALIFORNIA, DAVIS

Modelling Welfare Loss in Iranian Electricity Market

Ali Nazemi
Mehdi Mashayekhi
UNIVERSITY OF ECONOMIC SCIENCES OF TEHRAN

Forecasting Electricity Spot Prices Using Time-Series Models with a Double Temporal Segmentation

Sophie Meritet
Julien Fouquau
Marie Bessec
UNIVERSITÉ PARIS DAUPHINE

Modeling the Ability of Thermal Units to Perform Load Changes in Energy Systems

Sonja Babrowski
Wolf Fichtner
Patrick Jochem
KARLSRUHE INSTITUTE OF TECHNOLOGY (KIT)

Transforming Electric Generation Planning Models to Meet Sustainable Energy Policy Goals

Cynthia D Bothwell
JOHNS HOPKINS UNIVERSITY
Mariano Ventosa
UNIVERSIDAD PONTIFICIA COMILLAS

Session Continued ↗

17. Case Competition

NY Brooklyn Suite

Eric Hittinger (*Presiding*)
ASSISTANT PROFESSOR,
ROCHESTER INSTITUTE OF TECHNOLOGY

Team #1 - Case Competition

Firas Abu-Sneneh
Jeff Kessler
Jacob Humber
UNIVERSITY OF CALIFORNIA, DAVIS

Team #2 - Case Competition

Markus Lang
William Martin
Dillon Nichols
Ethan Rutledge
Jerrod Penn
UNIVERSITY OF KENTUCKY

Team #3 - Case Competition

Yichen Du
Arthur Yip
Justin Montgomery
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

18. Energy Price Analysis

L Loews Theater 11

Jerald J Fletcher (*Presiding*)
PROFESSOR AND DIRECTOR - NRAC, WEST VIRGINIA UNIVERSITY

Welfare Effects of Nonlinear Electricity Pricing

Jung You
RICE UNIVERSITY

The Relationship Between Seller Density and Retail Prices: Empirical Evidence for the Spanish Automotive Fuels Market

Ignacio Contín
Alejandro Bello
Pablo Arocena
UNIVERSIDAD PÚBLICA DE NAVARRA

The Potential for Real-Time Pricing in Sweden

Mattias Vesterberg
Chandra Kiran B Krishnamurthy
UMEÅ UNIVERSITY

Oben Bayrak
SWEDISH UNIVERSITY OF AGRICULTURAL SCIENCES

Forward-looking Energy Elasticity Parameters for Nested CES Production Function

Oleg Lugovoy
ENVIRONMENTAL DEFENSE FUND

Vladimir Potashnikov
RUSSIAN PRESIDENTIAL ACADEMY OF NATIONAL ECONOMY AND PUBLIC ADMINISTRATION

The Long-Run Evolution of Energy Prices

Frederick Joutz
KAPSARC
Mine K Yucel
FEDERAL RESERVE BANK OF DALLAS

19. Social Impacts of Oil

L Loews Theater 12

Shree Vikas (*Presiding*)
DIRECTOR, TECH. & PROJECTS, CONOCOPHILLIPS

On Relating US and UK Energy Expenditures (Net Energy), Debt, and Interest Rates

Carey W King
ASSISTANT DIRECTOR, ENERGY INSTITUTE,
UNIVERSITY OF TEXAS AT AUSTIN

What is the Welfare Social Cost of Oil Price?

Marc Joëts
IPAG BUSINESS SCHOOL
Tovonony Razafindrabe
UNIVERSITY OF PARIS WEST

The Impact of Local Market Conditions on the Federal Disability Insurance Program: Evidence from the Bakken Oil Boom

Mallory C Vachon
SYRACUSE UNIVERSITY

The Oil Price Boom in the 2000's: A Relief to the Oil Curse?

Thiago Periard
PETROBRAS
Luciano D. Losekann
UFF

Implications of an Inflation-Adjusted Fuel Tax on Government Revenue and Consumer Welfare

John Marron
INDIANA UNIVERSITY PUBLIC POLICY INSTITUTE
Jerome Dumortier
Fengxiu Zhang
IUPUI

20. Rebound Effect Analysis

L Loews Theater 14

Peter R Hartley (*Presiding*)
PROFESSOR & BAKER INSTITUTE SCHOLAR, RICE UNIVERSITY

Beyond National Economy-Wide Rebound Effects: An Applied General Equilibrium Analysis Incorporating International Spillover Effects

Karen Turner
HERIOT WATT UNIVERSITY

John K Swales
UNIVERSITY OF STRATHCLYDE

Simon Koesler
ZEW

Energy Efficiency and Household Behavior: The Rebound Effect in the Residential Sector

Erdal Aydin
Dirk Brounen
TILBURG UNIVERSITY
Nils Kok
MAASTRICHT UNIVERSITY

Session Continued ↗

Rebound Effects from Efficiency Improvement: Estimating Income and Substitution Effects for UK Households

Mona Chitnis
UNIVERSITY OF ABERDEEN

Angela Druckman
UNIVERSITY OF SURREY

Steve Sorrell
UNIVERSITY OF SUSSEX

Promoting Dieselization of the European Car Fleet: Was it Worth it?

Amela Ajanovic
Reinhard Haas
VIENNA UNIVERSITY OF TECHNOLOGY

An Empirical Analysis of Marginal Efficiency Gains Within and Across End Uses: Implications for the Rebound Effect for Households

Nour El Imane Bouhou
Michael F Blackhurst
UNIVERSITY OF TEXAS AT AUSTIN

IAEE Awards Dinner

7:00 pm - 10:00 pm /
Manhattan Center Grand Ballroom

MC

IAEE Student Happy Hour

9:30 pm - 11:00 pm

Stout
133 West 33rd Street
New York, NY 10001

Sponsored By: Norwegian School of Economics

VENUE KEY:

- NY** NEW YORKER HOTEL
- L** LOEWS THEATER
- MC** MANHATTAN CENTER

TUESDAY, JUNE 17

REGISTRATION

7:00 am - 6:30 pm / Kips Bay Suite



2015 Pittsburgh USAEE/IAEE North American Conference Planning Meeting (By Invitation)

8:00 am - 9:00am / Sutton Place Suite



5th ELAEE Conference Planning Meeting (By Invitation)

8:00 am - 9:00 am / Gramercy Park Suite



Energy Journal Board of Editors Meeting (By Invitation)

8:00 am - 9:00 am / Herald Square Suite



Continental Breakfast



8:15 am - 9:00 am / Foyer, Mezzanine & Grand Ballroom Balcony

Presider's Huddle

8:30 am - 8:50 am / Mezzanine 2nd Floor



DUAL PLENARY SESSION: International Shale Development: Prospects and Challenges

9:00 am - 10:30 am / New Yorker Hotel Grand Ballroom



Top energy economists and environmental specialists will speak to the broad array of challenges facing shale oil and gas development globally, including industry structure, price stability and market mechanisms, as well as physical and environmental concerns over water resources, groundwater and methane leakage. The panel will assume a collaborative, forward-looking posture in focusing on solutions that work, timing, and obstacles that must be faced and resolved.

Benjamin Schlesinger (Presiding)
PRESIDENT, BENJAMIN SCHLESINGER & ASSOC LLC

Surya Rajan
DIRECTOR, STRATEGY, BAKER HUGHES

Edward Morse
MANAGING DIRECTOR AND GLOBAL HEAD - COMMODITIES, CITI RESEARCH

Daniel Tormey
PRINCIPAL, ENVIRON CORPORATION

DUAL PLENARY SESSION: Transportation Developments

9:00 am - 10:30 am / Crystal Ballroom



High global oil prices have encouraged innovation and conservation in many key use sectors, and environmental drivers are also driving rapid acceptance of new technologies. This trend is now gaining momentum globally in the transportation sector where local and federal government policies are accelerating the pace of penetration of new more efficient vehicles and adoption of alternative fuels. The purpose of this session is to discuss both policy and commercial drivers to these challengers to incumbent fuels and vehicle designs and their ultimate impact on the future of the transportation sector fuel mix.

Amy M. Jaffe (Presiding)
EXECUTIVE DIRECTOR, INSTITUTE OF TRANSPORTATION STUDIES, UNIVERSITY OF CALIFORNIA, DAVIS

Sonia Yeh
RESEARCH SCIENTIST AND LECTURER, UNIVERSITY OF CALIFORNIA, DAVIS

Anthony Yuen
DIRECTOR AND GLOBAL ENERGY STRATEGIST, CITI RESEARCH

Juan Miguel Velasquez
ASSOCIATE, WORLD RESOURCES INSTITUTE

Coffee Break



10:30 am - 11:00 am / Foyer, Mezzanine, Grand Ballroom Balcony & Loews Theater Foyer

Sponsored By: **ConocoPhillips**



CONCURRENT SESSIONS: 21 to 30

11:00 am - 12:45 pm

21. Shale Gas Analysis

NY New Yorker Hotel Grand Ballroom

James L Smith (Presiding)
PROFESSOR OF FINANCE, SOUTHERN METHODIST UNIVERSITY

Modeling the Impact of the Shale Gas Revolution on the Petrochemical and Crude Oil Refining Sectors of North America

Robert E Brooks
PRESIDENT, RBAC INC

Can the U.S. Shale Revolution Be Duplicated in Europe?

Aurélien Saussay
FRENCH ECONOMIC OBSERVATORY

Session Continued ↗

Shale Oil and Gas Booms and Emission Reduction Targets: Tradeoffs between Gains and Costs

Farzad Taheripour
Wallace E Tyner
PURDUE UNIVERSITY

Shale Gas Development and Housing Values Over a Decade: Evidence from the Barnett Shale

Jeremy G Weber
Irene M Xiarchos
U.S. DEPT OF AGRICULTURE

Wesley Burnett
WEST VIRGINIA UNIVERSITY

Technical Efficiency Among Gas Producers in the Barnett Shale Play

Likeleli Seithheko
RICE UNIVERSITY

22. Carbon Regulation and Electricity

NY Herald Square Suite

Michael J. Grubb (Presiding)
PROFESSOR, CAMBRIDGE UNIVERSITY

Carbon Emissions in the Western Interconnect—Estimating the Impact of VERs

Amy Sopinka
Lawrence Pitt
UNIVERSITY OF VICTORIA

Cost of Carbon Emissions Abatement in the Ontario Electricity Market: 2006 to 2011

Derek E H Olmstead
ECONOMIST, MARKET SURVEILLANCE ADMINISTRATOR, CARLETON UNIVERSITY

Low-Carbon Power Policy and its Implication on Electricity Prices and Demand

Isaac Dynner
UNIVERSIDAD JORGE TADEO LOZANO

Oscar Fernandez
EMPRESAS PUBLICAS DE MEDELLIN

Laura Cardenas
Carlos Franco
UNIVERSIDAD NACIONAL DE COLOMBIA

Incentives for Early Adoption of Carbon Capture Technology

Stephen D Comello
Stefan J Reichelstein
STANFORD GRADUATE SCHOOL OF BUSINESS

Energy and Capacity Market Price Effects of Carbon Mitigation Policies in Restructured Markets

Jared T Moore
M Granger Morgan
Jay Apt
CARNEGIE MELLON UNIVERSITY

23. Electricity Market Regulation 1

NY Gramercy Park Suite

Andrew Coleman (*Presiding*)
SENIOR PROGRAM MANAGER, STRATEGY, EPRI

Electricity Regulation under Market Information Disclosure

Lavinia Hollanda
Humberto Moreira
Rafael Mourao
FGV ENERGIA

Capacity Markets in Europe – Assessing the Benefits of Coordinated Mechanisms versus National Approaches

Michael Bucksteeg
Christoph Weber
UNIVERSITY OF DUISBURG-ESSEN, CHAIR FOR MANAGEMENT SCIENCE AND ENERGY ECONOMICS

Electricity Market Reform in Turkey: Developments and Lessons Learned from 2001 to 2013

Mustafa Gozen
Deniz Dastan
ENERGY MARKET REGULATORY AUTHORITY OF TURKEY

Designing the Market Design for the Electricity System of the Future

Hamilcar Knops
Laurens De Vries
DELFT UNIVERSITY OF TECHNOLOGY

Annelies Huygen
TNO

Factoring Strategic and Sustainability Considerations into Energy Sector Regulation

Michael J Grubb
Jennifer Mills
OFGEM

24. Change in the Transportation Sector

NY Sutton Place Suite

Paul N. Leib (*Presiding*)
GROUP LEADER, ENERGY ANALYSIS,
OAK RIDGE NATIONAL LABORATORY

Effects of Life Cycle Cost Information Disclosure on the Purchase Decision of Hybrid and Plug-In Vehicles

Jerome Dumortier
Saba Siddiki
INDIANA UNIVERSITY - PURDUE UNIVERSITY INDIANAPOLIS

Sanya Carley
John Graham
Joshua Cisney
John A Rupp
INDIANA UNIVERSITY

Bradley W Lane
Rachel M Krause
UNIVERSITY OF KANSAS

Session Continued ↗

Global Hydrogen Resource Analysis for the Transport Sector

Thomas Drennen
SANDIA NATIONAL LABORATORIES

Susan M Schoenung
LONGITUDE 122 WEST INC

Optimal Policy for Plug-In Hybrid Electric Vehicles Adoption

Emrah Ozkaya
Paul V Preckel
Andrew Liu
PURDUE UNIVERSITY

Douglas J Gotham
STATE UTILITY FORECASTING GROUP

Analysis of Policies Aimed at Increasing Use of Natural Gas in the Transportation System

Kemal Sarica
ISIK UNIVERSITY

Wallace E. Tyner
PURDUE UNIVERSITY

The Energy Security Benefits of Electric Vehicles

Paul Leiby
OAK RIDGE NATIONAL LABORATORY

Edmund Coe
Michael Shelby
U.S. EPA OTAQ

25. Renewable Subsidies

NY Crystal Ballroom

Georg Erdmann (*Presiding*)
PROFESSOR, BERLIN UNIVERSITY OF TECHNOLOGY

Combining Tariffs, Investment Subsidies and Soft Loans in a Renewable Electricity Deployment Policy

Pere Mir-Artigues
PROFESSOR, CHAIR OF ENERGY AND ENVIRONMENTAL SUSTAINABILITY

Market Structure and Subsidy Pass-through for Distributed Solar: Lessons from California

Changgui Dong
Varun Rai
UNIVERSITY OF TEXAS AT AUSTIN

Ryan Wisser
LAWRENCE BERKELEY NATIONAL LABORATORY

Optimal Subsidy Design: Is California Solar Initiative Over-subsidizing or Under-subsidizing?

Changgui Dong
Varun Rai
UNIVERSITY OF TEXAS AT AUSTIN

The Economic Effect of Net-Metering Schemes on Cross Subsidies Between Network Users

Cherrelle Eid
Pablo Frías Marín
Javier Reneses Guillén
INSTITUTO DE INVESTIGACIÓN TECNOLÓGICA,
UNIVERSIDAD PONTIFICIA COMILLAS

Rudi Hakvoort
DELFT UNIVERSITY OF TECHNOLOGY

Session Continued ↗

An Econometric Analysis of Support Scheme Effects on Investment in Renewable Energy

Torjus F Bolkesjø
Nygaard Erik
Eltvig Petter
NORWEGIAN UNIVERSITY OF LIFE SCIENCES

26. Electricity Modeling 2

L Loews Theater 10

Yukari Yamashita (*Presiding*)
BOARD MEMBER DIRECTOR,
INSTITUTE OF ENERGY ECONOMICS

Power Systems Modeling: Common Methodologies to Address Fuel, CO₂, and Water Needs

Chris Nichols
Tim Grant
Chuck Zelek
NATIONAL ENERGY TECHNOLOGY LABORATORY

Peter H Kobos
SANDIA NATIONAL LABORATORIES | VIEW PAPER

Integrated Electric System Planning and Dispatch: Coal Retirement Decisions with Gas Market Stability Issues

Donald A Hanson
David K Schmalzer
ARGONNE NATIONAL LAB

The Decisive Role of the Carbon Storage Potential in the Deployment of the CCS Option

Sandrine Seloisse
MINES PARISTECH - CENTRE FOR APPLIED MATHEMATICS

Govind Malhotra
INDIAN INSTITUTE OF TECHNOLOGY (BHU)

Olivia Ricci
UNIVERSITY OF REUNION

Photovoltaics and Storage Plants: Efficient Capacities in a System View

Benjamin Böcker
Christoph Weber
Bjarne Steffen
CHAIR FOR MANAGEMENT SCIENCES AND ENERGY ECONOMICS, UNIVERSITY DUISBURG-ESSEN

Stochastic Modeling of the Feed in of Wind Using a Second Order Markov Chain

Thiemo Pesch
RESEARCH CENTER JÜLICH

Jürgen-Friedrich Hake
FZ JÜLICH

Hans-Josef Allelein
RWTH AACHEN UNIVERSITY

VENUE KEY:

NY NEW YORKER HOTEL
L LOEWS THEATER
MC MANHATTAN CENTER

27. Oil Prices and Finance

NY Brooklyn Suite

Amy Bason (*Presiding*)
RESEARCH ANALYST, ARAMCO SERVICES COMPANY

Financialization of Oil Futures Markets and Oil Futures Market Efficiency: A Multifractal Perspective

Marc Gronwald
UNIVERSITY OF ABERDEEN BUSINESS SCHOOL

Cristina Sattarhoff
UNIVERSITY OF HAMBURG

Do Major Brands Have Market Power in the German Retail Gas Market?

Nolan Ritter
Colin J Vance
RHEINISCH-WESTFÄLISCHES INSTITUT FÜR WIRTSCHAFTSFORSCHUNG

Alex Kihm
DEUTSCHES ZENTRUM FÜR LUFT- UND RAUMFAHRT

How Persistent Are Shocks to Oil Prices?

Atanu Ghoshray
UNIVERSITY OF BATH

Fundamentals, Derivatives Market Information, and Crude Oil Price Swings

Michel A Robe
Jonathan Wallen
AMERICAN UNIVERSITY

28. Biofuels

L Loews Theater 11

Mark McCarthy (*Presiding*)
SENIOR ENERGY RESEARCHER,
TOYOTA MOTOR NORTH AMERICA INC.

Economical and Environmental Life Cycle Analysis for Bioethanol

Merve Nazli Borand
YALOVA UNIVERSITY

Filiz Karaosmanoglu
ISTANBUL TECHNICAL UNIVERSITY

Asli Isler
THE SCIENTIFIC AND TECHNOLOGICAL RESOURCE COUNCIL OF TURKEY

Measuring the Effects of Ethanol and Flex-Fuel Vehicles on Brazilian Gasoline Supply and Demand: A Simultaneous Equations Approach

Justin P Martinez
EAI INC / COLORADO STATE UNIVERSITY

Compliance Costs and RIN Prices under the Renewable Fuel Standard

Gabriel Lade
CY Cynthia Lin
Aaron Smith
UNIVERSITY OF CALIFORNIA, DAVIS

A Commercialization Case Study of CO₂ Conversion to Alcohol Fuels as an Economic Growth Strategy

Mark A Edelman
IOWA STATE UNIVERSITY / AGG LLC

Gary C Young
BIO-THERMAL-ENERGY INC.

John C Wooley
EE-CO2 LLC

Eric Wagner
TECHNIP, STONE & WEBSTER PROCESS TECHNOLOGY, INC.

The Impact of Grain Biofuels on Global Grain Prices: A Counterfactual Economic Analysis

Brian D Wright
UNIVERSITY OF CALIFORNIA AT BERKELEY

Di Zeng
LAWRENCE BERKELEY NATIONAL LAB

Eugenio Bobenrieth
PONTIFICAL CATHOLIC UNIVERSITY OF CHILE

29. Oligopolistic Behavior in Energy Markets

L Loews Theater 12

Andre Plourde (*Presiding*)
DEAN, FACULTY OF PUBLIC AFFAIRS, CARLETON UNIVERSITY

Quantitative Analysis of Gas Supply Strategies from a German Plant Operator's Perspective

Andreas Henke
Nadja Loeper
TECHNISCHE UNIVERSITÄT DORTMUND

Measuring Oligopsony Market Power in Italian Electricity Market. Preliminary Results

Carlo Andrea Bollino
PROFESSOR, UNIVERSITY OF PERUGIA AND AIEE

A Game Between Two Interconnected Players

Sébastien Debia
Georges Zaccour
Pierre-Olivier Pineau
HEC MONTRÉAL

Modelling the Australian Domestic Gas Market: A Mixed Complementarity Approach to with Oligopolistic Behaviour

Liam Wagner
RESEARCH FELLOW, UNIVERSITY OF QUEENSLAND

Short-Run Effects of Bleaker Prospects for Oligopolistic Producers of a Non-Renewable Resource

Kristine M Grimsrud
Halvor Briseid Storrøsten
STATISTICS NORWAY

Marina Tsygankova
THOMSON REUTERS POINT CARBON

Knut Einar Rosendahl
UMB SCHOOL OF ECONOMICS AND BUSINESS AND STATISTICS NORWAY

30. Analysis of Electricity Market

L Loews Theater 14

Ramses Omar Cabrales (*Presiding*)
ENERGY INDUSTRY ANALYST,
FEDERAL ENERGY REGULATORY COMM

Market Power versus Risk Premium: The Cases of PJM and JEPX

Masahiro Ishii
SOPHIA UNIVERSITY

Motokazu Ishizaka
FUKUOKA UNIVERSITY

Koichiro Tezuka
NIHON UNIVERSITY

Exploring the Reliability of U.S. Electric Utilities

Peter Larsen
LAWRENCE BERKELEY NATIONAL LABORATORY/STANFORD UNIVERSITY

Joseph Eto
Kristina Hamachi-LaCommare
LAWRENCE BERKELEY NATIONAL LABORATORY

James Sweeney
STANFORD UNIVERSITY

On the Future of Electricity Supply: Competitive Markets or Planned Economies?

Reinhard Haas
EEG, TU WIEN

Michael Hartner
Hans Auer
EEG

Internalizing the Environmental Externalities of Power Generation in the USA: Exploration of the Effects Using an Air Pollution Model and a New National Grid Model

Daniel Shawhan
Biao Mao
RENSSELAER POLYTECHNIC INSTITUTE

Nan Li
Daniel Tylavsky
ARIZONA STATE UNIVERSITY

Ray Zimmerman
Jubo Yan
William Schulze
CORNELL UNIVERSITY

Charles Marquet
UNIVERSITY OF SOUTHERN CALIFORNIA

John Taber
US FEDERAL ENERGY REGULATORY COMMISSION

Risk Hedging and Competition: The Case of Energy Markets

Raphaël Homayoun Boroumand
ASSOCIATE PROFESSOR, ESG MANAGEMENT SCHOOL PARIS

Lunch & Poster Session

12:45 pm - 2:00 pm /
Manhattan Center Grand Ballroom

MC

These are not just stand-up buffet lunches—they are also great opportunities for all conference delegates to mingle with—and learn from—students who will be presenting posters of their recent academic work in the room where lunch will be available. At this unique event you will be able to network with students and colleagues around energy topics in which you share a common interest. There will be two sets of posters, one on Monday and another on Tuesday. So don't wait in a long line for food and drink, be first to engage with the students and their posters during these 1¼ hour long breaks from the main conference.

See page 20 for a full list of poster session participants.

**DUAL PLENARY SESSION:
Oil & Gas Reserve Valuation
& Financing**

2:00 pm - 3:30 pm /
New Yorker Hotel Grand Ballroom

NY

This session will focus on resource assessment techniques, the process of a firm's reserve estimation, and the manner in which these issues affect how firms value acreage and ultimately translate their assessments into production. The session will also address the role of uncertainty in estimating resources and reserves and how such uncertainty translates into production outlooks and expected profitability.

Kenneth B. Medlock III (Co-Presiding)
SENIOR DIRECTOR, CENTER FOR ENERGY STUDIES,
BAKER INSTITUTE, RICE UNIVERSITY

William Furlow (Co-Presiding)
SENIOR MANAGER BUSINESS DEVELOPMENT,
SOCIETY OF PETROLEUM ENGINEERS

Sandy Fielden
DIRECTOR ENERGY ANALYTICS, RBN ENERGY

W. John Lee
PROFESSOR AND CULLEN DISTINGUISHED UNIVERSITY CHAIR,
UNIVERSITY OF HOUSTON

**DUAL PLENARY SESSION:
Climate Change & Carbon Policies –
International Lessons and Perspectives**

2:00pm - 3:30pm / Crystal Ballroom

NY

Climate change and carbon policies continue to shape regional and national policies, but approaches vary widely. The objective of this plenary session is to highlight different approaches to climate and carbon policies in the U.S., Asia, and Europe, and to compare results obtained, and perspectives of these policies going forward. What role does "issue linking" play, e.g. using climate policy as a lever for increased taxation to solve fiscal problems, or to develop sustainable infrastructure. The discussion will also include international coordination of policies, as seen from the perspectives of the major actors, and the issue if regional climate agreements can be a step towards global agreement.

Christian von Hirschhausen (Presiding)
PROFESSOR OF ECONOMICS, TU BERLIN

A. Denny Ellerman
PART-TIME PROFESSOR, EUROPEAN UNIVERSITY INSTITUTE

Zhang Xiliang
PROFESSOR AND EXECUTIVE DIRECTOR OF THE INSTITUTE OF
ENERGY, ENVIRONMENT AND ECONOMY, TSINGHUA UNIVERSITY

Karen Palmer
SENIOR RESEARCHER, RESOURCES FOR THE FUTURE

Coffee Break



3:30pm - 4:00pm / Foyer, Mezzanine, Grand
Ballroom Balcony & Loews Theater Foyer

NY L

CONCURRENT SESSIONS: 31 to 40

4:00 pm - 5:45 pm

31. Climate Issues

NY New Yorker Hotel Grand Ballroom

Seth Blumsack (Presiding)
ASSOCIATE PROFESSOR, PENN STATE UNIVERSITY

**Do Individuals' Perceptions of International
Climate Policy Affect Their Climate-Friendly
Activities?**

Claudia Schwirplies
Andreas Ziegler
UNIVERSITY OF KASSEL

Joachim Schleich
FRAUNHOFER INSTITUTE FOR SYSTEMS AND
INNOVATION RESEARCH, KARLSRUHE

Session Continued ↗

**The Climate and Health Effects of a USA Switch
from Coal to Gas**

Roger Lueken
Kelly Klima
W Michael Griffin
Jay Apt
CARNEGIE MELLON UNIVERSITY

**The Importance of Adaptability and Inertia in
Optimal Abatement Trajectories:
A Simple Analytic Model**

Michael J Grubb
CAMBRIDGE CENTRE FOR MITIGATION RESEARCH

Rutger-Jan Lange
Pablo Salas
CAMBRIDGE UNIVERSITY

**Evidence of Causality between Carbon
Dioxide Concentrations and Temperature**

Kevin F Forbes
ASSOCIATE PROFESSOR, THE CATHOLIC UNIVERSITY OF AMERICA

**Policy Implications of a Scientific Assessment
of Black Carbon: Cookstove Adoption as Climate
Change Mitigation**

James Plummer
CLIMATE ECONOMICS INSTITUTE

Dale Manning
COLORADO STATE UNIVERSITY

32. Energy Innovation

NY Herald Square Suite

John C Felmy (Presiding)
CHIEF ECONOMIST, AMERICAN PETROLEUM INSTITUTE

**Public Policies and Solar PV Innovation:
An Empirical Study Based on Patent Data**

Kristoffer Bäckström
Robert Lundmark
Patrik Söderholm
LULEÅ UNIVERSITY OF TECHNOLOGY

The Performance Effect of Environmental Innovations

Tobias Stucki
Martin Woerter
ETH ZURICH, KOF SWISS ECONOMIC INSTITUTE

Christian Soltmann
EUROPEAN PATENT OFFICE

**Timing is Everything: Technology Readiness
Level, Regulatory and Market Adoption
Constraints for Energy Technologies**

Peter H Kobos
La Tonya N Walker
Leonard A Malczynski
David J Borns
SANDIA NATIONAL LABORATORIES

**Geography and Growth:
Clustering in the Diffusion of Innovations**

Varun Rai
Karthik Anantha Padmanabhan
Matthew Stringer
THE UNIVERSITY OF TEXAS AT AUSTIN

VENUE KEY:

- NY NEW YORKER HOTEL
- L LOEWS THEATER
- MC MANHATTAN CENTER

33. Electricity Market Regulation 2

NY Gramercy Park Suite

Einar Hope (*Presiding*)

PROFESSOR OF ENERGY ECONOMICS,
NORWEGIAN SCHOOL OF ECON. AND BUS. ADMIN

Transition Towards Smart Distribution Systems: Rethinking the Institutional Organization of European Electricity DSOs

Sophia Ruester

FLORENCE SCHOOL OF REGULATION

China's Ability to Achieve National Energy Objectives Depends on Coordination of Infrastructure and Policy Initiatives

Gang He

Daniel Kammen

Ana Mileva

Anne-Perrine Avrin

Josiah Johnston

UNIVERSITY OF CALIFORNIA, BERKELEY

Jianwei Tian

CHINA NATIONAL INSTITUTE OF STANDARDIZATION

James H Nelson

UNION OF CONCERNED SCIENTISTS

What's Killing Coal: The Effects of Natural Gas Abundance and Renewables on Coal-Fired Plants

Harrison Fell

COLORADO SCHOOL OF MINES

Kaffine K Daniel

UNIVERSITY OF COLORADO

Virtual Energy: Making Money On The Bias Between ISO Day Ahead Markets and Real Time Markets

Mark B Lively

CONSULTING ENGINEER, UTILITY ECONOMIC ENGINEERS

Ex-Ante Trade of Balancing Power Reserves in German Electricity Markets: The Cure to the Missing Money or a New Disease?

Joonas Paivarinta

Reinhard Madlener

RWTH AACHEN UNIVERSITY

34. LNG

NY Sutton Place Suite

Reinhard Haas (*Presiding*)

PROFESSOR, VIENNA UNIVERSITY OF TECHNOLOGY

Global LNG Contract Terms and Revisions: An Empirical Analysis

Mark J Agerton

RICE UNIVERSITY

Session Continued ↗

Exploring Shipping Inefficiencies in Global LNG Trade Patterns

Anastasia V Shcherbakova

UNIVERSITY OF TEXAS, AT DALLAS

Bagas Dhanurendra

KPMG ADVISORY

Andrew N Kleit

PENN STATE UNIVERSITY

Maritime Transport for LNG, Power Generation, and Electric Transmission

Ryuta Takashima

TOKYO UNIVERSITY OF SCIENCE

Keisuke Inada

Shigeki Toriumi

CHUO UNIVERSITY

LNG Pricing Differences Across the Atlantic - a Comparison Between the United States and Europe

Virginie Krone

Anne Neumann

Micaela Ponce

UNIVERSITÄT POTSDAM

Impacts of Market Uncertainties on Liquefied Natural Gas (LNG) Exports from the United States

Tuladhar D Sugandha

Patel Reshma

NERA ECONOMIC CONSULTING

35. Intermittent Energy Integration

NY Crystal Ballroom

Edmar Luiz de Almeida (*Presiding*)

PROFESSOR INST. DE ECONOMIA,
FEDERAL UNIV. OF RIO DE JANEIRO

The Electricity Supply Reliability from the Perspective of the Expansion Planning and the Power Systems Operation Regarding the Integration of Intermittent Sources in the Brazilian Energy Matrix

Mauricio Dester

Sergio V Bajay

STATE UNIVERSITY OF CAMPINAS

Blowing Water Away: Increased Wind Power Production in a Stored Hydro Power System

Olvar Bergland

NMBU

Fleets of Electric Vehicles as Adjustable Loads—Facilitating the Integration of Electricity Generation by Renewable Energy Sources

Katrin Seddig

ENERGY SOLUTION CENTER E. V.

Wolf Fichtner

Patrick Jochem

KARLSRUHE INSTITUTE OF TECHNOLOGY

Session Continued ↗

The Stabilizing Effect of Hydro Reservoir Levels on Intraday Power Prices Under Wind Forecast Errors

Mehtap Kilic

ERASMUS UNIVERSITY ROTTERDAM

Elisa Trujillo-Baute

UNIVERSITY OF BARCELONA AND CES-IEB

Time to Rethink How to Support Intermittent Renewable Energy? Linking Policy Instruments to the Value of Energy

Patrick A Narbel

PHD RESEARCH SCHOLAR, NORWEGIAN SCHOOL OF ECONOMICS

36. Electricity Modeling 3

L Loews Theater 10

Hermann-Josef Wagner (*Presiding*)

CHAIR, ENERGIESYSTEME & ENERGIEWIRTS,
RUHR-UNIVERSITÄT BOCHUM

DEA Efficiency Analysis of Solar Photovoltaic Power Stations in Germany and the United States

Mika Goto

TOKYO INSTITUTE OF TECHNOLOGY

Toshiyuki Sueyoshi

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY

Capturing Renewable Resource Information in Top-Down Energy Models: A Hybrid Method Applied to Offshore Wind in China

Da Zhang

MIT, TSINGHUA UNIVERSITY

Sebastian Rausch

ETH

Valerie J Karplus

MIT

European Energy Forward Markets and EU ETS Phase II: An Empirical Assessment

Giorgio Castagneto Gisse

IMPERIAL COLLEGE LONDON

Impact of Day-Ahead Market Pricing Rules on Generation Capacity Expansion

Ignacio Herrero

Pablo Rodilla

INSTITUTE FOR RESEARCH IN TECHNOLOGY

Carlos Battle

MIT & INSTITUTE FOR RESEARCH IN TECHNOLOGY

Negative Bidding by Wind Generation: A Unit Commitment Analysis of Cost and Emission Impacts

Lin Deng

Benjamin Hobbs

THE JOHNS HOPKINS UNIVERSITY

Piet Renson

COMILLAS PONTIFICIAL UNIVERSITY

37. Future Supply of Oil

NY Brooklyn Suite

John Kingston, (Presiding)
DIRECTOR OF NEWS, PLATTS

The Future of Oil: Mind the Gap

Michael Kumhof
Jaromir Benes
Douglas Laxton
Junior Maih
Serhat Solmaz
Fan Zhang
INTERNATIONAL MONETARY FUND

The Effect of Oil Price on Field Production: Evidence from the Norwegian Continental Shelf

Johannes Mauritzen
NHH NORWEGIAN SCHOOL OF ECONOMICS

Economic Analysis of Undiscovered Petroleum Resources in the Arctic: Case Barents Sea South East in Norway

Terje Sorenes
Mari Kvaloy
Benvenutta Henriksen
NORWEGIAN PETROLEUM DIRECTORATE

What if Oil is Less Substitutable? A New-Keynesian Model with Oil, Price and Wage Stickiness including Capital Accumulation

Verónica Acurio Vásconez
UNIVERSITÉ PARIS 1, PARIS SCHOOL OF ECONOMICS

Managing Midstream Mayhem: Mixing New Oil With Old Infrastructure

Peter Whitman
Robert W Anderson
U.S. DEPARTMENT OF ENERGY

38. Nuclear

L Loews Theater 11

Jurgis Vilemas (Presiding)
LEADING SCIENTIST, VYTAUTAS MAGNUS UNIVERSITY

Financing the Cost of Decommissioning Nuclear Power Plants and Spent Fuel Management: The Swedish Model

Lars Bergman
STOCKHOLM SCHOOL OF ECONOMICS

Ulf Jakobsson
RESEARCH INSTITUTE OF INDUSTRIAL ECONOMICS

The Impacts of Nuclear Phasing-Out in Japan from Carbon Mitigation and Energy Independence Point of View

Hiroshi Hamasaki
FUJITSU RESEARCH INSTITUTE

Electricity Market Restructuring, Grid Reliability, and Nuclear Power Plant Safety in the United States

Chen-Hao Tsai
PENN STATE UNIVERSITY

Measuring the Effect of Government Interventions: Evidence from Restructuring the US Nuclear Power Sector

Michel Berthelemy
UNIVERSITY COLLEGE LONDON, UCL AUSTRALIA

Soderberg Magnus
Damien Dussaux
MINES PARISTECH | VIEW PAPER

Voting on Nuclear Power—How Much Do Risk Perceptions Matter, and to Whom?

Piia Aatola
Anni Huhtala
GOVERNMENT INSTITUTE FOR ECONOMIC RESEARCH

39. Auctions and Bid Analysis

L Loews Theater 12

Burcu Cigerli (Presiding)
ENERGY ANALYST, CENTRICA PLC

Strategic Bidding in Multi-unit Auctions with Capacity Constrained Bidders: The New York Capacity Market

Sebastian Schwenen
DIW BERLIN

Manipulation of Day-Ahead Electricity Prices Through Virtual Bidding

Chiara Lo Prete
William W Hogan
HARVARD UNIVERSITY

Bidding Under a Price Cap—Evidence from an Electricity Market Experiment

Chloe Le Coq
STOCKHOLM SCHOOL OF ECONOMICS, SITE

Henrik Orzen
UNIVERSITY OF MANNHEIM

Nuclear Capacity Auctions

Sven-Olof Fridolfsson
Thomas Tangerås
RESEARCH INSTITUTE OF INDUSTRIAL ECONOMICS

Pollution Permit Consignment Auctions: Theory and Experiments

Noah C Dormady
Paul J Healy
THE OHIO STATE UNIVERSITY

40. Economic Analysis of Technological Innovations

L Loews Theater 14

Maureen S Lorenzetti (Presiding)
SR. COMMUNICATIONS OFFICER, THE WORLD BANK

Unraveling the Paradox: The Economics of Using Otherwise Wasted Heat for Cooling

Lori Smith Schell
EMPOWERED ENERGY

Kyle S Hosford
UNIVERSITY OF CALIFORNIA-IRVINE

Assessment of Residential Battery Systems (RBS): Profitability, Perceived Value Proposition, and Potential Business Models

Markus Graebig
Georg Erdmann
TECHNISCHE UNIVERSITÄT BERLIN

Stefan Röder
STEINBEIS-HOCHSCHULE BERLIN

The Impact of PV Tilt Angle and Azimuth on the Market Value of PV Systems and Electricity Generation Costs

Michael Hartner
André Ortner
TU VIENNA

Solar PV Technology Adoption in the United States: An Empirical Investigation of State Policy Effectiveness

Christine L Crago
Ilya Chernyakhovskiy
UNIVERSITY OF MASSACHUSETTS AMHERST

Cost and Price Dynamics of Solar Modules

Anshuman Sahoo
Stefan Reichelstein
STANFORD UNIVERSITY

IAEE General Membership Meeting

5:45 pm - 6:15 pm / Sutton Place Suite **NY**

CAEE General Membership Meeting

5:45 pm - 6:15 pm / Brooklyn Suite **NY**

 *Delegates free to enjoy New York City on their own*

Session Continued ↗

VENUE KEY:

- NY** NEW YORKER HOTEL
- L** LOEWS THEATER
- MC** MANHATTAN CENTER

WEDNESDAY, JUNE 18

REGISTRATION

7:00am - 5:45pm / Kips Bay Suite



2015 Antalya International Conference Planning Meeting
(By Invitation)

8:00am - 9:00am / Sutton Place Suite



EEEP Editorial Board Meeting
(By Invitation)

8:00am - 9:00am / Herald Square Suite



Continental Breakfast



8:15am - 9:00am / Foyer and Mezzanine



Presider's Huddle

8:30am - 8:50am / Mezzanine 2nd Floor

DUAL PLENARY SESSION:
Energy Financing

9:00am - 10:30am /
New Yorker Hotel Grand Ballroom



The future development of global energy resources requires both the presence of economically producible material and the activity to convert the resources into first extractable reserves and then actual production. For the necessary activity to occur—besides access to the resource—there must be investment. While the issue of resources and reserves has been widely addressed, the path of future activity has gotten less attention. The purpose of this session is to look at the interesting history of how energy activity has traditionally been financed and what the prospects are for future innovation to confront the changing geography and composition of global energy markets; what is currently working and what is not and what the main challenges are moving forward.

David H. Knapp (*Presiding*)
MANAGING DIRECTOR ENERGY RESEARCH ADVISOR,
ENERGY INTELLIGENCE GROUP

Robert Maguire
PARTNER, PERELLA WEINBERG PARTNERS

Katherine Spector
HEAD OF COMMODITIES, CIBC WORLD MARKETS

Robert Levin
MANAGING DIRECTOR, CME GROUP

VENUE KEY:

- NEW YORKER HOTEL
- LOEWS THEATER
- MANHATTAN CENTER

DUAL PLENARY SESSION:
Utility Business Model

9:00am - 10:30am / Crystal Ballroom



This session will address profound challenges to its traditional business model faced by the electric utility sector worldwide. Utilities must redefine their business, driven by the proliferation of efficient but potentially disruptive digital technologies; by customers' new options including distributed self-generation, time-of-use price responsiveness, and electricity storage; by entrepreneurial third parties seeking to serve those customers directly; by environmental mandates including decarbonization of generation; and by the need to maintain or improve power quality, reliability and resiliency in the face of increasing potential for outages caused by weather or cyber-intrusions. All of these factors imply major investments, none imply major increases in the sales of electricity on which utilities have traditionally based their revenue requirements, and some imply potential for deregulation or competition where monopoly service is now assumed. This panel of experts will suggest how electric utilities world-wide are planning or hoping to survive or even thrive in the very different electric sector business environment of coming years, and how energy economists can bring their particular skills and expertise to bear in this challenging transition.

John W. Jimison (*Presiding*)
MANAGING DIRECTOR, ENERGY FUTURE COALITION

Ralph Izzo
CHAIRMAN OF THE BOARD, PRESIDENT AND CHIEF OPERATING
OFFICER, PUBLIC SERVICE ENTERPRISE GROUP INCORPORATED

Jigar Shah
FOUNDER, SUNEDISON LLC

David M. Newbery
DIRECTOR, EPRG, UNIVERSITY OF CAMBRIDGE

Michel Derdevet
SECRETARY GENERAL, ERDF

Coffee Break



10:30am - 11:00am / Foyer, Mezzanine,
Grand Ballroom Balcony & Loews Theater Foyer



CONCURRENT SESSIONS: 41 to 49

11:00am - 12:45pm

41. Energy Access

New Yorker Hotel Grand Ballroom

Gerardo Rabinovich (*Presiding*)
MANAGER EXECUTIVE, INSTITO ARGENTINO DE LA ENERGIA

A Recipe for Success? Randomized Free Distribution of Improved Cooking Stoves in Senegal

Jörg Peters
Gunther Bensch
RWI

Paying for Improved Electricity Services in Developing Countries: Any Role for Previous Mitigation Action?

Musiliu O Oseni
UNIVERSITY OF CAMBRIDGE, UK

Inside the Metrics – An Empirical Comparison of Energy Poverty Indices for Sub-Saharan Countries

Gunther Bensch
RWI

Exploiting the Full Potential? Cost-Efficiency and Impacts of Rwanda's Electricity Access Roll-Out Program

Joerg Peters
Maximiliane Sievert
RWI

Grid Access in Remote Alaska: Evaluating Costs and Benefits

Nathaniel C Horner
Paul Tisa
Parth Vaishnav
CARNEGIE MELLON UNIVERSITY

Planning & Modeling Under Uncertainty—Development of the Mozambique Gas Master Plan

Ananth P Chikkatur
Leonard Crook
ICF INTERNATIONAL

Lex Huurdeman
WORLD BANK

42. Forecasting Technological Progress, Consumer Adoptions, and Energy Technology Diffusion

Herald Square Suite

Eric Williams (*Presiding*)
ROCHESTER INSTITUTE OF TECHNOLOGY

Session Continued ↗

The Valley of Death for New Energy Technologies

Peter R Hartley
RICE UNIVERSITY, BAKER INSTITUTE, UNI OF WEST AUST

Kenneth B Medlock III
RICE UNIVERSITY, BAKER INSTITUTE

Modeling Technology Learning for Electricity Supply Technologies

Inês L Azevedo
Ed Rubin
Paulina Jaramillo
CARNEGIE MELLON UNIVERSITY

Sonia Yeh
UNIVERSITY OF CALIFORNIA DAVIS

Analyzing Subsidies Policies with Experience and Market Curves

Eric Williams
Schuyler Matteson
ROCHESTER INSTITUTE OF TECHNOLOGY

Seth Herron
WSP ENVIRONMENT & ENERGY

Leveraging Peer Effects: The Impact of Social Interaction-based Programs on the Diffusion of Solar Panels

Kenneth T Gillingham
Hilary Staver
YALE UNIVERSITY

Bryan Bollinger
NEW YORK UNIVERSITY

Determinants of the Rate of Improvement in Energy Technologies: A Focus on Photovoltaics

Jessika E Trancik
MIT

43. Natural Gas and Energy Security

NY Sutton Place Suite

Michael C Lynch *(Presiding)*
PRESIDENT, STRATEGIC ENERGY & ECONOMIC RES INC

Out of Gas: An Empirical Analysis of the Fiscal Regime for Exploration in India, 1999-2010

Anupama Sen
OXFORD INSTITUTE FOR ENERGY STUDIES

Security of Natural Gas Supply for Europe in the Special Case of Austria Under Consideration of Grid and Storage Expansion

Andreas Fleischhacker
Hans Auer
Georg A Lettner
VIENNA UNIVERSITY OF TECHNOLOGY

Case Study: A Long Term View of the United Kingdom's Natural Gas Requirements with Special Emphasis on the Opportunities for US LNG Supplies

John Holding
INDEPENDENT PRACTITIONER, JHIPEMS

Spreads in International Natural Gas Prices – Explanations and Analysis of Intertemporal Market Equilibrium under (Political) Uncertainty

Yuri A Yegorov
Franz Wirl
UNIVERSITY OF VIENNA

EU Energy Security Through Supply Diversification: Do Natural Gas Discoveries in the Eastern Mediterranean Present A Viable Option?

Isabella Ruble
ASSOCIATE PROFESSOR, AMERICAN UNIVERSITY OF BEIRUT

44. Hydropower

NY Crystal Ballroom

Isaac Dyrer *(Presiding)*
DEAN, UNIVERSIDAD JORGE TADEO LOZANO

Pumped-storage Hydroelectricity

Finn R Førsund
PROFESSOR, UNIVERSITY OF OSLO

Climate Change: An Opportunity for New Investment in Hydropower

Ludovic Gaudard
UNIVERSITY OF GENEVA

Costs and Benefits of Renewables Portfolio Standards in the United States

Galen Barbose
Ryan Wiser
Samantha Weaver
LAWRENCE BERKELEY NATIONAL LABORATORY

Jenny Heeter
Francisco Flores-Espino
Lori Bird
NATIONAL RENEWABLE ENERGY LABORATORY

The Brazilian Conundrum: More Hydropower, Greater Greenhouse Gas Emissions

Antonio Oliveira
Cristiano Prado
Tatiana Lauria
FEDERATION OF INDUSTRIES OF THE STATE OF RIO DE JANEIRO - FIRJAN SYSTEM

Enhanced Hydropower Representation in a Long-Term Planning Model for a Low-Carbon European Power System

Christian Skar
Olav B Fosso
Sondre H Brovold
NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)

45. Electricity Prices Analysis

L Loews Theater 10

Ilhan Or *(Presiding)*
PROFESSOR, BOGAZICI UNIVERSITY

The Effect of Intermittent Renewables on the Electricity Price Variance

Christoph Graf
David Hirschmann
UNIVERSITY OF VIENNA

David Wozabal
TECHNICAL UNIVERSITY MUNICH

Spatially Explicit Prediction of Wholesale Electricity Prices

Wesley Burnett
Xueting Zhao
WEST VIRGINIA UNIVERSITY

The Effects of Market Deregulation on Electricity Rates in U.S. and Canada

Jean-Thomas Bernard
Wenlie Qiu
Catherine Liston Heyes
UNIVERSITY OF OTTAWA

Quantitative Risk Assessment of Rising Electricity Prices in Japan

Kenichi Wada
Takashi Homma
Keigo Akimoto
RITE

Elasticities of Residential Electricity Demand in Chile

Claudio A Agostini
UNIVERSIDAD ADOLFO IBAÑEZ
Eduardo Saavedra
ILADES-UNIVERSIDAD ALBERTO HURTADO
Cecilia Plottier
UNIVERSIDAD CATOLICA DEL URUGUAY

46. Fuel Efficiency in the Automobile Sector

NY Brooklyn Suite

Meaghan Casey *(Presiding)*
MARKET INTELLIGENCE MANAGER, BAKER HUGHES

Effectiveness of Car Fuel Taxes in Europe

Julian F Dieler
Markus Zimmer
IFO INSTITUTE FOR ECONOMIC RESEARCH

Darko Jus
UNIVERSITY OF MUNICH

Designing Effective Policies to Promote Low Emissions Vehicles in the UK

George A Day
HEAD OF ECONOMIC STRATEGY,
ENERGY TECHNOLOGIES INSTITUTE

California's Low Carbon Fuel Standard – Review of Compliance Trends

Julie Witcover
Sonia L Yeh
 UNIVERSITY OF CALIFORNIA - DAVIS

A Regional Demand Forecasting Study for Transportation Fuels in Turkey

Özlem Atalay
Gürkan Kumbaroglu
 BOGAZIÇI UNIVERSITY

Who Cares About the Fuel Efficiency Evidences Based on Chinese Automobile Registration Data

Yang Yu
 STANFORD UNIVERSITY

Yang Shu
 HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

47. Carbon Pricing 2

L Loews Theater 11

Carlo Andrea Bollino, Presiding
 PROFESSOR, UNIVERSITY OF PERUGIA

Robust Dynamic Optimal Taxation and Environmental Externalities

Ted Temzelides
Xin Li
 RICE UNIVERSITY

Borghan Narajabad
 FEDERAL RESERVE BOARD

The Demand for Voluntary Carbon Offsets: Field Experimental Evidence from the Long-Distance Bus Market in Germany

Martin Kesternich
Daniel Römer
Andreas Löschel
 CENTRE FOR EUROPEAN ECONOMIC RESEARCH (ZEW)

The Determinants of Voluntary Carbon Offsetting: A Micro-Econometric Analysis of Individuals from Germany and the United States

Andreas Ziegler
Claudia Schwirplies
 UNIVERSITY OF KASSEL

Economic Efficiency of Wind Production Tax Credit versus Carbon Tax

Michael Goggin
 SENIOR ELECTRIC INDUSTRY ANALYST,
 AMERICAN WIND ENERGY ASSOCIATION

48. Electricity Market Integration

L Loews Theater 12

Marisa Leon (Presiding)
 GERENTE COMERCIAL Y DE ADMINISTRACION,
 ADMINISTRACION DEL MERCADO ELECTRIC

Testing for Market Integration in the Australian National Electricity Market

Rabindra Nepal
John Foster
 UNIVERSITY OF QUEENSLAND

Renewable Electricity Policy and Market Integration

Thomas Tangerås
 RESEARCH INSTITUTE OF INDUSTRIAL ECONOMICS

Assessing the Economies of Scope from Vertical Integration: Empirical Evidence from European Electricity Utilities

Klaus Gugler
Stephan Schmitt
Mario Liebensteiner
 RESEARCH INSTITUTE FOR REGULATORY ECONOMICS /
 VIENNA UNIVERSITY OF ECONOMICS

Network Expansion and Market Power - How More Integration Promotes Welfare

Alexander Zerrahn
Daniel Huppmann
 GERMAN INSTITUTE FOR ECONOMIC RESEARCH (DIW BERLIN)

Optimal Infrastructure Investments for Renewable Energy Integration in Germany

Wolf-Peter Schill
 DIW BERLIN
Jonas Egerer
 DIW BERLIN AND TU BERLIN

49. Price Linkages

L Loews Theater 14

Matt King (Presiding)
 STRATEGIC SOURCING SPECIALIST, CONOCOPHILLIPS

WTI-Brent Spread and the Value of Refining Firms

Amir H Sabet
Richard Heaney
Andrew Caminschi
 UNIVERSITY OF WESTERN AUSTRALIA

Reconsidering the Oil-Linked Pricing Rule Based on Evidence of Unstable Cointegrating Relations in Asian LNG Markets

Hui Chih Chai
 INSTITUTE OF NUCLEAR ENERGY RESEARCH, ATOMIC ENERGY
 COUNCIL, EXECUTIVE YUAN

Fu-Kuang Ko
Cheng-Da Yuan
 INSTITUTE OF NUCLEAR ENERGY RESEARCH

Session Continued ↗

An Analysis of the Effect of the WTI-Brent De-Linking on the Futures Trading of Both the NYMEX and the ICE

Ronald D Ripple
 PROFESSOR, UNIVERSITY OF TULSA

Impact of U.S. Shale Gas and Corn Markets on Ammonia Prices

Vignesh Natrajan
Troy Thompson
 CHEVRON

The Viability of Energy Storage and its Dependence on Natural Gas Prices

Eric S Hittinger
 ROCHESTER INSTITUTE OF TECHNOLOGY

Roger Lueken
 CARNEGIE MELLON UNIVERSITY

WORKSHOP:

The Water-Energy Nexus: Challenges and Opportunities
(Separate Registration Required - Visit Registration Office for Details)

10:00am - 1:00pm / Gramercy Park Suite **NY**

Sponsored By: Rice University's Baker Institute Center for Energy Studies

The Department of Energy is pursuing work in the water-energy nexus because the nexus is integral to both energy security and climate change policy. This workshop will:

- Overview our interconnected water and energy systems
- Examine how climate change and other future trends may affect the relationship between water and energy
- Discuss the patchwork of factors that influence relevant decision-making at multiple scales
- Describe research and development opportunities to address technical challenges across the nexus
- Describe needs in data, modeling, and analysis to support better understanding and improved decision-making.

Kenneth B. Medlock III (Co-Presiding)
 SENIOR DIRECTOR, CENTER FOR ENERGY STUDIES, BAKER
 INSTITUTE, RICE UNIVERSITY

Christopher A. Smith (Opening Remarks)
 PRINCIPAL DEPUTY ASSISTANT SECRETARY FOR FOSSIL ENERGY,
 U.S. DEPARTMENT OF ENERGY

Fletcher Fields
 ECONOMIST, OFFICE OF ENERGY POLICY AND SYSTEMS
 ANALYSIS, U.S. DEPARTMENT OF ENERGY

Lunch

12:45 pm - 2:00 pm /
 Manhattan Center Grand Ballroom **MC**

VENUE KEY:

- NY** NEW YORKER HOTEL
- L** LOEWS THEATER
- MC** MANHATTAN CENTER

CONCURRENT SESSIONS: 50 to 57

2:00pm - 3:45pm

50. Renewable Energy Integration**NY** New Yorker Hotel Grand Ballroom**Reinhard Madlener** (*Presiding*)FULL PROFESSOR OF ENERGY ECON MGMT,
RWTH AACHEN UNIV EON ENERGY RES**A Squirrel's Dilemma:****The Value of Distributed Storage in the
Transition to a Low Carbon Electric Grid****Alberto J Lamadrid**

LEHIGH UNIVERSITY

Hao Lu**Wooyoung Jeon****Tim D Mount**

CORNELL UNIVERSITY

**Efficiency of Solar Net Metering &
Related Policies in the United States****James A Heidell**

DIRECTOR, PA CONSULTING GROUP

**Are Targets for Renewable Portfolio
Standards Too Low? A Complementarity-
Based Policy Analysis****Afzal S Siddiqui**

UNIVERSITY COLLEGE LONDON

Makoto Tanaka

NATIONAL GRADUATE INSTITUTE FOR POLICY STUDIES (GRIPS)

Yihsu Chen

UNIVERSITY OF CALIFORNIA AT MERCED

**Linking Heat and Electricity Market for Cost
Effective Renewable Energy Integration****Philipp Riegebauer****Lukas Volkmann****Dieter Oesterwind**

CENTRE OF INNOVATIVE ENERGY SYSTEMS

**Assessment of European RES Policy Pathways
for the Period Beyond 2020****Gustav Resch****Sebastian Busch****Andre Ortner**VIENNA UNIVERSITY OF TECHNOLOGY,
ENERGY ECONOMICS GROUP**Pablo del Rio**

CSIC

Mario Ragwitz

FRAUNHOFER ISI

**51. Energy and its Impact on
Other Sectors****NY** Herald Square Suite**Isabella Ruble** (*Presiding*)

ASSOCIATE PROFESSOR, AMERICAN UNIVERSITY OF BEIRUT

Energiewende: Manufacturing Sector at Risk?**Hubertus Bardt****Hanno Kempermann**

COLOGNE INSTITUTE FOR ECONOMIC RESEARCH

**The Effect of Electricity Taxation on the
German Manufacturing Sector:
A Regression Discontinuity Approach****Florens S Flues**ORGANISATION FOR ECONOMIC CO-OPERATION
AND DEVELOPMENT (OECD)**Benjamin J Lutz**

ZEW

**Natural Gas and Crude Oil Price Impacts
on Corn-Based and Cellulosic Ethanol Use
in the United States: An Analysis Using an
Integrated Regional Agricultural-Energy
Modeling Framework****Rebecca S Dodder****Ozge Kaplan**

US ENVIRONMENTAL PROTECTION AGENCY

Simla Tokgoz

INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE

Amani Elobeid

IOWA STATE UNIVERSITY

Lyubov A Kurkalova

NORTH CAROLINA A&T UNIVERSITY

Silvia Secchi

SOUTHERN ILLINOIS UNIVERSITY

**Input-Output Based Estimation of Power
Interruption Costs in Economic Sectors****Aaron J Praktijn**

TU BERLIN

**U.S. Iron and Steel Sector and Potential
Trading with China and India:
Analysis with ISEEM Energy Model****Nihan Karali****Jayant Sathaye****TengFang Xu**

LAWRENCE BERKELEY NATIONAL LABORATORY

**52. Modelling and Understanding
Oil and Gas Markets****NY** Sutton Place Suite**Helen Currie** (*Presiding*)

SENIOR ECONOMIST, CONOCOPHILLIPS

**Optimal Capacity and Two-Part Pricing for
Natural Gas Pipelines under Alternative
Regulatory Constraints****Matthew E Oliver**

GEORGIA INSTITUTE OF TECHNOLOGY

Charles F Mason**David Finnoff**

UNIVERSITY OF WYOMING

Uncertainty Transmission in Commodity Markets**Marc Joëts**

IPAG BUSINESS SCHOOL

Tovonony Razafindrabe**Valérie Mignon**

UNIVERSITY OF PARIS WEST

The Development of Gas Hubs in Europe**Caterina Miriello****Michele Polo**CENTRE FOR RESEARCH ON ENERGY AND ENVIRONMENTAL
ECONOMICS AND POLICY, BOCCONI UNIVERSITY**Natural Gas Supply Behavior Under Intervention:
The Case of Argentina****Fernando H Navajas**

UNIVERSITY OF BUENOS AIRES AND FIEL

Diego Barril

UNIVERSITY OF LA PLATA, ARGENTINA

**Competition and Cooperation in Expanding
the Demand Base of Natural Gas for Russia
and Qatar****Youngho Chang****Thi Quynh Trang Dang****Tsiat Siong Tan****Kar Woon Lau**

NANYANG TECHNOLOGICAL UNIVERSITY

53. Wind

NY Crystal Ballroom

Lars Bergman (*Presiding*)
FORMER PRESIDENT AND PROFESSOR,
STOCKHOLM SCHOOL OF ECONOMICS

**Local Impacts of Wind Farms on Property Values:
A Spatial Difference-In-Differences Analysis**

Yasin Sunak
Reinhard Madlener
RWTH AACHEN UNIVERSITY

**The Role of Federal and State Policies in Wind
Energy Deployment in the U.S.**

Gireesh Shrimali
MIIS, MIDDLEBURY COLLEGE

Melissa Lynes
KANSAS STATE UNIVERSITY

Joe Indvik
SPARK COMMUNITY INVESTMENT CO.

Wind Energy Can Mitigate Market Power

Ofir D Rubin
Ori Ben-Moshe
BEN-GURION UNIVERSITY OF THE NEGEV

**CDM and National Policy: Synergy or Conflict?
The Case of Wind Technology Diffusion in China?**

Yang Liu
SCHOOL OF MANAGEMENT,
HARBIN INSTITUTE OF TECHNOLOGY, CHINA

**International Knowledge Spillovers in the Wind
Power Industry – Evidence from Europe**

Jonas A Grafstrom
LULEÅ UNIVERSITY OF TECHNOLOGY

54. Electricity Price Impacts

L Loews Theater 10

Frederick L Joutz (*Presiding*)
SENIOR RESEARCH FELLOW, KAPSARC

**Distributional Effects of the Australian Renewable
Energy Target (RET) through Wholesale and Retail
Electricity Price Impacts**

Johanna M Cludius
Iain MacGill
UNIVERSITY OF NEW SOUTH WALES

Sam Forrest
UNIVERSITY OF NEW SOUTH WALES/NERA ECONOMIC CONSULTING

**Residential Response to Critical Peak Events of
Electricity: A Green Mountain Power Experience**

Seth Blumsack
Suman Gautam
PENNSYLVANIA STATE UNIVERSITY

Paul Hines
UNIVERSITY OF VERMONT

**Effects of E-33 Time-of-Use Price Plan
on Summer Energy Usage of Business/
Commercial Customers**

Lucy Qiu
ARIZONA STATE UNIVERSITY

Loren Kirkeide
SALT RIVER PROJECT

Retail Price Effects of Feed-in Tariff Regulation

Elisa Trujillo-Baute
UNIVERSITY OF BARCELONA, CES-IEB

**Household Customers Choice of Electricity
Contract in a Liberalized Electricity Market**

Kari-Anne Fange
OSTFOLD UNIVERSITY COLLEGE

Olvar Bergland
SCHOOL OF ECONOMICS AND BUSINESS, NORWEGIAN
UNIVERSITY OF LIFE SCIENCES

55. Climate Strategy

L Loews Theater 11

Paulina Jaramillo, Presiding
ASST. RESEARCH PROFESSOR, CARNEGIE MELLON UNIVERSITY

Climate Change Policy and the Balance of Trade

Gal Hochman
RUTGERS UNIVERSITY

David Zilberman
UNIVERSITY OF CALIFORNIA BERKELEY

**A Pragmatic Approach to Energy Development
and Climate Strategy**

Donald A Hanson
David K Schmalzer
Deena M Patel
ARGONNE NATIONAL LAB

**Toward a New Climate Regime Establishment (4)
U.S.-Japan-China Trilateral Cooperation**

Fengjun Duan
Tetsuo Yuhara
Takahisa Yokoyama
THE CANON INSTITUTE FOR GLOBAL STUDIES

**Macroeconomics, Climate Change and a New
Carbon Policy Proposal**

Etienne Espagne
CENTRE INTERNATIONAL DE RECHERCHE SUR
L'ENVIRONNEMENT ET LE DÉVELOPPEMENT

Thomas Brand
CEPII/CES

Baptiste Perrissin Fabert
CIRED/CGDD

**Leadership in Climate Policy: Is There a Role for
Early Unilateral Unconditional Mitigation?**

Gunnar S Eskeland
PROFESSOR, NORWEGIAN SCHOOL OF ECONOMICS

**56. Demand Response in
Electricity Markets**

L Loews Theater 12

Jonathan McClelland (*Presiding*)
SENIOR MANAGER, KPMG

**Measurement and Verification of Demand
Response at PJM**

Shira Horowitz
DEMAND RESPONSE OPERATIONS, PJM

**Impacts of Electricity Rates, Income and DSM
Expenditures on Residential Electricity Demand:
A Case Study of British Columbia**

Michael Li
BC HYDRO

Woo C. K.
Kahn-Lang Jenya
Ren Oran
ENERGY AND ENVIRONMENTAL ECONOMICS, INC

**Price Responsiveness in Retail and Wholesale
Market: Implications on Demand Response and
Emissions in the Midwest ISO**

Derya Eryilmaz
Timothy M Smith
UNIVERSITY OF MINNESOTA

**An Analytical Approach for Elasticity of Demand
Activation with Demand Response Mechanisms**

Haikel Khalfallah
Cédric Clastres
UNIVERSITY OF GRENOBLE, UPMF

**Behavioral and Appliance-specific Determinants
of the Effectiveness of Residential Electricity
Demand Response Programs**

Li Zhao
Benjamin F Hobbs
THE JOHNS HOPKINS UNIVERSITY

**Economic Impact of Demand Response on Costs
to Distribution System Operators**

Elta Koliou
Angela Picciariello
Lennart Söder
Tobias Eklund
Karin Alvehag
KTH ROYAL INSTITUTE OF TECHNOLOGY

Rudi A Hakvoort
DELFT UNIVERSITY OF TECHNOLOGY

Cajsa Bartusch
UPPSALA UNIVERSITY

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NY NEW YORKER HOTEL

L LOEWS THEATER

MC MANHATTAN CENTER

57. Energy and Environmental Challenges

L Loews Theater 14

John Holding (*Presiding*)

INDEPENDENT ENERGY ANALYST

Implications of Residual Fuel Oil Phase Out

David Ramberg

CENTER FOR ENERGY AND ENVIRONMENTAL POLICY RESEARCH MIT

Sam Van Vactor

ECONOMIC INSIGHT INC

Price Formation Of Exhaustible Resources: An Experimental Investigation of the Hotelling Rule

Christoph Neumann

ENERGY RESEARCH CENTER OF LOWER SAXONY

Mathias Erlei

CLAUSTHAL UNIVERSITY OF TECHNOLOGY

Increasing Water Use Intensity and Produced Water Intensity of California Petroleum Extraction

Kate M Tiedeman

Sonia Yeh

Jacob Teter

Gouri Shankar Mishra

UNIVERSITY OF CALIFORNIA, DAVIS

Substituting Wind for Coal: The Effects of an Increasing Share of Wind in the United States

Braeton J Smith

COLORADO SCHOOL OF MINES

Coffee Break



3:45pm - 4:15pm / Foyer, Mezzanine, Grand Ballroom Balcony & Loews Theater Foyer



CLOSING PLENARY SESSION: Global Energy Demand Growth and Student Poster Session Award

4:15pm - 5:45pm /

New Yorker Hotel Grand Ballroom



Since 2000 global energy demand has grown by more than 30%. Non-OECD economies have displaced OECD economies as the key drivers of global energy demand, but on average non-OECD economies exhibit per-capita energy consumption that is still only a quarter that of OECD economies. What does this say about the amount of energy needed in 20, 30 or 50 years? How will we supply those energy needs? What role will fossil fuels, renewables and nuclear power play? How will environmental constraints factor in? To what extent will local, regional and national energy markets integrate with one another? The closing plenary session of the 2014 NYC conference will feature leading world energy experts who will give their views on what to expect and when to expect it.

Ricardo B. Raineri (*Presiding*)

ALTERNATE EXECUTIVE DIRECTOR - LA, THE WORLD BANK GROUP

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DIRECTOR, CENTER ON GLOBAL ENERGY POLICY, SIPA, COLUMBIA UNIVERSITY

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Ying Fan

DIRECTOR, CENTER FOR ENERGY AND ENVIRONMENTAL POLICY RESEARCH, IPM, CAS

Frederik R. Janssens

COO LATIN AMERICA, ORIGIN ENERGY

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David Williams, *USAEE Executive Director*

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MONDAY POSTER SESSION 12:45 pm - 2:00 pm / Manhattan Center Grand Ballroom

1: Co-optimized Planning of Electricity Transmission and Generation Resources

Jonathan L Ho
Benjamin H Hobbs
THE JOHNS HOPKINS UNIVERSITY

James D McCalley
Venkat Krishnan
IOWA STATE UNIVERSITY

2: Costs of Grid Integration of Wind Energy in the Australian National Electricity Market

Hue TT Nguyen
Atakelty Hailu
Morteza Chalak
Chunbo Ma
THE UNIVERSITY OF WESTERN AUSTRALIA

3: What Is "Socket" Parity And Is Rooftop Solar PV There Yet Without Subsidies?

Shelly Hagerman
Paulina Jaramillo
Granger Morgan
CARNEGIE MELLON UNIVERSITY

4: Platform Economics and Electricity Markets

Claire Weiller
UNIVERSITY OF CAMBRIDGE
Michael Pollitt
JUDGE BUSINESS SCHOOL, CAMBRIDGE

5: A Policy and Economic Comparative Analysis and Economic Comparative Analysis of Carbon Capture and Storage with Renewable Energy Technologies in Australia with Carbon Constrains

Yue Liu
Daniel J Packey
CURTIN UNIVERSITY

Ronald D Ripple
THE UNIVERSITY OF TULSA

6: How Might Interprovincial Migration Affect the Impact of China's Energy Policies?

Xiaohu Luo
INSTITUTE FOR ENERGY, ENVIRONMENT, AND ECONOMY, TSINGHUA UNIVERSITY

Valerie J Karplus
Justin Caron
MIT JOINT PROGRAM

Xiliang Zhang
Da Zhang
TSINGHUA UNIVERSITY

7: Sustainable Low Carbon Urban Mobility Scenarios for India: A Co-Benefits Assessment of Electric Vehicle

Poojan Chokshi
Kalyan Bhaskar
Priyadarshi R Shukla
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

8: Nuclear Reactors' Construction Costs: The Role of Lead-Times, Standardization and Technical Progress

Lina Escobar Rangel
MINES PARISTECH - CENTRE FOR INDUSTRIAL ECONOMICS
Michel Berthélemy
RESEARCH ASSOCIATE

9: The Influence of Dynamic Pricing on Consumers' Electricity Saving Behaviors: Evidences From the Baltimore Gas and Electric Company's (BGE) Pilot Program

Pengfei Liu
UNIVERSITY OF CONNECTICUT

Jian Ni
CAREY BUSSINESS SCHOOL, JOHN HOPKINGS UNIVERISTY

Qiaowei Shen
THE WHARTON SCHOOL, UNIVERISTY OF PENNSYLVANIA

10: The CO₂ Emissions of the European Electricity Sector: An Analysis of the Factors Explaining the Emissions' Trend and the Climate and Energy Policies' Contribution

Nicolas Berghmans
EHSS

Emilie Alberola
CDC CLIMAT

Benoit Cheze
IFPEN

Julien Chevallier
UNIVERSITE PARIS 8

11: Distribution Network Tariffs and Distributed Generation: Need for an Innovative Methodology to Face New Challenges. Application to a Case Study

Angela Picciariello
KTH - ROYAL INSTITUTE OF TECHNOLOGY

Pablo Marín Frias
Javier Guillén Reneses
COMILLAS UNIVERSITY

Claudio Ricardo Ramirez Vergara
COMILLAS UNIVERSITY

Lennart Söder
KTH

12: Economic Growth and Energy Consumption in OECD Countries: A Causality Analysis

Daria Kostyannikova
CITY COLLEGE OF NEW YORK

13: Optimal Incentives for Belgian Electricity Challenges

Ruben Laleman
Johan Albrecht
GHENT UNIVERSITY

14: Optimal Waste-to-Energy Investments in the Presence of Recycling Policies

Brian M Batson
Harrison G Fell
COLORADO SCHOOL OF MINES

15: Quantifying CO₂ Abatement Costs in the Power Sector

Kenneth Van den Bergh
Erik Delarue
KU LEUVEN

16: Transmission Grid Representations in Power System Models - A PTDF Based Approach

André Ortner
DI, TECHNICAL UNIVERSITY OF VIENNA

IAEE's International Conference Goes Green!

In an effort to minimize the environmental impact of our meeting by increasing the use of recycled materials where possible and reducing the amount of solid waste, our conference has implemented the following measures to help reduce our carbon imprint with this meeting.

Look for these changes at our conference:

- No fabricated conference registration bag/satchel produced.
- Less conference generated print material (promotional materials placed on publication display tables rather than provided to all delegates in registration bags).
- Use of biodegradable/recyclable plates, cups, etc. during lunch meal functions and breaks.
- Recyclable plastic badge holders and lanyards.
- Linen refreshed in New Yorker Hotel guestrooms every two days unless requested sooner.
- Leftover soap and shampoo donated to "clean the world."
- Left over food donated to City Harvest and composting plants.

TUESDAY POSTER SESSION 12:45 pm - 2:00 pm / Manhattan Center Grand Ballroom

1: How Much Do Electric Drive Vehicles Matter to Future U.S. Emissions?

Samaneh Babae

Joseph DeCarolis

DEPARTMENT OF CIVIL, CONSTRUCTION,
AND ENVIRONMENTAL ENGINEERING,
NORTH CAROLINA STATE UNIVERSITY

Ajay Nagpure

HUBERT H. HUMPHREY SCHOOL OF PUBLIC
AFFAIRS, UNIVERSITY OF MINNESOTA**2: Natural Gas Utilisation and Electricity in Nigeria & the European Union: Examining the Legal and Regulatory Frameworks**

Tade Oyewunmi

UEF LAW SCHOOL,
UNIVERSITY OF EASTERN FINLAND**3: Partial Equilibrium Model of Czech Energy Sector: Coal, Nuclear or Renewables?**

Lukáš Recka

CHARLES UNIVERSITY IN PRAGUE

4: The Cost of Wind Power Forecast Errors in the Belgian Power System

Kenneth Bruninx

William D'haeseleer

Erik Delarue

KU LEUVEN

5: The Empirical Analysis of Hydrocarbon Releases: An Application to the UK Continental Shelf

Theophilus Acheampong

Euan Phimister

UNIVERSITY OF ABERDEEN

6: The Elasticity Of Demand For Gasoline In Brazil With The Introduction of the Flex-Fuel Fleet

Ana Isabel Santos

Marcelo Colomer Ferraro

UNIVERSIDADE FEDERAL DO
RIO DE JANEIRO**7: Social Effects in the Diffusion of Solar Photovoltaic Technology in the UK**

Laura-Lucia Richter

PHD STUDENT ECONOMICS,
UNIVERSITY OF CAMBRIDGE**8: Impacts of Renewable Electricity Generation on Spot Market Prices in Germany— A Detailed Analysis of Trade-Offs Between Benefits and Costs of Renewable Support Schemes**

Thao Pham

PHD CANDIDATE, CENTRE OF GEOPOLITICS
OF ENERGY AND RAW MATERIALS**9: Benefits and Distributional Effects of Regionally Integrating Support Schemes for Renewable Electricity**

Sebastian O Busch

Gustav Resch

VIENNA UNIVERSITY OF TECHNOLOGY

10: Asymmetric Oil-Gasoline Price Transmission and Price Regulation in China: Evidence from Twenty Provinces

Qingtian Zhou

UNIVERSITY OF MINNESOTA, TWIN CITIES

Heng Ju

SHANGHAI UNIVERSITY OF FINANCE
AND ECONOMICS**11: Nuclear Production and Market Power in the Nordic Electricity Market**

Erik Lundin

STOCKHOLM SCHOOL OF ECONOMICS

12: Analysis of Consumer Behavior for Residential Lighting Choices using Consumer Panel Data

Jihoon Min

Ines L Azevedo

CARNEGIE MELLON UNIVERSITY

13: Trends in Energy Industry Consumption Relative to Production

Alyssa Donovan

Carey W King

UNIVERSITY OF TEXAS AT AUSTIN

14: Efficiency Response of Natural Gas Power Plants to Price in Various Market Structures

Matthew N Doyle

Harrison Fell

COLORADO SCHOOL OF MINES

15: Institutions and MNE-External Stakeholder Relationship

Piyali Rudra

HELSINKI SCHOOL OF ECONOMICS

16: Energy Demand, Productivity Growth and Economic Growth in Oil Producing African Countries

Ishmael Ackah

DEPARTMENT OF ECONOMICS AND
FINANCE, UNIVERSITY OF PORTSMOUTH, UK**17: Who is the Good Neighbour? A Simulation Approach to Market Integration Between Colombia and Ecuador**

Camila Ochoa

UNIVERSITY OF LAUSANNE

USAAE CASE COMPETITION

The United States Association for Energy Economics (USAAE) Case Competition is a team-based competition focused on energy economics, open to teams of students across the globe. This year, the topic for the competition will be financing for global improvements in energy intensity. Participating teams worked on the designated case problem over a period of three weeks and submitted a written report detailing their methods and solution to USAAE. The three teams with the best solutions will be presenting their results in **Concurrent Session #17 (4:00 – 5:45pm in the Brooklyn Suite)** (from the hotel lobby take the down escalators to the Brooklyn Suite). These three teams will be competing for first, second and third place with cash prizes of \$4000, \$3000 and \$2000 respectively.

This program would not be possible without the financial support of the following organizations:



Besides a special thanks to our sponsors, we are also grateful to the USAAE Case Competition committee that has worked quite hard over the past year to ensure the success of this event!

PLACEMENT ASSISTANCE

Students who register for the 2014 IAEE International Conference in New York and who are seeking employment or are interested in arranging internships should submit their resume to the IAEE resume bank (you need to log into the IAEE website and visit www.iaee.org/en/Resources/careers/addcandidate.aspx to upload your resume). Be sure to indicate you are attending the IAEE International conference.

Derek Nixon, USAAE's student representative, will work to facilitate introductions to suitable companies in an effort to generate face-to-face interviews at the New York conference. Potential matching will be based on the experiences and interests listed in your resume. You can also email Derek (rdnixon@ucdavis.edu) with the subject IAEE Conference Job Search if you would like to discuss in depth what you are looking for. Resumes should be confined to one page if at all possible, and not more than two pages. They should indicate your time available for work or internship, particular interests, and contact information.

37TH IAAE INTERNATIONAL CONFERENCE

FUTURE IAAE EVENTS

September 19-21, 2014

BEIJING, CHINA

4th IAAE Asian Conference

Energy Economics: New Challenges & Solutions

October 28-31, 2014

ROME, ITALY

14th IAAE European Conference

Sustainable Energy Policy and Strategies For Europe

February 23-24, 2015

IBADAN, NIGERIA

8th NAAE/IAEE International Conference

*Future Energy Options:
Assessment, Formulation and Implementation*

March 15-18, 2015

MEDELLIN, COLOMBIA

5th ELAAE Conference

*Energy Outlook in Latin America and Caribbean:
Challenges, Constraints and Opportunities*

May 24-27, 2015

ANTALYA, TURKEY

38th IAAE International Conference

*Economic, Environmental, Technological
and Security Challenges for Energy*

October 25-28, 2015

PITTSBURGH, PA, USA

**33rd USAEE/IAEE North American
Conference**

The Dynamic Energy Landscape

February 18-19, 2016

ABUJA, NIGERIA

**9th NAAE/IAEE International
Conference**

Theme to be Announced

June 19-22, 2016

BERGEN, NORWAY

39th IAAE International Conference

*Energy: Expectations and Uncertainty Challenges
for Analysis, Decisions and Policy*



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