

38<sup>th</sup> USAEE/IAEE North American Virtual Conference  
Concurrent Sessions 1: Monday, November 1, 2:10 pm

1. Demand Response Track

**Changes in Hourly Electricity Consumption under COVID-Mandates: A Glance to Future Hourly Residential Power Consumption Pattern with Remote Work**

Presenter: Arthur Lin Ku

**Heeding the Call: Office and Retail Building Operator Preferences regarding Load Flexibility**

Presenter: Margaret Taylor

**Willingness to Participate in Demand Response in the US Midwest: A Market with Great Potential?**

Presenter: Yu Wang

**Using Temperature Sensitivity to Estimate Shiftable Electricity Demand: Implications for power system investments and climate change**

Presenter: Sisi Zhang

2. Oil Economics Track

**Is the Cake a Chimera? Trade-Offs Between Productivity and Costs in Unconventional Oil and Gas Production.**

Presenter: Victor Del Carpio Neyra

**Effects of the Shale Boom on Self-Employment in the U.S.**

Presenter: Gregory Upton

**Oil Price Uncertainty and IPOs**

Presenter: Milos Vulanovic

3. Natural Gas Track

**Quantifying the Role of Midstream Congestion and Market Structure in Permian Flaring**

Presenter: Wesley Blundell

**On the Determinants of Trade in Natural Gas: A Political Economy Approach**

Presenter: Markos Farag

**The Mixed Impact of Prorating: The Results of a Natural Experiment**

Presenter: Andrew Kleit

**The Economic Consequences of Local Natural Gas Leaks: Evidence from Massachusetts Housing Market**

Presenter: Xingchi Shen

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### 4. Electricity Market Integration Track

#### **Coalition Stability in PJM: Exploring the Consequences of State Defection**

Presenter: Travis Dauwalter\*

#### **Interconnecting Northeast Asia towards Renewable Transition of Power Sectors: Gains and Losses for Major Economies**

Presenter: HAEIN KIM

#### **Geographic Price Differences and the Allocation of Wind Power: Evidence from a Swedish Electricity Market Splitting Reform**

Presenter: Erik Lundin

#### **How Much Does Latin America Gain from Cross-Border Electricity Trade in the Short Run?**

Presenter: Govinda Timilsina

### 5. Transportation Track

#### **A Systematic Review of GIS-Based Methods and Criteria Used for Electric Vehicle Charging Station Site Selection**

Presenter: Jason Banegas

#### **Trade-Offs Between Automation and Light Vehicle Electrification**

Presenter: Aniruddh Mohan

#### **Energy Transition Metals**

Presenter: Martin Stuermer

### 6. Renewables in Lower-Income Countries Track

#### **Feasibility Analysis of Green Energy Community According to Sufficiency Philosophy: Ayutthaya Elephant Palace and Royal Kraal Model**

Presenter: Dr.Kwanruetai Boonyasana

#### **Economic Models of Photovoltaic Power Generation in Rural Areas of China**

Presenter: Gaochang Li

#### **Planning for a Just Renewable Energy Transition in India**

Presenter: Arjun Sawhney

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Concurrent Sessions 2: Monday, November 1, 3:50 pm

7. Electricity markets analysis

**Do Electricity Consumers Respond to Prices or Peers? Evidence from a Novel Electricity Billing Tournament**

Presenter: Thuy Doan

**Covid-19 and the Information Content of Electricity Futures**

Presenter: Redina Tahaj

**Privatization vs. Unbundling: Assessing the Environmental Impacts of China's Electric Industry Restructuring**

Presenter: Chang Wang

**Decomposing the Effects of Renewables on the Electricity Sector**

Presenter: Paige Weber

8. Oil Economics 2

**Optimization Model for Crude Oil Allocation in Nigeria**

Presenter: Kaase Gbakon

**Regulation Changes and Auction Performance: Oil and Gas Leases in Brazil**

Presenter: Igor Hernandez

**Determining Whether Fracking Technology Has Altered Market Power in The U.S. Petroleum Industry**

Presenter: Alan Love

**OPEC and the Oil Market**

Presenter: Yousef Nazer

9. Natural Gas Economics

**The Economics of Natural Gas Flaring and Methane Emissions in U.S. Shale: An Agenda for Research and Policy**

Presenter: Mark Agerton

**Adapting Hotelling to Microeconomic Empirical Work in Oil and Gas Extraction**

Presenter: Jinmahn Jo

**Do Firms Use Gas Markets to Raise Rivals' Electricity Costs?**

Presenter: Kelly Neill

**Are We Building Too Many Natural Gas Pipelines?**

Presenter: Michael Roberts

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### 10. Electricity Market Design

**Investigating Market Designs that Enhance Electricity Market Incentives for Flexible Performance**

Presenter: Ali Daraeepour

**How to make money? Electricity Market Design Without Marginal Operating Costs**

Presenter: Robert Idel

**Commercial Consumers Pay Attention to Marginal Prices or Average Prices? Evidence from Nonlinear Electricity Pricing**

Presenter: Kaifang Luo

**How to Design Reserve Markets? The Case of the Demand Function in Capacity Markets.**

Presenter: Leopold Monjoie

### 11. Renewable Deployment

**Economics and the Potential Role of Expanding Geologic Energy Storage in the United States**

Presenter: Steven Anderson

**State-Level Trends in Renewable Energy Procurement via Solar Installation versus Green Electricity**

Presenter: Casey Canfield

**Retire, Repair, or Repower? Wind Investments in a Maturing Industry.**

Presenter: Timothy Fitzgerald

**A Methodology for Evaluating the Future Value of Utility-Scale PV-Plus-Battery Hybrid Systems**

Presenter: Anna H Schleifer

### 12. Social issues in the energy transition

**Exploring the Role of Foreign Aid in Southeast Asia's Energy Transition**

Presenter: Robert Lindner

**Income-Targeted Marketing as a Barrier to the Transition Toward Equitable Rooftop Solar Adoption**

Presenter: Eric O'Shaughnessy

**Choice to Make-the Impact of Urbanization on Residential Cooking Fuel Transition in China**

Presenter: Han Yan

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Concurrent Sessions 3: Tuesday, November 2, 2:30 pm

13. Energy Models

**Capacity at Risk: A Metric for Robust Planning Decisions under Uncertainty in the Electric Sector**

Presenter: Naga Srujana Goteti

**Using Robust Optimization Techniques to Inform US Climate Policy**

Presenter: Neha Patankar

**Electrification and Decarbonization Goals in Power Sector: MARKAL scenarios analysis**

Presenter: Nadejda Victor

14. Oil and Financial Markets

**The Energy Transition and Shifts in Fossil Fuel Use: The Study of International Energy Trade and Energy Security Dynamics**

Presenter: Sofia Berdysheva

**Cheap Money, Geopolitics and Super-Backwardation of the WTI Forward Curve**

Presenter: Mahmoud El-Gamal

**What Drives Returns on the Corporate Bonds of Oil and Gas Companies?**

Presenter: Mike Plante

15. Coal

**Air Quality Gains and Employment Losses from Decreasing Coal-Sourced Power Production in the United States**

Presenter: Luke Dennin

**Coal Mining Decline and Opioid Overdose Mortality in Rural Central Appalachia**

Presenter: Zhongyang He

**Sustained Cost Declines in Solar PV and Battery Storage Needed to Eliminate Coal Generation in India**

Presenter: Aniruddh Mohan

16. Innovation in storage

**Leveraging Industry as Energy Storage for a Decarbonized Grid**

Presenter: Rebecca Ciez

**Innovation Trends in Electricity Storage: What Drives Global Innovation?**

Presenter: Siyu Feng

**Development in Long-Duration Energy Storage Technologies**

Presenter: Rui Shan

**Renewable Energy Policies and Innovation in Complementary Technologies**

Presenter: Kelly Stevens

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### 17. Transmission

**Rethinking the Role of Financial Transmission Rights in Wind-Rich Electricity Markets in the Central U.S.**

Presenter: James Hyungkwan Kim

**Reducing Transmission Expansion by Co-Optimizing Sizing of Wind, Solar, Storage and Grid Connection Capacity**

Presenter: Aneesha Manocha

**Competition in Financial Transmission Rights Auctions**

Presenter: Jeff Opgrand

### 18. Alternative to Renewables: SMR and Carbon Storage

**Investigation of Small Modular Reactor Power Plants in Cogeneration Applications**

Presenter: Tzuyen Lin

**Production Costs Uncertainties of SMR-concepts - A Model-based Monte Carlo Analysis**

Presenter: Björn Steigerwald

**CCUS: Surveying Where We Have Been and Where We Are Going: Projects, Policies, Progress and Price**

Presenter: Chuxuan Sun

**45Q Tax Credit Impacts on Carbon Management Costs: Case Study Findings and Modeling Developments**

Presenter: Travis Warner