

**National Renewable Energy Laboratory, Golden, Colorado  
June 9-10, 2016**

**7:30 - 8:00 a.m. Continental breakfast**

**8:15 a.m. Welcome**

- Mark Peters, Laboratory Director, Idaho National Laboratory
- Robin Newmark, Associate Laboratory Director-Energy Analysis & Decision Support, National Renewable Energy Laboratory

**8:30 – 8:45 a.m. Workshop Objectives and Flow (Pete Lyons, Workshop Chair)**

**8:45 – 10:15 a.m. COP-21 and Grand Challenge of Decarbonization (Doug Arent, Moderator)**

- Carla Frisch, Director for Climate Change, U.S. Energy Policy and Systems Analysis (EPSA)
- Manuel Baritaud, Senior Energy Analyst, International Energy Agency
- Mianheng Jiang, President, Shanghai Tech University, Chinese Academy of Sciences (CAS)

**10:15 - 10:30 a.m. Break**

**10:30 -11:15 a.m. International Clean Energy Goals and Approaches (Pete Lyons, Moderator)**

- Dr. Daniel Iracane, Deputy Director-General and Chief Nuclear Officer, Nuclear Energy Agency (NEA)
- Françoise Touboul, Scientific Advisory of the Chairman, French Alternative Energies and Atomic Energy Commission (CEA)
- Dr. Kamal Araj, Vice Chair, AEC, Jordan

**11:15 -11:45 a.m. DOE NE and EERE Clean Energy Program Outlook (Mike Hagood, Moderator)**

- Steve Capanna, Director, Policy and Analysis, U.S. Department of Energy - Energy Efficiency & Renewable Energy
- Suibel Schuppner for Shane Johnson, Deputy Assistant Secretary for Science and Technology Innovation, U.S. Department of Energy - Nuclear Energy

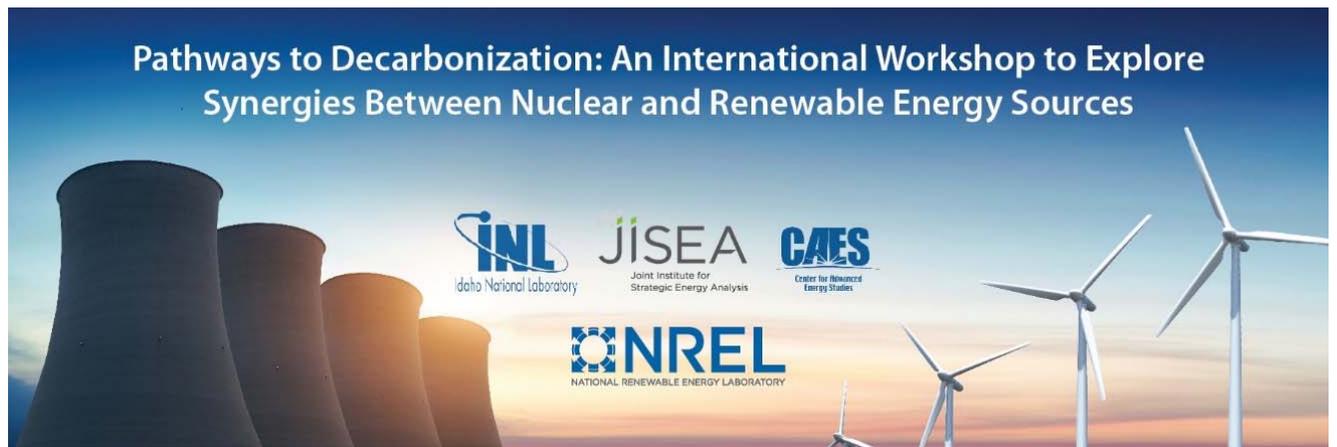
**11:45 a.m. – 12:00 p.m. Buffet Lunch Pickup**

**12:00 – 12:45 p.m. Pathways to Deep Decarbonization in the United States,  
Jim Williams, Deep Decarbonization Pathways Project**

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**12:45 – 2:00 p.m. Grid Modernization (Mark Ruth, Moderator)**

- Jennie Jorgenson, Power System Analyst, NREL, Grid Operations and Flexibility
- William D’Haeseleer, Professor, University of Leuven, Belgium, Grid Modernization in Europe
- Nadav Enbar, Electric Power Research Institute (EPRI) Power Delivery and Utilization, Grid Modernization in the U.S.
- Marco Cometto, Nuclear Energy Analysts, OECD/Nuclear Energy Agency (NEA), System Effects in Low Carbon Electricity Systems

**2:00 – 3:15 p.m. Expanding the Use of Nuclear and Renewable Energy (Daniel Iracane Moderator)**

- Shannon Bragg-Sitton, NE-HES Technical & Project Lead, Idaho National Laboratory, LWR and HTR market opportunities
- Mark Ruth, RE-HES Technical & Project Lead, National Renewable Energy Laboratory, Nuclear Renewable Hybrid Energy System Market Opportunities
- Yuhan Sun, Director, Chinese Academy of Sciences, Shanghai Advanced Research Institute, CAS Hybrid Energy Systems Development in China
- Mark Haynes, President of Concordia Power, Next Generation Nuclear Plant (NGNP) Industrial Alliance, A Growing International Project for an Advanced Reactor Based Integrated Energy System
- Sam Suppiah, Nuclear Hydrogen Program Lead, Canada Nuclear Laboratories (CNL), Hydrogen production and utilization

**3:15– 3:30 p.m. - Break**

**3:30 – 5:30 p.m. Emerging Nuclear Technology and Market Applications (Shannon Bragg-Sitton, Moderator)**

- Zuoyi Zhang, Director and Chief Scientist, Institute of Nuclear and New Energy Technology (INET)
- Zhiyuan Zhu, President, Chinese Academy of Sciences (CAS) - Shanghai Branch
- Joshua Walter, Lead for Hybrid Energy Applications, TerraPower
- Chris Colbert, Chief Strategy Officer, NuScale Power
- Kazuhiko Kunitomi, Director General of the High Temperature Gas Reactor (HTGR) Hydrogen and Heat Application Research Center of JAEA, Japan Atomic Energy Agency (JAEA)
- Simon Irish, President, CEO, Director, Terrestrial Energy USA

**6:00 p.m. - No host dinner**

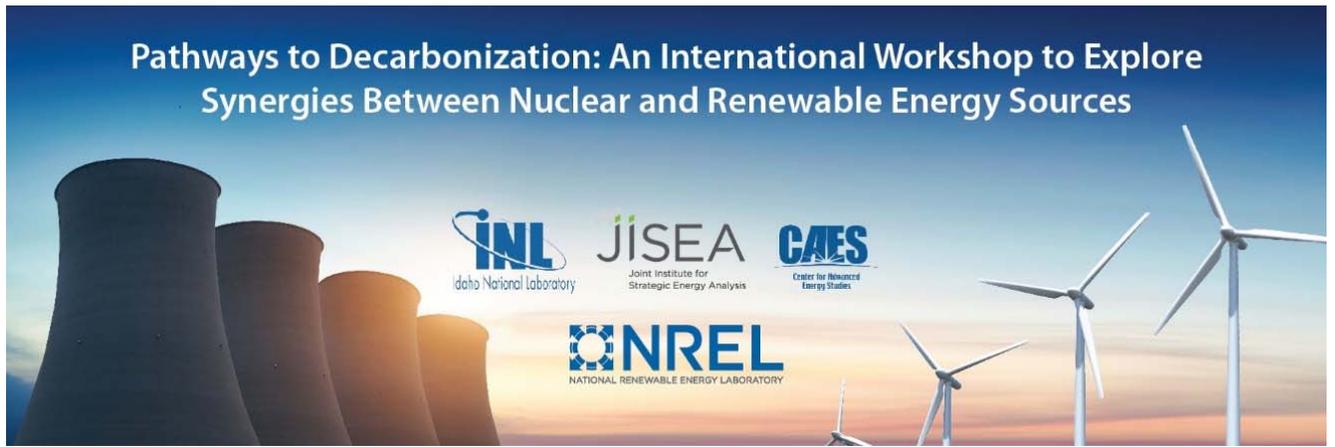
**The Keg Steakhouse & Bar**

**14065 W. Colfax Drive, Lakewood, Colorado; (303) 238-7500**

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**Friday, June 10**

**7:30 - 8:00 a.m. Coffee, Continental breakfast**

**8:00 - 8:20 a.m. Group discussion objectives/vision**

**8:20 - 10:00 a.m. Open Discussion (20 minute breakouts – rotate to each sessions)**

- Role of renewable and nuclear energy for addressing deep decarbonization
- Renewable and nuclear energy synergies for industry
- Energy system modeling, project testing, and demonstration interests

**10:00 – 10:15 a.m. - Break**

**10:15 - 10:45 a.m. - Readouts**

**10:45 a.m. - 12:00 p.m. Frame next steps**

- What are the collaborative R&D interests?
- How might we best collaborate?
- Is an international steering committee appropriate?
- Develop a charter to work together for deep decarbonization (or an agreement to form a consortium to form a charter), with a possible Secretariat

**12:00 - 12:15 p.m. - Buffet lunch pickup**

**12:15 – 12:45 p.m. - Putting synergies into action - integration of nuclear and renewables in competitive electricity markets - Charles Forsberg, MIT**

**12:45 – 1:15 p.m. – Pete Lyons, Workshop Chair – Wrap Up**

**1:30 - 2:15 - Research Support Facility (RSF) Tour**

**2:15 - 2:30 - Walk to ESIF**

**2:30 - 3:30 - Energy Systems Integration Facility (ESIF) Tour**

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