

# Renewable Energy Integration and Transmission Expansion

## Enhancing Operational Strategies to Capitalize on Current and Future Renewable Energy Resources

March 22 -24 , 2011  
San Francisco, CA

[More Registration Details. Click Here!](#)

**"REACH** renewable integration goals of managing peak load, reducing emissions and increasing the efficiency and reliability of asset use."



Overcoming the challenges of renewable power integration, market investment, intermittency and interconnection in order to create a seamless renewables process.

### Attending this Premier marcus evans Conference will Enable You to:

- **Address** the current policy environment for Renewable Integration and Transmission with **WAPA**
- **Implement** cost recovery strategies to offset profit draining renewable expenses with **New Mexico Public Regulation Commission**
- **Develop** a company integrated resource plan that embraces the use and growth of renewable energy sources with **Southern California Edison**
- **Explore** options for improving the current transmission system to accommodate renewable energy resources with **San Diego Gas & Electric**

### Who Should Attend:

**marcus evans** invites Vice Presidents, Directors and Managers in Utility and Renewable Energy companies with responsibilities in:

- Renewable Energy Generation / Development
- Sustainable Energy
- Transmission / Interconnection / Integration
- Planning / Development
- Wind / Solar / Geothermal / Biomass projects

### Featuring Case Studies from Leading Renewable Energy Experts Including:

**David Hicks**  
Director of Renewable Energy  
Procurement and Technical Services  
**NV Energy**

**Paul Douglas**  
Manager of Renewable  
Procurement  
and Resource Planning  
**California Public  
Utilities Commission**

**James Avery**  
Senior Vice President  
Electric Transmission  
**San Diego Gas & Electric**

**Bryan Hannegan**  
Vice President, Environment  
and Renewables  
**Electric Power  
Research Institute**

**William Patzin**  
Senior Engineer Interconnection  
Coordinating Department  
**PJM Interconnection**

**Tom Nicholas**  
Regional Director, Central US  
**Solar Electric  
Power Association**

**Julie Fitch**  
Director Energy Division  
**California Public  
Utilities Commission**

**Jason A. Marks**  
Commissioner District 1  
**New Mexico Public  
Regulation Commission**

**John Pespisa**  
Manager Real-Time Operations  
**Southern California Edison**

**Craig Knoell**  
Transmission Infrastructure  
Program Manager  
**Western Area  
Power Administration**

**Marc Spitzer**  
Commissioner  
**Federal Energy  
Regulatory Commission**

**Thor Hinckley**  
Manager, Renewable  
Power Program  
**Portland General  
Electric Company**

**William McMullen**  
Manager, Renewables  
and Green Strategies  
**Southern Company**

**Rick Loughery,**  
Director, Environmental Activities  
**Edison Electric Institute**

**Jay Caspary**  
Director  
Transmission Development  
**Southwest Power Pool**

**Mark Kapner**  
Senior Strategy Engineer  
**Austin Energy**

**Todd Allmendinger**  
Vice President  
**Charles River Associates**

**Charles Adamson**  
Manager – Major  
Projects Organization  
Transmission Projects  
**Southern California Edison**

**Jeffrey Miller**  
Vice President, Planning  
**ColumbiaGrid**

**George Marshall,**  
Director Electric Transmission  
**Puget Sound Energy**

**Michael McMullen**  
Director West  
Regional Operations  
**Midwest ISO**

**Thomas Wrenbeck**  
Director, Regulatory Strategy  
**ITC Holdings Corp.**

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 Oh My Gov!

## Day One | Tuesday, March 22, 2011

1:15 Registration

1:45 Opening Remarks from Chairperson

### REVIEWING TRANSMISSION REQUIREMENTS FOR RENEWABLE ENERGY EFFECTIVENESS

2:00 Case Study

#### Addressing the Current Policy Environment for Renewable Integration and Transmission

- Providing insight into green energy related aspect stimulus package
- Highlighting policy changes under consideration for a consistent framework
- Outlining the legal issues associated with transmission for renewable development
- Identifying policy incentives for cost allocation and recovery
- Reconciling State, Regional and Federal mandates and policies

##### Craig Knoell

Transmission Infrastructure Program Manager

**Western Area Power Administration**

2:45 Interactive Panel Discussion

#### Incorporating Environmental Concerns into Transmission and Renewable Projects

- Understanding the issues that come along with working on environmentally sensitive, urban or federally owned lands
- Reviewing land use policies to put the best transmission lines in the best corridors
- Raising awareness and educating local property owners about the need form ore transmission
- Overcoming the hurdles of dealing with multiple interveners

##### Rick Loughery

Director, Environmental Activities,

**Edison Electric Institute**

##### Jay Caspary

Director, Transmission Development

**Southwest Power Pool**

3:30 Networking Break

4:00 Case Study

#### Update on FERC Transmission Policies and Regulations

- Discussing the recent updates and additions to FERC's regulations affecting transmission
- Understanding the influence these changes will have on companies' transmission expansion strategies
- Putting transmission projects and plans into place that will incorporate these policies

##### Marc Spitzer

Commissioner

**Federal Energy Regulatory Commission**

4:45 Case Study

#### Working Through Interconnection and System Operation Challenges Regarding Renewable Energy

- Mitigating the power congestion issues in and around cities
- Reviewing what it is going to take to integrate renewables
- Examining the Transmission needs in the light of current generation locations
- Balancing the intermittency or variability inherent in wind and solar to accommodate a higher penetration of renewables
- Discussing whether to give renewable energy dispatch priority

##### George Marshall

Director Electric Transmission

**Puget Sound Energy**

5:30 End of Day One

[More Registration Details, Click Here!](#)

### PRODUCER INFO:

I would like to thank everyone who has assisted with the research and organization of the event, particularly the speakers for their support and commitment.  
**January Heckman**, januaryh@marcusevansch.com.

## Day Two | Wednesday, March 23, 2011

7:30 Registration

7:45 Opening Remarks from Chairperson

### EVALUATING THE CURRENT RENEWABLE ENERGY LANDSCAPE AND INTERCONNECTION CHALLENGES

8:00 Case Study

#### Current Status of Renewable Energy Development in North America

- Providing an overview of the current North American renewable energy industry
- Outlining projections for future North American renewable energy supply and demand
- Understanding the implications of incorporating renewables into the energy system
- Describing the key technology, economic and environmental challenges of renewables

##### Bryan Hannegan

Vice President, Environment and Renewables

**Electric Power Research Institute**

8:45 Case Study

#### Developing Strategies for Renewable Energy Interconnection and Integration

- Identifying the key hurdles to renewable energy development including the strength of the current transmission system, interconnection processes, and operating and policy restrictions
- Addressing key challenges around the current economic landscape and renewable energy development
- Overcoming difficulties with renewable energy integration on different transmissions systems and highlighting possible solutions
- Combining various types of intermittent energy resources without over taxing the control center
- Determining integration costs with different resource mixes at certain levels of renewable penetration

##### David Hicks

Director of Renewable Energy Procurement and Technical Services

**NV Energy**

9:30 Networking Break

10:00 Case Study

#### Focusing on System Operations When Integrating Renewable Energy Projects

- Understanding the importance of effective system operations when incorporating renewable energy
- Reviewing the lack of dependability of renewable energy and what the transmission system needs to do to compensate for the volatility
- Developing dispatchable intermittent resources and implementing into the transmission system

##### Michael McMullen

Director West Regional Operations

**Midwest ISO**

### UNDERSTANDING THE SIGNIFICANT CHANGES REQUIRED TO ACCOMMODATE RENEWABLE POWER

10:45 Case Study

#### Implementing Cost Recovery Strategies to Offset Profit Draining Renewable Expenses

- Designing a workable and policy-backed cost recovery or "trueup" mechanism that will automatically adjust charges stemming from approved transmission costs
- Utilizing storage facilities to contribute to the reliability, efficiency and cost-effectiveness of renewable generation
- Gaining approval for a rate schedule that will allow the utility to recover directly from customers the costs associated with qualifying renewable energy projects
- Using RECS and Green tag markets as cost recovery mechanisms
- Understanding regulatory outlook and provisions for cost recovery strategies to aid in the approval process

##### Jason A. Marks

Commissioner District 1

**New Mexico Public Regulation Commission**

## Day Two | Continued

11:30 Luncheon

12:30 Case Study

### **Taking an Innovative Approach To Planning in the West**

- Reviewing sub-regional plans and the Western Electricity Coordinating Council's interconnection-wide plans
- Understanding what is driving the new transmission investment
- Contemplating the question of who owns the interregional transmission network
- Identifying ColumbiaGrid's approach to cost allocation

**Jeffrey Miller,**

Vice President Planning

**ColumbiaGrid**

1:15 Case Study

### **CRA's Energy and Environment practice provides expert economic and business consulting services to a wide range of electricity industry clients, so we're keenly aware of current, critical issues. They include:**

- Global climate change concerns focused on electricity generation
- The expansion of private equity firms into the energy sector
- A need for significant investments in transmission and generation assets
- Changes in the approach to regulation at national and state levels
- Changes in the pace and direction of electricity industry reform

**Todd Allmendinger**

Vice President

**Charles River Associates**

2:00 Case Study

### **Effectively Integrating Renewable Energy for an Ideal Power Grid**

- Overcoming the challenge of source disconnects from the grid to improve the generation landscape
- Outlining the significant changes required of the power grid to accommodate renewable power integration
- Educating customers to ensure community engagement

**William McMullen**

Manager, Renewables and Green Strategies

**Southern Company**

2:45 Networking Break

3:15 Case Study

### **Keeping up with Customer Demand for Renewable Energy Options**

- Responding to customer requests for renewable energy products
- Sharing best practices for dealing with rising customer connection rates
- Moving above and beyond RPS mandates by responding to customer demand
- Understanding how customers are educating themselves on the benefits of renewable energy, and where there may be gaps in knowledge
- Reviewing cost recovery strategies in light of green credits and subsidies

**Thor Hinckley**

Manager, Renewable Power Program

**Portland General Electric Company**

4:00 Case Study

### **Determining Funding Solutions for Proposed Transmission Projects**

- Ensuring that companies receive equitable cost recovery after funding large transmission projects
- Meeting the demands from independent power producers who want to build large amounts of transmission without funding the projects
- Identifying who is paying for the infrastructure and how the cost is allocated

**Thomas Wrenbeck**

Director, Regulatory Strategy

**ITC Holdings Corp.**

4:45 Case Study

### **Forming Productive Permitting and Siting Techniques to Receive Project Approval**

- Understanding what local governments are doing to coordinate the siting and building of transmission networks
- Identifying the requirements typically involved in the state permitting process
- Receiving specific permits for different corridors where transmission lines are being built
- Balancing ecological needs and aesthetics when making project plans

**Charles Adamson**

Manager- Major Projects Organization, Transmission Projects

**Southern California Edison**

5:00 End of Day Two

## Day Three | Thursday, March 24, 2011

8:30 Registration

8:50 Opening Remarks from Chairperson

### LESSONS LEARNED FROM CURRENT RENEWABLE ENERGY INITIATIVES

9:00 Case Study

### **Discussing Issues Posed by the Growth of Wind Energy in Texas**

- Determining what factors contributed to the dramatic expansion of wind farms in Texas
- Debating the impact of the state's pro-active policy concerning approval of new transmission to expedite new wind farm development
- Sharing how wind energy is integrated into the Texas Grid

**Mark Kapner**

Senior Strategy Engineer

**Austin Energy**

9:45 Case Study

### **Helping Utilities Make Smart Solar Decisions Through Solar Business Models**

- Aggregating, integrating and controlling systems to reduce host and developer costs
- Targeting local capacity constraints using tracking systems
- Integrating distributed solar with local smart grid initiatives

**Tom Nicholas**

Regional Director, Central US

**Solar Electric Power Association**

10:30 Networking Break

11:00 Case Study

### **Identifying the Challenges of Receiving State vs. Federal Approval for Transmission Projects**

- Pinpointing whether state or federal bodies have the ultimate authority when approving projects and who is going to make the final decision
- Understanding the basic requirements needed to receive project approval from state or federal entities
- Balancing national policy regulatory changes with the current economic situation
- Dealing with policy changes and still meeting rates and budget goals

**Julie Fitch**

Director Energy Division

**California Public Utilities Commission**

11:45 Case Study

### **Developing a Company Integrated Resource Plan that Embraces the Use and Growth of Renewable Energy Sources**

- Creating a company wide support and investment in providing reliable and cost-effective renewable energy alternative to customers
- Gaining public involvement from state and regional agencies, customer and industry advocacy groups, project developers and other stakeholders
- Adopting action plans to grow renewable power integration and development by determining the long-run economic and operational performance of alternative resource portfolios
- Forming a preferred portfolio mix which is cost effective, and takes into consideration risk, supply reliability, uncertainty, and government policies

**John Pespisa**

Manager Real-Time Operations

**Southern California Edison**

**More Registration Details, Click Here!**

### MARKETING INFO

A limited amount of exhibition space is available at the conference. Sponsorship opportunities covering luncheon, evening functions and documentation also exist. For further details, please inquire to **David Drey** ddrey@marcusevansch.com or 312 540 3000 ext: 6474.

## Day Three | Continued

12:30 Topical Luncheon

### Forecasting Challenges with Renewable Power Distribution

Top utility companies continue to look into the future to anticipate possible challenges. This topical luncheon will give you the opportunity to network with your peers and identify possible areas of setback and concerns around distribution of renewable energy resources. Early communication and discussion can open the pathway to later identification and problem solution. Discuss your thoughts with the group once you reconvene in the conference room.

#### Moderator:

**Paul Douglas**

Manager of Renewable Procurement and Resource Planning

**California Public Utilities Commission**

1:30 Topical Luncheon Discussion

2:00 Case Study

### Lessons Learned in the Integration of Wind Projects into the PJM System – from the Interconnection Services Agreement to Initial Operation; Items to Address for a Successful Integration

- Understanding the particulars of the Interconnection Services Agreement and Construction Services Agreement
- Establishing a good repertoire with the Interconnected Transmission owner project manager and PJM
- Critical items to address early on in the project such as telemetry
- Behind the scene items that need to be completed timely such as interconnection outage planning and system model updates
- Identifying and addressing how project will be marketed
- The home stretch – testing and commission activities
- Successful start up and integration into the system
- Final project close out

#### William Patzin

Senior Engineer, Interconnection Coordinating Department

**PJM Interconnection**

2:45 Case Study

### Exploring Options for Improving the Current Transmission System to Accommodate Renewable Energy Resources

- Increasing reliability by developing a new grid with better technology and efficiency
- Ramping up the transmission system and the strength of the grid to withstand the integration of renewables
- Determining the best methods for integrating new energy sources into an aging infrastructure with accuracy and speed
- Targeting what is needed in order to realize our renewable potential

**James Avery**, Senior Vice President, Electric Transmission

**San Diego Gas & Electric**

3:30 Closing Remarks and End of **Renewable Energy Integration and Development**

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## WHY YOU MUST ATTEND:

Renewable energy requirements continue to grow in the US driving the need for electric providers to utilize renewable energy resources such as wind, solar, geothermal and biomass. With the growth of renewable power consumption and development, utilities are finding it increasingly difficult to connect and integrate renewable energy into the existing electricity grid and are searching for ways to better utilize new technology, conflicting and overlapping regulations, cost recovery options and transmission integration strategies.

Renewable energy accounted for 10.1% of the domestically produced electricity in the US in the first 3 months of 2010. Wind and Solar power developments are increasing, however renewable resources are often located in remote areas and are plagued by the challenge of intermittency and as such the goal of the utility provider is to manage peak loads, reduce carbon emission, increase the efficiency of asset use and improve system wide efficiency and reliability.

The **marcus evans** Renewable Integration and Development conference will seek to expand the discussion on renewable energies, more specifically how they are being integrated and connected to the existing grid and strategies for offsetting the cost of increased renewable development.