



Legal & Regulatory Conference

IN PARTNERSHIP WITH

GRIDLIANCE

A background image showing a group of people in a professional setting, likely a conference. The image is semi-transparent and overlaid with a light blue tint. It depicts several individuals in profile or three-quarter view, engaged in conversation.

Examine Together



S&P 500	2,171	+25	+1.06
GlobalDow	1,104	+13	+1.14
Gold	1,965	+30	+1.53
Oil	1,165	+18	+1.56
	77.66	0.09	0.12

POWER SUPPLY | GENERATION | FINANCIAL | MEMBER SERVICES | RISK MANAGEMENT | IT | SUSTAINABILITY

Distributed Energy Resources

DER Technical Conference, RM18-9

- **Many questions**
 - **Aggregations**
 - **Coordination**
 - **Interconnection**
 - **System planning**
 - **Operations**
 - **Who has final authority**
 - **Dual participation at wholesale and retail**
- **Few consensus answers**

DER and Municipals

- **DER is coming**
- **How fast**
 - **Some areas have significant penetration**
 - **Other areas very little if any**
- **Interconnections**
 - **At retail customer sites**
 - **At aggregated sites**
 - **Community solar**

DER and Municipals

- **Interconnections**
 - **Should meet applicable standards**
 - NEC and NESC
 - IEEE 1547
 - Do you have or should you have local regulations
 - UL and Arc Flash labeling
 - **Ensure proper protective relaying**
 - **Anti-islanding protections**

DER and Municipals

- **Interconnections**
 - **How handle the next interconnection**
 - How assign system upgrade costs
 - **Planning**
 - Projecting where DER will interconnect
 - Impact on load
 - What is the next technology

DER and Municipals

- **Operations**
 - **Utility personnel protection**
 - **Safety services/first responders**
 - **Voltage or other operational issues**
- **Retail rates**
 - **Rate design**
 - **Cost allocation**
 - **Billing**
 - **Personnel to separate wholesale from retail**

DER

- **AMP position has been there must be local control and involvement**
- **DER impacts every phase of distribution utility business**
 - **Interconnection**
 - **Operations**
 - **Safety**
 - **Rates and billing**

DER

- **Local regulator/utility in position to**
 - **Determine when to take action**
 - **Minimize impact on other customers**
 - **Determine proper cost allocation for system**
 - **Ensure ongoing operations to serve customers**