Welcome and Introductory Remarks

Tom Dautel, Deputy Director
Division of Economic and Technical Analysis
Office of Energy Policy and Innovation

Disclaimer: These comments represent only my opinion and do not represent the opinions of the Federal Energy Regulatory Commission or any Commission members.
Administrative Announcements

- **All virtual**: Due to COVID-19, conference is virtual (WebEx) this year.
- **Slides/materials**: Download from [ferc.gov](http://ferc.gov) calendar or [go.usa.gov/xwvED](http://go.usa.gov/xwvED).
- **Timing**: 20 minutes of presentation time and 10 minutes of Q&A.
- **Muting**: Commission staff will try to keep all attendees muted, except for the presenter and Q&A participants.
- **Q&A**:
  - Please type questions or topics into the “chat” portion of the WebEx.
  - Staff will call on questions and unmute you when you are called on during the Q&A (time permitting).
- **WebEx registration**:
  - You received a confirmation email from FERC with three WebEx links, one to register (with WebEx) for each day of the conference.
  - Multiple WebEx registrations are necessary to reserve slots for registered participants (given our WebEx license limitations).
Conference Facts

• This year is the 11th annual conference
• Started in 2010 by Office of Energy Policy and Innovation (OEPI)
• In the last 11 years, there have been more than 500 presentations, and attendees from 6 continents
• This year has:
  • Virtual attendees from at least 4 continents and 8 countries, representing 16 nationalities
  • 32 presentations from 101 individual authors representing 32 organizations
  • Mix of seasoned industry veterans and student presenters
  • Representatives from ISOs, national labs, universities, private industry, and government
2020 FERC Software Conference Speakers/Authors
2020 FERC Software Conference Attendees
# FERC Regulation of Electric Markets

<table>
<thead>
<tr>
<th>FERC Does</th>
<th>FERC Does Not</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Regulates wholesale sales of electricity (market design, rates)</td>
<td>• Regulate retail electricity sales</td>
</tr>
<tr>
<td>• Regulates interstate transmission of electricity</td>
<td>• Regulate local distribution of electricity</td>
</tr>
<tr>
<td>• Protect reliability of transmission system through mandatory reliability standards</td>
<td>• Approve siting or physical construction of electric generation or (most) transmission</td>
</tr>
<tr>
<td>• Monitor electricity markets and enforces rules/regulations</td>
<td>• Regulate the safety or construction of nuclear power plants</td>
</tr>
</tbody>
</table>
FERC Structure

• Independent agency within Department of Energy
• Five Commissioners (Presidential appointment, Senate confirmation)
• One Commissioner designated by President to be Chairman
• Commission orders decided by vote of Commission members
• Chairman leads agency’s agenda and heads-up a multi-disciplinary professional staff
  • Economists
  • Engineers
  • Operations research analysts
  • Industry/scientific specialists (e.g., fisheries biologists)
  • Lawyers
  • Accountants
  • Support staff
FERC Structure

Commissioner

Office of Administrative Law Judges and Dispute Resolution

Office of the Executive Director

Chairman

Office of External Affairs

Office of Administrative Litigation

Commissioner

Office of the Secretary

Office of the General Counsel

Office of Enforcement

Office of Energy Market Regulation

Office of Energy Policy and Innovation

Office of Energy Projects

Office of Electric Reliability

Office of Energy Infrastructure Security
Some FERC/OEPI Electricity Market Initiatives

• Market design/incentives
  • Price formation whitepapers (AD14-14)
  • Offer caps (Order 831)
  • Uplift and Transparency (Order 844)
  • Shortage pricing/settlement intervals (Order 825)
  • Fast-start pricing (Dec 2017 show-cause orders)
  • Transmission incentives (Mar 20, 2020 NOPR, RM20-10)

• Other efficiency and/or removing barriers to entry
  • Storage (Order 841)
  • Demand response (Order 745, EPSA v. FERC Supreme Court decision)
  • Variable energy resources (Order 764)
  • Merchant transmission (Jan 17, 2013 policy statement, AD12-9)
  • Transmission line ratings/grid-enhancing technologies (2019 conferences, AD19-15, AD19-19)

• Transmission open access, et al.
  • Transmission open access (Orders 888/889/890)
  • Interconnection (Orders 2003/2006/792/845)
  • Transmission planning (Order 1000)

• Industry/stakeholder information, communication
  • Annual software conference (AD10-12)
  • Market data analysis (Order 760)
  • Summer/Winter Assessment reports (go.usa.gov/xwVtE)
  • Industry outreach
  • Annual demand response/advanced metering report (go.usa.gov/xwVME)
  • RTO-scale test problems (AD10-12-002, go.usa.gov/xwy9h)
  • OPF staff papers (go.usa.gov/xwyX4)
FERC/OEPI Hires Analysts Just Like You!

- In last ranking (2019), FERC ranked by Partnership for Public Service:
  - #1 mid-sized Federal agency to work for
  - #1 in work-life balance (six years in a row)
  - bestplacetowork.org/rankings/detail/DR00
- FERC/OEPI positions include (among others):
  - Operations research analysts
  - Engineers
  - Economists
  - Energy industry analysts (math, science, policy, business, etc.)
- OEPI analysts work on research, rulemakings, docketed cases
- Internships periodically available
- All jobs/internships posted at usajobs.gov and ferc.gov
Enjoy the Conference!