

Administrative Announcements

- All virtual: Due to COVID-19, conference is virtual (WebEx) this year
- Slides/materials: Download from [ferc.gov](https://www.ferc.gov) calendar or [go.usa.gov/xwvED](https://www.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)



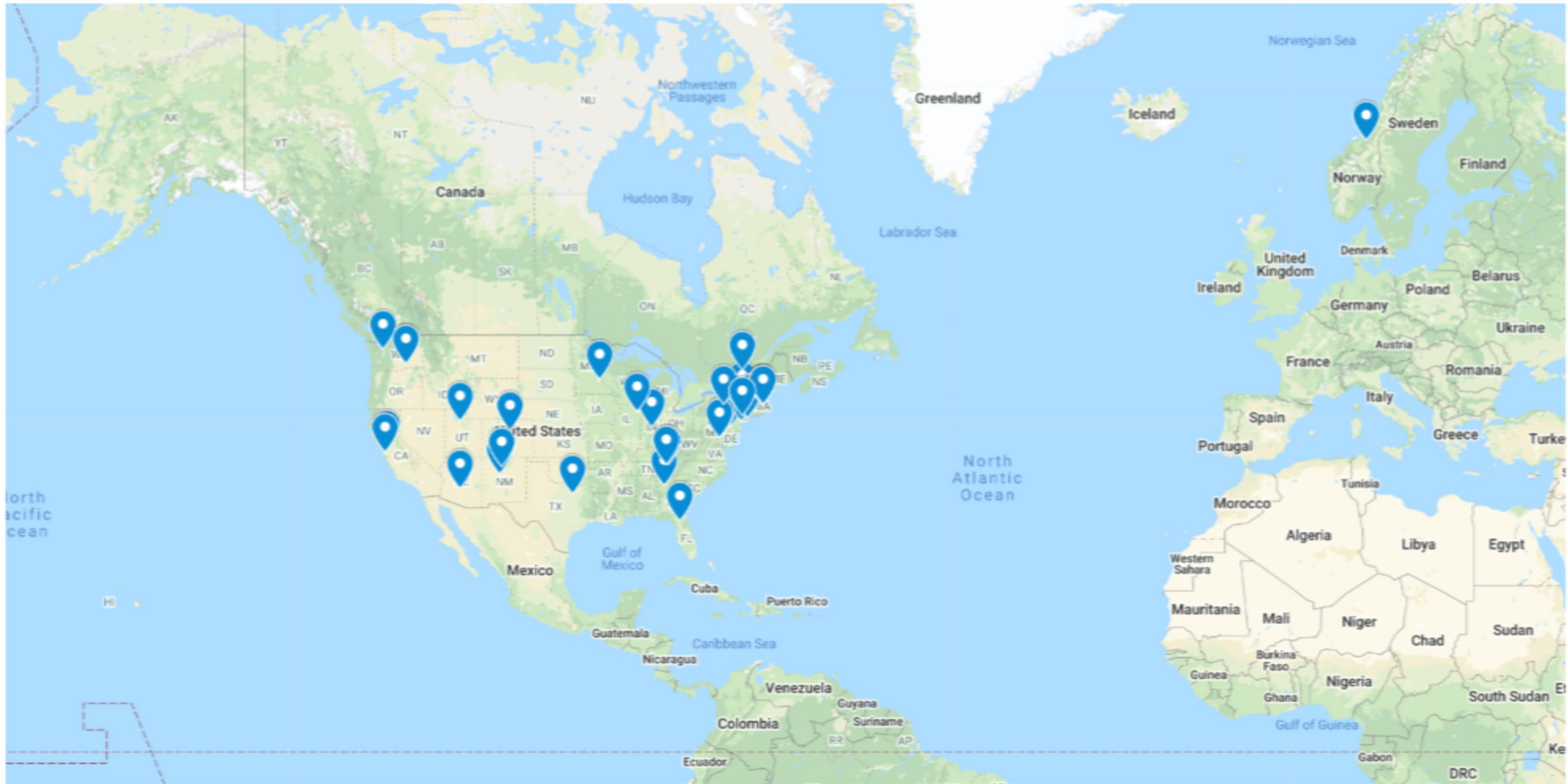
Conference Facts

- 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

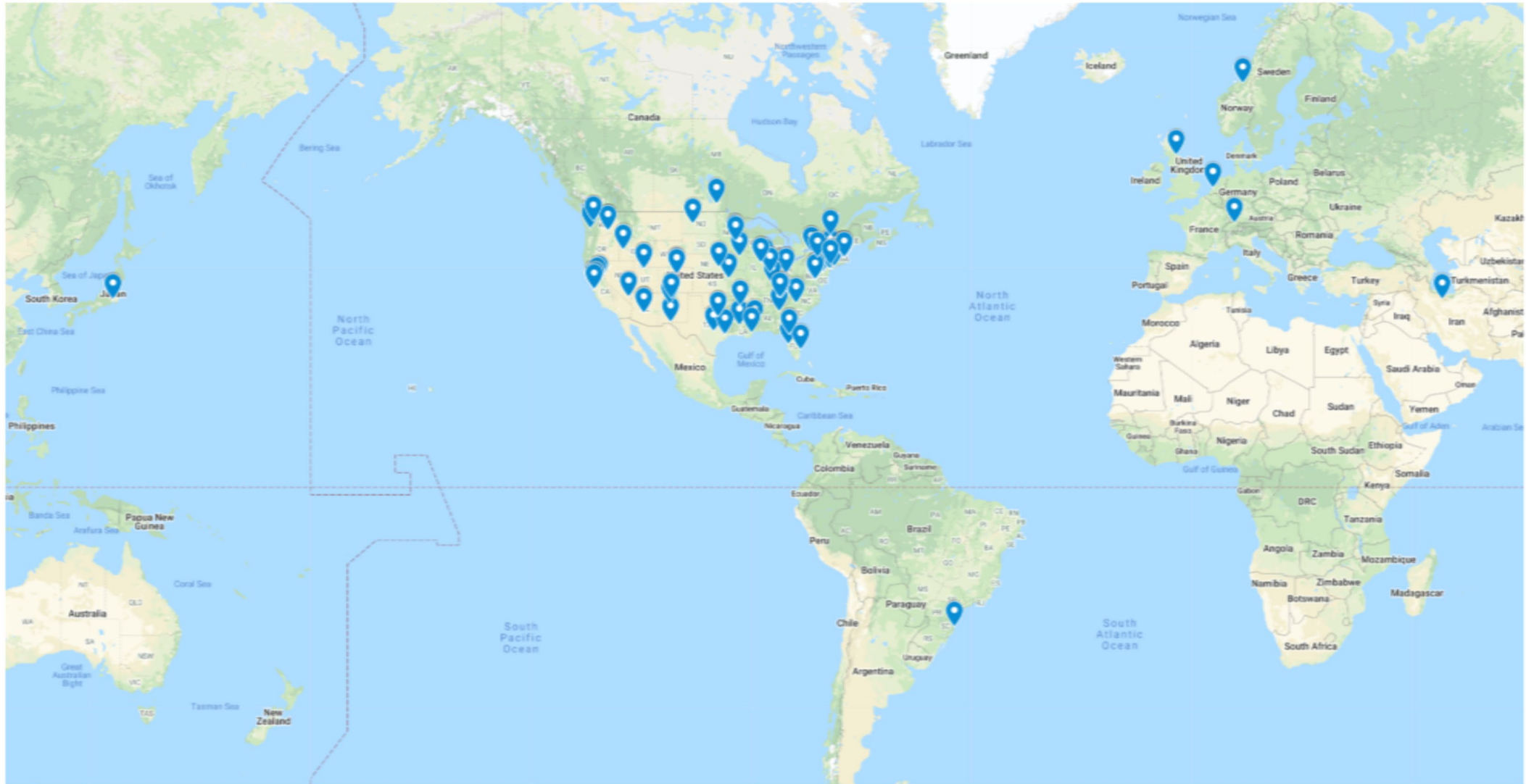
Conference Facts	
Serving Size 3 days (72h)	
Servings per Conference 1	
Amount Per 2020 Conference	
Calories 0	Calories from Fat 0
% Daily Value	
Presentations 32	300 %
Count by lead presenter organization:	
ISOs/RTOs 8	75 %
National Labs 7	66 %
Academic 11	103 %
Industry/Consulting 4	38 %
Research Organizations 1	9 %
Gov Agencies 1	
Organizations participating as authors 32	
ISOs/RTOs 4	
National Labs 6	
Academic 14	
Industry/Consulting 6	
Research Organizations 1	
Gov Agencies 1	



2020 FERC Software Conference Speakers/Authors



2020 FERC Software Conference Attendees





FERC Regulation of Electric Markets

FERC Does

- Regulates wholesale sales of electricity (market design, rates)
- Regulates interstate transmission of electricity
- Protect reliability of transmission system through mandatory reliability standards
- Monitor electricity markets and enforces rules/regulations

FERC Does Not

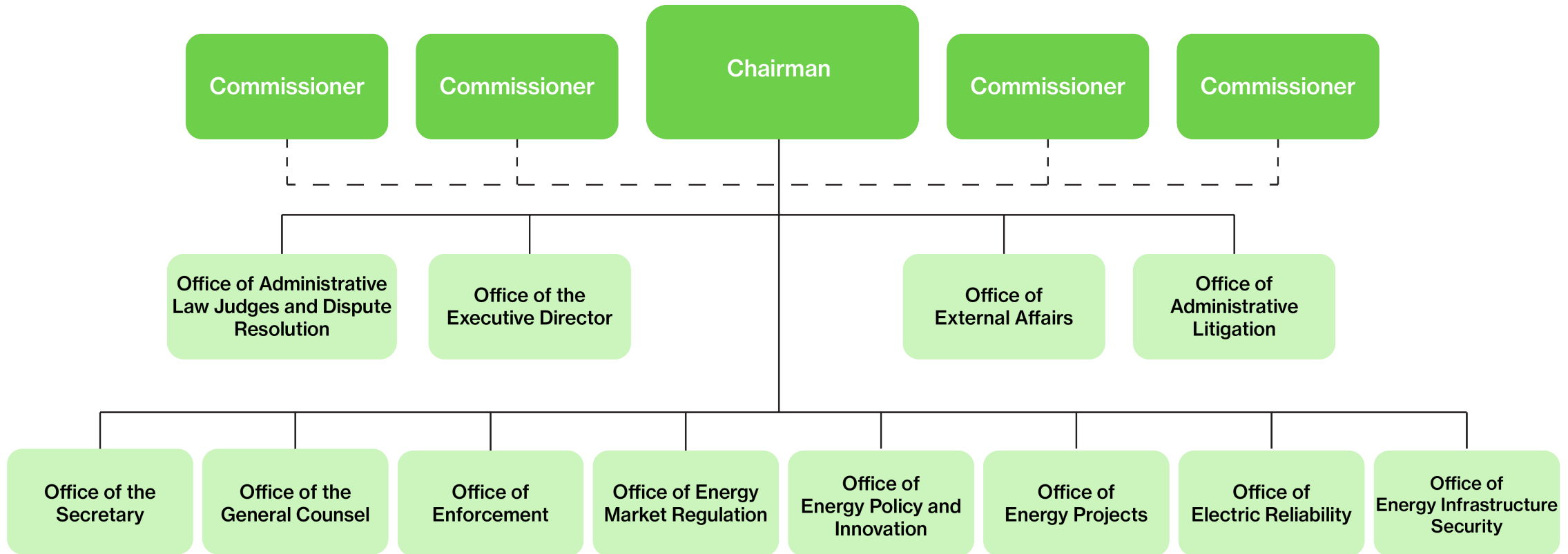
- Regulate retail electricity sales
- Regulate local distribution of electricity
- Approve siting or physical construction of electric generation or (most) transmission
- Regulate the safety or construction of nuclear power plants

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





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](https://www.go.usa.gov/xwVtE))
 - Industry outreach
 - Annual demand response/advanced metering report ([go.usa.gov/xwVME](https://www.go.usa.gov/xwVME))
 - RTO-scale test problems (AD10-12-002, [go.usa.gov/xwy9h](https://www.go.usa.gov/xwy9h))
 - OPF staff papers ([go.usa.gov/xwyX4](https://www.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)
 - bestplacestowork.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



