

Joint Generator Interconnection Workshop

Brief Introduction



ESIG

ENERGY SYSTEMS
INTEGRATION GROUP

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Chief Engineer

ESIG

8/8/2022

Energy Systems Integration Group



- Energy Systems Integration Group (ESIG) is a non-profit membership-based educational association.
- ESIG provides workshops, discussion forum, resources on the evolving electricity and energy systems.
- ESIG supports engineers, researchers, technologists, policymakers and the public with energy systems transformation in a way that is economic, reliable, sustainable, thoughtful and collaborative.
- ESIG independent and trusted, forward leaning but not advocating, keeping everyone at the table.



>200 Members Globally

<https://www.esig.energy/>

Workshop Partners – Thank you!





Previous Joint Workshops



 **2018** 

Frequency Response and Energy Storage Workshop
Wednesday, August 1 (8-5) and Thursday, August 2 (8-3)

NERC Washington D.C. Office
1325 G Street NW, Suite 600
Washington DC 20005

 **2019** 

**NERC/NAGF/ESIG
Workshop on Battery Storage,
Hybrid Resources, Frequency Response
and Grid Services**

NERC Washington D.C. Office
1325 G Street NW
Suite 600
Washington DC 20005

NERC Atlanta Office
3353 Peachtree Rd NE,
Suite 600, North Tower
Atlanta, GA 30326

Tuesday, September 17th – 9:00 AM to 5:00 PM
Wednesday, September 18th – 8:30 AM to 4:00 PM

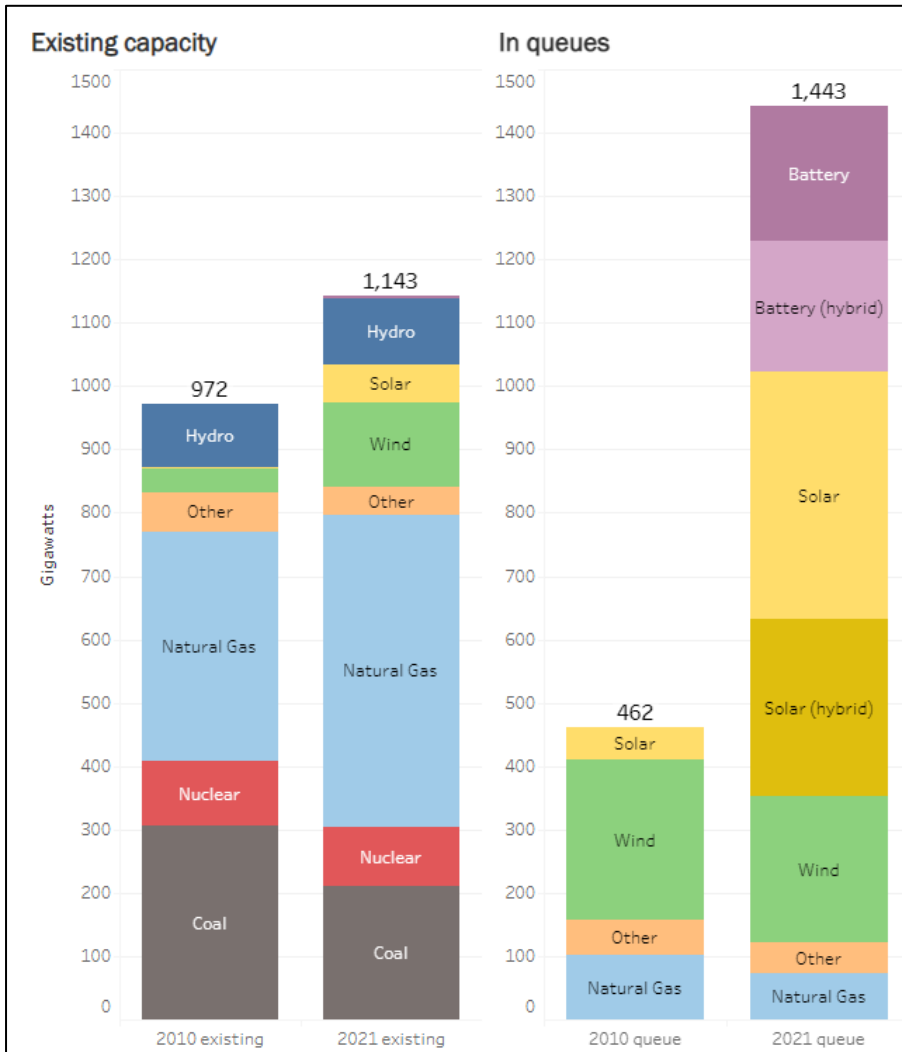
2022

**VIRTUAL
GENERATOR INTERCONNECTION WORKSHOP**
AUGUST 9-11

CO-SPONSORED BY

Motivation for this Joint Workshop



179 FERC ¶ 61,194
 UNITED STATES OF AMERICA
 FEDERAL ENERGY REGULATORY COMMISSION
 [Docket No. RM22-14-000]
Improvements to Generator Interconnection Procedures and Agreements
 (June 16, 2022)



IEEE Std 2800™-2022

IEEE Standard for Interconnection and Interoperability of Inverter-Based Resources (IBRs) Interconnecting with Associated Transmission Electric Power Systems

Developed by the
 Energy Development & Power Generation Committee, Electric Machinery Committee, and Power System Relaying & Control Committee
 of the
 IEEE Power and Energy Society

Approved 9 February 2022
 IEEE SA Standards Board

Purpose of the Workshop



- **Identify gaps and recommended best industry practices related to the generation interconnection process, interconnection studies & modeling and interconnection requirements/standards**
- **Provide deeper technical understanding of each topic area in a way that can facilitate fact-based discussion and meaningful feedback**
- **Inform industry comments to the FERC NOPR on Improvements to Generator Interconnection Procedures and Agreements.**
- **Bring awareness to developer community about power system reliability needs shaping the studies, modelling and interconnection requirements**
- **Bring awareness to ISOs/RTOs/Utilities and Policy Makers on challenges facing project developers**
- **Inform a broad engineering, policy, and decision maker audience**
- **Summarize the workshop highlights and key messages in three blog posts by the end of September**

Day 1: Interconnection and Transmission Planning Process



Tuesday, August 9, 2022

Day 1: Interconnection and Transmission Planning Process

1:00 – 4:00 p.m. (EDT)

1:00 – 1:10 p.m.

Introduction

1:10 – 2:30 p.m.

Session 1: Generation Interconnection vs Transmission Planning, Why the Difference?

2:30 – 2:40 p.m.

Break

2:40 – 4:00 p.m.

Session 2: Integrating Interconnection and Transmission Planning, Benefits of Transmission

For Q&A: Go to [slido.com](https://www.slido.com) & enter event code **ESIG9 to submit your questions**

Day 2: Interconnection Studies and Modeling



Wednesday, August 10, 2022

Day 2: Interconnection Studies and Modeling

1:00 – 4:00 p.m. (EDT)

1:00 – 1:15 p.m.

Introduction

1:15 – 2:35 p.m.

Session 3: Interconnection Studies

2:35 – 2:45 p.m.

Break

2:45 – 4:00 p.m.

Session 4: Importance of Modeling

For Q&A: Go to [slido.com](https://www.slido.com) & enter event code **ESIG10** to submit your questions

Day 3: Interconnection Requirements and IEEE2800



Thursday, August 11, 2022

Day 3: Interconnection Requirements and IEEE2800

1:00 – 4:00 p.m. (EDT)

1:00 – 1:15 p.m.

Introduction

1:15 – 2:35 p.m.

Session 5: IEEE2800

2:35 – 2:50 p.m.

Break

2:50 – 3:40 p.m.

Session 6: DOE i2x Initiative

3:40 – 4:00 p.m.

Closing Remarks

For Q&A: Go to [slido.com](https://www.slido.com) & enter event code **ESIG11 to submit your questions**

Workshop Logistics



- Phones will be muted for the duration of the Workshop
- Please use [slido.com](https://www.slido.com) and **ESIG9**, **ESIG10**, **ESIG11** code respectively for each day of the workshop to post your questions
- You can vote already posted questions up to help us select the most popular questions and avoid repetitions
- Please **DO NOT** post questions in the Chat window on Webex
- All presentation materials will be posted on [the Workshop](#) page after the event
- This workshop is **recorded**, and recording will be made available on [ESIG's YouTube](#) channel shortly after the event
- You will receive confirmation once presentations and recordings are posted
- An email with a link will go out to all workshop attendees once 3 blog posts have been posted at the end of September



THANK YOU
&
ENJOY THE
WORKSHOP