



IEEE 2800-2022 WORKSHOP

September 13, 2022

NYISO, Rensselaer, NY & WEBEX



IEEE 2800-2022 IBR WORKSHOP

Workshop Objective – To introduce NYSRC’s Proposed Reliability Requirement for Interconnection of Inverter Based Resources to NYCA’s BPS based on IEEE 2800-2022

- Introduction (Roger Clayton - NYSRC)
- IEEE 2800-2022 Standard Review (Andy Hoke - NREL)
- Review of Proposed Requirements for IBR Interconnection
 - in NYCA (Reigh Walling – WES Consulting)
 - Scope
 - Settings
 - Verification requirements for models, data & compliance
- Break
- Regional Application Experience
 - NPCC (Shayan Rizvi - NPCC)
 - ISO-NE (Brad Marszalowki - ISO-NE)
- Stakeholder Considerations
 - NYISO Implementation (Thinh Nguyen – NYISO)
 - Transmission Owner (Anie Philip – LIPA/PSEGLI)
 - OEM/Developer (Sid Pant – GE Renewable Energy)
 - Coordination with DER IEEE 1547-2018 (Jason Pause – NY DPS)
- Next Steps



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New York State Reliability Council

- The NYSRC was approved by FERC in 1998 as part of the comprehensive restructuring of the wholesale electricity market in New York State
- The NYSRC was established to promote and preserve the reliability of the New York State Power System by developing, maintaining and, from time to time, updating the reliability rules (“Reliability Rules”) that govern the NYISO’s operation of the state’s bulk power system.
- The NYSRC develops Reliability Rules in accordance with standards, criteria and regulations of North American Reliability Corporation (“NERC”), Northeast Power Coordinating Council (“NPCC”), FERC, the Commission, and the Nuclear Regulatory Commission.
- The NYSRC Reliability Rules are available on the NYSRC website, www.NYSRC.org, under Documents/Reliability Rules Compliance Monitoring.
- The NYISO/NYSRC Agreement provides that the NYISO and all entities engaged in transactions on the New York State power system must comply with the Reliability Rules adopted by the NYSRC .
- The NYSRC Reliability Rules have been adopted by the New York State’s Public Service Commission under its Public Service Law authority prescribing reliability rules necessary to ensure safe and adequate service.

- Blue Cut Fire (2017)
- Canyon 2 Fire (2018)
- Palmdale Roost and Angeles Forest (2019)
- San Fernando (2020)
- Odessa (2021)
- CA 2021 Disturbances (2022)
- Texas Panhandle Wind Event (2022)
- **CATEGORY 3: Odessa II (2022)**



Citation: ESIG/NAGF/NERC/EPRI Generation Interconnection Workshop,
August 2022. Ryan Quint – BPS Reliability Perspectives

<https://www.nerc.com/pa/rrm/ea/Pages/Major-Event-Reports.aspx>



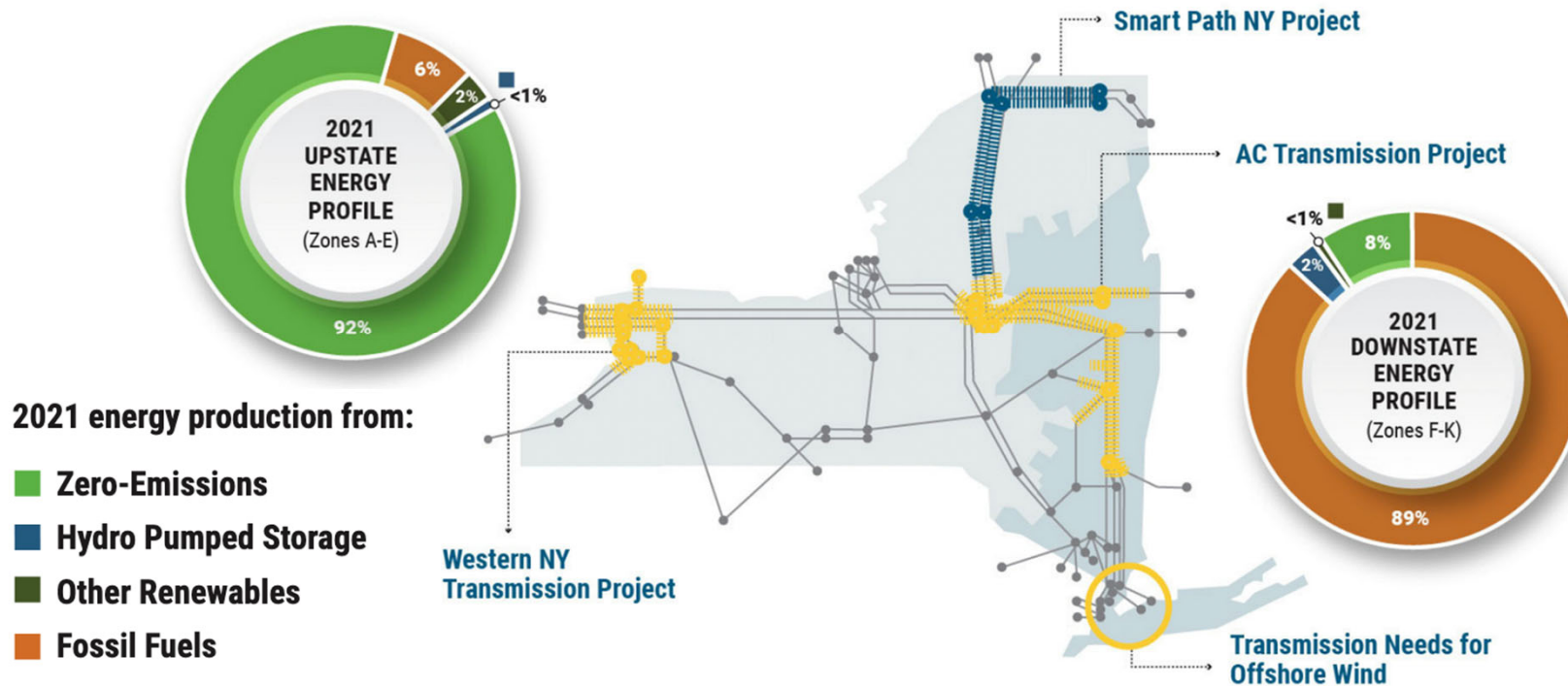
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New York State's Climate Leadership and Community Protection Act (CLCPA)

- 10,000 MW of distributed solar installed by 2030
- 3,000 – 6,000 MW of storage installed by 2030
- 70% of load supplied by renewable resources by 2030
- 9,000 MW of offshore wind installed by 2035
- 100% of load supplied by zero-emissions resources by 2040
- Reduce New York's greenhouse gas emissions by 85% of 1990 levels by 2050

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NYISO Power Trends 2022





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- NYISO Interconnection Queue 7/31/22*

Total Project Size (MW) in NYISO Queue by Zone						Total (MW)
Zone	Co-Solar	Co-Wind	Storage	Solar	Wind	
A	290		430	2,070	615	3,405
B	100		41	2,521	200	2,862
C	70		1,204	5,054	1,063	7,391
D	40		20	1,674	847	2,581
E	654		72	4,407	1,087	6,220
F			295	1,937		2,232
G			1,541	250		1,791
H			3,260			3,260
I			1,000			1,000
J			4,815		26,626	31,441
K		96	5,782	59	26,968	32,905
State	1,153	96	18,460	17,972	57,406	95,088

*NYSRC Executive Committee Meeting #281, 9-9-22, Matt Keonig - ConEd



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