

Queue Interconnection Studies of Projects Potentially Affecting Neighboring Systems

IPSAC WebEx

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Summary

- Projects in the respective ISO/RTO interconnection queues may have potential interregional effects on neighboring systems
 - This requires coordination of studies across ISO/RTO borders
- The Joint ISO/RTO Planning Committee continues to
 - Coordinate system data bases and models
 - Identify and evaluate the performance of projects affecting interregional system performance
- The ISO/RTO interconnection queues can be found at:
 - <https://www.iso-ne.com/irq>
 - <https://www.nyiso.com/interconnections>
 - <https://www.pjm.com/planning/service-requests/services-request-status>
- Several projects will now be discussed with the IPSAC
 - Slides show the effective date of November 1, 2023 for every ISO/RTO Queue
 - Changes from the May 23, 2023 IPSAC meeting are shown in red

NYISO TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Supriya Tawde – NYISO

NYISO Interconnection Queue Projects with Potential ISO-NE/PJM Impact

Transmission Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date
National Grid Segment B Knickerbocker-PV	543	F, G	ISO-NE / PJM	12/2023
LS Power Segment A Double Circuit	556	E, F	ISO-NE / PJM	06/2023
NS Power Express	631	J	ISO-NE/PJM	10/2025
Renovo Energy Center	654	C	PJM	12/2024
CH Uprate	887	J	ISO-NE/PJM	05/2026
Barrett Ridge Energy - PARs	1013	G	PJM	04/2024
Northern New York Priority Transmission Project (NNYPTP)	1125	D,E	ISO-NE	12/2025
CPNY	1167	E,J	ISO-NE / PJM	06/2026
NY Interconnection 1	1207	J	PJM	06/2027
Downstate Clean Powerlink	1273	I,J,K	ISO-NE / PJM	12/2028
Propel NY Energy – Base Solution 2	1274	I,J,K	ISO-NE / PJM	12/2028
Propel NY Energy – Base Solution 4	1275	J,K	ISO-NE / PJM	12/2028
Propel NY Energy – Base Solution 1	1276	I,J,K	ISO-NE / PJM	12/2028
Propel NY Energy – Base Solution 3	1277	I,J,K	ISO-NE / PJM	12/2028
New York Renewable Connect – Core 1	1278	I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Core 2	1279	I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Core 3	1280	I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Core 4	1281	I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Core 5	1282	I,J,K	ISO-NE / PJM	12/2030

NYISO Interconnection Queue Projects with Potential ISO-NE/PJM Impact (Cont.)

Transmission Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date
New York Renewable Connect – Core 6	1283	I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Core 7	1284	H,I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Enhanced 1	1285	H,I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Enhanced 2	1286	G,H,I,J,K	ISO-NE / PJM	12/2030
New York Renewable Connect – Plus 3	1287	I,J,K	ISO-NE / PJM	12/2030
CPTY-X	1288	E,J	ISO-NE / PJM	12/2026
Propel NY Energy - Alternate Solution 5	1289	I,J,K	ISO-NE / PJM	12/2028
Propel NY Energy – Alternate Solution 6	1290	I,J,K	ISO-NE / PJM	12/2030
Propel NY Energy – Alternate Solution 7	1291	I,J,K	ISO-NE / PJM	12/2030
Liberty Green Line	1555	J	PJM	01/2029

NYISO Interconnection Queue Projects with Potential ISO-NE/PJM Impact (Cont.)

Generation Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date	MW
Invenergy Alle Cat II Wind	596	A	PJM	11/2024	339
Liberty Generating Alternative	668	J	PJM	01/2028	1171
EDF Renewables Genesee Road Solar Energy Center	858	A	PJM	12/2027	250
Empire Solar	954	A	PJM	10/2026	158
Renewable Energy Aggregators, Inc. - Mifflin	1004	E	PJM	01/2027	300
Vineyard Wind I	1010	K	ISO NE	07/2026	1403
Vineyard Wind II	1011	K	ISO NE	07/2026	1403
Equinor Wind US - El Fort Salonga	1020	K	ISO NE	12/2026	1300
Equinor Wind US - El East Shoreham	1021	K	ISO NE	12/2026	1300
Equinor Wind US - El Glenwood Landing	1022	K	ISO-NE	12/2026	1300
Juno Power Management - Mainesburg ESS (Energy Storage Project Located in PJM)	1036	C	PJM	04/2026	130
Juno Power Management - East Sayre ESS (Energy Storage Project Located in PJM)	1037	C	PJM	03/2026	75
Fort Edward Solar Farm (NY53)	1042	F	ISO-NE	10/2025	100
Bay State Wind - NY Wind - Pilgrim	1058	K	ISO-NE	11/2029	1276
Mineral Basin Solar Power (Energy Storage Project Located in PJM)	1080	C	PJM	09/2025	402
SED NY Holdings LLC - Kingbird Solar	1098	A	PJM	09/2026	20
Ray Solar, LLC	1100	F	ISO-NE	04/2024	20
Bangor Solar	1108	D	ISO-NE	10/2026	107
Flat Creek Solar 2	1115	F	ISO-NE	09/2025	100

NYISO Interconnection Queue Projects with Potential ISO-NE/PJM Impact (Cont.)

Generation Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date	MW
Fuller Storage	1119	G	ISO-NE / PJM	06/2025	20
KCE NY 29	1123	K	ISO-NE / PJM	09/2025	150
Wintergreen Solar	1138	F	ISO-NE	03/2029	75
Taproot Solar	1140	E	ISO-NE	06/2024	205
Minerva BESS I	1142	J	PJM	03/2024	300
Champlain Solar	1146	F	ISO-NE	09/2027	100
Wawayanda Solar	1147	G	PJM	10/2023	20
York Run Solar	1151	A	PJM	05/2026	90
Arcade Solar	1160	A	ISO NE	08/2024	75
Oakdale Energy Center	1177	C	PJM	10/2028	200
OW Ocean Winds East 4	1190	J	PJM	09/2029	1600
OW Ocean Winds East 6	1192	J	PJM	09/2029	1600
Stern Solar	1198	F	ISO-NE	07/2024	20
Atlantic Shores Offshore Wind Bight 2	1338	J	PJM	12/2029	2100
Atlantic Shores Offshore Wind Bight 4	1340	J	PJM	12/2029	2100
Moonlight Flats Solar Power	1343	C	PJM	05/2027	250
Goethals Energy Storage Project	1345	J	PJM	09/2026	500
Community OSW Goethals 1	1371	J	PJM	04/2029	1100
Community OSW Farragut 1	1372	J	PJM	04/2029	1100
Community OSW Goethals 2	1377	J	PJM	04/2029	210
Community OSW Farragut 2	1378	J	PJM	04/2029	210

NYISO Interconnection Queue Projects with Potential ISO-NE/PJM Impact (Cont.)

Generation Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date	MW
Attentive Energy 2	1386	J	PJM	12/2028	1310
Mineral Basin II Solar Power	1393	C	PJM	06/2026	222
NY Interconnection 6	1434	J	PJM	06/2027	1050
NY Interconnection 7	1438	J	PJM	06/2027	270
Ramapo Storage Project 1	1507	J	PJM	10/2026	500
Ramapo Storage Project 2	1510	J	PJM	10/2026	500
New Scotland BES 1 and 2	1535	F	ISO-NE	03/2025	1350
Blue Frost	1603	E	ISO-NE	09/2027	400
Blue Frost	1604	E	ISO-NE	09/2027	400
Braen Energy Storage Phase 1	1619	G	PJM	04/2028	500

ISO NEW ENGLAND TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Stojan Nikolov – ISO-NE



ISO New England Interconnection Requests that had, are having, or will need Interregional Coordination

Active Projects

QP	Type	Requested	Name	Net MW	ST	OpDate	Interconnection Point	SIS
501	ETU	2/16/2015	HVDC Tie - Import only	1000	VT	12/31/2027	HQ 735 kV substation to VELCO 345 kV Coolidge substation	Yes
639	ETU	4/19/2017	HVDC Tie	1000	ME	12/20/2024	CMP Larrabee Rd 345 kV Substation	Yes
1093	ETU	02/24/2021	NB TA#1365950 HVDC	0	NB	01/01/2030	Salisbury, New Brunswick	No
1310	G	9/22/2022	Battery Storage	118.8	MA	10/31/2025	115 kV Transmission line (1211 - Present between Doreen and Oswald substation)	No
1317	ETU	9/30/2022	Non-controllable objective ETU to enable 1200 MW injection near Norwalk substation	1200	CT	12/30/2029	Norwalk substation	No
1333	ETU	5/31/2028	2400 controllable ETU - unidirectional	1200	CT	5/31/2028	1. Singer 345kV Substation existing available circuit breaker position and new circuit breaker position. 2. Offshore platform at the MA/RI BOEM Wind Energy Areas	No
1337	G	11/22/2022	Battery Storage	130	MA	12/31/2026	Adams - NG Q117 VEL - Bennington 115 kV line	No
1338	G	12/06/2022	Battery Storage	275.06	MA	06/30/2027	Agawam to Ludlow - 345kV line, 2.5 miles west of Ludlow substation	No
1381	ETU	4/11/2023	1200 MW (+/- 400 kV) HVDC External ETU	1200	NH	07/01/2029	1. In New Hampshire, the point of interconnection is near the old Monroe yard (AC capacitors and reactors and Phase II filters presently reside in this yard). The project will tie into the currently existing Comerford 230 kV substation. 2. The northern section of the project will connect with the Hydro-Quebec system at the US-Canada border near Canaan, Vermont.	No

PJM TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Zach Van Ness— PJM



PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AB1-182	Storage facility connected at the Bear Creek 69kV	Battery/Storage	PPL	20	0	20	Suspended – ISA signed
AD2-009	McConnellsburg 138 kV	Solar	APS	70	48.1	70	Under Construction
AE1-059	Stanton-Summit 230 kV	Hydro	PPL	500	250	500	Facilities Study
AE1-160	Venango 34.5 kV	Solar	PENELEC	20	12.7	20	Engineering and Procurement
AE2-074	Potter 46 kV	Solar	PENELEC	35	15.11	35	Suspended
AE2-113	Farmers Valley-Ridgeway 115 kV	Solar	APS	130	62.6	130	Engineering and Procurement
AE2-139	East Towanda-Grover 230 kV	Solar	PENELEC	100.5	60.3	100.5	Facilities Study
AE2-224	Bearrock-Johnstown 230 kV	Solar	PENELEC	100	60	100	Partially in Service -Under Construction
AE2-249	Bedford North-Pennsylvania Hollow 23 kV	Solar	PENELEC	13.5	8.1	13.5	Suspended – ISA signed
AE2-299	Erie East 230 kV	Battery/Storage	PENELEC	160	32	160	Facilities Study
AE2-344	Edinboro South-Venango Junction 115 kV	Solar	PENELEC	116.5	69.9	116.5	Engineering and Procurement

PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AF1-006	Fairview East 34.5 kV	Solar	PENELEC	20	12.8	20	Engineering and Procurement
AF1-170	Springboro-Venango Junction 115 kV	Solar	PENELEC	77.5	46.5	77.5	Facilities Study
AF1-198	Blossburg #1 CT 34.5 kV	Natural Gas	PENELEC	22.5	2.5	2.5	Partially in service / under construction
AF1-277	Lewis Run-Pierce Brook 2 230 kV	Solar	PENELEC	200	67	100	SIS
AF1-103	Warren 34.5 kV	Solar and Battery	PENELEC	20	20	20	Withdrawn
AF1-106	East Sayre 34.5 kV	Solar and Battery	PENELEC	20	20	20	Facilities Study
AF1-104	Erie West 34.5 kV	Solar and Battery	PENELEC	20	20	20	Engineering and Procurement
AF1-286	East Sayre 34.5 kV II	Solar	PENELEC	13.6	8.1	13.6	Withdrawn
AF1-287	Edinboro South 34.5 kV II	Solar	PENELEC	20	12	20	Engineering and Procurement
AF1-304	Titusville-Grandview 115 kV	Solar and Battery	PENELEC	100	60	100	Withdrawn

PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AF1-306 (AF2-000A)	Squab Hollow 230 kV	Battery	APS	197.2	49.3	197.2	SIS
AF1-278	Lewis Run-Pierce Brook 3 230 kV	Solar	PENELEC	280	53.44	80	SIS
AF1-094	Union City-Cambridge Springs 34.5 kV	Solar	PENELEC	20	12	20	Engineering and Procurement
AF1-098	Four Mile Jct-Corry East 115 kV	Solar	PENELEC	80	48	80	Engineering and Procurement
AF1-276	Lewis Run-Pierce Brook 230 kV	Solar	PENELEC	100	67	100	SIS
AF1-217	Edinboro -Cambridge Springs 34.5 kV	Solar	PENELEC	20	12	20	Suspended
AF2-010	Union City-Titusville 115 kV	Solar	PENELEC	77	46	77	Facilities Study
AF2-197	East Towanda 115 kV	Storage	PENELEC	100.8	40.32	100.8	Withdrawn
AF2-235	Titusville-Oil Creek 34.5 kV	Solar	PENELEC	30	6	10	Facilities Study
AF2-265	South Troy-Athens 34.5 kV	Solar	PENELEC	15	8.6	15	Withdrawn

PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AF2-283	Greenfield 12.47 kV	Solar; Storage	PPL	2	0	2	Engineering and Procurement
AF2-285	W. Damascus 12.47 kV	Solar; Storage	PPL	3	0	3	Engineering and Procurement
AF2-294	Thompson 34.5 kV	Solar	PENELEC	20	12	20	Engineering and Procurement
AF2-405	East Sayre 34.5 kV III	Storage	PENELEC	10	10	10	Facilities Study
AF2-406	Sayre 115 kV	Storage	PENELEC	75	75	75	SIS
AF2-412	Mainesburg 115 kV	Storage	PENELEC	130	130	130	SIS
AF2-417	West Damascus Tap-West Damascus 69 kV	Solar	PPL	20	12	20	Facilities Study

PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AG1-040	Morgan Street-Mount Hope 34.5 kV	Solar	Penelec	20	12	20	Facilities Study
AG1-100	Venango-Saegertown 34.5 kV	Solar	Penelec	20	12	20	Facilities Study
AG1-140	Union City 34.5 kV	Solar	Penelec	2.6	1.7	2.6	Engineering and Procurement
AG1-156	Jack Frost-Lake Harmony 69 kV	Solar	PPL	60	39.5	60	Facilities Study
AG1-197	Morgan Street-Cochranton 34.5 kV	Solar	Penelec	15	9	15	Engineering and Procurement
AG1-198	Union City 34.5 kV	Solar	Penelec	12	7.2	12	Engineering and Procurement
AG1-202	Springboro 12.47 kV	Solar	Penelec	10	6.6	10	Withdrawn
AG1-206	Snyder Twp 34.5 kV	Solar	Penelec	10	6.5	10	Withdrawn
AG1-253	Erie East-Union City 34.5 kV	Solar	Penelec	4	2.7	4	Engineering and Procurement
AG1-303	Geneva 115 kV	Solar	Penelec	44	26.4	44	Facilities Study

PJM QUEUE PROJECTS JOINTLY COORDINATED WITH NYISO AND ISO-NE

Queue ID	Project Description	Fuel Type	Transmission Zones	Total Facility	Capacity Value (MW)	Energy Value (MW)	Project Status
AG1-392	Gold 115 kV I	Solar	Penelec	40	24	40	SIS
AG1-392A	Gold 115 kV II	Solar	Penelec	40	24	40	SIS
AG1-392B	Gold 115 kV III	Solar	Penelec	20	12	20	SIS
AG1-392C	Gold 115 kV IV	Solar	Penelec	20	12	20	SIS
AG1-455	Springboro-Venango Junction 115 kV	Storage	Penelec	112.5	35	35	SIS
AG1-548	Erie South-Union City 115 kV	Solar/Storage	Penelec	150	115	150	SIS

Questions

