

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:
 - <http://www.iso-ne.com/system-planning/transmission-planning/interconnection-request-queue>
 - <https://www.nyiso.com/interconnections>
 - <https://www.pjm.com/planning/services-requests/interconnection-queues.aspx>
- Several projects will now be discussed with the IPSAC
 - Slides show the effective date of November 1, 2019 for every ISO/RTO Queue
 - Changes from the May 13, 2019 IPSAC meeting are shown in **red**

NYISO TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Zamiyad Dar – NYISO

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

Transmission Project	Queue Number(s)	Zone(s)	Regions Affected	Proposed I/S Date
West Point Partners HVDC	358	F, H	ISO-NE / PJM	2021/01
Poseidon HVDC	363	K	ISO-NE / PJM	2020/07
Grand Isle Intertie Development	386	D	ISO-NE	2023
Champlain Hudson (CH) Interconnection	458	J	ISO-NE / PJM	2021/Q3
Hudson Transmission Partners NY to PJM	465	J	PJM	2021/02
Empire State Connector HVDC	506	E, J	ISO-NE / PJM	2021/10
PPL Electric Utilities Compass	518	G	PJM	2023/12
NextEra Empire State Line	530	A	PJM	2020/05
AVANGRID Connect NY Edic – PV	540	E, G	ISO-NE / PJM	2020/12
AVANGRID Connect NY Edic – Ramapo	541	E, G	ISO-NE / PJM	2020/12
National Grid Segment B Knickerbocker-PV	543	F, G	ISO-NE / PJM	2021/12
NextEra Empire State Line Alt	545A	A	PJM	2022/06
NAT Segment A Double Circuit	556	E, F	ISO-NE / PJM	2020/06
Champlain Hudson NS Power Express HVDC	631	J	PJM	2021/12
GridAmerica Holdings Alps - Berkshire	632	F	ISO-NE	2021/09
AVANGRID Oakdale – Lafayette	641	C	PJM	N/A
AVANGRID Multiple Areas	643	G, E	PJM	N/A
ITC Lake Erie Connector	684	A	PJM	2024/03
LIPA NNC TTC Increase	816	K	ISO-NE	2023
Champlain Hudson (CH) Uprate	887	J	ISO-NE / PJM	2026/10

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
Anbaric Poseidon Offshore	363	K	ISO-NE / PJM	2020/07	500
Cassadaga Wind	387	A	PJM	2020/05	126
Caithness Long Island II	401	K	ISO-NE / PJM	2022/04	599
EDP Renewables North America Arkwright Summit	421	A	PJM	I/S	78.4
Cricket Valley Energy Center	444	G	ISO-NE	2017/12	1020
Atlantic Wind Bone Run	466	A	PJM	2021/11	132
Renovo Energy Center	496	C	PJM	2019/09	480
Tioga County Power	498	C	PJM	2020/06	550
RES America Developments Ball Hill Wind	505	A	PJM	2019/09	100
East Coast Power Linden Cogen Uprate	516	J	PJM	2020/05	234.4
Dunkirk Unit 2	523	A	PJM	2020/01	75
Dunkirk Unit 3 & 4	524	A	PJM	2020/01	370
North Park Energy SW Energy	595	A	PJM	2021/10	100
Invenergy Alle Cat II Wind	596	A	PJM	2021/10	339
North Bergen Liberty Generating Alternative	668	J	PJM	2023/04	1171
Anbaric NYC Offshore Wind	679	J	PJM	2025/07	1200
Anbaric LI Offshore Wind	680	K	ISO-NE / PJM	2025/07	700
Renovo Energy Center Uprate	693	C	PJM	2020/10	515
Anbaric NYC Offshore AC	703	J	PJM	2025/07	800
Equinor Wind US Empire Wind	737	J	PJM	2023/06	816
Equinor Wind US Empire Wind II	738	K	ISO-NE / PJM	2023/06	816
Anbaric NY Ocean Grid - Canal	754	K	ISO-NE / PJM	2025/07	800

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
Anbaric NY Ocean Grid - Shoreham	755	K	ISO-NE / PJM	2025/07	800
Bay State Wind – NY Wind Canal	764	K	ISO-NE / PJM	2023/01	440
Bay State Wind – NY Wind Brookhaven	765	K	ISO-NE / PJM	2023/01	880
Bay State Wind – NY Wind Holbrook	766	K	ISO-NE / PJM	2023/01	880
Bay State Wind – NY Wind Gowanus	767	J	PJM	2023/01	1200
South Ripley Solar	783	A	PJM	2022/09	270
Atlantic Shores Offshore Wind 7	788	K	ISO-NE / PJM	2025/06	880
Atlantic Shores Offshore Wind 8	789	J	ISO-NE / PJM	2025/06	880
Atlantic Shores Offshore Wind 9	790	J	ISO-NE / PJM	2025/06	880
Anbaric LI Offshore Wind Connection	792	K	ISO-NE / PJM	2025/07	300
Barrett Ridge Energy	808	G	PJM	2022/03	107
Seven Creek Energy	809	A	PJM	2022/03	240
Hecate Energy Cider Solar	811	A	PJM	2023/08	800
Diamond Generating Corporation CWW 300 Wind Dun	814	A	PJM	2023/12	300
Somerset Operating Company Somerset Load	849	A	PJM	2020/08	250
EDF Renewables Genesee Road Solar Energy Center	858	A	PJM	2024/09	350
EDF Renewables Ridge View Solar Energy Center	859	A	PJM	2024/09	350

ISO NEW ENGLAND TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Al McBride – 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
499	ETU	2/16/2015	300 kV HVDC/AC Tie-Import Only	1090	NH	12/29/2022	HQ Des Cantons substation to PSNH Deerfield substation	Yes
501	ETU	2/16/2015	HVDC Tie - Import only	1000	VT	05/31/2023	HQ 735 kV substation to VELCO 345 kV Coolidge substation	Yes
506	ETU	2/16/2015	Internal HVDC - North to South flow	1000	MA	10/01/2027	NMISA to NSTAR 345 kV K Street substation	Yes
592	G	1/21/2016	Pumped Storage Upgrade	66	MA	06/02/2020	GRID 230 kV Bear Swamp substation	Yes
627	ETU	12/27/16	HVDC Tie - Import only	1200	NH	12/31/2022	National Grid 230 kV Comerford Substation	No
639	ETU	4/19/2017	HVDC Tie	1000	ME	12/13/2022	CMP Larrabee Rd 345 kV Substation	No
640	ETU	4/21/2017	HVDC Tie - Import only	1200	MA	12/31/2022	Coleson Cove 345kV Substation, New Brunswick to 345kV lines from Pilgrim Substation	No
651	ETU	5/11/2017	AC Tie	600	MA	12/31/2023	NY Alps 345kV Substation and Eversource Berkshire 345 kV Substation	No
783	ETU	9/18/2018	HVDC Tie - Import only	400	VT	12/31/2023	NY Plattsburgh 230 kV Substation and VELCO New Haven 345 kV Substation	No
890	ETU	05/13/2019	Increase transfer capability from Norwalk Harbor to Northport	N/A	CT	07/01/2023	Not Applicable (Increase associated with existing cable connection)	No

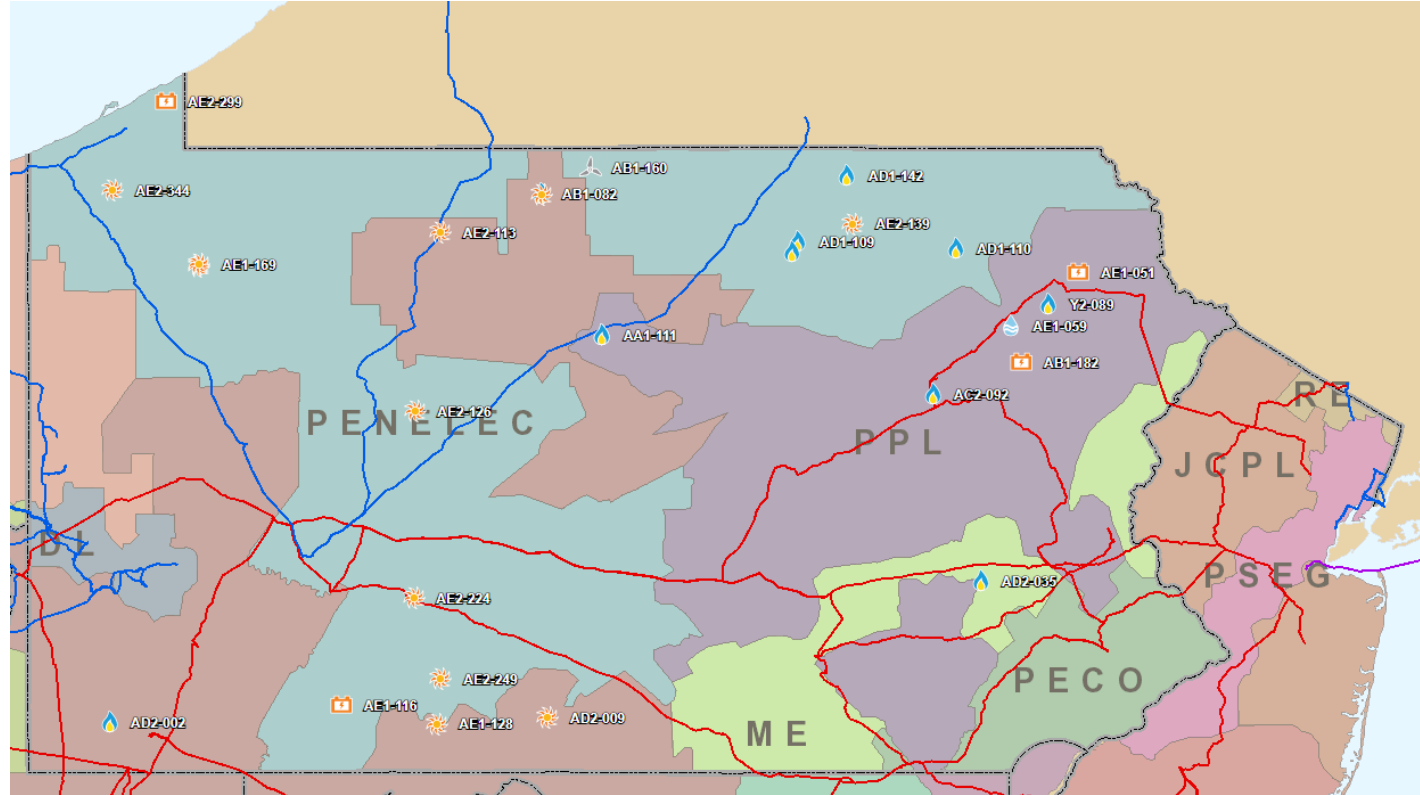
QP is Queue Position; ETU is Elective Transmission Upgrade; G is Generator; SIS: Yes means report available, No means system impact study is not complete and no report is available

PJM TRANSMISSION AND GENERATION PROJECTS WITH POTENTIAL INTERREGIONAL IMPACTS

Hamad Ahmed – PJM



PJM QUEUE UNITS NEAR PJM-NY BORDER THAT ARE JOINTLY COORDINATED WITH NYISO AND ISO-NE



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
Y2-089	Increase to X4-048 (PJM Project) a combined cycle natural gas facility connected at the Lackawana 230 kV bus	Natural Gas	PPL	1370	370	370	In-service
Y3-092	Merchant transmission project (HVDC) connected at the Erie West 345 kV bus	N/A	PENELEC	1000 MW firm injection; 500 MW firm withdrawal; 500 MW non-firm withdrawal			Engineering and Procurement
AA1-111	Natural gas generating facility along the Moshannon-East Towanda 230 kV line	Natural Gas	PENELEC	463	463	463	Facilities Study
AB1-082	Natural gas facility connected as a tap of the Potter-Coneville 46kV line in APS	Natural Gas	APS	19.9	19.9	19.9	Suspended
AB1-092	Uprate to the AA1-111 project connected as a tap of the Chapman-Lobo 230 kV line	Natural Gas	PENELEC	504	17	41	Facilities Study
AB1-160	Wind facility uprate to the Z1-069 project tapping the Gold-Sabinsville 115 kV line	Wind	PENELEC	90	3.8	20	Under Construction
AB1-182	Storage facility connected at the Bear Creek 69kV	Battery/Storage	PPL	20	0	20	Engineering and Procurement
AC2-092	Susquehanna-Lackawanna 500kV	Natural Gas	PPL	1105	65	55	Facilities Study
AD1-108	Grover 34 kV	Natural Gas	PENELEC	21.4	1.5	1.5	In-service
AD1-109	Canton 34.5 kV	Natural Gas	PENELEC	21	1.1	1.1	In-service
AD1-110	North Meshoppen 34.5 kV	Natural Gas	PENELEC	21.4	1.5	1.5	In-service
AD1-142	Milan 34.5 kV	Natural Gas	PENELEC	21	1.1	1.1	In-service
AD2-002	Franklin-Emerald 25 kV	Natural Gas	APS	20	20	20	Engineering and Procurement
AD2-009	McConnellsburg 138 kV	Solar	APS	70	48.1	70	Facilities Study
AD2-035	Ontelaunee 230 kV	Natural Gas	METED	630	14	38.9	Engineering and Procurement
AD2-055	Moshannon-East Towanda 230 kV	Natural Gas	PENELEC	548	35	44	SIS

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
AE1-051	East Carbondale-Lackawanna 69kV	Battery/Storage	PPL	74.5	10	0	Facilities Study
AE1-059	Stanton-Summit 230 kV	Hydro	PPL	500	250	500	Facilities Study
AE1-116	Somerset Windpower 23 kV	Battery/Storage	PENELEC	9	4.5	0	Facilities Study
AE1-128	Bedford North-Wills Mounain 115 kV	Solar	PENELEC	120	72	120	Facilities Study
AE1-160	Venango 34.5 kV	Solar	PENELEC	20	12.7	20	Facilities Study
AE1-169	Titusville 115 kV	Solar	PENELEC	85	51	85	SIS
AE2-074	Potter 46 kV	Solar	PENELEC	35	15.11	35	SIS
AE2-113	Farmers Valley-Ridgeway 115 kV	Solar	APS	130	62.6	130	SIS
AE2-126	Dubois-Curwensville 34.5 kV	Solar	PENELEC	20	12	20	SIS
AE2-139	East Towanda-Grover 230 kV	Solar	PENELEC	100.5	60.3	100.5	SIS
AE2-224	Bearrock-Johnstown 230 kV	Solar	PENELEC	100	60	100	SIS
AE2-249	Bedford North-Pennsylvania Hollow 23 kV	Solar	PENELEC	13.5	8.1	13.5	SIS
AE2-299	Erie East 230 kV	Battery/Storage	PENELEC	160	32	160	SIS
AE2-344	Edinboro South-Venango Junction 115 kV	Solar	PENELEC	116.5	69.9	116.5	SIS

Questions

