

# Class Year 2023 Studies Preliminary Deliverability Analysis

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**TPAS**

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# Agenda

- **CY23 Background**
- **Process for Preliminary Deliverability Analysis and Additional SDU Studies**
- **CY23 Preliminary Deliverability Analysis**
- **CY23 Schedule**
- **Other Business, Questions, Discussion**

# CY23 Background

- **CY23 commenced on February 13, 2023**
- **CY23 currently has 82 projects**
  - 79 projects requesting ERIS and/or CRIS
  - 3 CRIS-only projects
- **Per Section 40.3.1.3.1 of OATT Attachment HH filed in compliance with Order Nos. 2023 and 2023-A (effective May 2, 2024), the CY23 Study will be completed pursuant to the requirements set forth in Attachments X and S to the ISO OATT.**

# Class Year 2023 Members

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
1	Q522	NYC Energy	J	Hudson Avenue East 138kV	Apr-26	79.9	79.9	ES	ConEd
2	Q560	Deer River Wind	E	Black River-Lighthouse Hill 115kV	Jan-26	100	100	W	NM-NG
3	Q680	Juno Power Express	K	Ruland Rd. 138kV	Jan-28	1200	N/A	DC	LIPA
4	Q686	Bull Run Solar Energy Center	D	Patnode – Duley 230 kV Line PND1, Ryan-Plattsburg 230 kV Line RYP2	Jun-27	125	125	S	NYPA
5	Q700	Robinson Grid	J	Gowanus Substation 345kV	Feb-27	300	300	ES	ConEd
6	Q716	Moraine Solar Energy Center	C	Moraine Substation 115kV	Nov-26	93.5	93.5	S	NYSEG
7	Q770	KCE NY 8a	G	South Cairo 13.2kV substation	Dec-24	20	20	ES	CHGE
8	Q774	Tracy Solar Energy Centre	E	Thousand Island - Lyme 115kV	Nov-27	119	119	S	NM-NG
9	Q777	White Creek Solar	B	Sta 82 - Sta 128 115kV	Aug-26	135	135	S	RG&E
10	Q785	Erie-Wyoming County Solar	C	High Sheldon - Stolle Road 230 kV	Aug-25	175	175	CSR	NYSEG
11	Q800	Rich Road Solar Energy Center	E	Moses - Adirondack 230 kV Line #2 (MA2)	Dec-26	240	240	CSR	NYPA
12	Q822	Whale Square Energy Storage 1	J	Narrows Barge Feeder 23162	Jun-26	58.2	58.2	ES	ConEd
13	Q825	Setauket Energy Storage	K	Port Jefferson - Terryville 69kV	Dec-26	65.3	65.3	ES	LIPA
14	Q834	Luyster Creek Energy Storage 2	J	Astoria West Substation 138kV	May-24	79	79	ES	ConEd
15	Q852	Niagara Dolomite Solar	A	Robinson Rd - Stolle Rd 230kV Line 65	Oct-26	180	180	S	NYSEG

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
16	Q857	Columbia Solar Energy Center	E	Edic - Fraser 345kV line	Nov-27	350	350	CSR	NYPA
17	Q858	Genesee Road Solar Energy Center	A	Stolle Rd - Five Mile Rd 345kV	Feb-28	250	250	S	NYSEG
18	Q859	Ridge View Solar Energy Center	A	Somerset - Dysinger 345kV	Oct-27	350	350	CSR	NYSEG
19	Q860	Rosalen Solar Energy Center	B	Clay - Pannell 345kV PC2	Feb-28	200	200	S	NYPA
20	Q866	North Country Wind	D	Moses - Willis 230 kV (MW1)	Dec-26	306.6	306.6	W	NYPA
21	Q869	Tabletop Solar	F	Clinton - Clinton Tap 115 kV	Dec-26	80	80	S	NM-NG
22	Q871	Verona Solar Energy Center I	C	Clay - Edic 345 kV	Dec-27	250	250	S	NYPA
23	Q878	Pirates Island	A	Huntley - Gardenville 115kV	Feb-28	100	100	ES	NM-NG
24	Q880	Brookside Solar	D	Chateaugay - Willis 115kV	Jul-26	100	100	S	NYSEG
25	Q882	Riverside Solar	E	Coffeen - Thousands 115 kV (Lyme tap)	Jul-26	100	100	S	NM-NG
26	Q912	Intrepid Storage 69	K	Barret - Oil City 34.5 kV line, Barret - Ocean 34.5 kV line	Dec-25	50	50	ES	LIPA
27	Q918	Intrepid Storage 138	K	Barrett - Valley Stream 138 kV Lines	Dec-25	250	250	ES	LIPA
28	Q950	Hemlock Ridge Solar	B	Lockport - Mortimer	Apr-26	200	200	S	NM-NG
29	Q951	Cayuga Grid, LLC	A	New Gardenville 115kV Substation	Apr-26	100	100	ES	NYSEG

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
30	Q952	Catskill Grid, LLC	G	North Catskill - Milan 115kV line	Apr-26	100	100	ES	CHGE
31	Q953	Sugar Maple Solar	E	North Carthage - Taylorville #8 and Black River - Taylorville #2 115kV	Dec-26	125	125	S	NM-NG
32	Q957	Holtsville Energy Storage	K	Holtsville - Patchogue 69kV	Dec-27	76.8	76.8	ES	LIPA
33	Q967	KCE NY 5	G	Ohioville 115 KV Substation	Dec-24	94	94	ES	CHGE
34	Q971	East Setauket Energy Storage	K	Holbrook - Miller Place 138kV	Sep-26	125	125	ES	LIPA
35	Q974	KCE NY 19	G	Sugarloaf - Wisner 69kV	Oct-25	79	79	ES	O&R
36	Q995	Alabama Solar Park LLC	B	Lockport - Batavia 115kV (Line#112)	Dec-27	130	130	S	NM-NG
37	Q1007	NYC Energy LLC - Phase 2	J	Hudson Ave 138 kV Substation	Apr-26	220.1	220.1	ES	ConEd
38	Q1009	Yellow Barn Solar	C	Milliken – Etna 115 kV line #975	Dec-25	160	160	S	NYSEG
39	Q1012	Suffolk County Storage II	K	Southold 69 kV Substation	Sep-26	76.8	76.8	ES	LIPA
40	Q1016	EI Steinway 1	J	Mott Haven - Rainey West 345kV, Mott Haven - Rainey East 345kV	Dec-27	1300	1300	OSW	ConEd
41	Q1017	EI Steinway 2	J	Mott Haven - Rainey West 345kV, Mott Haven - Rainey East 345kV	Feb-28	1300	1300	OSW	ConEd
42	Q1031	Mill Point Solar	E	Marcy - New Scotland 345kV Line #18	Nov-25	250	250	CSR	NM-NG
43	Q1036	Mainesburg ESS	C	Mainesburg - Watercure 345kV	Jun-26	130	130	ES	NYSEG

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
44	Q1038	ELP Rotterdam Solar	F	Maple Ave - Rotterdam 115kV Line #10	Dec-25	20	20	S	NM-NG
45	Q1042	Fort Edward Solar Farm (NY53)	F	Mohican - Battenkill 115kV Line #15	Dec-25	100	100	S	NM-NG
46	Q1068	Buchanan Point BESS	H	Buchanan North Substation 345 kV	Apr-27	300	300	ES	ConEd
47	Q1077	Rutland Center Solar	E	Middle Rd Substation 115 kV	Jun-26	110	110	S	NM-NG
48	Q1079	Somerset Solar	A	Kintigh 345 kV	Jul-26	125	125	S	NYSEG
49	Q1080	Mineral Basin Solar Power	C	Homer City- Mainesburg 345kV	Jul-26	401.6	401.6	S	NYSEG
50	Q1088	Harvest Hills Solar	C	Wright Avenue – Milliken 115 kV line	Nov-25	200	200	CSR	NYSEG
51	Q1089	Flat Creek Solar	F	Edic to Princetown 345kV Line 352	Dec-25	200	200	S	NYPA
52	Q1096	Allegany 2 Solar	C	Andover - Palmiter 115 kV, Line 932	Oct-25	120	100	CSR	NYSEG
53	Q1103	Thousand Island Solar	E	Coffeen Street - Thousand Island 115 KV	Apr-27	110	110	S	NM-NG
54	Q1115	Flat Creek Solar 2	F	Edic to Princetown 345kV Line 352	Dec-25	100	100	S	NYPA
55	Q1117	CLIES 70MW	K	Sills Road 138kV substation.	Dec-25	70	70	ES	LIPA
56	Q1122	East Fishkill	G	Shenandoah 115kV Substation	Jun-25	205	205	ES	CHGE
57	Q1123	KCE NY 29	K	Kings 138 kV substation	Oct-25	150	150	ES	LIPA
58	Q1130	Hoffman Falls Wind	C	Fenner - Cortland 115kV Line #3	Jun-26	72	72	W	NM-NG
59	Q1136	Honey Ridge Solar	E	Black River 115 kV Substation	Sep-25	125	125	CSR	NM-NG

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
60	Q1141	Twinleaf Solar	E	Black River-Taylorville 115kV	Jun-27	75	75	S	NM-NG
61	Q1148	Agricola Wind	C	Milliken – Wright Ave 115 kV line #973	Jun-26	97	97	W	NYSEG
62	Q1150	Moss Ridge Solar	E	Corning - Battle Hill 115 kV Line #4	Dec-26	60	60	S	NM-NG
63	Q1151	York Run Solar	A	Falconer – Warren 115 kV line #171	Aug-26	90	90	S	NM-NG
64	Q1159	Innisfree Storage	K	Port Jefferson - Mt. Sinai 69 kV transmission line	Oct-26	50	50	ES	LIPA
65	Q1174	NY48 – Diamond Solar	E	Porter - Valley 115kV line #4	Dec-25	60	60	S	NM-NG
66	Q1178	NY115 – Newport Solar	E	Porter - Deerfield 115 kV Line # 9	Nov-26	130	130	S	NM-NG
67	Q1180	Union Energy Center, LLC	H	Union Valley - Croton Falls 115 kV line #991	Oct-26	116	116	ES	NYSEG
68	Q1182	NY128 - Foothills Solar	F	Mayfield-Northville 69kV	Nov-26	40	40	S	NM-NG
69	Q1183	NY125A - Fort Covington Solar	D	Moses-Willis 230kV (MW1)	Dec-26	250	250	S	NYPA
70	Q1184	NY125B - Two Rivers Solar	D	Moses - Willis 230 kV (MW2)	Dec-25	200	200	S	NYPA
71	Q1188	North Seneca Solar Project	C	Hooks Road - Elbridge 115kV	Dec-26	105	105	S	NM-NG
72	Q1194	Crane Brook Solar Project	C	State St - Clinton Corn 115kV Line	Dec-26	130	130	S	NM-NG
73	Q1199	El Steinway 1.1	J	Mott Haven - Rainey West 345kV, Mott Haven - Rainey East 345kV	Nov-27	200	200	OSW	ConEd
74	Q1236	Gravel Road Solar	C	Station 127 (Hook Rd) -Elbridge and Mortimer-Elbridge 115 kV lines	Oct-26	128	128	S	NM-NG

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

#	QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>Full CY23 Project (ERIS and CRIS)</b>									
75	Q1254	Barrett Hempstead Battery Storage	K	Barrett to Long Beach 33 kV circuit No 1(33-224)	Mar-25	40	40	ES	LIPA
76	Q1255	Holtsville Brookhaven Battery Storage	K	Line 69-849 from West Yaphank to North Bellport	Mar-26	79.9	79.9	ES	LIPA
77	Q1256	Canal Southampton Battery Storage	K	Canal Substation 138kV	Mar-25	100	100	ES	LIPA
78	Q1257	Edwards Calverton Battery Storage	K	Edwards Avenue Substation at 138 kV	Mar-25	60	60	ES	LIPA
79	Q1288	CPNY-X	E and J	Fraser 345 kV and Rainey 345 kV substations	Jun-27	1300	1300	DC	NYSEG and ConEd

# Class Year 2023 Members, cont.

## Projects in the Full Class Year Study (ERIS and CRIS)

- \*Q785 Erie-Wyoming County Solar Project is a co-located project that is requesting 175 MW CRIS of solar and 0 MW CRIS of BESS (a total of 175 MW CRIS request)
- \*Q800 Rich Road Solar Energy Center Project is a co-located project that is requesting 220 MW CRIS of solar and 20 MW CRIS of BESS (a total of 240 MW CRIS request)
- \*Q857 Columbia Solar Energy Center Project is a co-located project that is requesting 330 MW CRIS of solar and 20 MW CRIS of BESS (a total of 350 MW CRIS request)
- \*Q859 Ridge View Solar Energy Center Project is a co-located project that is requesting 330 MW CRIS of solar and 20 MW CRIS of BESS (a total of 350 MW CRIS request)
- \*Q1031 Mill Point Solar Project is a co-located project that is requesting 250 MW CRIS of solar and 0 MW CRIS of BESS (a total of 250 MW CRIS request)
- \*Q1088 Harvest Hills Solar Project is a co-located project that is requesting 200 MW CRIS of solar and 0 MW CRIS of BESS (a total of 200 MW CRIS request)
- \*Q1096 Allegany 2 Solar Project is a co-located project that is requesting 100 MW CRIS of solar and 0 MW CRIS of BESS (a total of 100 MW CRIS request)
- \*Q1136 Honey Ridge Solar Project is a co-located project that is requesting 65 MW CRIS of solar and 60 MW CRIS of BESS (a total of 125 MW CRIS request)
- \*\*Q912 Intrepid Storage 69 is not included in the deliverability analysis due to infeasibility identified in the project's Part 1 Study.
- \*\*Q918 Intrepid Storage 138 is not included in the deliverability analysis due to infeasibility identified in the project's Part 1 Study
- \*\*Q951 Cayuga Grid, LLC is not included in the deliverability analysis due to infeasibility identified in the project's Part 1 Study.

# Class Year 2023 Members, cont.

## CRIS-Only Projects (Deliverability Study Only)

QUEUE POS.	PROJECT	ZONE	Point of Interconnection	Proposed COD	Requested Summer ERIS MW	Requested Summer CRIS MW	UNIT TYPE	CTO
<b>CY23 Project CRIS Only</b>								
Q1061	Teele	E	Alcoa – North Ogdensburg 115 kV	Jul-24	N/A	19.8	S	NM-NG
Q1113	CLIES 20 MW	K	Sills Road 138 kV substation	Dec-25	N/A	20	ES	LIPA
PAM-2020-77593	West Babylon Energy Storage	K	West Babylon 13 kV	Aug-25	N/A	9.9	ES	LIPA

# Class Year 2023 Members, cont.

- Please see attached NYCA Map with CY23 approximate locations

# Summary of Class Year 2023 Projects

- **Connecting Transmission Owners (CTOs)**

CTO	ERIS/CRIS	CRIS Only	Total
NM-NG	24	1	25
NYSEG	16*	0	16*
ConEd	10*	0	10*
CHGE	4	0	4
LIPA	14	2	16
NYPA	10	0	10
O&R	1	0	1
RG&E	1	0	1
Total	79	3	82

\*Q1288 CPNY-X is included under NYSEG and ConEd, and counted once under Total.

# Process for Preliminary Deliverability Analysis and Additional SDU Studies

- NYISO identified SDUs not previously identified, and cost allocated in past CY and not substantially similar to SDUs previously identified and cost allocated in past CY, thereby triggering Additional SDU Studies, if requested
- NYISO presents Preliminary Class Year Deliverability Study results to IPFSWG/TPAS for review and OC for approval
  - Notice of SDUs Requiring Additional Study – will be sent to IPFSWG
  - Notice to CY23 Developers affected by identified SDU

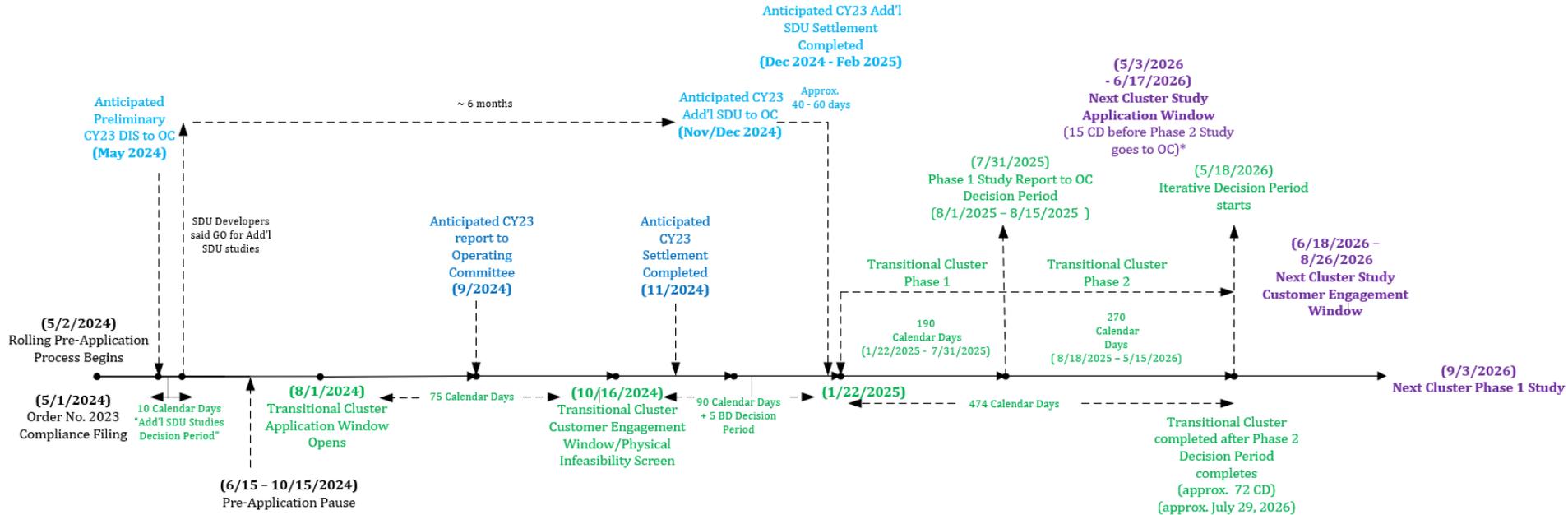
# Process for Preliminary Deliverability Analysis and Additional SDU Studies

- **Each Developer to which such notice is issued shall respond to the ISO within 10 Calendar Days to indicate whether it elects to**
  - Proceed or not proceed with an Additional SDU Study for the identified System Deliverability Upgrades to pursue System Deliverability Upgrade alternatives identified by the ISO.
- **If the Developer does not elect to pursue an Additional SDU Study for required System Deliverability Upgrades, it may only accept or reject its Deliverable MW, if any, in the Class Year Study.**

# Process for Preliminary Deliverability Analysis and Additional SDU Studies

- **If the ISO does not receive the Developer's election by the deadline, the Developer will be deemed to have**
  - (1) notified the ISO that it elects to not proceed with an Additional SDU Study for the identified System Deliverability Upgrades; and
  - (2) will only be permitted to accept or reject its Deliverable MW, if any, in the Class Year Study.

# Class Year 2023 Anticipated Schedule



# CY23 Preliminary Deliverability Analysis

## ■ Deliverability Tests

- Highway Interface Transfer Capability “No-Harm” Test
- Highway Interface “Regular” Capacity Deliverability Test
- Other Interface Transfer Capability “No-Harm” Test
- Byway “Regular” Capacity Deliverability Test
  - ROS
  - LHV
  - NYC
  - LI

# CY23 Preliminary Deliverability Analysis

- **Highway Interface “No-Harm” and “Regular” Capacity Test**
  - Dysinger East
  - West Central
  - Volney East
  - Total East
  - Moses South
  - UPNY-ConEd
- **The Highway Interface “No-Harm” and “Regular” Capacity Tests indicate that the CY23 CRIS Projects located in the ROS and LHV Capacity Regions passed Highway deliverability tests.**

# CY23 Preliminary Deliverability Analysis

## ■ Other Interface “No-Harm” Test

- UPNY-SENY
- LHV-J
- LHV-K
- PJM-NYISO
- IESO-NYISO
- NE-NYISO
- HQ-NYISO
- NNC

- ## ■ The Other Interface “No-Harm” Tests indicate that all CY23 CRIS Projects passed Other Interface deliverability tests.

# CY23 Preliminary Deliverability Analysis

- **ROS and LHV Byway “Regular” Capacity Test**
  - ROS
    - 50 Projects
    - 8597 MW total CRIS request
  - LHV
    - 7 Projects
    - 914 MW total CRIS requests
  - ROS and LHV Byway “Regular” Capacity Tests indicate that all CY23 projects located in the ROS and LHV Capacity Regions are deliverable.

# CY23 Preliminary Deliverability Analysis

## ■ ROS Byway “Regular” Capacity Test

- Firm National Grid local transmission plans mitigate deliverability issues caused by the following projects:
  - Q560 Deer River Wind
  - Q774 Tracy Solar Energy Centre
  - Q882 Riverside Solar
  - Q953 Sugar Maple Solar
  - Q1077 Rutland Center Solar
  - Q1103 Thousand Island Solar
  - Q1136 Honey Ridge Solar
  - Q1141 Twinleaf Solar
  - Q1150 Moss Ridge Solar Project
  - Q1061 Teele

# CY23 Preliminary Deliverability Analysis

- **NYC Byway “Regular” Capacity Test**
  - 9 Projects
  - 4837 MW total CRIS request
- **The NYC Byway “Regular” Capacity Tests indicate that the CY23 CRIS Projects located in the NYC Capacity Region are deliverable**
  - Gowanus Series Reactor 41 and 42 will need to be in service for Q700 Robinson Grid to be fully deliverable.

# CY23 Preliminary Deliverability Analysis

- **LI Byway “Regular” Capacity Test**
  - 14 Projects
  - 923 MW total CRIS request
- **N-0 thermal violation was identified in the ATRA-D case which cannot be mitigated through applicable adjustments**
  - In the ATBA-D (base line) case, there isn't any N-0 thermal violation identified
  - Byway SDU is required to eliminate the thermal violations identified in the ATRA-D case

# CY23 Preliminary Deliverability Analysis

## ■ LI Byway Test

- The LI Byway Tests indicate that the following CY23 CRIS Projects located in the LI Capacity Region are not deliverable (after applying the Byway SDU for N-0 base line issue in the ATRA-D):
  - Q825 Setauket Energy Storage
  - Q957 Holbrook Energy Storage
  - Q971 East Setauket Energy Storage
  - Q1012 Suffolk County Storage II
  - Q1117 CLIES 70MW
  - Q1159 Innisfree Storage
  - Q1254 Barrett Hempstead Battery Storage
  - Q1255 Holtsville Brookhaven Battery Storage
  - Q1256 Canal Southampton Battery Storage
  - Q1257 Edwards Calverton Battery Storage
  - Q1123 KCE NY 29

# CY23 Preliminary Deliverability Analysis

## ■ LI Byway Test Identified SDUs

1. Reconductoring Q825-Terryville 69 kV for N-0 thermal violations in ATRA-D Case
  - High-level non-binding cost estimate is \$8,765,680 ( $\pm 50\%$ )
  - This SDU is “new” and therefore requires Additional SDU studies if any of the projects elect to move forward
  - Physical feasibility will be confirmed in Additional SDU studies
2. Adding a PAR controlled 138 kV line between Pilgrim 138 kV station - West Bus 138 kV station (2 cables per phase)
  - High-level non-binding cost estimate is \$294,879,951 ( $\pm 50\%$ )
  - This SDU is “new” and therefore requires Additional SDU studies if any of the projects elect to move forward
  - Physical feasibility will be confirmed in Additional SDU studies
3. Reconductoring portion of Holbrook-Holtsville 69 kV lines (ckt 1&2)
  - High-level non-binding cost estimate is \$4,978,222 ( $\pm 50\%$ )
  - This SDU is “new” and therefore requires Additional SDU studies if any of the projects elect to move forward
  - Physical feasibility will be confirmed in Additional SDU studies

# CY23 Preliminary Deliverability Analysis

## ■ LI Byway Test Identified SDUs

4. Uprating West Yaphank-North Bellport 69 kV line
  - High-level non-binding cost estimate is \$14,126,452 ( $\pm 50\%$ )
  - This SDU is “new” and therefore requires Additional SDU studies if any of the projects elect to move forward
  - Physical feasibility will be confirmed in Additional SDU studies
5. Adding a 2 ohms series reactor to Ocean Ave or Barrett 34.5 kV with associated upgrades to accommodate the SR
  - High-level non-binding cost estimate is \$5,000,000 ( $\pm 50\%$ )
  - This SDU is “new” and therefore requires Additional SDU studies if any of the projects elect to move forward
  - Physical feasibility will be confirmed in Additional SDU studies

# CY23 Preliminary Deliverability Analysis

- LI Byway Test Identified SDUs
  - LI Byway SDU Cost Allocation

Project	CRIS MW	SDU (1)		SDU (2&3)		SDU (4)		SDU (5)	
		Impact	% Allocation	Impact	% Allocation	Impact	% Allocation	Impact	% Allocation
Q825	65.3	37.0	<b>62.83%</b>	24.8	<b>7.18%</b>	N/A	N/A	N/A	N/A
Q957	76.8	N/A	N/A	27.7	<b>8.01%</b>	N/A	N/A	N/A	N/A
Q971	125	N/A	N/A	53.7	<b>15.53%</b>	N/A	N/A	N/A	N/A
Q1012	76.8	N/A	N/A	32.4	<b>9.39%</b>	N/A	N/A	N/A	N/A
Q1117	70	N/A	N/A	30.2	<b>8.74%</b>	N/A	N/A	N/A	N/A
Q1123	150	N/A	N/A	58.4	<b>16.89%</b>	N/A	N/A	N/A	N/A
Q1159	50	21.9	<b>37.17%</b>	19.4	<b>5.63%</b>	N/A	N/A	N/A	N/A
Q1254	40	N/A	N/A	N/A	N/A	N/A	N/A	11.8	<b>100.0%</b>
Q1255	79.9	N/A	N/A	31.0	<b>8.97%</b>	73.3	<b>100.0%</b>	N/A	N/A
Q1256	100	N/A	N/A	42.4	<b>12.28%</b>	N/A	N/A	N/A	N/A
Q1257	60	N/A	N/A	25.6	<b>7.39%</b>	N/A	N/A	N/A	N/A

100%

100%

100%

100%

(1) Q825 – Terryville Rebuild to 149/177/193 MV

(2) A PAR (392/520/600) MVA plus UG circuit (2 cables per phase) between Pilgrim - West Bus 138 kV

(3) Reconductoring portion of Holbrook – Holtsville ckt 1 & 2 lines uprating to 183 MVA STE

(4) West Yaphank – North Bellport 69 kV Rebuild (41/51/53) to (73/73/73) MVA

(5) Adding a 2 ohms series reactor to Ocean Ave or Barrett 34.5 kV with associated upgrades to accommodate the SR

# Our mission, in collaboration with our stakeholders, is to serve the public interest and provide benefit to consumers by:

- Maintaining and enhancing regional reliability
- Operating open, fair and competitive wholesale electricity markets
- Planning the power system for the future
- Providing factual information to policymakers, stakeholders and investors in the power system



# Questions?