nationalgrid

Request for Proposal (RFP)

Non-Wires Alternatives Solutions
Project Development Services

New York Non-Wires Alternatives
Seven NWA Locations

RFP Issue Date: August 6th, 2026
Proposal Submission Deadline: November 3rd, 2026, 5pm EST

Contents

1. GENERAL INFORMATION

1.1 INTRODUCTION

Niagara Mohawk Power Corporation d/b/a National Grid (National Grid or the Company) is an electric and gas investor-owned utility committed to providing safe, reliable, and affordable energy to all customers throughout its service territory in Upstate New York. As a part of providing this service, National Grid is pursuing the potential implementation of Non-Wires Alternatives (NWA) solutions in its service territory. Find out more about National Grid and its affiliate companies at https://www.nationalgrid.com/about-us

Such implementation aligns with principles set forth in the following:

- National Grid's *Responsible Business Charter*,[1] with a commitment to reduce greenhouse gas (GHG) emissions by 2050
- New York: Climate Leadership and Community Protection Act (CLCPA)[2]
- New York's Grid of the Future Proceeding[3]

This request for proposal (RFP) is open to all NWA approaches that have the potential to provide NWA solutions in the areas identified in the problem descriptions. National Grid has several long-term goals in consideration (in alignment with state, federal, and Company ambitions) that impact the viability of any given proposal.

National Grid is pursuing the potential implementation of NWA solutions in its electric service territory for the seven (7) areas listed in Section 3. National Grid is looking to procure NWA solutions (standalone or as an aggregation) that will address the constraints.

The Company currently has classified NWA solutions into two distinct categories: NWA Real Time Service and NWA Scheduled Service. Please see Section 3.4 Eligible Flexibility Solutions for definitions and details on the two services and a summary of both below.

NWA Real Time Service refers to distributed energy resources (DERs) (front-of-the-meter (FTM) and/or behind-the-meter (BTM) with exporting capability or non-exporting, and that can be aggregated) that can receive real-time dispatch signals via National Grid's Supervisory Control and Data Acquisition (SCADA) system using Distributed Network Protocol 3 (DNP3) through a utility-owned DER gateway located at each DER site unless National Grid specifies prior to execution of a contract that the selected bidder(s) must use an alternative industry standard communication protocol such as IEEE Standard for Smart Energy Profile Application Protocol (IEEE 2030.5). These assets must respond to real-time internal signals during live NWA events, enabling real-time load following.

NWA Scheduled Service refers to DERs (FTM and/or BTM with exporting capability or non-exporting, and that can be aggregated) that can respond to pre-scheduled, event-based dispatches. Unlike Real Time Service, Scheduled Service does not require real-time dispatch communication with the utility and operates more like traditional demand response, with dispatch levels set ahead of time. Scheduled dispatch information is expected to be communicated by National Grid

[1] National Grid's Responsible Business Charter 2023, *available at* www.nationalgrid.com/document/150371/download
[2] Chapter 106 of the Laws of New York, 2019. The CLCPA is *available at* https://legislation.nysentate.gov/pdf/bills/2019/S6599
[3] Case 24-E-0165, *Proceeding on Motion of the Commission Regarding the Grid of the Future*, Order Instituting Proceeding (issued April 18, 2024).

to the NWA solution either through email or through an industry standard communication protocol such as Open Automated Demand Response (OpenADR) or IEEE 2030.5 and will be confirmed with the selected bidder(s) prior to the execution of a contract.

This strategic categorization ensures that the Company can encourage, to the extent possible, a broad range of possible NWA solutions, and effectively manage and dispatch a portfolio of NWA solutions that align with National Grid's commitment to reliability, efficiency, and the integration of sustainable energy resources.

To learn more about National Grid's approach to NWAs, please visit: https://www.nationalgridus.com/Business-Partners/Non-Wires-Alternatives.

1.2 RFP SCHEDULE

The RFP schedule presented below is subject to change.

Tentative Date	Milestone
August 6, 2026	RFP opportunity opens on Piclo Flex platform
September 2, 2026 at 2:00 PM ET	Pre-bid teleconference Registration: https://www.eventbrite.com/e/national-grid-ny-non-wires-alternatives-rfp-webinar-tickets-1995790389781
October 5, 2026, 5 PM ET	Deadline to submit Supplier Clarification Questions. All questions should be sent to Non-WiresAlternativeSolutions@nationalgrid.com
November 3, 2026, 5 PM ET	RFP closes; bidders must have all proposal information, including bids, submitted to Piclo Flex platform
February 5th 2027	End of bid evaluation; all bidders notified of their status

2. OFFER SUBMITTAL PROCESS

2.1 PROPOSAL SUBMISSION INSTRUCTIONS

Proposals that do not provide the requested information may be disqualified by National Grid.

Proposals must be submitted via the Piclo portal: https://usa.picloflex.com/dashboard. For assistance using the Piclo platform, please contact support@picloflex.com. In the event a bidder is unable to complete the bid process using the Piclo platform, please reach out to **both** support@picloflex.com and Non-WiresAlternativeSolutions@nationalgrid.com

It is the bidder's responsibility to thoroughly review all provisions of the respective supporting documents, appendices, and requirements of this RFP process as applicable. It is also the bidder's responsibility to understand all anticipated costs that should be factored into the bid price.

Any questions on or technical issues with submitting a proposal before the deadline should be promptly directed to Non-WiresAlternativeSolutions@nationalgrid.com.

2.2 EXECUTION OF AGREEMENT

By submitting a proposal, bidder agrees, if their proposal is selected by National Grid, that they are prepared to execute a definitive contract consistent with the bid price and contract terms; please see the NY Flexibility Services Standard Agreement.[4] It is the bidder's responsibility to be aware of all eligibility requirements and terms and conditions before execution of a contract.

Note, each selected solution will have its own executed contract.

2.3 OFFER SUBMISSION FORMAT

It is the bidder's responsibility to thoroughly review all provisions of the respective supporting documents, appendices, and requirements of this RFP process as applicable. It is also the bidder's responsibility to understand all anticipated costs that should be factored into the bid price. Bidders can utilize the checklist referenced in Appendix D.

Partial solutions that provide a reasonable portion of the solution requirements will be considered where National Grid can identify other partners to create a full solution. The NWA solution(s) will be required to operate as needed to support the electric system requirements. National Grid will consider resources that may include one or more, or a combination of the following technologies in this RFP:

- New Build Distributed Generation (DG)[5]
- Energy Storage
- Existing or new DG paired with energy storage
- Demand Response
- Other resources that can meet the identified reliability needs.

Direct participants, such as commercial and industrial customers of the Company, DER owners, DER operators, developers, and aggregators may submit proposals. Depending on the nature of the NWA solution proposed, potential infrastructure upgrades may be required to accommodate and connect new DER facilities as it is necessary for the solution to be located downstream of the substation transformer to address the identified reliability need.

National Grid will provide a preliminary estimate of interconnection costs based on the proposed Point of Interconnection (POI), see Section 3.5.1 Interconnection for more details, but the final scope and cost of utility infrastructure upgrades will only be known upon completion of the relevant interconnection study (i.e., Coordinated Electric System Interconnection Review (CESIR)) by the Company. These upgrades, if required, will be the responsibility of the bidder. During the bid evaluation process or upon proposal selection, National Grid may refine the interconnection cost estimates based on updated POI information or additional system data. Bidders are encouraged to provide as much detail as possible regarding their proposed POI to support this process.

2.4 OFFER EVALUATION CRITERIA

National Grid will evaluate and prioritize bids (bidders' proposed solutions or proposals) based on eligibility per the criteria set forth in this RFP. The number of projects and quantity of MWs which the Company will procure is a function of the proposal price, benefit-cost analysis (BCA) adherence, project feasibility and complexity, bidder's experience, schedule, size of portfolio submitted, terms adherence, qualifications and the Company's final discretion.

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[4] NY Flexibility Services Standard Agreement, *available at* https://www.nationalgridus.com/Business-Partners/Non-Wires-Alternatives/Additional-Information

[5] All proposed DG must abide by the operational and metering requirements (see Appendices B and C hereto) and ensure that the proposed NWA solution can still meet either the NWA Real Time Service or NWA Scheduled Service requirements.

Bidders must provide the contract price through the Piclo platform directly and in the Appendix C - Offer Form. Final pricing will be memorialized within the service agreement executed by and between the Company and the winning bidder(s).

The Company reserves the right to close or extend this solicitation at any time and/or add to the solicitation. If changes are made, notification will be posted on the Company's NWA website and the Piclo Flex platform. This RFP does not commit the Company to award a contract, to pay any costs incurred in the preparation of the proposal, nor to procure or contract for any services and or supplies. The Company reserves the right to accept or reject any or all proposals received, or to cancel this procurement in part or in its entirety, if in doing so is in the best interests of National Grid.

2.5 VALUE STACKING

"Value stacking," as used in this RFP, refers to DERs earning revenue simultaneously from multiple eligible programs (e.g., NWA, Value of Distributed Energy Resources (VDER), New York Independent System Operator (NYISO) markets, Dynamic Load Management (DLM), etc.), provided such participation is compliant with all applicable program rules and does not create duplicative compensation conflicts. Value stacking is allowed as long as the solution is able to meet contractual requirements and not conflict with compensation rules and requirements.

For an overview of what utility and NYISO programs that DER or DER aggregations can participate in simultaneously, please refer to the JU Duplicative Compensation Matrix for DER Aggregations.[6]

For an overview of what National Grid programs can be participated in simultaneously, please refer to the National Grid Programs Value Stacking Matrix below:

National Grid Programs Value Stacking Matrix

Programs	NWA	Term-DLM	Auto-DLM	DLRP	VDER Value Stack	NYISO	CSRP
NWA	--	✅	❌	❌	Yes, except LSRV	SCR, DER-PM, EDRP	✅
Term-DLM	✅	--	❌	✅	Yes, except DRV & LSRV	SCR, DER-PM, EDRP	❌
Auto-DLM	❌	❌	--	❌	Yes, except DRV & LSRV	SCR, DER-PM, EDRP	❌
DLRP	❌	✅	❌	--	Yes, except DRV & LSRV	SCR, DER-PM, EDRP	✅

For market related definitions and acronyms please see Appendix G.

3. PROJECT INFORMATION

In the sections below, the Company has provided information on the background of the distribution/sub-transmission need in the NWA locations, the solution requirements to meet the needs, and any location-specific information.

[6] See *Joint Utilities of New York (JU) Duplicative Compensation Matrix for DER Aggregations*, available at https://jointutilitiesofny.org/node/8863

3.1 Overview of Identified NWA Opportunities

National Grid has identified seven potential NWA opportunities across its electric service territory. All of these opportunities are anticipated to have NWA solutions needs as early as 2027. While 2027 represents the initial need year for these locations, National Grid recognizes that development timelines may limit some respondents' ability to meet the earliest start date. Respondents are therefore encouraged to propose solutions that target later years, consistent with the forecasted needs identified in the RFP tables, as system capacity needs persist beyond 2027. The substation locations below are the seven potential opportunities:

1. West Adams
2. Alder Creek
3. Gasport
4. Lyndonville
5. Pleasant
6. East Pulaski
7. LeRay

These opportunities have been identified based on forecasted distribution system constraints and asset condition considerations, where load relief provided by potential NWA solutions may help mitigate system risk prior to the completion of planned capital upgrades. Several of the identified substations or nearby stations are scheduled for upgrades due to required load relief and current asset condition ratings. Based on historical, current, and forecasted loading scenarios, targeted load relief can reduce periods of load at risk during the interim period. At the start of the need terms identified in the tables below, Summer and/or Winter Normal ratings are expected to be reached or exceeded; additional load relief would ease planning and operational concerns until permanent capital upgrades are constructed.

The seven identified NWA opportunities' details are shown below.

NWA Opportunity Area Details

Substation	Operating District	Zip Code	Municipalities
West Adams	Watertown-13	13605	Adams
Alder Creek	Utica-17	13301	Forestport
Gasport	Albion-06	14067	Gasport
Lyndonville	Albion-06	14098 14103	Lyndonville Medina Ashwood
Pleasant	Utica-17	13501	Utica
East Pulaski	Pulaski-16	13144 13114 13131 14411 13145	Richland Mexico Parish Albion Sandy Creek
LeRay	Watertown-13	13612	Black River

3.2 Requirements for all NWA Opportunities and Areas

The following sections describe the planned and detailed system need requirements that must be addressed by a portfolio of NWA solutions from bidder(s) selected, assembled and managed by National Grid. Bidders should utilize the Piclo Flex platform and visit the National Grid New York System Data Portal cited below to search for the substation and feeders under the Distribution Assets Overview tab. Bidders may access the National Grid System Data Portal for additional information that is available online, including but not limited to hosting capacity[7] and DG applications in the Company's interconnection queue, via the following link: https://www.nationalgridus.com/Business-Partners/NY-System-Portal

The following sections describe planned use cases and NWA solution requirements for each location. Immediately below are several solution requirements that are common to all NWA locations:

NWA Solution Requirements		Description
Days of Week Needed	Weekdays and Weekends	Type of day when the NWA solution could be called on.
Minimum MW Bid	100 kW	NWA solution providers must submit at least 100 kW of load relief (i.e., a single bidder, including an aggregator).
Call Response Time	24 hours load notice	Lead time between a request for load relief by the Company and when the NWA solution is expected to provide the load relief.
Guaranteed Performance	95% availability	Guaranteed performance is defined by the amount of load reduction the NWA solution provides during a dispatch window as a percentage of the amount called upon by the Company. This is expected of each individual bid solution as well as the NWA portfolio as a whole. See the Standard Flexibility Contract for more details.

3.3 Overview of Need Details for all NWA Opportunities

This section provides need requirement details for potential NWA solutions at specific locations. Only four NWA opportunities have both summer and winter needs: West Adams, Alder Creek, East Pulaski, and LeRay; while Gasport, Lyndonville, and Pleasant have only summer needs. Winter need spans the time period of November-April while summer need spans the time period of May-October, as summarized below:

Location	Summer Need	Winter Need
West Adams	2028-2033	2032-2033
Alder Creek	2028- 2029	2029
Gasport	2028– 2035	N/A
Lyndonville	2027-2038	N/A
Pleasant	2027– 2030	N/A
East Pulaski	2027– 2031	2030– 2031
LeRay	2028– 2033	2032– 2033

[7] *See* Hosting Capacity Training Session, *available at* https://jointutilitiesofny.org/utility-specific-pages/hosting-capacity

- **Commercial Operation Term (COT):** Time Period of the Projected Need. The Company is looking for at least a one-year NWA solution so bidders, at a minimum, must provide at least a one-year bid; singular year bids will be accepted as well as multi-year bids.
- **Contract Term**: The Company would be looking for at least a one-year NWA solution for all NWA opportunities so potential NWA solution providers, at a minimum, must provide at least a one-year solution; singular yearly solutions will be accepted as well as multi-year (shortest contract term to be awarded would be one year). The maximum term would be the contract term detailed [detailed where? Is the end of this sentence missing?]
- **Feeders**: Eligible customer sites and proposed NWA resources must be located on and electrically connected to one of the identified feeders listed.
- **MW Need**: The maximum amount of load relief that is required to meet the need at peak loading during the COT, but should not limit the project size (i.e., proposed NWA solutions with aggregate nameplate over or under 'Maximum MW Need' will be considered). The Company will consider partial NWA solutions as well as portfolio solutions. Bidders are encouraged to offer partial or full solutions, or a combination of both. The maximum amount of load relief that is required to meet the need at peak loading should not limit the project size (i.e., projects with aggregate nameplate over or under 'Maximum MW Need' will be considered). Potential NWA solution providers are encouraged to offer partial solutions if a full solution is not feasible. Bidders should take note that several of these potential NWA opportunities scale up in need as the years progress. This RFP provides both the peak MW and the yearly breakdown.
- **MWh**: Maximum MWh Need per Day. Largest continuous 24-hour MWh need of NWA solution. Guaranteed nominal power and capacity ratings must be met for the duration of the contract period. The MW requirement represents the instantaneous load relief required at peak conditions. The MWh value represents an estimated energy requirement based on expected utilization profiles and may not directly correspond to the product of MW and maximum duration.
- **Number of Calls a Year**: Calls per year based on annual overload projections. The NWA solution will need to be available for at least the number of times called per year as stated.
- **Service Window**: This time range represents the earliest and latest possible times of need by the Company (based on projections, not continuous hours).
- **Duration per Event**: The number of consecutive days that the NWA solution may be called upon by the Company (based on projections). Proposals that do not meet the full event duration requirement may still be considered, as National Grid may aggregate multiple NWA solutions to satisfy the identified need. A minimum run time of two hours is required.
- **Maximum Consecutive Days Called**: The number of consecutive days that the NWA solution may be called upon by the Company (based on projections).
- **Total Approximate Value for All Seasons**: The estimated net present value of the benefits (Approximate Value) of an NWA solution implementation for each NWA opportunity is this value for the total need. This value covers the full need shown for the COD. See Section 3.6.1 Project Economics for more details.

    The Total Approximate Value shown above is dependent on both the proposed in-service date and the duration of service provided by the NWA solution. The values presented in the table represent the estimated benefit associated with a project entering service in the specified year and remaining available through the end of the identified need period. Because the BCA is driven primarily by the timing and duration of load relief provided, projects with later in-service dates will generally provide fewer system benefits and therefore result in a lower benefit value in the BCA. Respondents should

carefully consider their realistic proposed commercial operation date and contract term when preparing bids, as National Grid will evaluate proposals based on the actual years during which the NWA solution is expected to provide load relief.

Customer-specific details for each feeder, including the amount of DG currently interconnected or in the Company's interconnection queue on the associated feeders and substations, are available on the National Grid New York System Data Portal.

For the following subsections, an overview and description of each column is first given below with every subsection corresponding to a single location.

3.3.1 Location 1: West Adams

Table 1a: West Adams Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
West Adams Substation 875	36_13_87551	1888	245
	36_13_87552	2050	252
	36_13_87553	1401	207
	36_13_87554 & 36_13_87555	2300	297

Table 1b: West Adams Summer & Winter Need Overview

Criteria	Summer Value	Winter Value
COT	May 2028 to October 2033	October 2032 to December 2033
Contract Term	1 year minimum, 6 year need	1 year minimum, 2 year need
Max MW Need	10.7 MW of load relief	0.5 MW of load relief
Maximum MWh Need per Day	20.9 MWh	0.5 MWh
Duration per Call	6 hours	1 hour
Service Window	19:00 – 2:00	23:00 – 24:00
Number of Times Called per Year	Up to 41	Up to 1
Maximum Consecutive Days Called	13 days	0 days

Table 1c: West Adams Need Breakdown Details

While the maximum identified load relief need for the West Adams NWA opportunity is 10.7 MW, National Grid may consider proposals that provide less than the full identified capacity. Proposals offering reduced capacity (e.g., approximately 10 MW) may be considered where they demonstrate clear economic benefits, enhanced feasibility, or improved compatibility with market participation (including retail programs such as VDER). All such proposals must clearly identify the proposed capacity and associated assumptions.

	Summer		Winter	
Year	MW	MWh	MW	MWh
2028	4.89	10.80	-	-
2029	5.79	11.71	-	-
2030	9.30	15.91	-	-
2031	9.78	17.38	-	-
2032	10.27	18.87	0.15	0.15
2033	10.77	20.87	0.48	0.48

Table 1d: West Adams Economic Details

Seasons	Total Approximate Value
2028 - 2033	$ 8,056,000

3.3.2 Location 2: Alder Creek

Table 2a: Alder Creek Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers	
Alder Creek Substation 701	36_17_70161	876	35	
	3536_17_70152	1120	32	

Table 2b: Alder Creek Summer & Winter Need Overview Details

Criteria	Summer Value	Winter Value
COT	May 2027 to October 2029	October 2029 to December 2029
Contract Term	1 year minimum, 2 year need	1 year minimum, 1 year need
Max MW Need	2.02 MW of load relief	2.02 MW of load relief
Maximum MWh Need per Day	6.05 MWh	6.05 MWh
Duration per Call	7 hours	7 hours
Service Window	9:00 – 1:00	17:00 – 1:00
Number of Times Called per Year	Up to 41	Up to 3
Maximum Consecutive Days Called	8 days	5 days

Table 2c : Alder Creek Need Breakdown Details

	Summer		Winter	
Year	MW	MWh	MW	MWh
2028	0.43	0.67	-	-
2029	2.02	6.06	2.02	6.06

Table 2d: Alder Creek Economic Details

Seasons	Total Approximate Value
2028 - 2029	$ 346,700

3.3.3 Location 3: Gasport

Table 3a: Gasport Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
Gasport Substation 90	36_06_9063	858	37
	36_06_9061	705	37

Table 3b: Gasport Summer Need Overview Details

Criteria	Summer Value
COT	May 2027 to October 2035
Contract Term	1 year minimum, 8 year need
Max MW Need	1.45 MW of load relief
Maximum MWh Need per Day	8.74 MWh
Duration per Call	12 hours
Service Window	11:00 – 00:00
Number of Times Called per Year	Up to 47
Maximum Consecutive Days Called	8 days

Table 3c : Gasport Need Breakdown Details

	Summer	
Year	MW	MWh
2028	0.46	0.86
2029	0.52	1.17
2030	0.61	1.81
2031	0.71	2.70
2032	0.83	4.24
2033	1.30	7.33
2034	1.38	8.03
2035	1.45	8.74

Table 3d: Gasport Economic Details

Seasons	Total Approximate Value
2028 - 2035	$ 3,303,400

3.3.4 Location 4: Lyndonville

Table 4a: Lyndonville Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
Lyndonville Substation 95	36_06_9561	780	25
	36_06_9562	214	10
	36_06_9563	608	29

Table 4b: Lyndonville Summer Need Overview Details

Criteria	Summer Value
COT	May 2027 to October 2038
Contract Term	1 year minimum, 12 year need
Max MW Need	1.02 MW of load relief
Maximum MWh Need per Day	6.27 MWh
Duration per Call	8 hours
Service Window	10:00 – 21:00
Number of Times Called per Year	Up to 35
Maximum Consecutive Days Called	7 days

Table 4c : Lyndonville Need Breakdown Details

	Summer	
Year	MW	MWh
2027	0.61	3.90
2028	0	0
2029	0	0
2030	0.06	0.06
2031	0.23	0.37
2032	0.38	0.89
2033	0.54	1.71
2034	0.78	3.17
2035	0.81	4.18
2036	0.88	4.87
2037	0.95	5.57
2038	1.02	6.27

Table 4d: Lyndonville Economic Details

Seasons	Total Approximate Value
2027 - 2038	$ 494,100
2028 - 2038	$ 404,900

3.3.5 Location 5: Pleasant

Table 5a: Pleasant Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
Pleasant Substation 664	36_17_66468	589	49
	36_17_66471	367	5
	36_17_66472	1583	35
	36_17_66473	662	16
	36_17_66474	145	34
	36_17_66475	962	42

Table 5b: Pleasant Summer Need Overview Details

Criteria	Summer Value
COT	May 2027 to October 2030
Contract Term	1 year minimum, 4 year need
Max MW Need	0.87 MW of load relief
Maximum MWh Need per Day	6.12 MWh
Duration per Call	9 hours
Service Window	15:00 – 23:00
Number of Times Called per Year	Up to 11
Maximum Consecutive Days Called	3 days

Table 5c : Pleasant Need Breakdown Details

	Summer	
Year	MW	MWh
2027	0.58	3.50
2028	0.65	3.88
2029	0.71	4.53
2030	0.87	6.12

Table 5d: Pleasant Economic Details

Seasons	Total Approximate Value
2027 - 2030	$ 2,390,400
2028-2030	$ 1,948,800

3.3.6 Location 6: East Pulaski

Table 6a: East Pulaski Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
East Pulaski Substation 324	36_16_32451	1942	101
	36_16_32452	1287	74

Table 6b: East Pulaski Summer & Winter Need Overview Details

Criteria	Summer Value	Winter Value
COT	May 2027 to October 2031	October 2030 to March 2032
Contract Term	1 year minimum, 5 year need	1 year minimum, 3 year need
Max MW Need	0.90 MW of load relief	0.59 MW of load relief
Maximum MWh Need per Day	1.2 MWh	0.76 MWh
Duration per Call	4 hours	4 hours
Service Window	12:00 – 20:00	17:00 – 20:00
Number of Times Called per Year	Up to 5	Up to 1
Maximum Consecutive Days Called	2 days	0 days

Table 6c: East Pulaski Need Breakdown Details

	Summer		Winter	
Year	MW	MWh	MW	MWh
2027	0.28	0.28	-	-
2028	0.40	0.40	-	-
2029	0.37	0.37	-	-
2030	0.43	0.55	0.06	0.06
2031	0.91	1.24	0.59	0.76

Table 6d: East Pulaski Economic Details

Seasons	Total Approximate Value
2027 - 2031	$968,300
2028-2031	$869,100

3.3.7 Location 7: LeRay

Table 7a: LeRay Customer Demographics

Substation	Feeders	Residential Customers	C&I Customers
LeRay Substation 813	36_13_81361	630	18

Table 7b: LeRay Summer & Winter Need Overview Details

Criteria	Summer Value	Winter Value
COT	May 2027 to October 2033	October 2032 to March 2034
Contract Term	1 year minimum, 6 year need	1 year minimum, 2 year need
Max MW Need	0.41 MW of load relief	0.12 MW of load relief
Maximum MWh Need per Day	1.93 MWh	0.25 MWh
Duration per Call	8 hours	4 hours
Service Window	14:00 – 22:00	17:00 – 21:00
Number of Times Called per Year	Up to 21	Up to 8
Maximum Consecutive Days Called	5 days	3 days

Table 7c: LeRay Need Breakdown Details

	Summer		Winter	
Year	MW	MWh	MW	MWh
2028	0.08	0.18	-	-
2029	0.06	0.07	-	-
2030	0.13	0.29	-	-
2031	0.23	0.87	-	-
2032	0.32	1.33	0.02	0.12
2033	0.41	1.93	0.12	0.25

Table 7d: LeRay Economic Details

Seasons	Total Approximate Value
2028 - 2033	$1,431,800

3.4 ELIGIBLE FLEXIBILITY SOLUTIONS

The procurement of grid services from new and/or existing DERs as an NWA solution could reduce the overall demand at critical periods at the substations detailed in the sections above.

The Company is looking to procure grid services from NWA solutions (standalone or as an aggregation) that represent one of the following flexibility services: NWA Real Time Service or NWA Scheduled Service.

- **NWA Real Time Service** refers to DERs (FTM and/or BTM with exporting capability or non-exporting, and that can be aggregated) that can receive real-time dispatch signals via National Grid's SCADA system using DNP3 through a utility-owned DER gateway located at each DER site. These assets must respond to real-time internal signals during live NWA events, enabling real-time load following. **DERs co-located with load (i.e., BTM) are ineligible to provide this service.**

- **NWA Scheduled Service** refers to DERs (FTM and/or BTM with exporting capability or non-exporting that can be aggregated) that can respond to pre-scheduled, event-based dispatches. Unlike Real Time Service, NWA Scheduled Service does not require real-time dispatch communication with the utility and operates more like traditional demand response, with dispatch levels set ahead of time. **The Minimum Run Time for any proposed NWA Scheduled Service bid shall be 2 hours or 4 hours.**

All proposed solutions must meet the requirements in the appropriate appendix (Appendix E (Real Time) or Appendix F (Scheduled)) that relate to each individual solution bid. Depending on the proposals received, the Company may elect to accept multiple proposals that, when combined, provide a portfolio of NWA solutions. The Company may also elect to procure less than the full capacity offered in a proposal (e.g., a portion of the proposed MWs) if doing so better satisfies the identified need. Depending on what solution is proposed, National Grid will take into account the actual availability of the resource to meet the need of all hours.

Load curtailing resources (including co-located resources) may only participate in **NWA Real Time Dispatch Service** under limited conditions. Such resources must be capable of receiving and responding to real-time dispatch signals that specify the required level of load reduction (MW) during NWA events. The Company may not have real-time operational visibility into the magnitude of load reduction provided by these resources during a dispatch event. Accordingly, these resources will be evaluated and accredited differently than NWA Real Time Dispatch Service resources that provide real-time performance telemetry. These resources may be considered more valuable than NWA Scheduled Service resources due to their real-time dispatchability, but less valuable than Real Time resources with full real-time telemetry and performance visibility.

3.5 OTHER LOCATIONAL INFORMATION

3.5.1 INTERCONNECTION

As part of this RFP, National Grid is providing a preliminary estimate of new interconnection costs of $500,000 per interconnected NWA solution (where applicable) and will be further refined based on the feeder location of the POI. This estimate is intended to support bidders' ability to understand and include all costs into their proposals and facilitate the Company's evaluation of proposals. This estimate is non-binding and subject to refinement during evaluation or upon selection. National Grid may provide additional context or guidance regarding upstream versus downstream interconnection impacts during the evaluation phase. Final costs will be determined through the formal interconnection process, including CESIR, if applicable. Some BTM resources will not require a CESIR. For storage project proposals, charging will be prohibited during certain times with final charging schedule details to be determined during the CESIR, see details in Section 3.3 Overview of Need Details for all NWA Opportunities.

Unless otherwise approved by National Grid, all FTM storage shall be permitted to charge directly from the grid only during the hours of 10:00 PM to 8:00 AM local time.

Site-Specific Exceptions:

East Pulaski: In addition to the standard charging window above, grid charging of storage is prohibited between 2:00 PM and 12:00 AM.

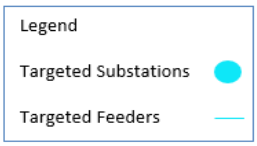
All interconnection costs, including any required infrastructure upgrades, will be the responsibility of the bidder. National Grid will refine these interconnection cost estimates based on updated POI information, additional system data, or further engineering review. The described interconnection cost estimates apply to facilities requiring a new interconnection service and will be subject to the applicable utility interconnection process in effect at the time of

application, including the New York State Standardized Interconnection Requirements and Application Process (NY-SIR) or any other applicable interconnection procedures based on project size, configuration, and point of interconnection.

3.5.2 MAP AND LOCATIONAL INFORMATION

Any NWA solution location downstream of the target station feeder getaways (*i.e.*, where the feeder leaves the substation) has the potential to solve the loading issue, pending a full interconnection study. See below feeder map and visit the National Grid New York System Data Portal to search for the substation(s) and feeders under the Distribution Assets Overview tab.

Individual feeders can be traced on the New York System Data Portal. See Appendix C hereto for more details. Each individual map below shows the targeted substation and feeder for each of the seven NWA potential opportunities that are the subject of this RFP. Map legend is as follows:



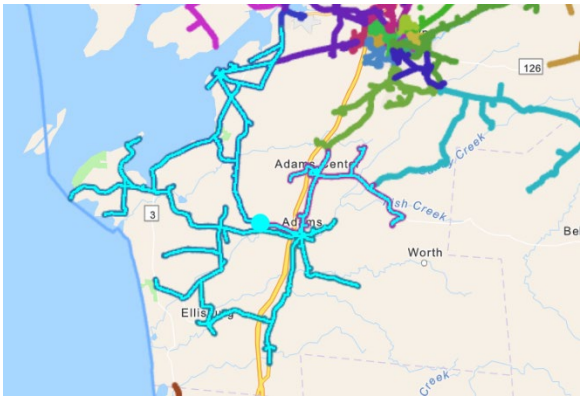


Figure 1: West Adams Feeder Mapping

Figure 2: Alder Creek Feeder Mapping

Figure 3: Gasport Feeder Mapping

Figure 4: Lyndonville Feeder Mapping

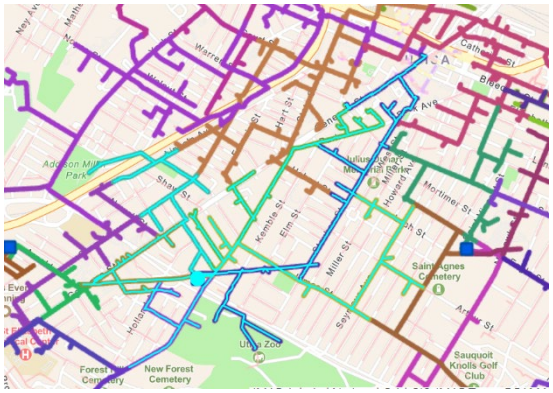


Figure 5: Pleasant Feeder Mapping

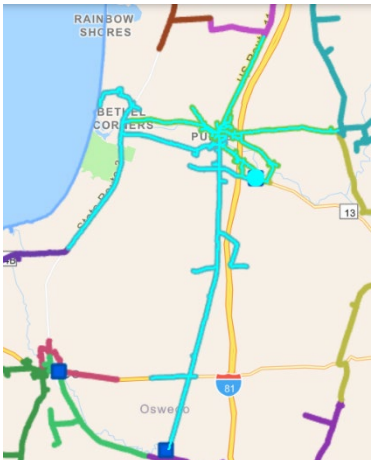


Figure 6: East Pulaski Feeder Mapping

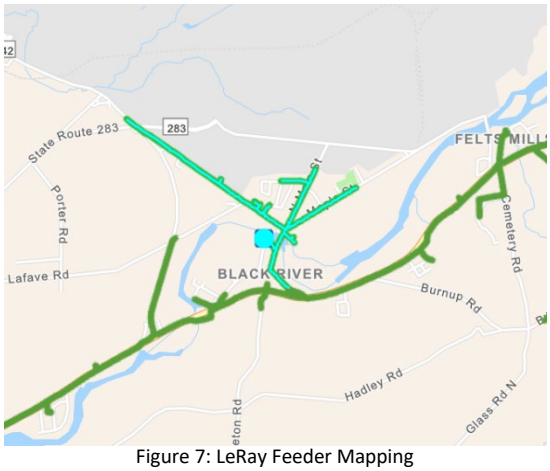


Figure 7: LeRay Feeder Mapping

Note: In the above maps, both rectangular dark blue substations depicting neighboring substations and feeders depicted in colors different from the targeted feeders are not relevant to this RFP.

3.5.3 DEVELOPMENT SITE - COMPANY-OWNED PROPERTY

The Company does not own viable, available, and usable land in the respective areas. The bidder is responsible for acquiring, leasing, or otherwise obtaining any/all land needed to develop new project(s).

3.5.4 PRIVATE PROPERTY

Bidders may utilize alternative locations other than Company-owned property in their Proposals. However, to be considered viable, bidders must demonstrate site control or a plan to gain site control in their Proposal.

3.6 PAYMENT STRUCTURES

National Grid provides flexibility in the payment structures such that bidders have the option to propose:

- **a fixed yearly contract cost (i.e., an annual Availability Payment), regardless of the number of dispatches where bidders may propose a fixed contract price for fixed load relief for a certain time period or;**
- **a cost per kW with an Availability Payment + Dispatch (utilization) Payment**

The Company reserves the right to call on the proposed NWA solution less frequent than the maximum noted (as shown in Section 3.3 Overview of Need Details for all NWA Opportunities above) and the number of calls may vary based on real-time conditions.

Bidders have an option of two payment structures for either NWA Real Time Service or NWA Scheduled Service:

1) A set yearly contract cost, with an annual payment to bidder by the Company, that could vary year by year and is not dependent on the number of dispatches.
2) An annual Availability Payment paired with a Dispatch Payment based on the actual number of dispatches. Example: A bidder may propose a per kW payment based on the dispatches a year paired with an annual payment (based on the bid size). The contract value per year for a combination of Availability Payment and Dispatch Payment is as follows:

$$\begin{aligned} &Annual\ \ Payment\ to\ Bidder \\ &\quad = \ Availabilty\ Payment_{\$\ per\ MW} \times \ Committed\ MW \\ &\quad + \sum\left(Dispatch\ Payment\ _{\$\ per\ MWh} \times \ Delivered\ MWh\ \ per\ event\right) \\ &\quad - \sum(Non\ Performance\ Liquidated\ Damages\ per\ event) \end{aligned}$$

Bidders may additionally specify if they want an Availability Payment or Dispatch Payment (per MWh/MVAR) or a combination of the two. Bidders who choose to receive an Availability Payment will be paid at the end of each calendar year (in addition to payments for the dispatched MWs). Bidders should note that Dispatch Payment may also be referred to as utilization rate on the Piclo Flex platform.

Bidders must account for standard utility electric service costs, inclusive of delivery charges, when submitting a price; for new build assets the rate will be dependent on the project's size, parent service classification, and voltage delivery level. For aggregations and BTM assets, bidders should account for their monthly delivery charges. Demand charges incorporated into the bidder's bid price should only be associated with the NWA dispatch. Demand charges should only be included for periods during which NWA charging is expected to occur (i.e., if the identified NWA need exists only during the summer months, demand charges associated with winter charging should not be included within the NWA costs). Bidder shall be solely responsible for all costs associated with any storage system, whether FTM or BTM, including but not limited to interconnection, installation, charging energy, delivery/demand charges, metering, maintenance and electricity supply charges. These costs will not be reimbursed by National Grid and are deemed included in the Contract Price.

For FTM new installations, the cost of interconnection must be included in any bid proposals.

For BTM resources, bidders should take note of the operational requirements for metering requirements in Section 3.4 Eligible Flexibility Solutions.

3.6.1 PROJECT ECONOMICS

The estimated net present value of the benefits (Approximate Value) of an NWA solution implementation for each location is shown under Section 3.3 for the total need of the term duration.

The Approximate Value is the estimated net present value derived from the calculated reliability benefits. The Company provides the Approximate Value of a potential NWA solution so that bidders can determine if a given NWA solution is cost-competitive in the BCA. The Company does not consider bid values from NWA Scheduled Service and NWA Real Time Service the same and may consider the capacity value (e.g., bid value) of NWA Scheduled Service lower in comparison to NWA Real Time Service due to its lack of real-time dispatchability, and given that additional procurement of NWA Scheduled Service may be required to adequately address the system need. The amount of kW that a NWA Scheduled Service resource proposes may be discounted/derated compared to the same kW that a NWA Real Rime service resource proposes. For example, if the total need is 2 MW, bidding in a 2 MW scheduled resource will require the utility to consider other solutions to other fill in the remaining need or opt for another resource that may be more cost effective in fulfilling the total need.

The Company is seeking cost-effective solutions that provide value to our customers. Bidders should submit their lowest price to be considered for competitive evaluation. Bidder's pricing shall be submitted directly through the Piclo Flex platform and in Appendix C - Offer Form. Bidders should note that Dispatch Payment may also be referred to as utilization rate on the Piclo Flex platform.

Bidders will be required, at a minimum, to detail the amount of load relief they will provide and the corresponding bid price such as the NWA solution cost rate per kW or yearly contract price, and all other required supporting information.

Bidders must include the estimated cost of interconnection as part of their proposal pricing if proposing a new build FTM solution. This estimate should reflect all anticipated expenses associated with connecting the proposed project to the Company's electric system. If the proposed NWA solution includes energy storage that charges directly from the grid, and is not paired with DG for charging, the full cost of grid interconnection must be included. For additional guidance, refer to Section 3.5.1 Interconnection.

APPENDICES

APPENDIX A – Bidder Information

The following items are to be completed by bidders as part of rolling bidder approvals on the Piclo Flex platform (See http://usa.picloflex.com). The Company, at its discretion, may request additional supporting information to determine if a bidder is qualified. Fields have been numbered for easy referencing. Field order, copy, and other criteria are subject to change.

Unless otherwise specified, all field types will be standard text entry fields.

An asterisk (*) denotes a mandatory field.

Bidders must answer these pre-qualification questions in the Piclo Flex platform.

Introduction

Complete this form through the Piclo Flex platform with details of the specific legal entity you reasonably expect to sign the legal contract for Flexibility Services.

1.1 Organization introduction*

1.2 Organization website*

Registration Details

1.3 Registered or legal name*

1.4 Previous registered name (if applicable)

1.5 Registered address 1*

1.6 Registered address 2

1.7 Registered address 3

1.8 Registered address ZIP code*

1.9 Organization type*

1.10 What is this organization's Federal Tax ID / EIN? *

1.11 Country of registration *

1.12 Date of Registration (of company)

1.13 Are you a Tier 1 Supplier (diverse supplier)?

Relationship with Assets

1.18 What is the legal relationship with the flexibility assets? *

1.19 Describe the asset management and ownership structure? *

Organization Status

2.1 Is this organization currently, or has it ever been unable to pay its debts as they fall due? *

2.2 Is this organization currently, or has it ever had any petitions for bankruptcy (or their equivalent in the country in which the Applicant is incorporated) within the last three years? *

2.3 Is this organization currently or has it ever had, in the past 3 years, any similar energy provision contracts terminated prematurely and/or had damages claims or other comparable sanctions brought against the organization for any significant or persistent deficiencies in performance of a substantive requirement of the contract? *

Auditing, Insurance and Legal

Accounts

3.1 Please upload a file of your most recent audited financial accounts (covering at least two years or as much as you have).*

Insurance Details

3.2 Do you have a copy of your company's current Certificate of Insurance (COI)?*

3.3 The insurance requirements for your proposal can be viewed on Piclo Flex Platform. Please note those within "if applicable" is dependent on the proposal submitted and will be waived if it does not pertain the work put forward. Please indicate you will adhere to the insurance requirements listed in Piclo Flex Platform. Any questions on this can be directed to Piclo / National Grid for clarification. *

Legal

3.4 Provide a statement of any material non-employment related litigation (pending, threatened or determined) or other legal proceedings against the organization within the last three years that may be relevant to your ability to deliver services. If none, please respond N/A.

Declare and Submit

Contact Information

In case the Company needs to get in touch regarding any of the information provided, please provide a suitable contact email and phone number.

4.1 Key contact name*

4.2 Key contact email*

4.3 Key contact number

Additional Documentation

4.4 List and describe the bidder's background and experience developing projects of a similar nature and technology. Identify likely technology(ies) to be utilized (if known at this time) and describe prior experience and success utilizing these technologies. Bidders must include all relevant projects that are under construction and operational, including the sizing, use case, and location. Describe your overall approach to procuring, installing, and dispatching these technologies, including completed and commercially operating projects using the proposed technology. If the solution is proposing BTM solutions, please describe experience in customer acquisition.*

4.5 Please state the number of projects using the proposed technology and completed and in commercial operation. How many completed projects with similar solution technology? *

4.6 Please state the number of projects using the proposed technology and under construction or under implementation. In addition, identify the number of similar projects that are currently under implementation.*

4.7 Submit three references (3) and key personnel resumes.*

4.8 Are you able to meet weekend needs?*

4.9 Add any other documentation that may support this application.

4.10 Do you aim on bidding in as a NWA Real Time or NWA Scheduled service? Can the NWA solution meet requirements for both Scheduled and Real Time?*

4.11 Please indicate you have reviewed in its entirety and accepted the Terms & Conditions for Flexibility Services as stated in the NY Flexibility Services Standard Agreement.*

4.12 Bidder acknowledges that they must review and submit the following if awarded:

- Review National Grid Payment Methods
- Supplier Code of Conduct and Ethics Acknowledgment
- NDA (includes Data Security Agreement)

Declaration

In order to provide flexibility services after a successful competition, the Company's Flexibility Terms and Conditions will need to be signed.

5.0 Do you expect that this organization's Registered name, Trading name, or Parent name will be the entity named in any resulting contracts with the Company? Please explain why and, where possible, provide an example of an expected entity name. *

5.1 Do you declare that you have the authority to submit this application and by confirming you declare that to the best of your knowledge, the information in this form is accurate?*

APPENDIX B – Proposed Solution Information

Respondents must provide the following information for each NWA opportunity (location) for which a proposal is being submitted. A separate Appendix B submission is required for each location. For example:

- Appendix B1 – West Adams
- Appendix B2 – Alder Creek
- etc.

Each Appendix B submission must clearly identify the applicable location and align with the corresponding pricing provided in Appendix C – Offer Form.

Respondents may reuse content across locations where applicable but must clearly identify any location-specific assumptions or differences.

PROJECT SUMMARY

1. Proposed NWA Location(s):
2. Proposed Solution Type (FTM storage, BTM, Demand Response, Hybrid, etc.):
3. Proposed Capacity (MW):
4. Proposed Duration (hours):
5. Does the proposal meet the full NWA load relief requirement? ☐ Yes ☐ No
    a. If no, explain:
6. Dispatch Type: ☐ Real-time ☐ Scheduled ☐ Both

PROJECT DESIGN

1. If applicable, please provide physical size and footprint including preliminary site layout plan. If applicable, please also include where you may interconnect the NWA solution. If proposing a new build DER, for FTM or other grid-interconnected solutions, please also indicate the proposed or potential interconnection point, including feeder.

OPERATIONAL PARAMETERS

Please note, not all criteria listed below may be applicable to all NWA solutions proposed.

1. Submit control schemes, electrical configurations, and sufficient detail for the utility to review and confirm acceptance of Bidder's Proposal. Detail any integrated control scheme(s) that are included in the interconnected inverter(s), if applicable.
2. Overview of proposed project's market participation strategy and how the NWA solution would support that strategy; in particular, provide assurance that the NWA solution would be available for contracted services.
    a. Please specify any wholesale markets the NWA solution plans to participate in (i.e. energy, capacity, ancillary services, etc.).
    b. Please specify if the NWA solution is participating in the VDER Value Stack tariff.
    c. Please define the project's market participation (i.e., none, retail, wholesale), external funding (e.g., New York State Energy Research and Development Authority (NYSERDA)) and how this aligns with NWA solution needs.

SCHEDULE OVERVIEW:

1. For new build DER or addition to existing system:
    a. Please provide a detailed project schedule describing financing, permitting, engineering, procurement, construction, interconnection, commissioning, and start-up activities timelines and status; the schedule should include detail milestones for each phase.
    b. Please include a site control timeline and details in the proposed schedule.
    c. Please provide a cut-off date by which an agreement between the parties must be fully executed in order for the project to be in-service by the need date.
    d. Describe the customer acquisition plan and how it is incorporated into the schedule, if applicable.
2. Discuss any challenges anticipated with the overall project and project implementation schedule.

FINANCIAL OVERVIEW:

New York State offers various incentives for energy storage projects, including the NYSERDA Energy Storage Incentive.[8] These incentives may help offset project costs and improve overall economics. Bidders are encouraged to review eligibility requirements and consider these programs when preparing proposals.

Please provide the following project information for each site where you are proposing to construct NWA solutions:

1. Are you planning to use any external funding sources (e.g., NYSERDA grants, state incentives, federal programs)? Are there any tariffs, grants, or incentives that this proposal depends on?
2. Please list all funding programs and indicate whether they are confirmed or pending.
3. For pending, please provide a timeline for obtaining these funds, including key milestones and expected award dates.
4. If National Grid were to request a reduced MW capacity from your proposed solution, would you be open to that adjustment? If so, please fill out the following information:

Under a reduce capacity scenario:	**Response**
Minimum MW Capacity	
Cost per MW or Yearly Contract Cost	

PERMITTING OVERVIEW:

Please provide the following project information for each site where you are proposing to construct NWA solutions:

5. A description of the Bidder's current legal property interest in the site (i.e., fee ownership, lease, easement, license, existing option, exercisable option) demonstrating that the Bidder has/will have the site owner's authorization to build the project and maintain same for the entire term of the contract Energy Services Agreement ("ESA")
6. Google Earth Aerial Map of the site, depicting where Bidder is considering constructing the NWA equipment on the site (with the understanding that this is subject to change)

[8] For more details on eligibility, incentive rates, and application process for the NYSERDA Residential and Retail Energy Storage Incentive Program, see https://www.nyserda.ny.gov/All-Programs/Energy-Storage-Program/Developers-and-Contractors/Residential-and-Retail-Storage-Incentives.

7. A second Google Earth Aerial Map of the site, “zoomed out” far enough so that National Grid can see the surrounding neighboring uses in the area (i.e., 1,000-foot radius around the property boundary)
8. Please describe the permitting process and plan for the proposed solution

Please note that all permitting costs are the responsibility of the Bidder even if the NWA solution is located on Company-owned land.

APPENDIX C – Offer Form

Please see the attached Excel Appendix C – Offer Form.

As part of their RFP submission, Respondents are required to complete and submit the Excel workbook. The Offer Form is the sole mechanism for submitting pricing and commercial terms under this RFP. The Excel template allows Respondents to submit proposals for one, multiple, or all NWA opportunities included in this RFP in a consistent format.

Respondents may propose different payments as described in the RFP, for example:

- Annual availability or set contract payments
- Utilization-based payments
- Or a combination of the above

All pricing shall clearly represent the total compensation requested from the Company for the applicable contract term.

Instructions for completing the Offer Form are provided within the Excel workbook. Respondents shall:

- Provide the ESA or Construction Service Agreement ("CSA") fee proposed to be charged to the Company for contracting services over the contract period.
- Enter values by location and by year, where applicable.
- Indicate "N/A" for any field that does not apply to the proposed solution.

Certain values, including but not limited to availability payments, contract payments, load relief commitments, and utilization rates, may vary year by year and should be entered accordingly.

Where pricing or proposed terms are dependent on award of multiple locations, Respondents must clearly identify:

- The locations included in the portfolio proposal
- Any pricing assumptions or dependencies associated with portfolio award

National Grid will evaluate individual locations independently and note that individual contracts would be executed for each opportunity.

Note: The cost of interconnection should be included in any proposals, where applicable. Note, National Grid is providing a $500,000 estimate for FTM storage which will be further refined during the evaluation period based on the POI. If the NWA solution is storage based, please ensure any charging and delivery charges have been included in your model.

DELIVERY CHARGES

For purposes of this RFP, bidders should assume that any energy drawn from the Company's system to charge a stand-alone storage intended to provide NWA services (and/or to participate in retail programs such as the VDER Value Stack tariff) will be subject to the applicable retail electric delivery rates in effect at the project's point of interconnection. Applicable delivery charges will depend on the size and configuration of the proposed project, the applicable parent service classification, and the voltage level at which service is taken. Retail delivery charges may

include, but are not limited to, a monthly customer charge, demand-based charges (e.g., $/kW), energy-based charges ($/kWh), and other applicable surcharges and adjustments under the Company's Electricity Tariff.[9]

Stand-alone energy storage projects taking service under Service Classification No. 7 ("SC7") of the Company's Electricity Tariff, P.S.C. No. 220, have historically been billed based on these components; however, bidders are responsible for confirming the applicability of SC7 or any other relevant service classification to their proposed configuration. Bidders should review the Electricity Tariff for additional details regarding billing determinants, metering, and other service requirements.

When preparing proposals, bidders should include in their pricing an estimate of all applicable retail delivery charges associated with charging their storage from the Company's system, based on the anticipated charging profile during periods relevant to NWA operations. Delivery charges should be reflective of expected NWA operating periods and should not include costs associated with charging outside of the anticipated project use case. This information is provided for cost-estimation purposes only and does not constitute a determination of final service classification or billing treatment.

If the bidder plans to receive compensation from other New York programs (e.g., NYSERDA), the bidder shall disclose plans, status, and magnitude of award within their Proposal.

[9] P.S.C. No. 220 Electricity, Niagara Mohawk Power Corporation d/b/a National Grid Schedule for Electric Service (Electricity Tariff).

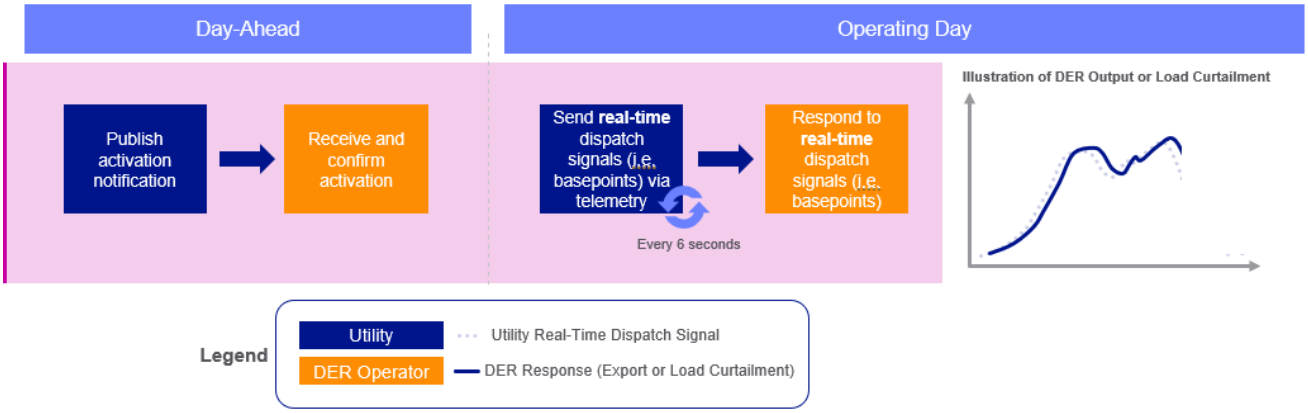
APPENDIX D – Checklist

Offer Submission Checklist

Checklist Item	Initial/ Check
Reviewed all RFP documents and applicable laws and regulations that in any manner may affect cost, progress, or performance of the proposed project.	
Proposal Overview	
Bidder Information (See RFP Appendix A)	
Proposed Solution Information (See RFP Appendix B)	
Offer Form (See RFP Appendix C)	
Review of NY Flexibility Services Standard Agreement	
Review of National Grid Payment Methods	
Review of Supplier Code of Conduct	
Review of Non-Disclosure Agreement (includes Data Security Agreement)	
Two (2) years of Audited Financial Account Statements	
Review U.S. background checks for contractors policy	
If applicable, incorporate charging and delivery costs	
Review of other obligations that are being used to secure revenue outside of the NWA contract	

APPENDIX E – NWA Real Time Service Flexibility Service Integration and Operational Requirements

NWA Real Time Service refers to DERs (FTM and/or BTM with exporting capability or non-exporting, and that can be aggregated) that can receive real-time dispatch signals via National Grid's SCADA system using DNP3 through a utility-owned DER gateway located at each DER site unless National Grid specifies prior to execution of a contract that the selected bidder must use an alternative industry standard communication protocol such as IEEE 2030.5. These assets must respond to real-time internal signals during live NWA events, enabling real-time load following.



This appendix specifies requirements applicable to NWA Real Time Service that bidders can elect to provide for the Company.

NWA Real Time Service Requirements

Monitoring and Dispatch Control Requirements for NWA Real Time Service

For parallel-connected generation connecting to National Grid's electric power system (EPS), the proposed solution must be compliant with National Grid's Electric System Bulletin (ESB) No. 756 – Requirements for Parallel Generation Connected to a National Grid-owned EPS (ESB 756).[10]

In addition to requirements under ESB 756, the proposed solution must also have communication capability to provide telemetry data so National Grid Operations can monitor real-time status of the NWA solution (DER facility or the DER aggregation) and issue real-time dispatch basepoints to the NWA solution. Dispatch basepoint may be telemetered as quickly as 6 second intervals and therefore the bidder's proposed operation must meet the ability to receive dispatch signals at the same rate. However, the dispatch basepoint is expected to change values at one-minute intervals.

The bidder is expected to support integration of a National Grid-owned and managed DER gateway, real-time automation controller, or other similar equipment at each DER site proposed by the bidder that will utilize the DNP3 communication protocol standard for SCADA telemetry unless National Grid specifies prior to execution of a contract that the selected bidder must use an alternative industry standard communication protocol such as IEEE 2030.5. Bids

[10] National Grid Electric System Bulletins are located on the Company's website, *available at*https://gridforce.my.site.com/electric/s/article/Electric-Specification. ESB 756 is typically applicable to DER interconnecting in parallel with the Company's electric power system ("EPS").

would be viewed more favorably if they also could be ready with a 2030.5 control system based on IEEE 2030.5 at some point after the NWA solution is built, tested, and commissioned. The DER gateway will be provided and installed by National Grid at the DER facility, and the bidder or DER facility owner may be required to install make-ready provisions (e.g., mounting structure, control power) that must meet National Grid's equipment specifications. For proposed DER aggregations, the bidder will be expected to designate a centralized location within the Company's service area for the Company DER gateway to be installed that best facilitates integration with the bidder's aggregation dispatch system.

Dispatch Coordination Expectations for NWA Real Time Service

NWA Real Time Service providers will be expected to respond to real-time dispatch basepoints telemetered by National Grid during the Service Window defined in this RFP for each day it has been activated. In this manner, DER providing NWA Real Time Service will act similar to 'load-following' grid resources.

Dispatch Notification (day-ahead) Process: The Company will provide activations for NWA Real Time Service at least 24 hours (i.e., day-ahead) prior to an NWA dispatch call, see Service Terms in the NY Flexibility Services Standard Agreement for more details. Providers are to confirm receipt and availability when notified of activation.

Real-time Dispatch Process: NWA solution providers are to provide at a minimum the required dispatch response based on dispatch basepoints received from the Company. However, providers' responses may exceed the basepoint within the limits of any interconnection allowances (e.g., if renewable on-site generation can exceed the dispatch response requested). Any response in excess of the dispatch basepoint will not be compensated for grid services procured by this NWA solicitation.

Metering

Metering and associated communications are necessary to ensure that the Company is able to measure and verify the load relief that was delivered during an NWA event. The NWA Real Time Service provider shall be responsible for all metering and communication devices and associated costs.

For parallel connected generation connecting to National Grid's EPS, the proposed solution must be compliant with the revenue metering requirements within ESB 756. Revenue metering must be, at a minimum, hourly interval meters to support National Grid's dispatch measurement and verification (M&V) process.

Performance Requirements

The Company requires 95% availability and any solutions that do not meet the 95% availability may be subject to liquidated damages. See NY Flexibility Services Standard Agreement for NWA Real Time Service. All solutions must have at least 95% guaranteed performance for the MWs contracted. If applicable, bidders must account for system degradation (e.g., battery capacity loss) over time.

Certain load curtailing resources may participate in NWA Real Time Dispatch Service without providing real-time telemetry sufficient for the Company to observe delivered load reduction during the dispatch interval. For such resources:

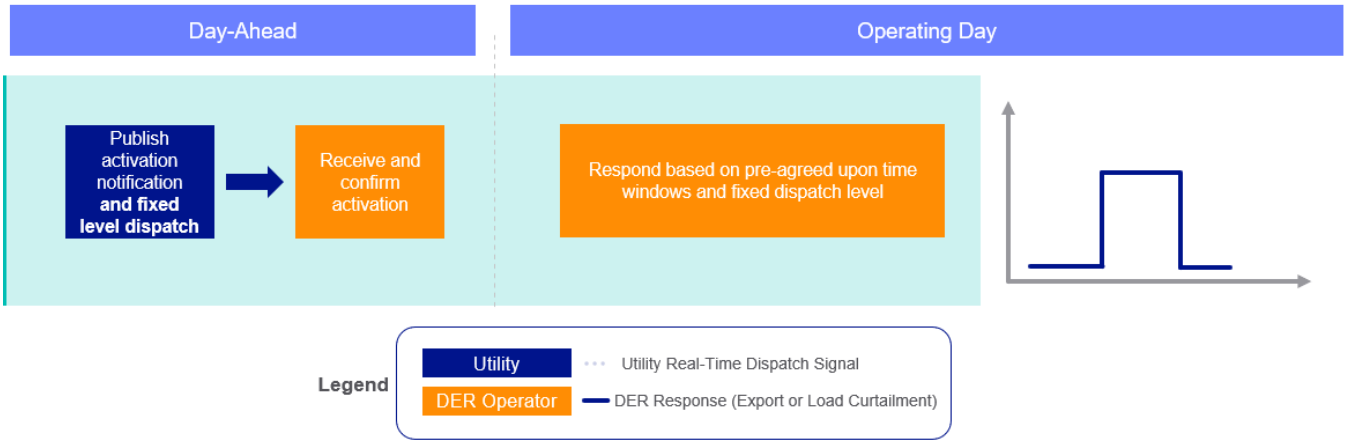
- Dispatch instructions will specify the required level of load reduction (MW).

- The Company's Control Center will not rely on real-time feedback from these resources during the dispatch event.
- Performance will be assessed using interval meter data following the event, consistent with Company measurement and verification practices.

Bidders should consider these limitations when proposing capacity under NWA Real Time Dispatch Service. In evaluating proposals, the Company may apply different capacity accreditation or valuation factors based on a resource's dispatchability, telemetry, and real-time performance visibility.

APPENDIX F – NWA Scheduled Service: Flexibility Service Integration and Operational Requirements

NWA Scheduled Service refers to DERs (FTM and/or BTM with exporting capability or non-exporting, and that can be aggregated) that can respond to pre-scheduled, event-based dispatches. Unlike NWA Real Time Service, NWA Scheduled Service does not require real-time dispatch communication with the utility and operates more like traditional demand response, with dispatch levels set ahead of time.



This appendix specifies requirements applicable to NWA Scheduled Service that bidders can elect to provide to the Company.

NWA Scheduled Service Requirements

Monitoring and Dispatch Control Requirements for NWA Scheduled Service

NWA Scheduled Service providers will not require real-time telemetry between National Grid and individual DERs or the DER aggregation.

However, for parallel-connected generation connecting to National Grid's EPS and seeking to provide NWA Scheduled Service, the proposed solution must still be compliant with the ESB 756.

For aggregated DER co-located with retail load and are non-exporting facilities that do not fall under the scope of ESB 756, the third-party aggregator is responsible for installing, commissioning, operating, and maintaining all necessary telemetry equipment that the aggregator needs to maintain visibility and control of the DER to the third-party aggregator. However, no real-time telemetry is required between the aggregator (or its DER) and the Company. In the case of aggregations, only the aggregator will be notified of the NWA event. The aggregator is responsible for notifying resources within its respective aggregation(s).

Dispatch Coordination Expectations for NWA Scheduled Service

NWA Scheduled Service providers will be expected to provide pre-agreed fixed (flat level) responses during the Service Window for each day activated. In this manner, DERs providing NWA Scheduled Service will serve similar to 'event-based' grid resources, akin to traditional demand response programs.

Dispatch Notification (day-ahead) Process: The Company will provide activations for NWA Scheduled Service at least 24 hours (i.e., day-ahead) prior to a dispatch event. Dispatch may be communicated via email, SMS, or an industry standard communication protocol designated by National Grid (e.g., OpenADR or IEEE 2030.5) and will be confirmed prior to execution of a contract.. Providers are to confirm receipt and availability when notified of activation. See NY Flexibility Services Standard Agreement for details.

Real-time Dispatch Process: Providers are to provide at minimum the required dispatch response based on the pre-agreed fixed (flat level) response contracted when selected during the procurement event. However, providers may have responses exceed the basepoints within the limits of any interconnection allowances, such as additional load curtailment. Any responses in excess of the pre-agreed responses will not be compensated for grid services procured by this NWA solicitation.

Metering

Metering and associated communications are necessary to ensure that National Grid must be able to measure and verify the load relief that was delivered during an NWA event. The NWA solution provider shall be responsible for all metering and communication devices and associated costs.

For NWA solutions that do not have SCADA capabilities or are fully dispatchable such as BTM assets, participants must have National Grid interval metering in place to participate. All performance will be measured using the Company's interval meter data.

All DER facilities providing NWA Real Time Service and NWA Scheduled Service must have National Grid-approved revenue grade interval metering requirements regardless of the flexibility service type.

For parallel-connected generation connecting to National Grid's EPS, the proposed solution must be compliant with the revenue metering requirements within ESB 756. Revenue metering must be at minimum hourly interval meters to support National Grid's dispatch M&V process.

Any resource requesting interval metering must submit a request to the Company requesting the installation of a new meter and ensure the interval meter is in place in time by the in-service date. The customer taking electric service from the Company is responsible for the metering and installation costs. The metering and installation costs are available from the Company's representatives. Metering communications are necessary for administration of the NWA solution. Where meter reading communications must be installed, the Company shall provide the necessary communications equipment for the customer's meter which records the electric requirements delivered to the customer's premises. The NWA solution provider shall be responsible for all metering and communication devices and associated costs as prescribed above and in accordance with Rule 25 of the Electricity Tariff. The average meter cost is generally $700 to $1,000 per meter.

Performance Requirements

NWA solutions must commit to a specific MW and MWh that can meet this availability requirement with the option to utilize and manage a DER nameplate capacity that is greater than what it is committing in its solution (i.e., overbuild). The customer baseline load (CBL) will be used following the Company's CBL methodology paired with the Company's interval meter data. See NY Flexibility Services Standard Agreement for the CBL method and verification.[11] The CBL method will be used for NWA Scheduled Services.

[11] CBL Verification Methodology means the methodology used by the Company to verify the actual load relief provided (kW and kWh) during each hour of each designated load relief period. Actual load levels are compared to the customer baseline loads to verify whether the NWA provider met the kW of contracted load relief; provided, however, that the Company may estimate the data pursuant to the Company's operating procedure if data is not available for all intervals.

APPENDIX G – Market Related Acronyms and Definitions

Acronym	Definition
Auto-DLM	These Auto-Dynamic Load Management (DLM) resources will need to provide both peak shaving benefits as well as reliability services and for 2027 Vintage Year will be given 21 hours advance notice
CBL	Customer Baseline Load
CSRP	Commercial System Relief Program
DER-PM	NYISO's Distributed Energy Resource Participation Model
DLRP	Distribution Load Relief Program
DRV	Demand Reduction Value
EDRP	Emergency Demand Response Program
LSRV	Locational System Relief Value
M&V	Measurement and Verification
NYISO	New York Independent System Operator, Inc.
SCR	Special Case Resources
Term-DLM	These resources will offer peak-shaving benefits to the Company's system and will be called on upon no less than 21 hours advance notice
VDER Value Stack	Value of Distributed Energy Resources (VDER) Value Stack refers specifically to the tariff-based compensation available under the VDER program