2026 Request for Information

Concerning the Prospects for

Clean & Non-Emitting Resources on Long Island

Issued by

PSEG Long Island on behalf of The Long Island Power Authority

Issued March 16, 2026

LIPA

PSEG LONG ISLAND

Contents

Appendices

1. INTRODUCTION

PSEG Long Island LLC ("PSEG Long Island") , on behalf of the Long Island Power Authority ("LIPA"), is issuing this Request for Information ("RFI") in response to the New York State Public Service Commission ("PSC") recommendations to LIPA in its Order Initiating Proceeding and Directing Reliability Contingency Plan ("PSC Order").[1] Specifically, the PSC Order encouraged LIPA to develop a Long Island contingency plan that includes the components outlined in the PSC Order. Responses to this RFI will be used to evaluate the prospects for the development of renewable and non-emitting energy resources on Long Island to help meet LIPA's resource requirements in future years.

LIPA is issuing this RFI to review and analyze the full range of available renewable and non-emitting resource solutions, including demand-side management measures such as energy efficiency, load-shifting measures, demand response, and virtual power plants, as well as distributed renewable resources and other non-emitting generation technologies. The information gathered will support LIPA's ongoing efforts to advance reliable, cost-effective, and sustainable energy strategies for Long Island.

1.1 Background

LIPA is a corporate municipal instrumentality and a political subdivision of the State of New York. LIPA, by and through its agent, the Long Island Electric Utility Servco LLC ("Servco"), a subsidiary of PSEG Long Island, provides electric service to approximately 1.2 million customers in its service territory, which includes Nassau County, Suffolk County, and the portion of Queens County known as the Rockaways, in the State of New York (the "LIPA Service Territory").

Pursuant to the Second Amended and Restated Operation Services Agreement ("A&R OSA") dated December 15, 2021, as it may be restated, amended, modified, or supplemented from time to time, between LIPA and PSEG Long Island, PSEG Long Island through its operating subsidiary, Servco, assumed the responsibility as a LIPA service provider, to operate and manage the transmission and distribution system and other utility business functions as of January 1, 2014. PSEG Long Island is responsible for power supply planning and procurement, and provides a wide range of energy-related services to LIPA's customers through various energy efficiency, demand response, and renewable programs in its service territory, except for customers located in the Villages of Rockville Centre, Freeport, and Greenport, all of which own and operate municipal electric systems. Additional information about LIPA[2] and PSEG Long Island[3] can be found on their respective websites.

To meet its customers' electricity requirements, LIPA has secured power supply resources, primarily through various power purchase agreements with third-party generation and transmission developers, and has undertaken a variety of demand-side initiatives to reduce system peak demand. These efforts

[1] Case 25-E-0764, Proceeding on Motion of the Commission to Address New York City Reliability Needs, *Order Initiating Proceeding and Directing Reliability Contingency Plan* (issued and effective December 18, 2025) (the "PSC Order").
[2] https://www.lipower.org/
[3] https://www.psegliny.com/

have historically allowed LIPA to reliably serve load while complying with applicable NYISO requirements and New York State energy policy objectives.

Recent NYISO reliability assessments, including the Short-Term Reliability Assessment, indicate that NYISO Zone K (Long Island) faces growing risks of resource adequacy and operational reliability challenges. PSEG Long Island similarly expects that NYISO Zone K will have unmet needs of increasing daily duration starting in 2030, transitioning from short-duration, peak-hour deficiencies to longer-duration needs that extend across multiple hours. These projected risks are driven by a combination of factors, including but not limited to:

- Continued growth in peak and energy demand, including the electrification of buildings and transportation
- An aging thermal generation fleet and the potential retirement or reduced availability of existing resources
- Increasingly stringent requirements around the availability of fossil-fueled generation
- Challenges in bringing new and/or planned resources online

Multiple major infrastructure initiatives are underway or planned on Long Island, including the Sunrise Offshore Wind project and the Propel NY Energy transmission project, both of which are expected to provide meaningful reliability and clean energy benefits in 2030. Nevertheless, both NYISO and PSEG Long Island anticipate continuing challenges, particularly in periods of peak demand, adverse weather, or as a consequence of other constrained system conditions.

While the precise timing and magnitude of these needs will continue to evolve as load forecasts and market conditions change, the assessments consistently indicate that incremental non-emitting and flexible resources will be required to maintain reliability. As such, this RFI will assist in further developing LIPA and PSEG Long Island's efforts to address evolving needs in both the near term, as identified by the NYISO, and in the future to address any existing or emergent reliability needs. Moreover, assessment of potential solutions through this RFI enables PSEG Long Island's efforts to develop LIPA's next Integrated Resource Plan, which will address resource adequacy and operational reliability challenges, including, but not limited to, those discussed above.

Accordingly, LIPA and PSEG Long Island are evaluating a portfolio-based approach to meeting future system needs that is consistent with the direction in New York's State Energy Plan and the CLCPA, which establishes a statewide target of 70 percent renewable electricity by 2030 and a zero-emissions electric grid by 2040. This portfolio-based approach aligns with the Plan's call for a "comprehensive portfolio" that prioritizes and leverages all available clean and non-emitting options, including demand-side management (such as energy efficiency, demand response, and virtual power plants), energy storage, distributed renewable resources, and other non-emitting generation resources.

In addition, the State Energy Plan emphasizes an all-of-the-above reliability strategy during the transition, including the need to maintain system stability as the supply mix and load shape change, and acknowledges the role of existing resources and repowering while clean and renewable contributions grow over time. This approach recognizes the need for resources that can provide capacity, energy, and essential grid services, along with operational flexibility across a range of time horizons, including both short-duration and longer-duration reliability support as demand increases and the system becomes more dependent on weather-driven generation.

This Request for Information seeks information regarding non-emitting solutions that could help address identified reliability needs and operational challenges beginning in the late 2020s and extending into the 2030s and beyond. Responses should consider the ability of proposed solutions to be developed, permitted, interconnected, and operational within these timeframes, as well as their capability to provide reliability value under NYISO rules and evolving market and policy frameworks. This RFI is intended to supplement, and not replace, existing utility-run programs, tariffs, and NYSERDA-administered procurements.

Parallel to this RFI, LIPA and PSEG Long Island will continue to evaluate near-term reliability risks and potential solutions to address them.

1.2 Overview

The objective of this RFI is to gather information and input from interested parties to assist LIPA and PSEG Long Island in determining the extent to which renewables and non-emitting energy resources[4] can be secured to assist LIPA in meeting its resource requirements with a focus on managing system peak demand. To account for any future uncertainties and risks regarding LIPA's currently expected unmet need, LIPA may seek to procure up to 500 MW of peak load relief by 2035. That relief may take the form of new dispatchable resources, demand-side resources, or load relief achievable with a high degree of certainty.

PSEG Long Island intends to use the results of this RFI to inform the development of LIPA's next Integrated Resource Plan, ensuring it makes effective use of clean, non-emitting solutions, prioritizes cost-effectiveness, and eases and speeds deployment, while reducing greenhouse gas emissions and co-pollutants, especially in disadvantaged communities. Responses to this RFI may be used by LIPA and PSEG Long Island to inform the development of future RFPs for new resources, and/or for collaboration on future procurement efforts with DPS and NYSERDA, which has assumed the role of the centralized procurement agency for certain energy programs needed to achieve the statewide goals established in the CLCPA.

[4] Such resources may include "…demand side management (e.g., energy efficiency and demand response, among other potential options), energy storage, transmission and distribution, distributed renewable resources, and other non-emitting options." NYC Reliability Order, at 16.

LIPA intends to prepare and file a summary of responses and future Long Island Integrated Resource Plan in the Proceeding on Motion of the Commission to Address New York City Reliability Needs before the New York State Public Service Commission (Commission), to support the Commission's ongoing review of reliability needs impacting New York City and Long Island.[5] Information marked Confidential or Proprietary in accordance with the procedure described in the following paragraph will not be made public in that filing, but may be provided to the Commission or to Department of Public Service Staff confidentially.

This RFI welcomes responses targeting any dispatchable technology – whether in front of or behind the meter - focused on any customer segment and/or interconnected to any part of the power grid to support LIPA and PSEG Long Island reliability needs. LIPA and PSEG Long Island will consider recommendations of any scale proposed by respondents to this RFI in support of the reliability needs.

In sum, this RFI seeks relevant input from Respondents regarding:

- Specific details pertaining to which renewable energy and/or non-emitting resources could be developed on Long Island for procurement by LIPA.
- What customer segment(s) does the proposed solution intend to target, i.e., All, Residential, Commercial, and/or Industrial?
- Demonstration of technical and commercial feasibility, including any third-party evaluations or measurement and verification analyses of proposed resources that the Respondent has experienced.
- The timing as to when such resources could be procured and installed.
- The optimal duration of the term during which such resources would be in commercial operation.
- Respondents' knowledge and/or experience with developing renewable energy and/or non-emitting resources.
- Preferred locations on Long Island where such resources could be sited in accordance with local zoning regulations, with preference given to disadvantaged communities.
- The locations at which these resources would interconnect to the LIPA electrical system.
- Identification of barriers to developing the preferred solution, and what support from LIPA or the State would be beneficial to the development of the related project.
- Respondents' preferences for alternative contract structures and terms. Several alternative contract structures being considered by LIPA and PSEG Long Island are set forth in APPENDIX A.
- Respondents' suggestions as to how LIPA and PSEG Long Island should evaluate proposed solutions and what benefits can/should be quantified.
- Preliminary, non-binding estimate of costs and benefits which can be used for planning purposes.

[5] Case 25-E-0764 – Proceeding on Motion of the Commission to Address New York City Reliability Needs, Order Initiating Proceeding And Directing Reliability Contingency Plan (issued December 18, 2025) ("NYC Reliability Order").

- The potential cost savings, as a percentage over the cost of implementation for the non-emitting technology suggested.
- Respondents' willingness to attend a post-RFI interview for information exchange should LIPA and PSEG Long Island deem this productive.
- Any other suggestions on renewable and non-emitting resources that LIPA and PSEG Long Island could include in an RFP that would assist developers in proposing projects that would provide value to LIPA's customers.
- RFI respondents are requested to provide a preliminary, non-binding estimate of costs and benefits, which can be used for planning purposes.

2. LOAD RELIEF NEEDS

It should be noted that the PSC Order highlighted LIPA's near-term reliability needs (Summer 2027 to 2030). By letter dated January 20, 2026, in Case 25-E-0764, PSEG Long Island advised the PSC that the specific near-term issues identified in the Order are being addressed. Notwithstanding the foregoing, the LIPA system continues to have a longer-term need (post 2030) for load relief during system peak hours. Accordingly, the solutions requested in **APPENDIX A** of this RFI should be developed primarily from the perspective of reducing peak loads to address LIPA system needs through 2035.

In terms of location, load relief is generally required throughout the LIPA Service Territory, but particularly in the Rockaway Peninsula and Long Beach, during the summer peak periods.

3. GENERAL INFORMATION

3.1 RFI Terms and Conditions

PSEG Long Island is administering this RFI on LIPA's behalf. PSEG Long Island reserves the right to amend this RFI, at any time, by issuance of one or more addenda or amendments and to distribute additional clarifying or supporting information relating thereto. Any such addenda, amendments, and/or information shall be posted on the PSEG Long Island website below:

https://www.psegliny.com/aboutpseglongisland/proposalsandbids

PSEG Long Island may ask any or all Respondents to elaborate or clarify specific points or portions of their submission. Clarification may take the form of written responses to questions, phone calls, or in-person meetings for the purpose of discussing the RFI, the responses thereto, or a combination of the above. It is solely the responsibility of each Respondent to ensure that all pertinent and required information is included in its submission. PSEG Long Island reserves the right to determine at its sole discretion whether a submission is complete or eligible for consideration.

This RFI shall not be construed to create an obligation on the part of PSEG Long Island or LIPA to enter into any contract or serve as a basis for any claim whatsoever for reimbursement of costs for efforts expended by Respondent firms. The issuance of this RFI and the submission or response by any person or entity does not obligate PSEG Long Island or LIPA to qualify the person or entity in any manner whatsoever. A legal obligation on the part of PSEG Long Island or LIPA to engage in any business transaction with a Respondent will only arise if and when a formal written contract is entered into between or among LIPA or PSEG Long Island, as LIPA's agent, and such Respondent, and such contract receives any regulatory approvals that may be required.

LIPA or PSEG Long Island shall not be obligated by any responses or by any statements or representations, whether oral or written, that may be made by LIPA or PSEG Long Island or its employees, principals, or agents in connection with this RFI.

Information that any interested party wishes to submit as part of this RFI will be provided voluntarily with the understanding that this RFI is for information gathering purposes only and is not a formal solicitation. RFI responses are requested to provide a preliminary, non-binding estimate of costs and benefits, which can be used for planning purposes.

Any information the Respondent provides to LIPA and PSEG Long Island that it deems to be confidential under the Freedom of Information Law ("FOIL") should be clearly marked as confidential in the response. By responding to this RFI, Respondents are deemed to agree to keep confidential all information that is directly or indirectly provided by PSEG Long Island to a Respondent in connection with this RFI, provided that the foregoing confidentiality obligation shall not apply to any information that LIPA or PSEG Long Island make generally available to the public or information that must be disclosed pursuant to law. Subject to the foregoing, LIPA and PSEG Long Island reserve the right, in their sole discretion and without liability, to utilize any or all submissions, responses, and materials received in connection with this RFI, in LIPA's and PSEG Long Island's planning efforts and otherwise.

3.2 RFI Structure

As outlined in **APPENDIX A: RFI QUESTIONS**, this RFI requests data in four sections:

1) **Organizational Background and Experience** - This section is intended to help LIPA understand the Respondent's experience and overall background.

2) **Technical Overview** - The goal of this section is to gather general information regarding the various qualifying technologies and/or solutions that can potentially support the LIPA system.

3) **Technical Implementation** - This section requests the specific information developers will need to deploy the proposed qualifying technologies and/or solutions in the LIPA system, and their effective costs and benefits.

4) **Proposed Procurement Schedule** - This section seeks feedback from Respondents on the schedule for developing quality proposals in response to an RFP and the timeline for developing proposed projects.

This RFI also requests that Respondents populate **APPENDIX B: RFI RESOURCE DATA WORKBOOK,** detailing general information and costs regarding the proposed resource.

3.3 General Principles for Acceptable Responses

LIPA expects all Responses to be consistent with the following principles[6]:

- Only clean or non-emitting solutions will be considered
- Solutions must prioritize cost effectiveness
- Solutions must be straightforward to deploy and capable of being implemented in a timely manner with a high level of assurance – i.e., must be proven or can be demonstrated to be proven technologies that can manage peak demand in the field in a timeframe that can support the identified need or a portion of the need
- Solutions must minimize negative impacts to Disadvantaged Communities
- Solutions must have a reliable, clearly verifiable impact on system-level demand

3.4 Webinar Instructions

A webinar to discuss the 2026 Clean and Non-Emitting Resources RFI will be held on:

Date: March 25, 2026

Time: 11:00 AM EPT

Pre-Registration Meeting Link: Pre-Registration Link for the Webinar

4. RESPONSE REVIEW APPROACH

Respondents should note that while LIPA and PSEG Long Island intend to review and carefully consider the information in the responses received, it is not a guarantee that the information will be implemented or included in any RFP that may be issued. LIPA and PSEG Long Island have issued this RFI for information gathering purposes to improve the procurement process and the related pro forma contract(s). This RFI is not a formal solicitation.

PSEG Long Island on behalf of LIPA intends to utilize the Evaluation Criteria set forth in Table 4-1 to evaluate Proposals.

[6] These principles are consistent with the guidance provided by the Public Service Commission's December Order Initiating Proceeding.

Table 4-1: Evaluation Criteria

Category	Description
Addresses RFI Guidelines	Information requested has been provided and is comprehensive enough to allow for evaluation. Solutions are consistent with the guidance provided in the RFI.
Cost Effectiveness	The requested incentive for the proposed solution relative to its impact on peak demand.
Feasibility	Solution is technologically and/or commercially mature and may credibly be implemented by Respondent or other market actors. Solution can be implemented within the required timeframe with manageable risk.
Scale of Relief Provided	The extent to which the proposed solution would provide relief during peak demand periods.
Timeliness	The likelihood that the proposed solution will begin to provide load relief before the period specified in this RFI.
Availability and Reliability	The certainty that the proposed solution will provide firm, dependable load relief during the period outlined in this RFI.
Community Impacts (for known sites or targeted geographies)	The long-term positive or negative impact that the proposed solution may have on the community in the identified area, including, but not limited to, customer experience, environmental impacts and emissions, and enhancements or disruptions to the community (i.e., lower energy costs, noise, pollution, support for low-income housing, etc.). Preference will be given to solutions that provide benefits to DACs in the form of incentives, reduced energy costs, etc.

5. RESPONSE INSTRUCTIONS

5.1 RFI Target Schedule

Activity	Target Date
RFI Issuance	March 16, 2026
Webinar	March 25, 2026, 11:00am EPT
Deadline to Submit Clarification Questions (1st Round)	March 27, 2026
PSEG Long Island Responses to Clarifying Questions Published	April 6, 2026
Deadline to Submit Clarification Questions (2nd Round)	April 10, 2026
PSEG Long Island Responses to Clarifying Questions Published	April 17, 2026
RFI Response Submission Deadline	April 30, 2026, 5:00pm EPT

5.2 RFI Response Format

The sub-sections outlined in **APPENDIX A: RFI QUESTIONS** were developed to ensure responses received in this RFI are in a format that facilitates efficient review. PSEG Long Island requests that responses to this RFI conform to the sections and format outlined in **APPENDIX A**. If necessary, additional information may be included in other attachments.

APPENDIX B: RFI RESOURCE DATA WORKBOOK should also be populated as instructed therein and submitted as a separate attachment.

5.3 RFI Response Submittal and Questions

Responses and supporting attachments shall be submitted in an email to:

PSEG-LI-Non-EmittingResourcesRFI@psgliny.com

Please format the email subject line as "2026 Clean & Non-Emitting Resources RFI". Where possible, responses should be in Microsoft Word format for **APPENDIX A: RFI QUESTIONS** and in Microsoft Excel for **APPENDIX B: RFI RESOURCE DATA WORKBOOK**. If necessary, alternative standard formats, such as a searchable PDF is acceptable. Review of responses submitted to this RFI will be coordinated through the PSEG Long Island Power Systems Management department.

PSEG Long Island may, at its option, contact Respondents with additional questions or information requests. Additional action by PSEG Long Island related to this RFI is solely at PSEG Long Island's option, and as such, PSEG Long Island has no obligation whatsoever to address questions, comments, or

information requests related to this RFI after receipt of Respondents' responses.

Any questions or needed clarifications concerning this RFI should be sent to PSEG-LI-Non-EmittingResourcesRFI@psegliny.com. The last day to submit clarifying questions is listed on the RFI Target Schedule in **Section 5.1.** Emailed questions received after this date may not receive a response. PSEG Long Island will not respond to any questions received in-person, by mail, by fax, or by phone.

APPENDIX A: RFI QUESTIONS

A1. Organizational Background and Experience

a. Provide a brief outline of the Respondent's organization, its history, leadership, financial position, entities represented, and the products and/or services offered.

b. Highlight where the Respondent's organization has performed industry-specific work that is similar in nature to the potential technologies proposed to be deployed, with particular emphasis on implementation at other utilities, large municipalities, co-ops, or any other applicable facilities.

c. Provide a list of the renewable energy and non-emitting projects that the Respondent has developed (or is in the process of developing), including:

    i) the date such project(s) achieved commercial operation ("COD") (or if they have not achieved COD, the estimated COD)

    ii) the location

    iii) the technology type

    iv) the MW size

    v) the host utility

    vi) the buyer (if different from the host utility)

    vii) For EE and DR projects, MW size should be expressed in terms of load reduction achieved in both summer and winter peak periods

d. If the organization is interested in providing available property for lease for project development, provide the relevant information.

e. Describe any services that are assumed to be provided by LIPA or PSEG Long Island to facilitate and support implementation of the proposal, such as marketing, labor, equipment, and/or real property.

A2. Technology Overview

Respondents may choose to address any or all the technologies listed in **Section A3** below. In addition to answering questions specific to those technologies, as relevant, please provide the following for each technology reviewed:

a. Identify the technology and demand reduction, load shifting, or dispatchable functionality.

b. Customer segment served, if applicable.

c. Describe whether the technology has been implemented elsewhere and has been successful, tested, and proven, or is innovative. Please provide examples of prior experience that are

similar in nature and relevant to the proposed solution, with particular emphasis on implementation of the solution at other utilities, large municipalities, co-ops, or any other applicable facilities.

d. Provide the effective useful life of the technology.

e. Proposals must describe the solution's development stages applicable to its proposed technology, along with detailed information identifying the status of all projects in development. Proposals involving energy storage systems or demand response must state how many days per year (and hours per day) the solution could be called upon to support reliability needs.

f. Proposals involving electrical energy storage systems must clearly state:

    i) Any 24-hour operational limitations (e.g., can only charge 12AM - 8AM)

    ii) Whether the Company will be able to control charging and discharging schedules

    iii) Each system's interconnection information – i.e., interconnection point, interconnection voltage, interconnection queue number (transmission and/or distribution), network, and expected interconnection approval date to the extent known

    iv) Details about the system configuration and whether it is front of the meter, behind the meter, co-located with generation, or a hybrid storage resource.

g. Financial and Savings Information

Respondents must provide the Financial and Savings information set forth below. The requested information is intended to allow for the proper evaluation of the expected costs, savings, and overall economic viability of proposed non-emitting solutions.

Required elements for the Financial and Savings information include:

    i) Capital Expenditures

    May include, but are not limited to:

    - Anticipated costs of engineering and procurement
    - Permitting and siting
    - Interconnection or system upgrade costs
    - Installation labor and materials
    - Equipment procurement
    - Taxes
    - Administration and overhead
    - Other expenditures required to bring the project into service

Energy storage and dispatchable solution proposals should include estimated interconnection or service upgrade costs associated with connecting the asset to the LIPA transmission or distribution system consistent with applicable reliability standards, to the extent reasonably available.

ii) Ongoing Expenses

May include, but are not limited to:

- Technology operations and maintenance costs
- Lease or site control payments
- Insurance and taxes
- Equipment servicing or replacement components
- Other expenditures associated with maintaining system performance over the asset's lifetime

Energy storage system proposals should include electric distribution and supply charges associated with charging the system, along with any other operating expenses.

Respondents must provide a description and estimated duration of operations and maintenance costs.

iii) LIPA Financial Support

Respondents must identify the total amount and form of financial support requested from LIPA, if any, for the proposed solution under this RFI.

Respondents should assume proposals will be evaluated based on overall value to LIPA ratepayers and alignment with reliability and clean energy objectives.

If a proposal requires a specific payment structure or financial arrangement, respondents must describe that structure and identify it as a key assumption.

Any incentives or financial support expected from non-LIPA programs should also be identified as key assumptions.

iv) Other Revenue Streams

Respondents should identify estimated financial savings or revenues generated by the proposal, including where applicable at the individual site, customer, or project level.

Respondents are expected to optimize and account for non-LIPA revenue streams, tax credits, financial incentives, and other funding sources (Federal, State, or local) to reduce costs to LIPA customers and include supporting details as part of their submissions.

h. Information about environmental impacts, recyclability, other life-cycle considerations such as

toxicity and other material hazards (including fire), vulnerability to floods, extreme weather, and other externalities and non-cost impacts that may be relevant to the technology you are considering.

i. Information about the quantity in MW of the technology that might be deployed on Long Island within the next 20 years.

j. Track record of market acceptance, especially within utility programs (if applicable).

k. Site description and layout of sample projects.

l. Manufacturer and technical specifications as available.

m. Identify whether the technology will be located behind customer(s) electric meters, and if so, what are some of the barriers to soliciting customer participation.

n. To the extent possible, provide a customer acquisition strategy, if applicable, including a description of customer segment(s) served, targeted number of installations or customers, estimated energy savings/demand reduction per customer or installation, community engagement plan, and anticipated installation rate. Clearly indicate how the implementation plan and marketing strategies will support achieving customer acquisition and savings goals.

o. Schedule and timeline for project development, including key project milestones.

p. Include an understanding of potential schedule and timeline risks and propose mitigation strategies for schedule slippage, including but not limited to supply chain constraints and equipment availability.

q. Environmental and Disadvantaged Community impacts, both positive and negative (example impacts include GHG emissions, waste streams and management, job creation potential, visual or noise impacts).

r. If Respondent seeks an offtake contract with LIPA, describe the preferred form of contract or provide a sample contract. If Respondent intends to sell to LIPA under an existing or proposed tariff, identify the tariff arrangement and any proposed changes to LIPA's existing tariffs, if applicable.

s. Demonstration of technical and commercial feasibility, including any third-party evaluations or measurement and verification analyses.[7]

t. Compliance with, or deviation from, existing rules, regulations, permitting, and legal requirements. Identify and explain any aspect of the proposal that requires changes to or exemptions from current program rules or regulations. Additionally, identify and explain any rules, regulations, and processes that prevent a proposal from being dramatically expanded or accelerated.

u. What are the barriers to deployment of your preferred technology (e.g., technical, commercial, economic, regulatory, market, non-market)?

v. Any other relevant information that you deem appropriate and noteworthy that supports and

[7] Behavioral or operational solutions must account for customer participation rates in demand reduction estimates.

validates the proposed technology.

A3. Technology Implementation

Technology Implementation, as it relates to this RFI, refers to the process of taking a qualifying technology from selection through deployment and operation on LIPA's Transmission and Distribution ("T&D") System.

1) Large-Scale Solar + Energy Storage and Wind Generation + Energy Storage

a. What resources do you recommend LIPA procure?

b. What company(s) would be capable of developing these resources?

c. What would the project size be in MW?

d. When could the project achieve commercial operation?

e. Where specifically would the project be located, and are there any local permitting or other challenges associated with the potential locations?

f. Where specifically would the project be interconnected to LIPA's T&D system?

g. What assistance would the developer need from LIPA and PSEG Long Island to develop these projects?

h. What assistance would the developer need from the State to develop these projects?

i. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?

j. How are local regulations and zoning affecting the technology suggested?

k. Does the Respondent have site control of the location(s) needed to implement the project?

l. Does the Respondent have a queue position with the NYISO for the project?

m. Describe the following for storage components of recommended solutions:

   i) Chemistry

   ii) Storage duration. Full load discharge time should be at least four hours.

   iii) Any 24-hour operational limitations (e.g., can only charge 12 AM - 8 AM), and whether LIPA will be able to control charging and discharging schedules.

   iv) Round-trip efficiency monitoring requirements.

   v) Annual degradation rate. Discuss potential solutions to manage degradation.

2) Virtual Power Plant

A Virtual Power Plant ("VPP") is a network of small, distributed energy resources ("DERs") like residential solar PV, home batteries, EVs, and smart thermostats, or other smart appliances/controllers, coordinated by software to function as a single, large power plant that could

provide system load relief and reduce fossil fuel usage.

a. What data would a Respondent require from PSEG Long Island to develop a meaningful proposal?
b. Typically, how is the viability of a specific VPP determined?
c. Typically, what is the normal geographic area that a VPP would envelop?
d. How would the operation of a VPP be managed?
e. What is the reliability of the performance of a VPP?
f. What are the prospects for vehicle-to-grid solutions?
g. How do you propose to manage this structure among the participants and LIPA's point of control?
h. What would the optimal project size be in range of MW?
i. How much demand reduction would be achievable during peak load periods of 3 PM to 7 PM? Describe how potential solutions would demonstrate peak load reductions in a reliable and quantifiable manner.
j. If load shifting is envisioned, describe 24-hour demand impacts.
k. Would such resources be available in summer, winter, or year-round?
l. When could commercial operation, or in-service deployment (full or partial), be achieved? If a gradual installation rate is anticipated, describe an achievable installation rate.
m. What is the expected duration or term that such resources will be in effect?
n. Where on Long Island specifically could the VPP be located?
o. What company(s) would be capable of supplying and developing these resources?
p. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?
q. Quantify the incremental benefit in demand reduction, if applicable, to LIPA and PSEG Long Island in addition to existing participation in NYS energy programs (LIPA, NYISO, NYSERDA, etc.).
r. For resources located behind customer(s) electric meters, how will the measurement of demand reduction be done?
s. How will bidders demonstrate that the savings are incremental to what is already being achieved by existing NYS energy programs?
t. What type of customer incentives are needed to encourage participation?
u. Would the proposal make any assumptions regarding other state or federal incentives being available?

3) Energy Efficiency

Energy efficiency ("EE") is the use of less energy to produce the same amount of service or useful output, achieved through technological solutions that eliminate energy losses in existing systems. It

aims to maintain service levels while (i) reducing energy consumption, (ii) contributing to environmental benefits, and (iii) affording fuel cost savings.

a. What data would a Respondent require from PSEG Long Island to develop a meaningful solution?

b. Please provide your view on the potential beneficial impact of Energy Efficiency to the LIPA System.

c. What is a viable philosophy for how to implement Energy Efficiency on a system-wide scale?

d. What would the project's optimal size be in the range of MW during the summer and winter, and year-round MWh?

e. What level of demand reduction or load shifting could be achievable during peak load periods of 3 PM to 7 PM? Describe how potential solutions would demonstrate peak load reductions in a reliable and quantifiable manner.

f. When could commercial operation, or in-service deployment (full or partial), be achieved? If a gradual installation rate is anticipated, describe an achievable installation rate.

g. What company(s) would be capable of supplying and developing these resources?

h. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?

i. Respondents must provide details on a proposed project's current or planned participation in existing demand response and/or energy efficiency programs.

j. To the extent a solution is already under contract in an existing energy efficiency program, Respondent must explain how using the proposed solution will impact the Respondent's ability to meet its contractual commitments for the existing energy efficiency program (e.g., can the proposed solution offer load relief that satisfies requirements across programs).

k. Quantify the incremental benefit in demand reduction, if applicable, to LIPA and PSEG Long Island in addition to existing participation in NYS energy programs (LIPA, NYISO, NYSERDA, etc.).

l. Clearly communicate any calculations or assumptions used to estimate demand reduction and energy savings. All Excel-based calculations must be submitted in an unlocked workbook with all formulas and functions enabled and visible.

m. Use an existing condition baseline to calculate all savings from energy efficiency projects. Respondents are otherwise expected to use inputs and energy savings calculations from the latest New York State Technical Resource Manual ("TRM") version 13 for energy savings calculations for all measures included in the TRM. Any deviations from TRM calculations (other than baseline inputs) must be clearly noted and explained.

n. For resources located behind customer(s) electric meters, how will the measurement of demand reduction be done?

o. How will bidders demonstrate that the savings are incremental to what is already being achieved by existing NYS energy programs?

p. What type of customer incentives are needed to encourage participation?

q. Would the proposal make any assumptions regarding other state or federal incentives being available?

4) Demand Response (DR)

Demand Response ("DR") is a system where electricity customers temporarily adjust their power usage (reduce, shift, or sometimes increase) during peak grid stress or high prices, driven by economic incentives or reliability signals, to help (i) balance supply and demand, (ii) save money, and (iii) improve grid stability.

a. What data would a Respondent require from PSEG Long Island to develop a meaningful proposal?

b. Typically, what is the normal geographic area that a DR would envelop?

c. How would the coordination of resources within a DR be managed?

d. What is the turnover rate of participants in a DR program?

e. How would turnover rate within a DR program be managed by the Aggregator?

f. What would the optimal project size be in range of MW?

r. Would such resources be available in summer, winter, or year-round?

s. When could commercial operation, or in-service deployment (full or partial), be achieved? If a gradual installment rate is anticipated, describe an achievable installment rate.

g. What is the expected duration or term that such resources will be in effect?

h. What company(s) would be capable of supplying and developing these resources?

i. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?

j. How much demand reduction or load shifting could be achievable during peak load weekday periods of 3 PM to 7 PM? Describe how potential solutions would demonstrate peak load reductions in a reliable and quantifiable manner.

k. If load shifting is envisioned, describe 24-hour demand impacts.

l. Provide details on each proposed project's current or planned participation in existing demand response programs.

m. To the extent a solution is already under contract in an existing demand response program, Respondents must explain how using the proposed solution will impact the Respondent's ability to meet its contractual commitments for the existing demand response program (e.g., can the proposed solution offer load relief that satisfies requirements across programs).

n. Quantify the incremental benefit in demand reduction, if applicable, to LIPA and PSEG Long Island in addition to existing participation in NYS energy programs (LIPA, NYISO, NYSERDA, etc.).

o. Clearly communicate any calculations or assumptions used to estimate demand reduction and energy savings. All Excel-based calculations must be submitted in an unlocked workbook.

p. For resources located behind customer(s) electric meters, how will the measurement of demand reduction be done?

q. How will bidders demonstrate that the savings are incremental to what is already being achieved by existing NYS energy programs?

r. What type of customer incentives are needed to encourage participation?

s. Would the proposal make any assumptions regarding other state or federal incentives being available?

5) Distributed Energy Resources

Distributed Energy Resources ("DERs") are small-scale, local energy systems that use sources like solar, wind, or biomass and that are located near where power is used (homes, businesses) instead of large, central plants. The primary benefits of DER include (i) enhancing grid resilience, (ii) reducing transmission losses (iii) reducing fossil fuel usage, and (iv) enabling energy independence.

a. What data would a Respondent require from PSEG Long Island to develop a meaningful proposal?

b. Typically, what is the normal geographic area that a DER would envelop?

c. How would the coordination of resources within a DER be managed?

d. What is the reliability of performance of a DER?

e. What would the optimal project size be in range of MW?

f. Would such resources be available in summer, winter, or year-round?

t. When could commercial operation, or in-service deployment (full or partial), be achieved? If a gradual installment rate is anticipated, describe an achievable installment rate.

g. What is the expected duration or term that such resources will be in effect?

h. Where on Long Island specifically would DERs be most beneficial?

i. What company(s) would be capable of supplying and developing these resources?

j. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?

t. How much demand reduction or load shifting could be achievable during peak load periods of 3 PM to 7 PM? Describe how potential solutions would demonstrate peak load reductions in a reliable and quantifiable manner.

u. If load shifting is envisioned, describe 24-hour demand impacts.

k. If a relevant project exists or is planned, provide details on the project's current or planned participation in existing demand response and/or distributed energy resource programs.

l. To the extent a solution is already under contract in an existing demand response program, Respondents must explain how using the proposed solution will impact the Respondent's ability to meet its contractual commitments for the existing demand response program (e.g., can the proposed solution offer load relief that satisfies requirements across programs).

m. Quantify the incremental benefit in demand reduction, if applicable, to LIPA and PSEG Long Island in addition to existing participation in NYS energy programs (LIPA, NYISO, NYSERDA, etc.).

n. For resources located behind customer(s) electric meters, how will the measurement of demand reduction be done?

o. How will bidders demonstrate that the savings are incremental to what is already being achieved by existing NYS energy programs?

p. What type of customer incentives are needed to encourage participation?

q. Would the proposal make any assumptions regarding other state or federal incentives being available?

6) Other Non-Emitting Generation Resources

Please discuss any other Non-Emitting Generation Resources[8] that could enhance the reliability of the LIPA Electric System, while at the same time supporting the goal of a zero-emissions future grid for Long Island and New York State as a whole.

a. What data would a Respondent require from PSEG Long Island to develop a meaningful proposal?

b. What would the optimal project size be in range of MW?

c. Would such resources be available in summer, winter, or year-round?

d. When could commercial operation be achieved? If a gradual installment rate is anticipated, describe an achievable installment rate.

e. How much demand reduction/energy production would be achievable during peak load periods of 3 PM to 7 PM? Describe how potential solutions would demonstrate peak load reductions and/or energy production in a reliable and quantifiable manner.

f. If load shifting is envisioned, describe 24-hour demand impacts.

g. What is the expected duration or term that such resources will be in effect?

h. Where on Long Island specifically would these technologies be most beneficial?

i. Where specifically would they be interconnected to LIPA's T&D system?

j. What company(s) would be capable of supplying and developing these resources?

k. What are the barriers to deployment (e.g., technical, commercial, economic, regulatory, market, non-market)?

l. Identify any mitigation strategies for risks, challenges, and barriers to implementation of the solution (customer acquisition, site, community engagement strategies, Company program or process design, permitting, construction, procurement, and operations & maintenance.

[8] According to the PSC, "For these purposes, resources that qualify as "zero emissions" under the Commission's determinations in Case 15-E-0302 may be considered "non-emitting."" See footnote 17, p.16 of Reliability Contingency Plan Order at https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={C096329B-0000-C82A-9138-596187178BF3}&DocTitle=Order%20Initiating%20Proceeding%20and%20Directing%20Reliability%20Contingency%20Plan

m. Quantify the incremental benefit in demand reduction, if applicable, to LIPA and PSEG Long Island in addition to existing participation in NYS energy programs (LIPA, NYISO, NYSERDA, etc.).

n. For resources located behind customer(s) electric meters, how will the measurement of demand reduction be done?

o. How will bidders demonstrate that the savings are incremental to what is already being achieved by existing NYS energy programs?

p. What type of customer incentives are needed to encourage participation?

q. Would the proposal make any assumptions regarding other state or federal incentives being available?

r. Describe non-energy benefits associated with the proposed solution and quantify where possible.

A4. Proposed Procurement Schedule

If LIPA elects to issue one or more RFPs for resources after it analyzes the responses to this RFI, it plans to allow approximately three (3) months for proposal development and up to four (4) years between selection and project COD.

a. Is the time provided for developing proposals too short, too long, or sufficient to allow for preparation of a response?

b. Is the time between selection and expected COD date adequate for the permitting, procurement, and development of the project(s) you are contemplating?

APPENDIX B: RFI RESOURCE DATA WORKBOOK

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