

Proposer - Project	Proposal #
<u>Applied Energy Group - South Fork Load Reduction Resources</u>	AEG100
<u>AES Generation Development - AES South Fork</u>	AES100
<u>Anbaric Microgrid II LLC - South Fork Microgrid</u>	ANB100
<u>Baseload Power Corp - Montauk Flow Battery Storage</u>	BPC100
<u>Convergent Energy + Power - Bridgehampton and Montauk Project</u>	CON100
<u>Deepwater Wind LLC - Deepwater One South Fork</u>	DWW100
<u>Deepwater Wind LLC - Wainscott Storage</u>	DWW200
<u>Deepwater Wind LLC - Montauk Storage</u>	DWW300
<u>EnergyHub Inc. - South Fork Direct Load Control</u>	ENH100
<u>FuelCell Energy Inc - Southampton Fuel Cell</u>	FCE100
<u>Green Charge Networks - Peak Relief Services</u>	GCN100
<u>Halmar - South Fork Mobile Energy Storage Solution</u>	HAL100
<u>Landis+Gyr - South Fork Demand Management Phase I/II</u>	LAN100
<u>LI Energy Storage System - Montauk Energy Storage System</u>	LIE100
<u>LI Energy Storage System - Deerfield Energy Storage System</u>	LIE200
<u>LI Energy Storage System - Southampton Energy Storage System</u>	LIE300
<u>LI Energy Storage System - East Hampton Energy Storage System</u>	LIE400
<u>Nextera Energy - South Fork Thermal Energy Storage</u>	NEX100
<u>RES America Developments - South Fork Mobile Energy Storage Solution</u>	RES100
<u>SolarCity Corporation - South Fork Distributed Energy Resources</u>	SOL100
<u>Stem, Inc - South Fork Behind-the-Meter Energy Storage</u>	STM100
TOTAL Clarifying Questions	

TOTAL CQs	NEW, UNSENT CQs	Last Date of Response
16	0	6/17/2016
36	0	6/16/2016
64	0	6/6/2016
70	0	3/17/2016
20	0	2/22/2016
42	0	6/20/2016
40	0	2/22/2016
42	0	2/22/2016
17	0	2/29/2016
42	0	5/9/2016
34	0	6/1/2016
30	0	6/14/2016
23	0	2/23/2016
30	0	6/13/2016
24	0	5/31/2016
25	0	5/31/2016
32	1	5/31/2016
32	0	6/17/2016
46	0	2/8/2016
4	0	
34	0	2/26/2016
703	1	

Semi Finalist?

Yes

Yes

Yes

No

No

Yes

No

No

Yes

Yes

Yes

Yes

DQ

Yes

Yes

Yes

Yes

Yes

No

DQ

No

**Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions**

Primary Contact(s): Joseph Rocco (jrocco@appliedenergygroup.com)
Respondent: Applied Energy Group
Proposal: South Fork Load Reduction Resources

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/21/2015	Pricing One year delay	Where in your proposal is pricing discussed for a one-year delay in pricing as required by RFP Section 2.2.1 and 3.2.3? Please note that PSEG Long Island/LIPA cannot accept any pricing adjustments that are specified after the time of the Proposal Submittal Date.	1/6/2016	AEG's proposed pricing is fixed for the specified period - there is no difference in price to address a one year delay.	1/6/2016	none
2	12/21/2015	Pricing of pass through costs	On page 12, the Respondent's proposal mentions that installation of load reduction devices will be essentially pass through costs for the material costs, and labor, associated with the various methods for installation of a load control devices or efficiency measures. These costs vary by sector, control device, or installation methodology, but specific prices or even a range of prices are not given. Please provide a complete list of the pass-through costs and an estimate for their costs.	1/6/2016	The costs for all materials, labor and operations/management of the proposed scope of work is delineated in AEG's cost proposal sheet submitted with the proposal. In order to clarify the specific costs for items as requested, we provide additional detail and material lists in the referenced spreadsheets including cell references back to an edited version of original cost proposal where these costs can be found, also provided.	1/6/2016	refer to the spreadsheet titled "response to SFRFP Q2.xlsx" and "edited.AEG cost proposal.xlsx"
3	12/21/2015	Development Plans	On August 10, 2015, the Appendix A of the RFP was amended to update the description of the Load Reduction areas on the South Fork. Therefore, please specifically identify which sub-areas (i.e. between boundaries A, B, and C) specified in Appendix A, Section A6, where the Proposal will deliver its load reduction.	1/6/2016	AEG intends to deliver load reduction resources throughout the entire South Fork distributed in sub-areas based on population density. As indicated on page 52 of our proposal, we estimate that 989 kw will be provided in the Eastern Area - east of Boundary A as defined in Appendix A of the RFP; and 7.25 MW - between Boundary A and B as defined on page 18, Section 3.2.6 and page 57, Section A6 of the RFP. Note that neither of these area descriptions reference Boundary C. Also note that the redline version of the RFP as posted to the website does not indicate an amended issue date of August 10 [see cover page transaction history] and that there are no redline edits on page 57 showing such amendments. If further clarification is desired, please provide a clearer definition of the areas in question.	1/6/2016	none
4	12/21/2015	Executive Summary and Datasheets	Per the Proposal's Executive Summary "providing PSEG LI approximately 8 MW of load reduction resources in the residential and small commercial market by the requested Commercial Operation Date with more than 2 MW anticipated to be installed by the May 2017 Commercial Operation Date." Per the datasheet COD is mentioned as "May 1, 2017, with full commitment by May 1, 2019." Please clearly identify how many MWs of load reduction are anticipated to be available by May 1, 2017, May 1, 2018, and May 1, 2019.	1/6/2016	Refer to the pricing spreadsheet where Year 1, 2, and 3 are identified. Year 1 resources are proposed to be delivered by May 1, 2017 assuming an expeditious approval and contracting process allowing for at least 6 months of lead time. We propose to achieve 3.1 MW of installations by this Year 1 date. Note that Year 1 is a condensed timeframe that spans between contract notification/award and the May 1, 2017 COD. Additional resources of 2.6 MW are anticipated in Year 2 which is defined as May 1, 2018. The full commitment of 8.23 MW is expected by the Year 3 COD of May 1, 2019.	1/6/2016	refer to the spreadsheet titled "edited.AEG cost proposal.xlsx" where year 1-3 targets are now highlighted [cells AF13 AH13]

**Appendix TBD
PSEG Long Island**

Proposal: AES South Fork

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	Section 4.15 Developer Attachment Facilities Plan	<p>We acknowledge the Arrays will interconnect to the LIPA distribution network via a dedicated 13 kV radial feeder to each associated substation as mentioned in Proposal Section 4.15.</p> <p>As required by RFP Section 3.2.3, please provide the cost of the DAF arrangements and confirm the cost of either arrangement would be recovered through the capacity pricing and that no other facilities are envisaged.</p>	1/6/2016	<p>The projected cost for Developer Attachment Facilities for each of the 3 energy storage Arrays in the AES South Fork Project are as follows</p> <ul style="list-style-type: none"> - AES Montauk Array \$ [REDACTED] or 0.5 mile underground dedicated radial feeder, [REDACTED] resource sited facilities) - AES East Hampton Array [REDACTED] for 500 foot underground dedicated radial feeder, [REDACTED] 0 for resource sited facilities) - AES Southampton Array [REDACTED] for 1 mile underground dedicated radial feeder, [REDACTED] 0 for resource sited facilities) <p>The cost of the Developer Attachment Facilities will be recovered through AES's proposed capacity payments. No other Developer Attachment facilities are envisaged.</p> <p>This information can also be found in the Appendix B of AES's proposal, an excel spreadsheet titled, "Detailed Pricing." Please note that there is a typo in Appendix B for the AES East Hampton Array. The correct Developer Attachment Facility cost information for the AES East Hampton Array should read, "[REDACTED] 500 foot underground dedicated radial feeder..." as indicated here.</p>	1/4/2016	Not applicable.
2	1/20/2016	Section 4.5 Evidence of Community Support	<p>As stated in Section 4.5, page 31 of the proposal Appendix G should contain the signed letters of property owners. However, the electronic files in Appendix G only contain the project schedules. As required in Section 3.2.5 Development Plans and Schedule; Evidence of Community Support, please provide the letters.</p> <p>The Respondent also mentions discussions with town planners from the Town of East Hampton. Please provide evidence of such discussion or other community support. It can be in the form of correspondence from local elected officials and community groups.</p>	1/27/2016	<p>Signed letters of intent (LOI) from the property owners for each of the three proposed sites for the AES Southfork Project are included in Appendix H of the proposal. Section 4.5 of AES' proposal contains a typo in the second to last sentence of this section. The sentence should read, "Finally, the Respondent has received three signed Letters of Intent by local property owners to host the Project as included in Appendix H."</p> <p>AES does not have any additional evidence related to the discussions between AES representatives and the Town of East Hampton planner beyond what was presented in the Proposal.</p>	1/27/2014	Not applicable.
3	1/20/2016	Section 8.2 Operational Modes and Supported Applications	<p>As required in RFP Section 3.2.9 Resource Performance please provide a description of "any limitations to real and reactive power capability during undervoltage conditions."</p> <p>The only limitation described was in Section 8.2 pg. 46 under Renewable Ramp Limiting and Isochronous Operation. The description should include the terminology used in the requirement stated above.</p>	1/27/2016	<p>The inverter can provide full real and reactive power up to [REDACTED] voltage. Below this real and reactive power will be derated.</p>	1/27/2014	Not applicable.
4	1/20/2016	Section 8.2 Operational Modes and Supported Applications	<p>As required in RFP Section 3.2.9 Resource Performance please provide a description of " any known performance limitations that may occur during undervoltage conditions, where voltage drops below [REDACTED]."</p> <p>The only limitation described was in Section 8.2 pg. 46 under Renewable Ramp Limiting and Isochronous Operation. The description should include the terminology used in the requirement stated above.</p>	1/27/2016	<p>See Figure included on "Backup" tab. Control power is backed up so that there are no known issues with control power during under voltage conditions within the ranges identified.</p>	1/27/2014	See backup sheet in SFRFP Clarifying Questions For AES 2016-01-22 - AES Response 2016-01-27_0010.xlsx
5	1/20/2016	Section 8.3 Compliance Validation and Short Circuit Characterization	<p>As required in RFP Section 3.2.9 Resource Performance please provide a " description of the approach and simulation tools that will be used to validate compliance with the specified resource s dynamic performance."</p> <p>Section 8.3, pg. 47 states that the Respondent will perform this requirement but does not describe how.</p>	1/27/2016	<p>AES will supply a Siemens PTI PSS/E model of the Advancion resource including the inverter. Electromagnetic transient models will be implemented in PSCAD v4.2 or later. The control characteristics and dynamic behavior of the Advancion resource in response to balanced and unbalanced voltage, phase, and frequency disturbances with up to 1kHz bandwidth of simulation validity will be provided. An averaged power converter model may be used instead of a switching and if so validity will be established.</p>	1/27/2014	Not applicable.
6	1/20/2016	Section 8.3 Compliance Validation and Short Circuit Characterization	<p>As required in RFP Section 3.2.9 Resource Performance please provide a "description of the approach that will be taken to define the detailed short-circuit contribution characteristics of the resource, in both phase and sequence component formats."</p> <p>Section 8.3, pg. 47 states that the Respondent will perform this requirement but does not describe how.</p>	1/27/2016	<p>AES will develop short circuit characterization in accordance with the requirements outlined in Appendix B16.4. Short Circuit Characterization.</p>	1/27/2014	Not applicable.
7	1/20/2016	Section 11.7.1 Controls	<p>According to Proposal Section 11.7.1, pg. 58, the control system records all system data but does not specifically use the terminology "sequence of events".</p> <p>As required in RFP Section 3.2.12.7 Controls and Protection, please provide "information about all events that will be monitored and an explanation of how sequence of events will be recorded."</p>	1/27/2016	<p>Each [REDACTED] data points via the SCADA system to comprehensively monitor and record the sequence of events related to the system's operation. Alarms can be created for any point as appropriate and required by PSEG LI and/or LIPA. Please see attached pdf document titled, "AES South Fork Advancion DCS Data Points Overview," for additional detail.</p>	1/27/2014	Attached pdf document, "AES South Fork Advancion DCS Data Points Overview"
8	1/20/2016	Section 12 Design Studies	<p>Section 12, pg. 60; indicates when reports will be provided but does not indicate when the data from PSEG LI is required.</p> <p>According to RFP Section 3.2.13 Design Studies, please provide information "...indicating when data from PSEG Long Island is required".</p>	1/27/2016	<p>In order to meet the proposed 2018 COD for AES Southfork, AES must file a completed Interconnection Request application form through the LIPA Small Generator Interconnection Procedures by approximately June 24, 2016. LIPA will provide AES a list of information required to complete the application including technical requirements, specifications, qualified type-tested equipment / systems, and metering requirements following initial inquiry by AES. AES will make this inquiry immediately following award notification by PSEG LI. AES will provide a list of required information to PSEG LI no later than June 1, 2016 and will require response from PSEG-LI no later than approximately June 17th in order to complete the application form. AES plans to follow this same schedule if selected for the proposed alternate 2019 COD for AES Southfork. However, the date information is required from PSEG LI could be pushed back if required.</p>	1/27/2014	Not applicable.
9	1/20/2016	Section 13 Factory Tests	<p>According to RFP Section 3.2.14 Factory Tests, "Proposal includes description of the scope and extent, and the approximate schedule, of the power transformer factory tests."</p> <p>Please provide the information as stated in the requirements listed above.</p>	1/27/2016	<p>Power transformer factory tests will be conducted in accordance with IEEE C57.12. The time required to conduct factory tests is built in to the project schedules in Appendix G as indicated in the Aux/BSC Transformer and Main Power Transformer tasks. See attached PSEGLI Transformer Specification document for additional detail.</p>	1/27/2014	Attached pdf document, "AES Southfork Transformer Specification"

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PSEG Long Island

Proposal: AES South Fork

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer Proposer's Response	By Proposer Date of Response	By Proposer Supplemental Documentation, if any
10	1/20/2016	Various	<p>According to RFP Appendix A Load Reduction Specifications & Other Background Information, A5 Voltage Ride-Through Capability; "Any load reduction achieved using photovoltaic (PV) generation or electrical energy storage shall use inverters that have voltage ride-through capabilities compliant with California Public Utility Commission Electric Tariff Rule 21, Section H.1.a.(2) and Table H.1. Inverters shall be tested and certified by Underwriter s Laboratory for compliance with these requirements."</p> <p>In the Proposal, there are many references to Voltage Ride-Through Capabilities Section 8.2, pg. 45; Section 11.1.1, Figure 22, pg. 52 and Section 11.1.5, Figure 25, pg. 55. Please confirm that voltage ride-through capabilities meet CPUC Rule 21 as stated in the requirement above.</p>	1/27/2016	AES Southfork's voltage ride-through capabilities meet the requirements of CPUC Rule 21.	1/27/2014	Not applicable.

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Clarifying Questions

Primary Contact(s):	Dirk van Ouwerkerk (dvanouwerkerk@anbaric.com)
Respondent:	Anbaric Microgrid II LLC
Proposal:	South Fork Microgrid

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/21/2015	Development Plan and Schedule 3.2.5 (Fuel Supply Schedule)	<p>On page PDF page 80 of 164, the Proposal states</p> <p>"The fueled generators in the proposed microgrid are being designed to run on compressed natural gas (CNG) due to unavailability of pipeline gas around the sites being considered. Alternatively, the use of liquefied propane gas (LPG) is also being considered for the assets. In both cases, the fuel would be delivered to a site on trailers. The design of each site will accommodate two days (16 hours at full load) of fuel stored at that site and connected to the units. Fuel will be stored in the delivery trailers or alternatively in permanent tanks. Fuel conditioning equipment will be provided for operation at full load.</p> <p>Anbaric is currently in discussions to obtain a long term fuel supply agreement with a CNG supplier to procure and provide a steady flow of fuel for the sites along with drivers for delivery and connection of trailers."</p> <p>Please confirm that the Respondent is responsible for fuel costs. For example, there is no pass through costs for fuel.</p>	1/6/2016	Correct. Respondent is responsible for fuel costs.	1/6/2015	

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater One South Fork

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/8/2015	Pricing	<p>Please provide new memory sticks with all proposal documents to PSEG-LI and Sargent & Lundy. We discovered that Appendices 1-3, 1-4, 1-5, and 1-6 are missing. Also, the following files are corrupted and cannot be opened</p> <p>--\$ List of Appendixes with numbers.docx --\$p 2-X BOEM Lease #OCS-A 0486.docx --\$p 3 - X Deepwater ONE O&M Plan.docx</p> <p>Please confirm that everything else is included and not corrupted.</p> <p>Sargent & Lundy's copy can be sent to</p> <p>Doug Edgar Sargent & Lundy 55 E Monroe St. Ste. 2700 Chicago, IL 00603-5780</p> <p>The files must be consistent with the hard copy version in order to be accepted.</p>	12/11/2015	<p>Letter from Clint Plummer on 12/11/2015 states</p> <p>In response to your email of December 8, 2015, Deepwater Wind Submits the enclosed three memory sticks containing all files for our Deepwater ONE South Fork proposal, our Deepwater Wind Montauk Storage proposal and our Deepwater Wind Wainscott Storage proposal, respectively.</p> <p>We carefully reviewed each of the documents on these memory sticks and hereby confirm that all files are included and not corrupted.</p>	12/11/2015	3 Memory sticks provided via mail i.e. FedEx.
2	12/21/2015	Resource Overview	Please provide an Excel version of RFP data sheets.	1/6/2016	Deepwater provides two data sheets for our Offshore Wind proposal (i) a "Peaking Generation Datasheet" with the details of our proposed wind turbines, submitted as Appendix 2-8; and (ii) a "Renewable Datasheet" for wind, submitted as Appendix 2-9. MS Excel versions of both datasheets are provided as attachments to the same e-mail containing this Clarifying Questions spreadsheet. The spreadsheets are titled "App 2-8 Deepwater ONE - Project Data Sheet.xls" and "App 2-9 Deepwater ONE - Renewable Data Sheet - wind.xls" respectively.	1/5/2016	Two MS Excel spreadsheets via e-mail
3	12/21/2015	Developer Attachment Facilities	The Proposal states that Developer Attachment Facilities Plan will require a capital investment of [REDACTED]. Please confirm the proposal [REDACTED] will be recovered through the capacity price as required by Section 3.2.3 of the RFP.	1/6/2016	Deepwater hereby confirms that the cost of the Developer Attachment Facilities will be recovered through the capacity price, as stated in Section 1.1.5 of our Proposal.	1/5/2016	N/A
4	12/22/2015	1.1.7 Other Pass-Through Costs	<p>We note that the Proposal states on Page 13 that "Deepwater assumes the availability of the federal Investment Tax Credit ("ITC") for wind energy projects. Deepwater is confident that sufficient popular and political support exists to ensure the availability of an extension of the ITC for wind energy projects. If the Project is unable to receive the benefit of an ITC, Deepwater will increase the cost of the delivered energy by [REDACTED]."</p> <p>Which pricing condition applies to your proposal, taking into consideration the Appropriations Act signed into law on December 18, 2015?</p>	1/6/2016	<p>Deepwater ONE – South Fork (D1-SF) is eligible to receive an ITC under the Consolidated Appropriations Act. Under this new law, the amount of the ITC available to wind projects now declines every year after 2016 and is not available to projects commencing construction after 2019. D1-SF is uniquely positioned to receive an ITC because the development work completed to date enables the project to qualify for the ITC, provided that Deepwater Wind continues to invest in project development activities and a PPA for this project is completed at earliest convenience.</p> <p>As detailed in Section 3.1, our Proposal assumed that the D1-SF project would receive a fully-approved PPA from LIPA by December 15, 2016. In consideration of the change in federal tax policy established in the new law, we hereby confirm that if LIPA enters into an effective, fully-approved, un-appealable PPA with the D1-SF project by December 15, 2016, the price for the Products will be as follows</p> <ul style="list-style-type: none"> • No change in the 1st year Summer UCAP price of [REDACTED] kW-month, with a [REDACTED] escalator; • No change in the 1st year Winter UCAP price of [REDACTED] kW-month, with a [REDACTED] escalator; • No change in the 1st year energy price of [REDACTED] / MWh, with a [REDACTED] escalator; and • No Pass-Through costs associated with the ITC. <p>Delaying the receipt of a PPA until after December 15, 2016 will result in an increase to the Project's pricing due to the continued step down in the new ITC law. Based on this step-down, Deepwater offers the following pricing proposal in the event LIPA enters into an effective, fully-approved, un-appealable PPA after December 15, 2016 but by or before December 15, 2017</p> <ul style="list-style-type: none"> • 1st year Summer UCAP price of [REDACTED] kW-month, with a [REDACTED] escalator; • 1st year Winter UCAP price of [REDACTED] kW-month, with a [REDACTED] escalator; • 1st year energy price to [REDACTED], with a [REDACTED] escalator; and • No Pass-Through costs associated with the ITC. <p>By entering into a PPA with the D1-SF project by December 15, 2016, LIPA can ensure that its ratepayers receive the maximum benefit of the ITC.</p>	1/5/2016	N/A

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Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater One South Fork

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5	2/1/2016	2.3.3. Electrical Systems	We acknowledge specific performance characteristics of the Export Facility will be developed in consultation with LIPA and PSEG during the NYISO interconnection process. Per RFP section B3, System Dispatch and Bidding, please provide all information necessary to allow PSEG Energy Resources and Trade to bid the plant into the NYISO. Additionally, please confirm Deepwater Wind will provide all information required by the NYISO.	2/4/2016	Deepwater hereby confirms that we will provide PSEG ER&T all information required to bid the Deepwater ONE South Fork (D1-SF) facility into the NYISO. Additionally, Deepwater hereby confirms that the D1-SF facility will provide all information required by the NYISO. Details regarding these information requirements will be provided as part of a study, which will commence after award of a PPA.	2/4/16	
6	2/1/2016	3.9.3. Storm-Resistant Features	Per RFP section B4.5, Environmental Conditions, the environmental conditions used for design and performance calculations shall be no less severe than the values listed in Table B4-1. Please confirm compliance to all requirements in Table B4-1 from the RFP and if this is explained in the proposal.	2/4/2016	Confirmed. As described in Section 2.3, the D1-SF facility will consist of three major component systems (i) wind turbine generators (WTG's), for which the GE Haliade 150 is the design basis; (ii) offshore foundations, for which the same jacket-type foundations used for our Block Island Wind Farm (BIWF) are the design basis; and (iii) electrical collection, transmission and interconnection systems. Each of these systems are or will be designed to meet the Environmental Conditions of Table B4-1. The WTG's environmental design characteristics are described in <u>Appendix 2-4</u> of our proposal and include <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <ul style="list-style-type: none"> - Avg annual rainfall N/A for ocean environments - Extreme rain fall N/A for ocean environments - Ice load GE calculates for ice load cases using a thickness of 30 mm (1.18"), following GL s guideline ([4] Germanischer Lloyd – Wind Energy rules and guidelines. Chapter 4 Loads. Edition 2010. The ice load case calculated following GL s guideline is not a design driver for the Haliade. - Max snow depth N/A for ocean environments - Max frost depth N/A for ocean environments <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <ul style="list-style-type: none"> - Flood preparation N/A for ocean environments <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div> <div style="background-color: black; width: 100%; height: 1.2em; margin-bottom: 0.2em;"></div>	2/4/16	

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Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater One South Fork

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7	2/1/2016	Appendix 2-5 GE Haliade DST-0591	Per RFP section B5.3, Temporary Voltages and Frequencies, for the temporary operating conditions specified in Table B5-3, Power Production resources shall be designed to withstand these conditions without damage or loss of availability, and shall remain functional. We acknowledge voltage and reactive power parameters are provided in Appendix 2-5 GE Haliade DST-0591 of the proposal. Please confirm compliance to Table B5-3 from the RFP and if this is explained in the proposal.	2/4/2016	<p>Confirmed. The D1-SF project will comply with the requirements of Table B5-3. Details are as follows</p> <p>1. The WTGs will comply with the temporary voltage range requirement, [REDACTED]</p> <p>2. The D1-SF project will comply with the short-term voltage range (positive sequence component) (See Figure B5-1).</p> <p>For the Lower Limit -> The WTGs will comply with LVRT requirements - reference DST 0591 Fig 5 and Table6 in DST 0591. For the Upper Limit -> The WTG is designed to withstand maximum voltage of [REDACTED]. The balance of plant equipment will be designed to meet the requirements [REDACTED]</p> <p>Note that LVRT and HVRT capability are on the LV side of the WTG.</p> <p>3. The WTG will comply with the maximum short-term negative sequence requirements. The phase voltage is monitored for the LVRT and HVRT capability. For both symmetrical and asymmetrical faults the WTG will have the same triggering values for voltage. Same comment as above.</p> <p>4. The WTG will comply with the temporary frequency excursion requirements. GE continuous [REDACTED] Table1 in DST 0591. Moreover WTG provides grid support for frequency control - reference DST 0614.</p> <p>5. The WTG will comply with the maximum rate of change for frequency – df/dt 0.25 Hz per second, which is the requirement for the ramp of frequency grid change that the WTG has to withstand, from Figure B5-3.</p>	2/4/16	Revision #05 of DST-0591
8	2/1/2016	Appendix 2-5 GE Haliade DST-0591	Per RFP section B7.1, Site Continuous Power Capacity, at voltage levels less than 0.95 p.u. of nominal, each Power Production resource shall be capable of delivering real current (current in phase with the voltage) equal to the real current required to deliver rated power at 0.95 p.u. voltage. We acknowledge the P-Q and U-Q Curves were provided in Appendix 2-5 GE Haliade DST-0591 of the proposal. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	2/4/2016	<p>Confirmed. In periods when grid voltage levels are below [REDACTED] the D1-SF project will be capable of delivering reactive power [REDACTED] provided, however, that as an wind generator, the active power (P) will be subject to the available wind resource at that time.</p>	2/4/16	
9	2/1/2016	Appendix 2-5 GE Haliade DST-0591	Per RFP section B7.2, Reactive Power Capacity, each Power Production resource shall have a continuous reactive power capacity, variable over the range between the lagging and leading values specified in Table B7-1 at all levels of real power, from zero up to and including the rated power capacity. This reactive power capacity shall be available at all times when in the Standby, Transmission Support, and optional Isolated modes. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	2/4/2016	<p>Confirmed. The WTG's are designed to the following performance requirements. The balance of plant equipment will be designed to meet the requirements of Table B7-1.</p> <p>[REDACTED]</p>	2/4/16	

Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s):	Erika Diamond (diamond@energyhub.net)
Respondent:	EnergyHub, Inc.
Proposal:	South Fork Direct Load Control

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	3.2.2 Executive Summary	In the Executive Summary, the Proposal states "This solution is estimated to deliver approximately 3.8 MW of capacity over 10 years (with an option to renew)" However, no pricing is specified. Will the pricing for the renewed period remain the same as in the initial 10 years?	1/6/2016	Pricing may change at that time as new technologies will be on the market to replace assets provided in the early years of the project.	1/6/2016	
2	12/22/2015	Date Input Workbook	Even though this is not directly connected to the distribution system, please complete the data input workbook.	1/6/2016	See attached	1/6/2016	See attached From email... Also we have made several assumptions listed here Columns N-Y - our RFP response indicates the level of savings customers will see from the use of a connected thermostat. We did not include here as we have not included that as part of our bid Columns Z-AK - we have placed in here the same kW of load shed per customer per month during the delivery season. We know that these can differ based on monthly usage. If you will allow us we would be happy to further refine, but we were under the impression this was not acceptable for this RFP response. Columns AV- BE - these are estimates Columns CE- CS - these costs include the cost of thermostats and their installation. In many programs this is considered an incentive, and we consider it so, but have included here as per your instructions. Columns CU-DD - non-monetary incentives are also being provided to customers Columns DJ-DS - we have separated out our subcontractor costs here. As we proposed to deliver either just central AC/pool pumps OR central AC/pool pumps AND window ACs we wanted to call this out. EI-GF - we assumed that these columns applied to a commercial resource (e.g. our customers do not have "hours of operation" per se.) GQ - Our Firm Load Dispatch algorithm, used to call load to meet capacity commitments, ensures that load reduction is distributed evenly throughout the event. This maximizes our recognized reduction delivered while reducing snapback, which is exacerbated by reduction unevenly distributed throughout the event. GX-HB - assumed this is maximum number of hours the resource is available per month HJ-HN - again assumed that this amount could not differ between months as per the RFP. If we can modify this to account for monthly differences, we are happy to provide more granular numbers.
3	12/22/2015	N/A	On August 10, 2015, the Appendix A of the RFP was amended to update the description of the Load Reduction areas on the South Fork. Therefore, please specifically identify which sub-areas (i.e. between boundaries A, B, and C) specified in Appendix A, Section A6, where the Proposal will deliver its load reduction.	1/6/2016	The project focuses on the entirety of the Load Reduction areas A, B and C.	1/6/2016	
4	1/20/2016	N/A	Per RFP Section 3.2.5, the Proposal must include evidence of community support, which can be in the form of correspondence from local elected officials and community groups. Please provide such information or identify where information is included in the proposal.	1/25/2016	Because we work with individual households and our program does not include large scale construction like a natural gas plant or utility scale solar project might, we have not traditionally needed community support. We assumed that this section did not apply to DR as per the Q&A. We are more than happy to work with community leaders across the South Fork if that is a necessary component of the project.	1/25/2016	

Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Carl Williams (cwilliams@fce.com)
Respondent: FuelCell Energy Inc
Proposal: Southampton Fuel Cell

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/8/2015	ALL	We have the following request regarding the FuelCell Energy proposal that was submitted for the South Fork RFP The flash drive provided by the Respondent did not contain electronic file(s) of the proposal. The flash drive contained only the appendices. Please provide all electronic files pertaining to the proposal. The files must be consistent with the hard copy version in order to be accepted.	12/11/2015	Email on Dec 15th from Carl Williams states Good morning. Attached you ll find an electronic copy of the files for your review. We ve also sent a flash drive copy for Weds delivery to Gracia DeSilva s attention. Again, our sincere apologies for the oversight and appreciate your giving us the opportunity to rectify.	12/15/2015	See file "PSEG LI South Fork Proposal 12 2 2015 Final.pdf"
2	12/22/2015	3.2.3 Pricing	We note that the Proposal states on Page 11 that "should the associated [ITC] incentives be extended for an additional time period, FCE would offer the same pricing inclusive of a one year delay in COD adjusted for then current fuel costs as applicable and an adjustment in the capacity component to reflect change in the Producer Price Index from planned COD to delayed COD. Without the extension of the [ITC/MACRS] incentives the pricing would be [as shown in Table 2]. Which pricing applies, taking into consideration the Appropriations Act signed into law on December 18, 2015?	1/6/2016	The Consolidated Appropriations Act of 2016 was passed with an inadvertent error which only extended tax credits for solar technology rather than all the technologies currently eligible under the Section 48 Investment Tax Credit. The Bipartisan House and Senate Leadership have committed to correct the error via an amendment in the first appropriate bill in 2016. FCE fully expects the provisions of the Appropriations Act to apply to fuel cells in 2016. As a result FCE is prepared to offer pricing as indicated in Table 1.	1/6/2016	N/A
3	2/1/2016	3.2.1 Cover Letter	According to RFP Section 3.2.1 Cover Letter, the cover letter is signed "...by the individual(s) that are duly authorized by the Respondent to make a binding offer to LIPA." In proposal Section 3.2.1, pg.6, the cover letter is not signed. Please confirm that the hard copy includes a signature or provide a signed copy of the cover letter.	2/4/2016	The hard copy of the Cover Letter contained the signature of Michael Bishop -- FuelCell Energy's CFO. We've also attached an additional signed copy for your review and consideration.	2/4/2016	See attachment entitled "Signed Cover Letter"
4	2/1/2016	3.2.4 Resource Overview	According to RFP Section 3.2.4 Resource Overview, the proposal must contain a "plot plan and elevation drawings of the facility". In proposal Section 3.2.4, pg. 15; The text in the document is not legible. Please provide a higher quality diagram.	2/4/2016	Legible copies of plot plan and elevation drawings are attached for your review and consideration.	2/4/2016	See attachment entitled "FuelCell Site Plan"
5	2/1/2016	3.2.4 Resource Overview	According to RFP Section 3.2.4 Resource Overview, the proposal must contain a "single-line diagram of each facility s electrical configuration, from the power generation and/or conversion systems, through the facility substation, and the interconnection line or cable to the Point of Interconnection bus" and a "block diagram of the resource". In proposal Section 3.2.4, pg. 17; The text in the single line and block diagram documents are not legible. Please provide higher quality diagrams for both.	2/4/2016	Legible copies of Single Line and Block Diagram are attached for your review and consideration.	2/4/2016	See attachments entitled "Process Flow Diagram" and "Single Line Diagram"

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Dan Vickery (dvickery@greencharge.net)
Respondent: Green Charge Networks
Proposal: Peak Relief Services

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response		
1	12/22/2015	Development Plans	On August 10, 2015, the Appendix A of the RFP was amended to update the description of the Load Reduction areas on the South Fork. Therefore, please specifically identify which sub-areas (i.e. between boundaries A, B, and C) specified in Appendix A, Section A6, where the Proposal will deliver its load reduction.	1/6/2016	Green Charge estimated its load reduction capabilities assuming a conservative penetration rate of the available customer base in the South Fork region--with the customer base having been provided by PSEG Long Island in the RFP. PSEG Long Island's breakdown of the customer base was for the entire South Fork region, and was not broken down within the sub-areas. Accordingly, without knowing the available customer base in each particular area, Green Charge believes it would be premature to propose load reduction for a particular area. Green Charge does understand that the eastern-most sub-area(s) is most critical to PSEG Long Island, and will aim to develop systems in that area(s). Green Charge would therefore like to work with PSEG Long Island identify loads in these priority sub-areas, subsequently allowing Green Charge to develop in those target areas. At current, our proposal assumes no particular breakdown as to how many MW will be developed in each sub-area; rather, it assumes 2 MW across the entire region. Upon further cooperation with PSEG Long Island, we will provide more precise, and contractually-obligated, MW development in sub-areas.	12/31/15	
2	12/22/2015	Section 3.2.3 Pricing	The Proposal mentions 2018 as the base Commercial Operations Date (COD). Please confirm that May 1, 2018 is the proposed base COD.	1/6/2016	Yes, references to 2018 CODs are intended to imply May 1, 2018 as the no-later-than COD for the base rate. Similarly, CODs for -1 and +1 year imply May 1 of 2017 and May 1 of 2019, respectively.	12/31/15	
3	12/22/2015	Section 3.2.3 Pricing	In Section 3.2.3, the Respondent mentions the following "Green Charge is able to provide our basic service of load reduction for a single fixed price between \$49/kW-month to \$72/kW-month for the five summer months (2018 COD), assuming a 10-year contract duration." Please confirm that these prices are intended to be fixed throughout the 10 year contract duration. If not, please identify where in the proposal the escalation factors (or other means of price adjustments) are mentioned. Please note that PSEG Long Island/LIPA cannot accept any pricing adjustments that are specified after the time of the Proposal Submittal Date.	1/6/2016	[REDACTED]	12/31/15	
4	12/22/2015	Date Input Workbook	Even as a "behind-the-meter" program, please complete the data input workbook.	1/6/2016	Please see attached completed Energy Storage Datasheet.	12/31/15	Please see attached completed Energy Storage Datasheet.
5	1/20/2016	Development Plans and Schedule	We acknowledge Green Charge will provide all permits required by the local, state, and Federal authorities having jurisdiction (AHJs). Per section 3.2.5 - Development Plans and Schedule of the RFP, please clarify which permits the respondent expects to require.	1/25/2016	Green Charge anticipates receiving electrical (AHJ), building (AHJ), and interconnection permits (utility, PSEG LI). These permits may vary by each AHJ, however, our experience in New York (Manhattan, Yonkers, Brooklyn, and Queens) and throughout California indicates that the permitting process should not substantially vary.	1/25/16	
6	1/20/2016	Development Plans and Schedule	We acknowledge that the proposed solution will have many benefits for the community. Per section 3.2.5 - Development Plans and Schedule of the RFP, please provide a community outreach plan and schedule.	1/25/2016	Please see attached "Community Outreach Plan Schedule."	1/25/16	Please see attached "Community Outreach Plan Schedule."
7	1/20/2016	Development Plans and Schedule	Per section 3.2.5 of the RFP, the proposal must provide information about any taxes and/or PILOT agreements and plans for negotiation. Please such information or identify where in the proposal it is discussed.	1/25/2016	Green Charge does not have any tax or PILOT agreements. We have included standard taxes into our priced offer. Should PSEG Long Island prefer to enter into a more unique tax structure, Green Charge is amenable to doing so.	1/25/16	
8	1/20/2016	Commissioning Tests	We acknowledge Green Charge systems will require a commissioning test, however, per section 3.2.15 of the RFP, please clarify if PSEG Long Island support is required.	1/25/2016	Green Charge will not require any support from PSEG Long Island for its commissioning tests.	1/25/16	
9	1/20/2016	Financial Information	We acknowledge that Green Charge provided four references, however, per section 3.2.22.2 of the RFP, please clarify if the four references mentioned in 3.2.22.1 Basic Information & Relevant Experience - Project & Customer References employed financing arrangements similar to the arrangements proposed in this project.	1/25/2016	Green Charge provided four references. Two from Con Edison, one from Mountain View Los Altos School District (MVLA), and one from Lancaster Choice Energy. The structures for Con Edison were principally paid upfront for the service implementation and R&D engagement. These programs still had milestone structures, but were not "service-based" as Green Charge is proposing to PSEG Long Island. The other two customers--MVLA and Lancaster--did utilize structures similar to what is being proposed here. These customers' systems were financed under a 100% performance-based arrangement Green Charge has termed a Power Efficiency Agreement (PEA). Under this structure, Green Charge develops all systems at its cost, and once operational, the customer pays Green Charge a fixed percentage of its monthly utility bill savings generated by the system. Under this structure, the customer does not pay Green Charge anything if we do not save the customer anything. Similarly, if Green Charge underperforms, our payments are reduced accordingly. Green Charge has financed nearly its entire C&I portfolio under this structure--including recently receiving a \$50M non-recourse debt vehicle for its latest systems going into the ground.	1/25/16	
10	1/20/2016	Disclosures	Per section 3.2.23 of the RFP, please provide a copy of the New York State Vendor Responsibility Questionnaire/Certification forms.	1/25/2016	Please see attached document "NYS Vendor Responsibility Certification."	1/25/16	Please see attached document "NYS Vendor Responsibility Certification."

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s):	Dan Vickery (dvickery@greencharge.net)
Respondent:	Green Charge Networks
Proposal:	Peak Relief Services

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response		Date of Response
11	1/20/2016	Agreement Redline	We acknowledge that Green Charge has conducted a cursory review of the Form of Agreement or Contract, however, please provide an in-depth review and redline of the Agreement for review.	1/25/2016	Please see attached document "EnergyServicesAgreement_GCIN Redlined_v2," which provides a more in-depth review of the Agreement. Green Charge's previous notation that we had provided a cursory review was to acknowledge that upon negotiations, Green Charge will inherently need to provide additional redlines, depending on the exact scope of work required. Upon our initial and subsequent reviews, we have provided redlines in areas that would be most concerning to Green Charge. Upon these reviews, it is worth noting that we have not found anything to be substantially out of reason for entering into an agreement with PSEG Long Island. Green Charge does not expect to materially alter any of the terms of the Agreement, though we cannot definitively agree to this absent the understanding the exact scope of work.	1/25/16	Please see attached document "EnergyServicesAgreement_GCIN Redlined_v2."
12	1/20/2016	3.2.9 Resource Performance	Per RFP Section 3.2.9, please specifically and clearly address the transition from the Standby to the Transmission Support Mode in the concept of operations.	1/25/2016	At the site level, the transition from the Standby to the Transmission Support Mode and execution is [REDACTED]. The site controller receives transmission support signals via various channels and orchestrates the required output of the ESS on site to meet the requirement. The entire end to end process of external signal request to execution [REDACTED] and only reaches that high end of that spectrum under situations where network traffic is impeded.	1/25/16	
13	1/20/2016	Respondent Responsibilities	Per section A3.2 of the RFP, please confirm if the respondent will be responsible for supporting the data and informational requirements necessary to perform any independent measurement, verification and/or evaluation by PSEG Long Island.	1/25/2016	Green Charge Networks is able to track data and information using our GridSynergy software platform, which monitors and records second-by-second data, allowing us to perform measurement and verification (M&V) and other evaluations on the performance of our ESS. Our Network Operations (NetOps) engineers oversee that performance metrics are realized, remotely monitoring and operating the fleet of batteries in real-time, with the ability to summarize performance history within any given time period increment. These data are logged and stored; thus, any independent M&V evaluation or audit can be easily realized. Green Charge will fully support these requirements for PSEG Long Island.	1/25/16	
14	1/20/2016	Respondent Responsibilities	Per section A3.2 of the RFP, please confirm the respondent will be responsible for a quality assurance and quality control (QA/QC) plan that describes how it shall ensure the accuracy and reliability of the delivered services. Please note the QA/QC plan shall also describe how it will ensure the Program meets PSEG Long Island's quality standards. Respondent must be prepared to adhere to standards of customer service and QA/QC, which equal or exceed industry norms.	1/25/2016	Please see attached document "Customer Service-QAQC Plan."	1/25/16	Please see attached document "Customer Service-QAQC Plan."
15	1/20/2016	Respondent Responsibilities	Per section A3.2 of the RFP, provide a description of important quality assurance issues and standards, including how load reductions will be regularly monitored, and reporting, tracking and report generation expectations will be met.	1/25/2016	Please see attached document "Customer Service-QAQC Plan."	1/25/16	Please see attached document "Customer Service-QAQC Plan."
16	1/20/2016	Respondent Responsibilities	We acknowledge Green Charge can provide enrollment information via secured systems. Per section A3.2 of the RFP, please confirm PSEG Long Island will have remote access to the respondents entire operations tracking and reporting databases as well as Program related sales.	1/25/2016	Confirmed. Green Charge will work with PSEG Long Island to determine the most efficient structure, and subsequently providing necessary training to PSEG Long Island staff of our operations platform.	1/25/16	

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Edward Seaman (eseaman@halmarinternational.com)
Respondent: Halmar International, LLC
Proposal: South Fork Mobile Energy Storage Solution

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	Section 3.2.3 and 3.2.11	Fuel is identified as a pass-through cost in Section 3.2.3 of the Proposal and appears to be defined as not a pass through cost in Section 3.2.11 ("Consistent with Halmar's proposed No Fuel Cost Pass-through election provided in Proposal Section 3.2.3 Fuel Supply Pricing..."). Please clarify whether or not fuel is considered a pass-through cost.	1/6/2016	<p>See documents submitted on January 5th, 2016 PSEG Final response to clarification Q&A Response.pdf [sic] Pricing excel copy of PSEG LI Pricing Schedule.xlsx 3.2.4 excel 12-23-4-b-SFRFP-PowerProduction Solar Titan 130 11-30-15(2).xls Sec 3.2.4 excel 12-23 A-4-a-SFRFP-PowerProduction Taurus 11-30-15(2).xls</p> <p>Introduction Halmar apologizes for any confusion caused by any purely unintentional conflicts within our December 2, 2015 Proposal and appreciates this opportunity to provide any and all clarifications of our "No Fuel Cost Pass-through" and additional information necessary to successfully satisfy this PSEG-LI Phase I Responsiveness/Mandatory Criteria Review clarification request.</p> <p>Halmar Clarifications to PSEG-LI RFC Nos. 1 & 2 a. Halmar prefers a Tolling Agreement-based Fuel Supply Plan of "No Fuel Cost-pass through", option based upon our understanding of the following 1) PSEG-LI's SFR RFP. 2) LIPA's historical Tolling Agreement-based fuel (both liquid and NG) supply preferences imbedded in its Power Supply Agreement with National Grid and its multiple Power Purchase Agreements with its other existing on-Island liquid fuel-fired generation resources, wherein LIPA is the sole responsible party for all Liquid Fuel Supply related costs including commodity and transportation/delivery. 3) Under such a Halmar Tolling Agreement preference/No Fuel Cost Pass-through election, LIPA would be the sole responsible party for all Liquid Fuel Supply-related costs including both the commodity and its transportation/delivery to Halmar's East Hampton and Montauk Power Production Resources. b. Supported by Northville Industry's November 24, 2015 letter included in Halmar Proposal Section 3.2.11 – Fuel Supply Plan, Halmar's Tolling Agreement preference/No Fuel Cost Pass-through election positions the proposed Project's East Hampton and Montauk Power Production Resources with access to 1) Northville's status as a) NY's designated southeastern NY strategic petroleum reserve b) The primary liquid fuels supplier within Suffolk County c) LIPA's liquid fuels source for all of its on-Island electric generation resources under current Power Supply and Purchase Agreements. 2) Over 1,300,000 bbls of Northville's Suffolk County-based bulk liquid fuels storage capacity, which includes 125,000</p>	1/5/2016	
2	12/22/2015	Section 3.2.3 and 3.2.11	<p>Furthermore, based on the Respondent's Fuel Supply Plan "...it would be LIPA, as provided in PSEG-LI's SFR RFP including Q&A #9, as the responsible Party for continuous liquid fuel supply, transportation and delivery to Halmar's Mobile Power Production Units that would be setup and interconnected to LIPA's 69kV East Hampton and 23kV Montauk Substations, when/as dispatched by PSEG-LI ER&T and NYISO throughout the term of the LIPA/Halmar PPA."</p> <p>Please note that Section B4.4 of the RFP states "Where applicable, proposals shall include all fuel-related delivery and storage infrastructure....Respondents must also provide all liquid (e.g., oil) fuel commodity and transportation."</p> <p>Therefore, please clarify who is responsible for the procurement of fuel and the associated pricing mechanism. Note that RFP Section 3.2.3 states "If the project requires the use of fuel, a fuel cost pass through is not acceptable unless it includes one of the following mechanisms a) Fixed fuel price for the duration of the contract b) Fuel price formula indexed to a well-known commodity market index</p> <p>Respondents may provide an alternate fuel pricing mechanism that substantially reduces the volatility of fuel prices paid by PSEG Long Island. If this is the case, the alternative pricing mechanisms should be described in sufficient detail to allow PSEG Long Island to evaluate and calculate how fuel prices would behave in the context of various fuel price scenarios."</p>	1/6/2016	<p>See documents submitted on January 5th, 2016 PSEG Final response to clarification Q&A Response.pdf [sic] Pricing excel copy of PSEG LI Pricing Schedule.xlsx 3.2.4 excel 12-23-4-b-SFRFP-PowerProduction Solar Titan 130 11-30-15(2).xls Sec 3.2.4 excel 12-23 A-4-a-SFRFP-PowerProduction Taurus 11-30-15(2).xls</p> <p>e. Based upon Halmar's extensive SFR Proposal-based diligence, we firmly believe our preferred Tolling Agreement/No Fuel Cost Pass-through election presents PSEG-LI with the most feasible, cost effective and reliable liquid fuel supply alternative available to both LIPA and Halmar. Halmar's preferred Tolling Agreement/No Fuel Cost Pass-through election that 1) Seamlessly aligns with LIPA's nearly 20-year old fuel supplier preference, leveraging its large volume buying power through its bulk liquid fuel supplier exclusivity, to all of its existing on-Island generation resources under all of its current Power Purchase and Supply Agreements wherein LIPA is the sole entity responsible for liquid fuel commodity purchases, as well as all costs relating to maintaining its on-Island bulk liquid fuel storage reserves, as required dispatch and transportation/delivery management; and 2) Offers LIPA the most rational approach to managing liquid fuel price volatility over the term of the LIPA/Halmar Power Purchase Agreement. d. Should, however, PSEG-LI's SFR Proposals Review & Evaluation Committee still wish to receive a Halmar Liquid Fuel Supply Plan and Pricing Proposal wherein Halmar would be the responsible liquid fuels supply party, Halmar stands ready to respond to PSEG-LI with a commodity market indexed Fuel Cost Pass-Through alternative upon receipt of such PSEGLI request.</p>	1/5/2016	
3	12/22/2015	N/A	As required by RFP Section 3.2.3, where in your proposal is pricing for the cost of Developer Attachment Facilities?	1/6/2016	3. The Hard Copy Proposal submission had the DAF pricing, East Hampton \$700,000.; Montauk \$500,000. SEE ATTACHED 3.2.3 Pricing Sheet	1/5/2016	Pricing excel copy of PSEG LI Pricing Schedule.xlsx

Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Vijay Singh (Vijay.Singh@nee.com)
Respondent: LI Energy Storage System, LLC
Proposal: Montauk Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	1/20/2016	3.2.4.2 Resource Overview	We acknowledge that a site layout has been provided, however, we are unable to read them. Please resubmit the full size drawing. Per RFP section 3.2.4, Resource Overview, please ensure that the proposed route of any line or cable required for interconnection to the proposed Point of Interconnection bus (1800' for 4kV interconnection and 100' for 13kV interconnection) is visible.	1/29/2016	Please see Montauk Energy Storage System attachment	1/29/2016	
2	1/20/2016	3.2.4.4 Resource Overview	We acknowledge that a plot plan and elevation drawings were provided, however, we are unable to read them. Per RFP section 3.2.4, Resource Overview, please resubmit the full size drawings.	1/29/2016	Please see Montauk Energy Storage System attachment	1/29/2016	
3	1/20/2016	3.2.4.5 Resource Overview	We acknowledge that a one-line diagram was provided, however it is unreadable. Please resubmit the full size drawing. Per RFP section 3.2.4, Resource Overview, please ensure the diagram includes the electrical configuration (the path and graphic symbols) from the power generation and/or conversion systems (battery inverters) through the facility substation, and the interconnection line or cable to the Point of Interconnection bus. A sample Single-Line Diagram has been provided for reference.	1/29/2016	Please see Montauk Energy Storage System attachment	1/29/2016	
4	1/20/2016	3.2.9. Resource Performance	We acknowledge that the Inverter output is limited by current output and low voltage ride through limitation. Per RFP Appendix A5, Voltage Ride-through Capability, please provide the specifications of current output and low voltage ride through.	1/29/2016	We confirm our inverters will be compliant with California Public Utility Commission Electric Tariff Rule 21, Section Hh.2.b(ii), Table Hh.1, Section Hh.2.f(i), and Table Hh.2 per page 57 of the RFP.	1/29/2016	
5	1/20/2016	Unknown	Per RFP section B2.2, Additional Requirements, all devices (generators and storage hardware that produce power) must meet the requirements of NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators). Please confirm such information or identify where information is included in the proposal.	1/29/2016	We confirm our inverters and battery protection systems will be compliant with NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators).	1/29/2016	
6	1/20/2016	Unknown	We acknowledge the ability to operate under the NYISO frequency regulation signal throughout the year. Per RFP section B3, System Dispatch and Bidding, please provide all information necessary to allow PSEG Energy Resources and Trade to bid the plant into the NYISO. Additionally, please confirm Long Island Energy Storage System will provide all information required by the NYISO.	1/29/2016	The BESS will provide PSEG Energy Resource and Trade all information and parameters required to formulate the offer of the unit into the NYISO Ancillary Services Market (frequency regulation) in accordance with NYISO Manual 1 Market Participants User's Guide, and NYISO Manual 2, Ancillary Service Manual. The BESS will establish operating procedures with PSEG Energy Resource and Trade to enable PSEG to formulate the offers with sufficient time to meet the market deadlines. Upon request, the BESS will provide all information required by NYISO to insure that the unit remains qualified to participate in the ancillary services (Frequency Regulation) market.	1/29/2016	
7	1/20/2016	Section 3.2.5.9e Site Characteristics; Section 3.2.9 Resource Performance	Per RFP Appendix B4.1, Storm-Resistant Location and Facilities, Power Production resources and interconnection facilities must be designed to withstand 130 mph winds and to elevate equipment to accommodate updated one-in-500 year flood zones. We acknowledge the design wind speed for the project will comply with the Building Code of New York State and the finished floor elevation at 7 NAVD88 will be above the 500-yr base flood elevation. Please confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	We confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	
8	1/20/2016	3.2.12.2. Electrical Energy Storage Equipment	Per RFP section B4.5, Environmental Conditions, the environmental conditions used for design and performance calculations shall be no less severe than the values listed in Table B4-1. Please confirm compliance to all requirements in Table B4-1 from the RFP and if this is explained in the proposal.	1/29/2016	We confirm the Electrical Energy Storage Equipment will be designed in accordance with Table B4-1. The proposal was designed to be in compliance with these requirements.	1/29/2016	
9	1/20/2016	Unknown	Per RFP section B5.2, Steady-State Electrical Characteristics, Power Production resources shall operate without restriction over the transmission system steady-state characteristics provided in Table B5-2. Please confirm compliance to Table B5-2 from the RFP and if this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-2. The proposal was designed to be in compliance with these requirements.	1/29/2016	
10	1/20/2016	Unknown	Per RFP section B5.3, Temporary Voltages and Frequencies, for the temporary operating conditions specified in Table B5-3, Power Production resources shall be designed to withstand these conditions without damage or loss of availability, and shall remain functional. Please confirm compliance to Table B5-3 from the RFP and if this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-3. The proposal was designed to be in compliance with these requirements.	1/29/2016	

**Appendix TBD
PSEG Long Island
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Clarifying Questions**

Primary Contact(s):	Vijay Singh (Vijay.Singh@nee.com)
Respondent:	LI Energy Storage System, LLC
Proposal:	Montauk Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
11	1/20/2016	Unknown	<p>Per RFP section B7.1, Site Continuous Power Capacity, the Power Production resource and the interconnection to the substation at Montauk shall be designed to avoid the potential for common-mode tripping of capacity greater than the specified maximum individual Power Production unit rating.</p> <p>Please confirm the proposal will be designed to avoid the potential for common-mode tripping.</p>	1/29/2016	<p style="color: red;">Common-mode tripping requirements are not applicable due to selection of Standby Mode Option 3.</p>	1/29/2016	

Appendix TBD
PSEG Long Island
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Clarifying Questions

Primary Contact(s): Vijay Singh (Vijay.Singh@nee.com)
Respondent: LI Energy Storage System, LLC
Proposal: Deerfield Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	1/20/2016	3.2.4.5 Resource Overview	We acknowledge that a one-line diagram was provided, however it is unreadable. Please resubmit the full size drawing. Per RFP section 3.2.4, Resource Overview, please ensure the diagram includes the electrical configuration (the path and graphic symbols) from the power generation and/or conversion systems (battery inverters) through the facility substation, and the interconnection line or cable to the Point of Interconnection bus. A sample Single-Line Diagram has been provided for reference.	1/29/2016	Please see Deerfield Energy Storage System attachment	1/29/2016	
2	1/20/2016	3.2.9. Resource Performance	We acknowledge that the Inverter output is limited by current output and low voltage ride through limitation. Per RFP Appendix A5, Voltage Ride-through Capability, please provide the specifications of current output and low voltage ride through.	1/29/2016	We confirm our inverters will be compliant with California Public Utility Commission Electric Tariff Rule 21, Section Hh.2.b(ii), Table Hh.1, Section Hh.2.f(i), and Table Hh.2 per page 57 of the RFP.	1/29/2016	
3	1/20/2016	Unknown	Per RFP section B2.2, Additional Requirements, all devices (generators and storage hardware that produce power) must meet the requirements of NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators). Please confirm such information or identify where information is included in the proposal.	1/29/2016	We confirm our inverters and battery protection systems will be compliant with NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators).	1/29/2016	
4	1/20/2016	Unknown	We acknowledge the ability to operate under the NYISO frequency regulation signal throughout the year. Per RFP section B3, System Dispatch and Bidding, please provide all information necessary to allow PSEG Energy Resources and Trade to bid the plant into the NYISO. Additionally, please confirm Long Island Energy Storage System will provide all information required by the NYISO.	1/29/2016	The BESS will provide PSEG Energy Resource and Trade all information and parameters required to formulate the offer of the unit into the NYISO Ancillary Services Market (frequency regulation) in accordance with NYISO Manual 1 Market Participants User s Guide, and NYISO Manual 2, Ancillary Service Manual. The BESS will establish operating procedures with PSEG Energy Resource and Trade to enable PSEG to formulate the offers with sufficient time to meet the market deadlines. Upon request, the BESS will provide all information required by NYISO to insure that the unit remains qualified to participate in the ancillary services (Frequency Regulation) market.	1/29/2016	
5	1/20/2016	Section 3.2.5.9e Site Characteristics; Section 3.2.9 Resource Performance	Per RFP Appendix B4.1, Storm-Resistant Location and Facilities, Power Production resources and interconnection facilities must be designed to withstand 130 mph winds and to elevate equipment to accommodate updated one-in-500 year flood zones. We acknowledge the design wind speed for the project will comply with the Building Code of New York State and the finished floor elevation at 7 NAVD88 will be above the 500-yr base flood elevation. Please confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	We confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	
6	1/20/2016	3.2.12.2. Electrical Energy Storage Equipment	Per RFP section B4.5, Environmental Conditions, the environmental conditions used for design and performance calculations shall be no less severe than the values listed in Table B4-1. Please confirm compliance to all requirements in Table B4-1 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm the Electrical Energy Storage Equipment will be designed in accordance with Table B4-1. The proposal was designed to be in compliance with these requirements.	1/29/2016	
7	1/20/2016	Unknown	Per RFP section B5.2, Steady-State Electrical Characteristics, Power Production resources shall operate without restriction over the transmission system steady-state characteristics provided in Table B5-2. Please confirm compliance to Table B5-2 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-2. The proposal was designed to be in compliance with these requirements.	1/29/2016	
8	1/20/2016	Unknown	Per RFP section B5.3, Temporary Voltages and Frequencies, for the temporary operating conditions specified in Table B5-3, Power Production resources shall be designed to withstand these conditions without damage or loss of availability, and shall remain functional. Please confirm compliance to Table B5-3 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-3. The proposal was designed to be in compliance with these requirements.	1/29/2016	
9	1/20/2016	Unknown	Per RFP section B7.1, Site Continuous Power Capacity, at voltage levels less than [REDACTED] of nominal, each Power Production resource shall be capable of delivering real current (current in phase with the voltage) equal to the real current required to deliver rated power at [REDACTED]. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	We confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	

**Appendix TBD
PSEG Long Island
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Clarifying Questions**

Primary Contact(s):	Vijay Singh (Vijay.Singh@nee.com)
Respondent:	LI Energy Storage System, LLC
Proposal:	Deerfield Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
10	1/20/2016	Unknown	Per RFP section B7.2, Reactive Power Capacity, each Power Production resource shall have a continuous reactive power capacity, variable over the range between the lagging and leading values specified in Table B7-1 at all levels of real power, from zero up to and including the rated power capacity. This reactive power capacity shall be available at all times when in the Standby, Transmission Support, and optional Isolated modes. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	We confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	
11	1/20/2016	Unknown	Per RFP section B7.2, Reactive Power Capacity, at voltage levels less than 0.95 p.u. of nominal, each Power Production resource shall be capable of delivering reactive current (current in quadrature with the voltage) equal to the reactive current required to deliver the specified reactive power capacity at [REDACTED] voltage. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	We confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	

Appendix TBD
PSEG Long Island
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Clarifying Questions

Primary Contact(s): Vijay Singh (Vijay.Singh@nee.com)
Respondent: LI Energy Storage System, LLC
Proposal: Southampton Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	1/20/2016	3.2.4.2 Resource Overview	We acknowledge that a site layout has been provided, however, we are unable to read them. Please resubmit the full size drawing. Per RFP section 3.2.4, Resource Overview, please ensure that the proposed route of any line or cable required for interconnection to the proposed Point of Interconnection bus () is visible.	1/29/2016	Please see Southampton Energy Storage System attachment	1/29/2016	
2	1/20/2016	3.2.4.4 Resource Overview	We acknowledge that a plot plan and elevation drawings were provided, however, we are unable to read them. Per RFP section 3.2.4, Resource Overview, please resubmit the full size drawings.	1/29/2016	Please see Southampton Energy Storage System attachment	1/29/2016	
3	1/20/2016	3.2.4.5 Resource Overview	We acknowledge that a one-line diagram was provided, however it is unreadable. Please resubmit the full size drawing. Per RFP section 3.2.4, Resource Overview, please ensure the diagram includes the electrical configuration (the path and graphic symbols) from the power generation and/or conversion systems (battery inverters) through the facility substation, and the interconnection line or cable to the Point of Interconnection bus. A sample Single-Line Diagram has been provided for reference.	1/29/2016	Please see Southampton Energy Storage System attachment	1/29/2016	
4	1/20/2016	3.2.9. Resource Performance	We acknowledge that the Inverter output is limited by current output and low voltage ride through limitation. Per RFP Appendix A5, Voltage Ride-through Capability, please provide the specifications of current output and low voltage ride through.	1/29/2016	We confirm our inverters will be compliant with California Public Utility Commission Electric Tariff Rule 21, Section Hh.2.b(ii), Table Hh.1, Section Hh.2.f(i), and Table Hh.2 per page 57 of the RFP.	1/29/2016	
5	1/20/2016	Unknown	Per RFP section B2.2, Additional Requirements, all devices (generators and storage hardware that produce power) must meet the requirements of NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators). Please confirm such information or identify where information is included in the proposal.	1/29/2016	We confirm our inverters and battery protection systems will be compliant with NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators).	1/29/2016	
6	1/20/2016	Unknown	We acknowledge the ability to operate under the NYISO frequency regulation signal throughout the year. Per RFP section B3, System Dispatch and Bidding, please provide all information necessary to allow PSEG Energy Resources and Trade to bid the plant into the NYISO. Additionally, please confirm Long Island Energy Storage System will provide all information required by the NYISO.	1/29/2016	The BESS will provide PSEG Energy Resource and Trade all information and parameters required to formulate the offer of the unit into the NYISO Ancillary Services Market (frequency regulation) in accordance with NYISO Manual 1 Market Participants User's Guide, and NYISO Manual 2, Ancillary Service Manual. The BESS will establish operating procedures with PSEG Energy Resource and Trade to enable PSEG to formulate the offers with sufficient time to meet the market deadlines. Upon request, the BESS will provide all information required by NYISO to insure that the unit remains qualified to participate in the ancillary services (Frequency Regulation) market.	1/29/2016	
7	1/20/2016	Section 3.2.5.9e Site Characteristics; Section 3.2.9 Resource Performance	Per RFP Appendix B4.1, Storm-Resistant Location and Facilities, Power Production resources and interconnection facilities must be designed to withstand 130 mph winds and to elevate equipment to accommodate updated one-in-500 year flood zones. We acknowledge the design wind speed for the project will comply with the Building Code of New York State and the finished floor elevation at 7 NAVD88 will be above the 500-yr base flood elevation. Please confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	We confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	
8	1/20/2016	3.2.12.2. Electrical Energy Storage Equipment	Per RFP section B4.5, Environmental Conditions, the environmental conditions used for design and performance calculations shall be no less severe than the values listed in Table B4-1. Please confirm compliance to all requirements in Table B4-1 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm the Electrical Energy Storage Equipment will be designed in accordance with Table B4-1. The proposal was designed to be in compliance with these requirements.	1/29/2016	
9	1/20/2016	Unknown	Per RFP section B5.2, Steady-State Electrical Characteristics, Power Production resources shall operate without restriction over the transmission system steady-state characteristics provided in Table B5-2. Please confirm compliance to Table B5-2 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-2. The proposal was designed to be in compliance with these requirements.	1/29/2016	
10	1/20/2016	Unknown	Per RFP section B5.3, Temporary Voltages and Frequencies, for the temporary operating conditions specified in Table B5-3, Power Production resources shall be designed to withstand these conditions without damage or loss of availability, and shall remain functional. Please confirm compliance to Table B5-3 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-3. The proposal was designed to be in compliance with these requirements.	1/29/2016	

**Appendix TBD
PSEG Long Island
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Clarifying Questions**

Primary Contact(s): Vijay Singh (Vijay.Singh@nee.com)
Respondent: LI Energy Storage System, LLC
Proposal: Southampton Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
11	1/20/2016	Unknown	Per RFP section B7.1, Site Continuous Power Capacity, at voltage levels less than [REDACTED], each Power Production resource shall be capable of delivering real current (current in phase with the voltage) equal to the real current required to deliver rated power at [REDACTED] voltage. Please confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	We confirm the Power Production resource will be capable of the above mentioned requirement as stated in the RFP.	1/29/2016	

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Vijay Singh (Vijay.Singh@nee.com)
Respondent: LI Energy Storage System, LLC
Proposal: East Hampton Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	1/20/2016	3 2 4 2 Resource Overview	We acknowledge that a site layout has been provided, however, we are unable to read them. Please resubmit the full size drawing. Per RFP section 3 2 4, Resource Overview, please ensure that the proposed route of any line or cable required for interconnection to the proposed Point of Interconnection bus is visible.	1/29/2016	Please see East Hampton Energy Storage System attachment	1/29/2016	
2	1/20/2016	3 2 4 4 Resource Overview	We acknowledge that a plot plan and elevation drawings were provided, however, we are unable to read them. Per RFP section 3 2 4, Resource Overview, please resubmit the full size drawings.	1/29/2016	Please see East Hampton Energy Storage System attachment	1/29/2016	
3	1/20/2016	3 2 4 5 Resource Overview	We acknowledge that a one-line diagram was provided, however it is unreadable. Please resubmit the full size drawing. Per RFP section 3 2 4, Resource Overview, please ensure the diagram includes the electrical configuration (the path and graphic symbols) from the power generation and/or conversion systems (battery inverters) through the facility substation, and the interconnection line or cable to the Point of Interconnection bus. A sample Single-Line Diagram has been provided for reference.	1/29/2016	Please see East Hampton Energy Storage System attachment	1/29/2016	
4	1/20/2016	3 2 9 Resource Performance	We acknowledge that the Inverter output is limited by current output and low voltage ride through limitation. Per RFP Appendix A5, Voltage Ride-through Capability, please provide the specifications of current output and low voltage ride through.	1/29/2016	We confirm our inverters will be compliant with California Public Utility Commission Electric Tariff Rule 21, Section Hh 2 b(ii), Table Hh 1, Section Hh 2 f(i), and Table Hh 2 per page 57 of the RFP.	1/29/2016	
5	1/20/2016	Unknown	Per RFP section B2 2, Additional Requirements, all devices (generators and storage hardware that produce power) must meet the requirements of NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators). Please confirm such information or identify where information is included in the proposal.	1/29/2016	We confirm our inverters and battery protection systems will be compliant with NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators).	1/29/2016	
6	1/20/2016	Unknown	We acknowledge the ability to operate under the NYISO frequency regulation signal throughout the year. Per RFP section B3, System Dispatch and Bidding, please provide all information necessary to allow PSEG Energy Resources and Trade to bid the plant into the NYISO. Additionally, please confirm Long Island Energy Storage System will provide all information required by the NYISO.	1/29/2016	The BESS will provide PSEG Energy Resource and Trade all information and parameters required to formulate the offer of the unit into the NYISO Ancillary Services Market (frequency regulation) in accordance with NYISO Manual 1 Market Participants User's Guide, and NYISO Manual 2, Ancillary Service Manual. The BESS will establish operating procedures with PSEG Energy Resource and Trade to enable PSEG to formulate the offers with sufficient time to meet the market deadlines. Upon request, the BESS will provide all information required by NYISO to insure that the unit remains qualified to participate in the ancillary services (Frequency Regulation) market.	1/29/2016	
7	1/20/2016	Section 3 2 5 9e Site Characteristics; Section 3 2 9 Resource Performance	Per RFP Appendix B4 1, Storm-Resistant Location and Facilities, Power Production resources and interconnection facilities must be designed to withstand 130 mph winds and to elevate equipment to accommodate updated one-in-500 year flood zones. We acknowledge the design wind speed for the project will comply with the Building Code of New York State and the finished floor elevation at 7' NAVD88 will be above the 500-yr base flood elevation. Please confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	We confirm the interconnection facilities will be designed to withstand 130 mph winds.	1/29/2016	
8	1/20/2016	3 2 12 2 Electrical Energy Storage Equipment	Per RFP section B4 5, Environmental Conditions, the environmental conditions used for design and performance calculations shall be no less severe than the values listed in Table B4-1. Please confirm compliance to all requirements in Table B4-1 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm the Electrical Energy Storage Equipment will be designed in accordance with Table B4-1. The proposal was designed to be in compliance with these requirements.	1/29/2016	
9	1/20/2016	Unknown	Per RFP section B5 2, Steady-State Electrical Characteristics, Power Production resources shall operate without restriction over the transmission system steady-state characteristics provided in Table B5-2. Please confirm compliance to Table B5-2 from the RFP and where this is explained in the proposal.	1/29/2016	We confirm compliance to Table B5-2. The proposal was designed to be in compliance with these requirements.	1/29/2016	

**Appendix TBD
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Clarifying Questions**

Primary Contact(s):	Vijay Singh (Vijay.Singh@pseg.com)
Respondent:	LI Energy Storage System, LLC
Proposal:	East Hampton Energy Storage System

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
				Proposer's Response		Date of Response	Supplemental Documentation, if any
10	1/20/2016	Unknown	Per RFP section B5.3, Temporary Voltages and Frequencies, for the temporary operating conditions specified in Table B5-3, Power Production resources shall be designed to withstand these conditions without damage or loss of availability, and shall remain functional Please confirm compliance to Table B5-3 from the RFP and where this is explained in the proposal	1/29/2016	We confirm compliance to Table B5-3. The proposal was designed to be in compliance with these requirements	1/29/2016	
11	1/20/2016	Unknown	Per RFP section Appendix B7.1, Site Continuous Power Capacity, the energy capability of the Power Production resource at East Hampton shall be equal to the rated capacity of the Power Production resource times 60 hours, without recharging of any manner from the power system Please confirm the Power Production resource at East Hampton will have this capability as described in the RFP above	1/29/2016	Please note this proposal includes several distribution level interconnection options () and a transmission interconnection option. The transmission interconnected option at East Hampton is capable of providing . In addition, separately included in this proposal are numerous configurations that interconnect at the distribution level. Please see proposal sections 3.2.3 & 3.2.4 for further detail.		

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Clarifying Questions

Primary Contact(s):	Jill Dvareckas (Jill.Dvareckas@nee.com)
Respondent:	Nextera Energy Resources LLC
Proposal:	South Fork Thermal Energy Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	Resource Overview	Please provide an excel version of RFP data sheets.	1/6/2016	Please see attached file "SFRFP-EnergyStorage-NERA"	1/6/2016	Please see attached file "SFRFP-EnergyStorage-NERA"
2	12/22/2015	Date Input Workbook	Even as a "behind-the-meter" program, please complete the data input workbook.	1/6/2016	Please see attached file "SFRFPDataInputs - NERA"	1/6/2016	Please see attached file "SFRFPDataInputs - NERA"
3	1/20/2016	N/A	While QA/QC is implied in Proposal, it is not specifically addressed. Per RFP Section A3.2 (Appendix A) Respondent shall be responsible for providing a quality assurance and quality control (QA/QC) plan that describes how it shall ensure the accuracy and reliability of the delivered services. The QA/QC plan shall also describe how it will ensure the Program meets PSEG Long Island's quality standards. Respondent must be prepared to adhere to standards of customer service and QA/QC, which equal or exceed industry norms. Please confirm conformance to this requirement.	1/25/2016	NERA is aware of and will adhere to all of Respondent Responsibilities listed in A3.2 including the standards of customer service and QA/QC.	1/25/2016	
4	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide a development schedule (including timetable for permitting, environmental review, construction, testing, and commercial operation). Please provide such information or identify where information is included in the proposal.	2/4/2016	The standard development schedule for Ice Bear systems is as follows - (Day 0) End customer license agreement signed by customer - (Day 1 to Day 5) Engineering, (Day 6 - Day 30) Ice Bear/HVAC replacement city permit submittal, review, and approval - (Day 31-Day 33) install and commission - (Day 34) inspection as required by City Permit office - (Day 35) Ice Bear system is commissioned and available for peak reduction, dispatch and monitoring. Projects will overlap and be scaled to deliver monthly peak capacity commitments as set forth in NERA's Proposal. No environmental review or utility interconnect is required with thermal energy storage units. Ice Bear installation will follow the HVAC replacement permit guideline process and inspection requirements.	2/4/16	
5	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide a permitting plan and schedule (including a list of all environmental, regulatory, and other agency/municipal reviews, permits and approvals). Please provide such information or identify where information is included in the proposal.	2/4/2016	See response to Question #4.	2/4/16	
6	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide a community outreach plan and schedule. Please provide such information or identify where information is included in the proposal.	2/4/2016	If selected NERA will implement the following community outreach plan - (Day 1) Following contract signing, NERA will develop, in incorporation with it's partnership, a marketing outreach campaign with delivery partners including PSEG. - (Day 60) NERA will begin outreach campaign to educate and inform public agencies, community business associations, local contractors, building and residential home owner HOA's, chamber of commerce and other special interest and stakeholders groups, city councils, and schools of the NERA peak load program to avoid T&D and Generation. This will be a 6 month effort paralleling program marketing that secures customer program participation. - (Day 90) Performance outreach results are measured and refined to improve customer program participation. Campaign will continue through final customer participant sign requirements achieve	2/4/16	
7	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide a description of community benefits. Please provide such information or identify where information is included in the proposal.	2/4/2016	NERA's proposal includes the following community benefits 1) Residential end customers electing to participate will benefit economically in two manners Program offers participants the opportunity to replace HVAC for cost of installation only, a significant capital avoidance. The end customer participant will also enjoy energy and demand reduction benefits offered by PSEG LI tariffs. 2) NERA will utilize local HVAC industry to support design, installation service during deployment and will contract with HVAC service contractors through term of contract to provide annual equipment services. It is estimated 30% of the PSEG LI investment will be retained within the PSEG service area. 3) The Ice Bear product is manufactured in Hammondsport New York, contributing to additional green jobs for the State!	2/4/16	
8	2/1/2016	Unknown	Per RFP 3.2.5, Proposal should include evidence of community support, which can be in the form of correspondence from local elected officials and community groups. Please provide such information or identify where information is included in the proposal.	2/4/2016	As set forth in the "Question and Answer Log," and in our email requesting a conference call to discuss these questions NERA did not believe this requirement was relevant for Load Reduction resources and did not pursue evidence of community support. As set forth in our response to questions 6, NERA intends to engage community members upon selection. If evidence of support will be integral to PSEG LI's evaluation NERA can initiate these activities now.	2/4/16	
9	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide information about any taxes and/or PILOT agreements and plans for negotiation. Please provide such information or identify where information is included in the proposal.	2/4/2016	Proposal assumes the Ice Bear will be exempt from property tax in New York as movable machinery under sec 102(12)(f)	2/4/16	

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PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Jill Dvareckas (Jill.Dvareckas@nee.com)
Respondent: Nextera Energy Resources LLC
Proposal: South Fork Thermal Energy Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
10	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide information on current site control status and details of plans for obtaining site control. Please provide such information or identify where information is included in the proposal.	2/4/2016	See page 16 of the Proposal for site control details.	2/4/16	
11	2/1/2016	Unknown	Per RFP 3.2.5, Proposal must provide site characteristics (including identification of the zoning for the site and description of whether the proposed project is a permitted use under the local zoning code; a discussion of any known sensitive environmental features on or adjacent to the site such as wetlands, historic properties, ongoing hazardous materials remediation, residences or other sensitive noise receptors; and a discussion of storm resistant features and other reliability features). Please provide such information or identify where information is included in the proposal.	2/4/2016	NERA does not believe this requirement is applicable. Ice Bear will be installed in general area of the existing AC equipment it is replacing. Ice Bear does not use hazardous materials or chemicals. All components and refrigeration is recyclable. NERA is available to discuss further if necessary.	2/4/16	
12	2/1/2016	Unknown	Per RFP 3.2.5, Proposer must provide either demonstration of appropriate local zoning when the Proposal is received by PSEG Long Island or a waiver of local zoning from the involved municipality, or confirmation in writing from the involved municipality that an application for a change in zoning or a granting of a waiver has been made and documentation that indicates that the process can be completed at least one month prior to the "Proposal Selection(s) (planned)" date noted in Table 1-1. For the last alternative, the proposer must provide confirmation that the zoning changed or waiver has been received at least one month prior to the "Proposal Selection(s) (planned)" date. Please provide such information or identify where information is included in the proposal.	2/4/2016	NERA is aware of and will adhere to all of Respondent Responsibilities listed in A3.2.5 including local zoning	2/4/16	
13	2/1/2016	Unknown	Per RFP 3.2.9, Proposal includes description of any known performance limitations that may occur during undervoltage conditions, where voltage drops below 120 V. Please provide such information or identify where information is included in the proposal.	2/4/2016	NERA product consumes [REDACTED] during peak times when voltage is typically sagging voltage. The Ice Bear will consume and store energy during off peak periods when lower voltage supply is less likely to impact ice make/charge cycle. Operating at lower voltages is similar to standard air conditioning equipment. No degradation of peak load reduction will be experience however if voltage drops out completely, no cooling will be provided to the end customer participant. Please see Ice Bear factory test description in Section 3.2.9 of the proposal.	2/4/16	
14	2/1/2016	Unknown	Per RFP 3.2.9, Load reduction shall be deliverable under any meteorological conditions existing during program operational hours, if applicable (for Load Reduction resources). Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear factory test description in Section 3.2.9 of the proposal.	2/4/16	
15	2/1/2016	Unknown	Per RFP 3.2.13, Proposal includes list of all design studies for which results and reports will be provided to PSEG Long Island. Please provide such information or identify where information is included in the proposal.	2/4/2016	Design studies are attached to this response.	2/4/16	Attached to email
16	2/1/2016	Unknown	Per RFP 3.2.13, Proposal includes schedule of all studies, indicating when data from PSEG Long Island is required and when draft reports will be provided. Please provide such information or identify where information is included in the proposal.	2/4/2016	As set forth in the "Question and Answer Log," and in our email requesting a conference call to discuss these questions, Section 3.2.13 is not applicable for Load Reduction resources. NERA is available to discuss any unaddressed requirements should PSEG LI find them relevant to the Proposal s evaluation.	2/4/16	
17	2/1/2016	Unknown	Per RFP 3.2.13, Proposal includes description of the approach, model (where applicable), data requirements, scope, and expected results for each study. Please provide or explain why exception is warranted. Please provide such information or identify where information is included in the proposal.	2/4/2016	As set forth in the "Question and Answer Log," and in our email requesting a conference call to discuss these questions, Section 3.2.13 is not applicable for Load Reduction resources. NERA is available to discuss any unaddressed requirements should PSEG LI find them relevant to the Proposal s evaluation.	2/4/16	
18	2/1/2016	Unknown	Per RFP 3.2.14, Proposal includes description of the scope and extent, and the approximate schedule, of the performance demonstrations for the solution. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see the Ice Bear factory test description in Section 3.2.14 of the proposal.	2/4/16	
19	2/1/2016	Unknown	Per RFP 3.2.15, Proposal includes description and expected duration of the proposed program for site testing and commissioning. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear Commissioning Test description in Section 3.2.15 of the Proposal. No support from PSEG LI is needed for this step.	2/4/16	
20	2/1/2016	Unknown	Per RFP 3.2.15, Proposal includes information about any PSEG Long Island support that will be required for performance of the commissioning tests i.e. PSEG Long Island personnel in the substation during commissioning. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear Commissioning Test description in Section 3.2.15 of the Proposal. No support from PSEG LI is needed for this step.	2/4/16	

Appendix TBD
PSEG Long Island
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Primary Contact(s):	Jill Dvareckas (Jill.Dvareckas@nee.com)
Respondent:	Nextera Energy Resources LLC
Proposal:	South Fork Thermal Energy Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
21	2/1/2016	Unknown	Per RFP 3.2.16, Proposal includes description of the proposed operator-training program, if any. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear Training description in Section 3.2.16 of the Proposal.	2/4/16	
22	2/1/2016	Unknown	Per RFP 3.2.18, Proposal includes description of planned maintenance and support activities for the resource. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear O&M description in Section 3.2.18 of the Proposal.	2/4/16	
23	2/1/2016	Unknown	Per RFP 3.2.19, Proposal includes description of planned activities to replace critical equipment of a resource due to either superior components becoming available or equipment degradation. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear Future Upgrades description in Section 3.2.19 of the Proposal.	2/4/16	
24	2/1/2016	Unknown	Per RFP 3.2.20, Proposal includes solutions that enable cost effective integration between the Respondent's Demand Response (DR) assets and PSEG Long Island's Demand Response Management System (DRMS), if applicable (for Load Reduction resources). If the Bidder's DR asset will not be integrated via a broadband Internet connection over Open ADR or via web services, the Bidder shall describe their proposed integration approach. Please provide such information or identify where information is included in the proposal.	2/4/2016	Please see Ice Bear Communication Capabilities description in Section 3.2.20 of the Proposal.	2/4/16	

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Primary Contact(s): Johannes Rittershausen (jrittershausen@convergentep.com)
Respondent: Convergent Energy + Power
Proposal: Bridgehampton and Montauk Project

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	Section 3.2.2	In the Executive Summary on Page 6 of 52, the Proposal states "Convergent has supplied a capacity price with a May 1, 2019 delivery date, subject to industrystandard escalation." It appears the year 2019 is a typo. Please confirm the base COD is May 1, 2018, which is consistent with the tables provided in Section 3.2.3.	1/6/2016	Confirmed. The correct delivery date is May 1, 2018. This is the base year for the proposal with additional pricing options shown for early delivery (May 1, 2017) and delayed delivery (May 1, 2019) as required by the RFP.	1/5/2016	
2	12/22/2015	Section 3.2.3 D	We acknowledge the Proposal states the following in Section 3.2.3. D Convergent has included in the above-quoted prices the cost of Developer Attachment Facilities based on a standard interconnection requiring no material changes to PSEG-LI s distribution system to accommodate the asset. Any additional, material interconnection costs or enhancements to the Developer Attachment Facilities that may be identified by PSEG-LI prior to or during asset construction (including any additional costs identified as required during interconnection system studies) will be recovered by Convergent as a pass through cost. As required by RFP Section 3.2.3, Please provide the cost of the DAF arrangements that would be recovered through the capacity pricing.	1/6/2016	Included in Convergent's pricing is the following Developer Attachment Facilities infrastructure (per project) - 500 ft of high voltage underground cable from project site to the anticipated PSEG-LI point of interconnection - An onsite circuit breaker with a protection package typical for this application and connections to the PSEG-LI SCADA system. The estimated cost for these DAF's per project is [REDACTED], which is included in the capacity pricing for each site.	1/5/2016	
3	12/22/2015	Section 3.2.3 D	In Proposal Section 3.2.3, the Respondent states "Because the proposed energy storage assets will deliver nameplate capacity starting from COD, base pricing will not vary year to year..." "Finally, it should be noted that the prices quoted above are subject to industry-standard escalation, starting from the contracting date." (a) Please also clarify what is meant by "base pricing will not vary year to year," yet at the same time, the "prices quoted above are subject to industry-standard escalation." (b) Per RFP Section 3.2.3, the Proposal must provide a pricing table for each year from 2016 through 2021 for Load Reduction resources. Therefore, please clarify the definition of "industry-standard escalation" so that we can prepare pricing from 2016 to 2021.	1/6/2016	a) The statement, "base pricing will not vary year to year" is meant to reflect the fact that the entire nameplate capacity of the asset will be online for the entire term of the contract with a fixed base capacity price for every year of the term. This is to differentiate energy storage from other forms of load reduction which may come online over time and may require different price points each year. [REDACTED] However, this base price is subject to industry-standard escalation / inflation. b) Convergent would propose tying the escalation to industry-standard metrics, such as CPI. However, if a fixed number is needed for the purposes of evaluation, Convergent would propose a [REDACTED] escalator.	1/5/2016	
4	1/20/2016	Section 3.2.3 D	In your response to clarifying question 3, you mention industry-standard metrics for escalation tied to CPI. Please specify which CPI (or other index) you propose to use for such escalation.	1/25/2016	Convergent proposes the use of the Consumer Price Index for All Urban Consumers (CPI-U).	1/21/2016	
5	2/3/2016	3.2.9 – Resource Performance	Provide contribution of each resource to balanced and unbalanced transmission faults, both near and remote from the resource location. Please confirm such information or identify where information is included in the proposal.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.9 does not apply to Load Reduction resources like that offered by Convergent. That said, the contribution to transmission faults will require system studies that will not be done until the project is shortlisted and final interconnection points resolved in consultation with PSEG-LI.	2/8/2016	
6	2/3/2016	3.2.9 – Resource Performance	Provide description of the approach that will be taken to define the detailed short-circuit contribution characteristics of the resource, in both phase and sequence component formats. Please confirm such information or identify where information is included in the proposal.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.9 does not apply to Load Reduction resources like that offered by Convergent. That said, please refer to the attached GE Brilliance inverter data sheet for additional information pertaining to short-circuit characteristics.	2/8/2016	Please see attached GE Battery Energy Storage Systems (BESS) Brilliance Inverter data sheet for additional information.
7	2/3/2016	3.2.5 – Development Plans and Schedule	Provide either demonstration of appropriate local zoning when the Proposal is received by PSEG Long Island or a waiver of local zoning from the involved municipality, or confirmation in writing from the involved municipality that an application for a change in zoning or a granting of a waiver has been made and documentation that indicates that the process can be completed at least one month prior to the "Proposal Selection(s) (planned)" Please confirm such information or identify where information is included in the proposal.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.5 does not apply to Load Reduction resources like that offered by Convergent. That said, please refer to Appendix E and Appendix H of Convergent's proposal for additional detail on Convergent's permitting / zoning schedule and progress to date.	2/8/2016	
8	2/3/2016	3.2.12.6 – Interconnection Lines	Provide information about the circuit lengths and impedance of the proposed interconnection lines from the resource facilities to the Points of Interconnection. Please confirm such information or identify where information is included in the proposal.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.12 does not apply to Load Reduction resources like that offered by Convergent. That said, Convergent's proposal included some assumptions about the actual interconnection point on the PSEG-LI system that will be confirmed with PSEG-LI engineers and system planners during shortlist and detailed contracting discussions. In general, it is reasonable to assume that all proposed storage assets will be located within 0.5 miles of a substation and that the length and impedances would be typical to the conductors used by PSEG-LI.	2/8/2016	

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Primary Contact(s): Johannes Rittershausen (jrittershausen@convergentep.com)
Respondent: Convergent Energy + Power
Proposal: Bridgehampton and Montauk Project

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
9	2/3/2016	3.2.13 – Design Studies	Per RFP Section 3.2.13, Proposal includes list of all design studies for which results and reports will be provided to PSEG Long Island. Please provide more detail on the list of design studies.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.13 does not apply to Load Reduction resources like that offered by Convergent. Convergent attempted to provide some non-required information from these sections to aid PSEG-LI in its evaluation and, if shortlisted, looks forward to working with PSEG-LI to provide more detailed performance information, as appropriate.	2/8/2016	
10	2/3/2016	3.2.13 – Design Studies	Per RFP Section 3.2.13, Proposal includes schedule of all studies, indicating when data from PSEG Long Island is required and when draft reports will be provided. Please provide more detail on the schedule of design studies.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.13 does not apply to Load Reduction resources like that offered by Convergent. Convergent attempted to provide some non-required information from these sections to aid PSEG-LI in its evaluation and, if shortlisted, looks forward to working with PSEG-LI to provide more detailed performance information, as appropriate.	2/8/2016	
11	2/3/2016	3.2.13 – Design Studies	Per RFP Section 3.2.13, Proposal includes description of the approach, model (where applicable), data requirements, scope, and expected results for each study. Please provide more detail on the scope and approach of the design studies.	2/8/2016	As stated in PSEG-LI's answer to Question 107 in the Question and Answer log, section 3.2.13 does not apply to Load Reduction resources like that offered by Convergent. Convergent attempted to provide some non-required information from these sections to aid PSEG-LI in its evaluation and, if shortlisted, looks forward to working with PSEG-LI to provide more detailed performance information, as appropriate.	2/8/2016	
12	2/3/2016	A5 – Voltage Ride-Through Capability	Per RFP section A5, Voltage Ride-Through Capability, any load reduction achieved using electrical energy storage shall use inverters that have voltage ride-through capabilities compliant with California Public Utility Commission Electric Tariff Rule 21, Section H.1.a.(2) and Table H.1. Inverters shall be tested and certified by Underwriter's Laboratory for compliance with these requirements. Please confirm that this requirement is met and if this is explained in the proposal.	2/8/2016	Confirmed. Convergent affirmed / explained its compliance in the following sections of its proposal - Section 3.2.12 (p.35) - Section 3.2.12 (p.36) - Appendix D - One-line Diagram (showing inverters compliant with IEEE 1547)	2/8/2016	Please see attached GE Battery Energy Storage Systems (BESS) Brilliance Inverter data sheet for additional information.
13	2/3/2016	B2.2 – Additional Requirements	According to RFP Appendix B2.2 – Additional Requirements, Verify devices meet the requirements of NPCC Reliability Reference Directory #12, Under-frequency Load Shedding Program Requirements, including Figure 1 (Standards for setting under frequency trip protection for generators). Please provide such information or identify where information is included in the proposal.	2/8/2016	Requirements of Appendix B are not applicable to the offered Load Reduction Resource. Convergent Energy + Power's submission was offered as a Load Reduction resource subject to the requirements of Appendix A. Convergent endeavored to provide additional information not required under Appendix A in order to give PSEG-LI additional details to help in its bid evaluation. However, as it was not required for load reduction resources, Convergent did not respond to all elements of Appendix B. If shortlisted, Convergent would be happy to continue to work with PSEG-LI to provide additional information, as appropriate, for the offered Load Reduction resource.	2/8/2016	

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Clarifying Questions

Primary Contact(s): Jonathan Sandler (jsandler@rogers.com)
Respondent: Baseload Power Corp
Proposal: Montauk Flow Battery Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	Schedule 3.2.4d	Please provide an Excel version of the Data Input workbook. Each location should be provided separately.	1/6/2016	The Excel spreadsheet has been updated to address each location separately and is attached to the email response sent January 6th, 2016.	1/6/2016	Please see the attached Excel spreadsheet to this email response dated January 6th, 2016.
2	12/22/2015	Schedule 3.2.25.1	In Schedule 3.2.25.1, we acknowledge the Proposal states an equal employment opportunity contract goal of 21% for Minority and 14% for Women labor. Per RFP Section 3.2.25, please confirm that the pricing includes any and all costs to fully meet the 30% NYS Certified Minority and Women Owned Business Enterprise subcontracting goals and the NYS Certified Service-Disabled Veteran-Owned Business goal of 6%.	1/6/2016	Baseload Power Corp. confirms that the pricing provided in its Proposal includes any and all costs required to fully meet the 30% NYS Certified Minority and Women Owned Business Enterprise subcontracting goals and the NYS Certified Service-Disabled Veteran-Owned Business goal of 6%. It is worthwhile noting that approximately 70% of the total capital cost is allocated to the cost of the battery equipment which is manufactured in Germany and Austria. Even with this constraint, Baseload Power Corp. will meet the stated subcontracting goals of the RFP. Baseload Power Corp. does request some additional time in providing all of the required information as requested in Section 4.10 and 4.11 of the RFP. This additional information will be provided as an addendum to the Proposal submitted on December 2nd, 2015.	1/6/2016	Additional documentation in response to the items outlined in Section 4.10 and 4.11 of the RFP will follow in an addendum.
3	12/22/2015	Schedule 3.2.22.1	In Schedule 3.2.22.1, we note that the Proposal alludes to energy storage technologies "allow electricity to be captured and dispatched whenever required," however, we did not find where the Proposal discusses the subjects below. As required by RFP Section 1.2.1, please confirm the following (a) load reduction availability days must include all days of the week. (c) Operating Months must include May 1st through September 30th.	1/6/2016	Baseload Power Corp. confirms that (a) load reduction availability days include all of the days of the week, and (c) Operating Months include at a minimum, May 1st through September 30th.	1/6/2016	No additional documentation required.
4	1/20/2016	Schedule 3.2.4c	Please provide the following four files in native excel format Schedule 3.2.4c1_SFRFP-EnergyStorage.pdf Schedule 3.2.4c2_SFRFP-EnergyStorage.pdf Schedule 3.2.4c3_SFRFP-EnergyStorage.pdf Schedule 3.2.4c4_SFRFP-EnergyStorage.pdf Also, please fill out the Reactive Power Capability (MVAR) section for the 6 power factors listed in the template on the RFP website. These columns were inadvertently omitted in the 4 pdf files submitted.	2/1/2016	My apologies. When I printed the pages in PDF it must have not fit the margins. I have provided the 4 excel spreadsheets used to create the original PDFs as an attachment.	2/1/2016	Schedule 3.2.4c1_V2_SFRFP-EnergyStorage.pdf Schedule 3.2.4c2_V2_SFRFP-EnergyStorage.pdf Schedule 3.2.4c3_V2_SFRFP-EnergyStorage.pdf Schedule 3.2.4c4_V2_SFRFP-EnergyStorage.pdf
5	1/20/2016	Section 3.2.5 Development Plans and Schedule	According to RFP Section 3.2.5 Development Plans and Schedule; Sub-Section Evidence of Community Support, the Proposal includes "Evidence of community support, which can be in the form of correspondence from local elected officials and community groups." In proposal Section 3.2.5, pg. 13; No letters of support were provided. The Respondent stated that letters will be sent as an addendum to the proposal. Please provide the requested letters of support as described in the requirement above.	2/1/2016	The Respondent has been in communication with the following community groups. The Montauk Chamber of Commerce, The Concern Citizens of Montauk and The Montauk Citizens Advisory Committee. Due to the holidays, the next meeting of the Montauk Chamber of Commerce board of directors is on Feb 9, 2016 at which point the Projects will be discussed and again a letter of support or feedback of some kind will be requested. An email from Laraine Creegan confirming this meeting is attached as Schedule 3.2.5a. I will forward the feedback from this meeting as soon as I receive it. I have also been in touch with Diane Hansman of the Montauk Citizens Advisory Committee and she is reviewing the details of the Projects. Again, due to the holidays, the next meeting they are having is on Feb 8th, 2016 and at that meeting they will also be discussing the Projects in more detail and providing their feedback. I will follow up with feedback from this meeting. I have also been in touch with Jeremy Samuelson of the Concern Citizens of Montauk and he is reviewing the details of the Projects as well. Due to the holiday, Jeremy was not able to reconvene with his board, but will be getting back to me with a time and date for their next meeting when they can discuss the Projects in more detail.	2/1/2016	See Schedule 3.2.5a_email from Laraine Creegan
6	1/20/2016	Section 3.2.5 Development Plans and Schedule	According to RFP Section 3.2.5 Development Plans and Schedule; Sub-Section Taxes/PILOT Payments, the Proposal must provide "Information about any taxes and/or PILOT agreements and plans for negotiation." Section 3.2.5, pg. 14; Respondent states the agreement is under discussion and the details will be sent as an addendum. Please provide the information as described in the requirement above.	2/1/2016	Numerous conversations have taken place with Jeanne Neilsen, Chair of Assessors - Town of East Hampton, 300 Pantigo Place, Suite 108, East Hampton, NY 11937. At this time, the feedback from Jeanne has been that the Projects will be subject to tax at the municipal level and that such tax will be based on the lease payments made to the landowners and the cost of the construction of the foundations and the cost of the container used to house the battery systems. This assessment of tax/PILOT payments is consistent with what has already been incorporated into the financial model used to drive the pricing for Baseload Power's Proposal. A more detailed tax/PILOT agreement will be organized once the Projects are given the approval to proceed from PSEG.	2/1/2016	
7	1/20/2016	Section 3.2.5 Development Plans and Schedule	According to RFP Section 3.2.5 Development Plans and Schedule; Sub-Section Operations Plan, the Proposal must provide an "Operations plan, including a maintenance schedule and outage timeframes." Section 3.2.5, pg. 15; Respondent gives a summary of an operations plan. Please provide the information as described above including more detail on the O&M plan with definitive responses on the maintenance schedule and outage timeframes.	2/1/2016	Maintenance Each year we propose a scheduled outage of the equipment for a maximum period of 2 weeks (i.e. 10 business days) this can be accommodated to low season on the shoulders of the summer peak and the winter schedule. Response times to unplanned outages are specified to 48 hour identification and notification of the time needed to remedy the defect or failure. The actual period for remedy of the defect is max. 4 weeks. In case of force majeure events these times are/might be adjusted based on accessibility of the terrain and the return after any grid failures beyond our control.	2/1/2016	See Schedule 3.2.5_User Manual
8	1/20/2016	3.2.8 Status and Reporting, Program Calculation of Impacts	According to RFP Section 3.2.8 Status and Reporting; Sub-Section Program Calculation of Impacts, the Proposal includes "...description of proposed methodology for the calculation of capacity and energy impacts along with proposed measurement and verification plan" Section 3.2.8, pg. 17; Respondent does not provide the specifics as stated in the requirement. The proposal just states the equipment will meet all reporting requirements. Please provide more detail as described in the RFP as stated above.	2/1/2016	[REDACTED]	2/1/2016	See Schedule 3.2.5_User Manual

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Clarifying Questions

Primary Contact(s):	Jonathan Sandler (jsandler@rogers.com)
Respondent:	Baseload Power Corp
Proposal:	Montauk Flow Battery Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
9	1/20/2016	3.2.9 Resource Performance	<p>According to RFP Section 3.2.9 Resource Performance, Sub-section Concept of Operations, the Proposal includes "Detailed description of the concept of operations to be employed in the solution, specifically addressing the transition from the Standby to the Transmission Support Mode."</p> <p>In Section 3.2.9; pg. 17 of the proposal, the Respondent states "Running full and half cycles based on daily operational scheduling to be determined with LIPA." Please provide a response that specifically answers the transition from Standby to Transmission Support Mode as stated in the RFP above.</p>	2/1/2016	[REDACTED]	2/1/2016	See Schedule 3.2.9a_PCS Specs and Schedule 3.2.9b
10	1/20/2016	3.2.9 Resource Performance	<p>According to RFP Section 3.2.9 Resource Performance, Sub-section Output Limitations, the Proposal includes "Description of any limitations to real and reactive power capability during undervoltage conditions."</p> <p>In Section 3.2.9; pg. 17 of the proposal, the Respondent states "Depending on LIPA schedule". Please provide a response that specifically describes the limitations as stated in the RFP above.</p>	2/1/2016	[REDACTED]	2/1/2016	See Schedule 3.2.9a_PCS Specs and Schedule 3.2.9b

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Clarifying Questions

Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater Wind Wainscott Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/8/2015	Pricing	<p>Please provide new memory sticks with all proposal documents to PSEG-LI and Sargent & Lundy. We discovered that Appendices 1-3, 1-4, 1-5, and 1-6 are missing. Also, the following files are corrupted and cannot be opened</p> <p>--\$ List of Appendixes with numbers.docx --\$p 2-X BOEM Lease #OCS-A 0486.docx --\$p 3 - X Deepwater ONE O&M Plan.docx</p> <p>Please confirm that everything else is included and not corrupted.</p> <p>Sargent & Lundy's copy can be sent to</p> <p>Doug Edgar Sargent & Lundy 55 E Monroe St. Ste. 2700 Chicago, IL 60603-5780</p> <p>The files must be consistent with the hard copy version in order to be accepted.</p>	12/11/2015	<p>Letter from Clint Plummer on 12/11/2015 states</p> <p>In response to your email of December 8, 2015, Deepwater Wind Submits the enclosed three memory sticks containing all files for our Deepwater ONE South Fork proposal, our Deepwater Wind Montauk Storage proposal and our Deepwater Wind Wainscott Storage proposal, respectively.</p> <p>We carefully reviewed each of the documents on these memory sticks and hereby confirm that all files are included and not corrupted.</p>	12/11/2015	3 Memory sticks provided via mail i.e. FedEx.
2	12/21/2015	Resource Overview	Please provide an Excel version of RFP data sheets.	1/6/2016	<p>Deepwater's Wainscott Storage proposal consists of two identical energy storage facilities on a single parcel of land (total), with one connected to the Wainscott Rd NW, and the other connected to the overhead Circuit on Hedges Lane. Deepwater offers three mutually-exclusive alternative project configurations (i) . A total of six Energy Storage Datasheets are provided, with one for each feeder in each of these configurations, as a separate tab in the spreadsheet entitled "App 2-6 Wainscott Data Sheet.xls"</p>	1/5/2016	One MS Excel spreadsheet, containing six tabs, via e-mail.
3	12/21/2015	Developer Attachment Facilities	The Proposal states that Developer Attachment Facilities Plan will require a capital investment of . Please confirm the proposal will be recovered through the capacity price as required by Section 3.2.3 of the RFP.	1/6/2016	Deepwater hereby confirms that the cost of the Developer Attachment Facilities will be recovered through the capacity price, as stated in Section 1.1.4 of our Proposal.	1/5/2016	N/A
4	1/20/2016	Section 7. Resource Performance	Per RFP section 3.2.9, Resource Performance, proposal should include description of any limitations to real and reactive power capability during undervoltage conditions. Please provide such information or identify if such where information is included and, if so, where in the proposal.	1/25/2016	<p>See attached capability curve that shows system capability curve at 90% and 100% voltage</p> <p>Please note this capability curve is for one system. There are two units separately connected in this proposal.</p>	1/25/16	GE Inverter Capability Curve
5	1/20/2016	Section 7. Resource Performance	Per RFP section 3.2.9, Resource Performance, proposal should include description of the performance of any supplemental devices, including capacitor banks, STATCOMs, SVCs, or synchronous condensers to provide dynamic reactive capability. Please provide such information or identify where information is included in the proposal.	1/25/2016	<p>Each of the 2.4 MW systems will have 2 parallel 1.25MVA GE Power Converters (PCS) with Lithium Batteries on the DC side per unit. These inverters will provide the Watts and Vars at POIs as needed. As a result our proposal will not include any capacitor banks, STATCOMs, SVC, or rotating equipment.</p> <p>See comprehensive technical cut sheet on our GE PCS.</p>		GE PCS cut sheet
6	1/20/2016	Section 10.3 Power Conversion Equipment	Per RFP section 3.2.12.3, Power Conversion Equipment, proposal should include a description of the power conversion topology (e.g., two-level voltage source converter, multi-modular voltage source converter, six-pulse thyristor line-commutated converter, etc.) (for proposed solutions that contain power converters used to provide reactive power capability and connected directly to the T&D System). Please provide such information or identify where information is included in the proposal.	1/25/2016	<p>Our PCS is a high efficiency 2 stage water cooled inverter (DC to DC IGBT bridge connected via a DC link to a DC to AC IGBT bridge).</p> <p>When the PCS is in a Grid following application like Wainscott it operates in a current source mode.</p> <p>The Plant controller will provide a P and/or Q command to the PCS and the PCS will regulate to the desired P or Q value. The PCS will regulate close loop to the desired P or Q command.</p> <p>On this application, our standard approach is to provide Frequency Response Droop and Voltage Response Droop that resides in the Plant controller as an open loop control driving the P and/or Q command to the PCS. The Droop setting of %/MW or %/MVAR and Deadband can be easily set across the desired % band specified. These constants can be easily changed to accommodate site specific needs by the operator.</p>		

Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s):	Clint Plummer (cplummer@dwwind.com)
Respondent:	Deepwater Wind, LLC
Proposal:	Deepwater Wind Wainscott Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
7	1/20/2016	Section 10.3 Power Conversion Equipment	Per RFP section, 3.2.12.3, Power Conversion Equipment, proposal should include information about the effective switching frequency, and whether the switching is synchronous or asynchronous with respect to the grid voltage (for proposed solutions that contain voltage-source power converters used to provide reactive power capability and connected directly to the T&D System). Please provide such information or identify where information is included in the proposal.	1/25/2016	The PSC is a GE Brilliance inverter, which is a grid-tied voltage-source power converter, operating in current regulation control mode. For the Wainscott Storage proposal, the PCS will operate in a Grid following application. In this application, it will operate in a current source mode. The IGBT effective PWM switching frequency is in the range of [REDACTED]. Inverter phase control is synchronous to 60Hz grid voltage waveform, and can regulate real and reactive power precisely.		

**Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions**

Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater Wind Montauk Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/8/2015	Pricing	<p>Please provide new memory sticks with all proposal documents to PSEG-LI and Sargent & Lundy. We discovered that Appendices 1-3, 1-4, 1-5, and 1-6 are missing. Also, the following files are corrupted and cannot be opened</p> <p>- \$ List of Appendixes with numbers.docx - \$p 2-X BOEM Lease #OCS-A 0486.docx - \$p 3 - X Deepwater ONE O&M Plan.docx</p> <p>Please confirm that everything else is included and not corrupted.</p> <p>Sargent & Lundy's copy can be sent to</p> <p>Doug Edgar Sargent & Lundy 55 E Monroe St. Ste. 2700 Chicago, IL 60603-5780</p> <p>The files must be consistent with the hard copy version in order to be accepted.</p>	12/11/2015	<p>Letter from Clint Plummer on 12/11/2015 states</p> <p>In response to your email of December 8, 2015, Deepwater Wind Submits the enclosed three memory sticks containing all files for our Deepwater ONE South Fork proposal, our Deepwater Wind Montauk Storage proposal and our Deepwater Wind Wainscott Storage proposal, respectively.</p> <p>We carefully reviewed each of the documents on these memory sticks and hereby confirm that all files are included and not corrupted.</p>	12/11/2015	3 Memory sticks provided via mail i.e. FedEx.
2	12/21/2015	Resource Overview	Please provide an Excel version of RFP data sheets.	1/6/2016	Deepwater offers two mutually-exclusive alternative configurations for our Montauk Storage proposal [REDACTED]	1/5/2016	One MS Excel spreadsheet, containing two tabs, via e-mail.
3	12/21/2015	Developer Attachment Facilities	The Proposal states that Developer Attachment Facilities Plan will require a capital investment of \$250,000. Please confirm the proposal the \$250,000 will be recovered through the capacity price as required by Section 3.2.3 of the RFP.	1/6/2016	Deepwater hereby confirms that the cost of the Developer Attachment Facilities will be recovered through the capacity price, as stated in Section 1.1.4 of our Proposal.	1/5/2016	N/A
4	12/22/2015	Section 1.4 Alternative Pricing Proposal #3 Delayed COD	Section 1.4 of the December 2, 2015 proposal file does not clearly state the escalation rate of [REDACTED] year for the pricing for delayed COD indicated in Table 1-1, although it does state "All other terms will be the same as in the Base Proposal." Please confirm the escalation rate for the one-year delay pricing is the same as the base proposal.	1/6/2016	Deepwater hereby confirms that the rate of escalation for the delayed COD will be [REDACTED] per annum, the same as in the base proposal.	1/5/2016	N/A
5	12/22/2015	Section 1.4 Alternative Pricing Proposal #3 Delayed COD	Section 1.4 indicates that the initial capacity payment for the delay pricing will be increased if the spot seven year USD swap rate increases by more than [REDACTED] the Base Rate. Please identify where the Proposal addresses the amount and the adjustment mechanisms for implementing the change in capacity payments if the seven year swap rate increases by more [REDACTED]	1/6/2016	<p>In response to your question, we provide the following as a clarification to our proposal.</p> <p>Deepwater is proposing an adjustment to the project's capacity price to account for potential increases in interest rates of the PPA only in the event that LIPA selects a delayed COD (i.e. a COD after 2018).</p> <p>In the event LIPA selects our Base Proposal with a 2018 COD, there will be no adjustment to the project's capacity price related to interest rates.</p> <p>In the event LIPA selects a delayed COD, we are proposing an adjustment to the project's capacity price to be established at the time of execution of the PPA based on the seven-year interest rate swap rate published by the Federal Reserve on the following web site</p> <p>http://www.federalreserve.gov/releases/h15/current/</p> <p>For our proposal, Deepwater assumed a [REDACTED] Treasuries with constant maturities as published by the Federal Reserve at the above web site 2 business days prior to the execution of the PPA is more than [REDACTED]</p> <p>For example, if LIPA selects a 2019 COD, and if the actual seven-year swap rate [REDACTED]</p>	1/5/2016	One PDF and One MS Excel spreadsheet, both containing the lookup table referenced in the Proposers Response.

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PSEG Long Island
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Clarifying Questions**

Primary Contact(s): Clint Plummer (cplummer@dwwind.com)
Respondent: Deepwater Wind, LLC
Proposal: Deepwater Wind Montauk Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response		
6	2/1/2016	Section 7. Resource Performance	Per RFP section 3.2.9, Resource Performance, proposal should include description of any limitations to real and reactive power capability during undervoltage conditions. Please provide such information or identify if such where information is included and, if so, where in the proposal.	2/4/2016	See Montauk Storage [REDACTED] capability curve at [REDACTED] provided at [REDACTED] pu voltage	2/4/16	GE Inverter Capability Curve
7	2/1/2016	Section 7. Resource Performance	Per RFP section 3.2.9, Resource Performance, proposal should include description of the performance of any supplemental devices, including capacitor banks, STATCOMs, SVCs, or synchronous condensers to provide dynamic reactive capability. Please provide such information or identify where information is included in the proposal.	2/4/2016	The 10 MW system will have [REDACTED] on the DC side per unit. These inverters will provide the Watts and Vars at POIs as needed. As a result our proposal will not include any capacitor banks, STATCOMs, SVC, or rotating equipment. See comprehensive technical cut sheet on our GE PCS.	2/4/16	GE PCS cut sheet
8	2/1/2016	Section 10.3 Power Conversion Equipment	Per RFP section 3.2.12.3, Power Conversion Equipment, proposal should include a description of the power conversion topology (e.g., two-level voltage source converter, multi-modular voltage source converter, six-pulse thyristor line-commutated converter, etc.) (for proposed solutions that contain power converters used to provide reactive power capability and connected directly to the T&D System). Please provide such information or identify where information is included in the proposal.	2/4/2016	Our PCS is a high efficiency 2 stage water cooled inverter (DC to DC IGBT bridge connected via a DC link to a DC to AC IGBT bridge). When the PCS is in a Grid following application like Montauk it operates in a current source mode. The Plant controller will provide a P and/or Q command to the PCS and the PCS will regulate to the desired P or Q value. The PCS will regulate close loop to the desired P or Q command. On this application, our standard approach is to provide Frequency Response Droop and Voltage Response Droop that resides in the Plant controller as an open loop control driving the P and/or Q command to the PCS. The Droop setting of %/MW or %/MVAR and Deadband can be easily set across the desired % band specified. These constants can be easily changed to accommodate site specific needs by the operator.	2/4/16	

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Ted Mitchell (Ted Mitchell@landisgyr.com)
Respondent: Landis+Gyr
Proposal: South Fork Demand Management Phase I/II

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	3.2.3 Pricing	As required by Section 3.2.3, please confirm the breakdown and schedule of total costs. Specifically, are the Advanced Grid Analytics one time fees or annual fees?	1/6/2016	Landis+Gyr's pricing for the Load Control Solution is based on PSEG / LIPA paying for the services on a Capacity and Energy basis as services are rendered. Those monthly charges are [REDACTED] and [REDACTED] respectively. The Advanced Grid Analytics pricing has multiple components. The Licensure and Services pricing are one time fees and the Annual Maintenance is an annual fee.	1/7/2016	
2	12/22/2015	N/A	As required by RFP Section 1.2.1, please confirm load reduction availability days includes all days of the week.	1/6/2016	Yes, load reduction capabilities are available all days of the week.	1/7/2016	
3	12/22/2015	N/A	As required by RFP Section 1.2.1, please confirm dispatch of load reduction resources is available between the hours of 1 00 p.m. and 9 00 p.m. Eastern Standard Time (EST) and length of performance period.	1/6/2016	Yes, The dispatch of load reduction resources is available for the summer season May-September between the hours of 1 00 pm and 9 00 pm EST. It s assumed that the total number of interruptions per season does not exceed 25 interruptions, and that on weekly basis the interruptions won t exceed 3 interruptions, there shall be two or less consecutive interruption days, that weekly interruption hours won t exceed 8 hours and each load reduction event is 4 hours.	1/7/2016	
4	12/22/2015	N/A	As required by RFP Section 1.2.1, please confirm operating months include May 1st through September 30th.	1/6/2016	Yes, operating months include May 1st through September 30th.	1/7/2016	
5	12/22/2015	N/A	Where in your proposal is pricing discussed for a one-year delay in pricing as required by RFP Section 2.2.1 and 3.2.3? Please note that PSEG Long Island/LIPA cannot accept any pricing adjustments that are specified after the time of the Proposal Submittal Date.	1/6/2016	Landis+Gyr will hold the same price consistent with no adjustments.	1/7/2016	
6	12/22/2015	N/A	On August 10, 2015, the Appendix A of the RFP was amended to update the description of the Load Reduction areas on the South Fork. Therefore, please specifically identify which sub-areas (i.e. between boundaries A, B, and C) specified in Appendix A, Section A6, where the Proposal will deliver its load reduction.	1/6/2016	The impact in each area will depend upon the location of the specific customers that opt in to the load control program. Landis+Gyr can target to achieve relational representation per each sub-area if that is the desire by PSEG / LIPA. In the end, the program will be driven by the willing and able participants in each area along the South Fork. The VVO contribution is expected to deliver load reduction across Area A,B and C in direct proportion to customer load (MW) during time of operation. Based on 2014 Load Duration Curve data this breaks down to Area A providing 54.5%, Area B -33.21% and Area C 12.27% .	1/7/2016	

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PSEG Long Island
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Clarifying Questions

Primary Contact(s): Victor Babbitt (victor.babbitt@res-americas.com)
Respondent: RES America Construction Inc.
Proposal: South Fork Mobile Energy Storage Solution

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	System Degradation	<p>We note that the Proposal mentions a proposed system parameter of 50-cycles per year in the Section labeled System Degradation (PDF page 33 of 58).</p> <p>As required by RFP Section 1.2.1, please confirm the following</p> <p>(a) load reduction availability days must include all days of the week.</p> <p>(b) Service Delivery Hours must cover a portion of the eight hour period between 1 00 p.m. and 9 00 p.m. Eastern Standard Time (EST). PSEG Long Island will accept resources with 2, 4, 6 or 8 hour performance periods. Resources should be dispatchable by PSEG Long Island or have a fixed dispatch time that begins either on the hours of 1 pm, 3pm, 5 pm and 7pm or the Respondent can specify that service is dispatchable at PSEG Long Island's discretion.</p> <p>(c) Operating Months must include May 1st through September 30th.</p>	1/6/2016	<p>The proposed system is capable of meeting the requirements listed in RFP section 1.2.1.</p> <p>The cycling parameter mentioned in the proposal was meant to demonstrate the degradation that the system would incur by being discharged from full rated energy to zero rated energy at a rate of ██████ per year.</p> <p>However, RES recognizes that the system may be utilized more frequently as described in the RFP. Assuming the system would discharge from full rated energy to zero rated energy at a rate of ██████ per year, which more closely resembles the requirements listed in the RFP, the system would be capable of discharging ██████ for ██████ years.</p>	1/6/2016	
2	12/22/2015	Section Developer Attachment Facilities Plan	<p>We acknowledge the Proposal would provide portable or permanent Developer Attachment Facilities (DAF) as mentioned in Proposal Section labeled Developer Attachment Facilities Plan. As required by RFP Section 3.2.3, Please provide the cost of the DAF arrangements and confirm the cost of either arrangement would be recovered through the capacity pricing and that no other facilities are envisaged.</p>	1/6/2016	<p>The pricing in the proposal for Developer Attachment Facilities (DAF) includes skid mounted transformer, switchgear, communications, and connections for the 13.8kV and 23 kV systems. This price, including full installation, falls around ██████.</p> <p>Pricing for 69 kV available upon review of site specific interconnection requirements.</p> <p>The cost for the portable arrangement is included in the capacity pricing as provided. Pricing for a permanent solution is expected to result in a similar dollar amount.</p>	1/6/2016	
3	12/22/2015	Section Development Plans and Schedule	<p>On page 19, the proposal states</p> <p>"The portable storage solution will be designed to interconnect with the PSEG LI system through one of three transformers to interconnect with the 69kV, 23kV and 13.8kV system at substations or sub-transmission or distribution lines."</p> <p>In case the Proposal is implemented on distribution lines, please complete and submit the Data Input Workbook as required by Section 3.1 of the RFP.</p>	1/6/2016	<p>Please see the attached workbook titled SFRFP DataInputs.</p> <p>Please note, there was some confusion as to how a battery storage system fit into the questions asked in the spreadsheet. Please feel free to contact RES with specific questions.</p>	1/6/2016	
4	1/20/2016	Section Developer Attachment Facilities Plan	<p>In your response to question 2, you explain that the price for 13.8 kV and 23 kV DAF systems is \$800,000. Please confirm if this amount already included in your proposed pricing.</p> <p>If the 69 kV connection option was selected, please confirm if there would be additional cost for the DAF and if you expect to recover that cost through the proposed capacity pricing. What is the expected additional price ██████ for the 69kV connection option?</p>	1/25/2016	<p>The price for the 13.8 kV and 23 kV DAF systems of ██████ is included in the proposed pricing.</p> <p>If the 69 kV connection option was selected, an additional ██████ would need to be added to the total figure to account for the increase in voltages and interconnection equipment. This additional amount could be recovered through a capacity price, however a pricing exercise to determine the appropriate capacity price that reflects this interconnection voltage has not been performed. RES is willing to provide a capacity price for this interconnection level, but requests a minimum of one week.</p>	1/25/16	
5	2/3/2016	3.2.5 – Development Plans and Schedule	<p>Per RFP 3.2.5, Proposal includes evidence of community support, which can be in the form of correspondence from local elected officials and community groups.</p> <p>Please Provide the Long Island based companies RES has engaged for obtaining community support.</p>	2/8/2016	<p>RES has engaged EJM Strategic Partners and Clearview Group to provide local expertise and gain community support upon selection. The principals of EJM Strategic Partners and Clearview Group, Ed Grilli and William Miller respectively have existing relationships with many of the local groups and town and have extensive experience working on similar and larger projects. Additionally RES is a member of the LIA and the Energy & Environment Committee</p>	2/8/16	
6	2/3/2016	3.2.5 – Development Plans and Schedule	<p>Per RFP 3.2.5, Proposal must provide information on current site control status and details of plans for obtaining site control.</p> <p>Please provide the approach (even if in theory) for site control.</p>	2/8/2016	<p>Upon selection RES would work with PSEG LI and LIPA to gain a site lease for their land adjacent to their substations. If a site outside of PSEG LI and LIPA control RES and its local partners listed above would identify and procure or lease sites in areas identified by PSEG LI. RES has a strong history of successfully procuring land for ~4,000MW's of renewable energy and storage projects throughout the US and Canada.</p>	2/8/16	
7	2/3/2016	3.2.9 – Resource Performance	<p>Per RFP 3.2.9, Proposal includes description of the concept of operations to be employed in the solution, specifically addressing the transition from the Standby to the Transmission Support Mode.</p> <p>Please provide such information or identify where information is included in the proposal.</p>	2/8/2016	<p>The ESS can gate at 0kW relative to PCC at the 480Vav connection. There will be a small amount of power flow in order to keep the ESS SoC topped up and to run the on-site electrical equipment; however the grid will see no VARs. In this mode the system is awaiting a PQ dispatch command which, once reviewed by the on site controller, can react in approximately 500ms.</p>	2/8/16	
8	2/3/2016	3.2.9 – Resource Performance	<p>Per RFP 3.2.9, Proposal includes description of any limitations to real and reactive power capability during undervoltage conditions.</p> <p>Please provide such information or identify where information is included in the proposal.</p>	2/8/2016	<p>The PCS can provide the maximum rated current and overload current throughout its operational AC voltage bounds (██████).</p>	2/8/16	

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PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Victor Babbitt (victor.babbitt@res-americas.com)
Respondent: RES America Construction Inc.
Proposal: South Fork Mobile Energy Storage Solution

Q. No.	Date Submitted	Proposal Section	Question	Response Due	By Proposer	By Proposer	By Proposer
					Proposer's Response	Date of Response	Supplemental Documentation, if any
9	2/3/2016	3.2.9 – Resource Performance	Per RFP 3.2.9, Proposal includes contribution of resource to balanced and unbalanced transmission faults, both near and remote from the resource location. Please provide such information or identify where information is included in the proposal.	2/8/2016	Depending on the pre-qualified PCS selected by RES, the short-circuit current contribution may reach [REDACTED] the nominal current rating of the inverter. For example, if the inverter is rated at 1 MW, the maximum short-circuit contribution may [REDACTED]. The PCS can also provide varying levels of overload current [REDACTED] depending on the PCS selected to support voltage sags on the feeder caused by balanced or unbalanced transmission faults in locations remote from the resource location.	2/8/16	
10	2/3/2016	3.2.9 – Resource Performance	Per RFP 3.2.9, Proposal includes description of the approach that will be taken to define the detailed short-circuit contribution characteristics of the resource, in both phase and sequence component formats. Please provide such information or identify where information is included in the proposal.	2/8/2016	Depending on the pre-qualified PCS selected by RES, the short-circuit current contribution may reach up to [REDACTED] the nominal current rating of the inverter. For example, if the inverter is rated at 1 MW, the maximum short-circuit contribution may [REDACTED]. The PCS can also provide varying levels of overload current [REDACTED] on the PCS selected to support voltage sags on the feeder caused by balanced or unbalanced transmission faults in locations remote from the resource location.	2/8/16	
11	2/3/2016	3.2.9 – Resource Performance	Per RFP 3.2.9, load reduction shall be deliverable under any meteorological conditions existing during program operational hours. Please confirm compliance or identify where information is included in the proposal.	2/8/2016	Yes, RES confirms that the system will be deliverable under any meteorological condition existing during program operational hours.	2/8/16	
12	2/3/2016	3.2.12.6 – Interconnection Lines	Per RFP 3.2.12.6, Proposal includes information about the circuit lengths and impedance of the proposed interconnection lines from the resource facilities to the Points of Interconnection. Please provide initial estimate at the three proposed locations.	2/8/2016	RES has initially proposed siting the mobile energy storage solution at the existing PSEG LI/LIPA Substations therefore the circuit lengths would be minimal. POI voltage [REDACTED] Site Condition Assumptions have been made for soil thermal resistivity, temperature etc. Length of cable [REDACTED] Cable type [REDACTED] [REDACTED] type [REDACTED] Positive sequence resistance [REDACTED] Ohm Positive sequence reactance [REDACTED] Ohm Zero sequence resistance [REDACTED] Ohm Zero sequence reactance [REDACTED] Ohm	2/8/16	
13	2/3/2016	3.2.12.6 – Interconnection Lines	Per RFP 3.2.12.6, Proposal includes information about cable type, insulation material, conductor material, core cross-sectional area, and shield configuration. Provide initial estimate of cable type, insulation material, conductor material, core cross-sectional area, and shield configuration.	2/8/2016	Insulation material [REDACTED] Conductor Material [REDACTED] Jacket [REDACTED] [REDACTED] wires [REDACTED]	2/8/16	
14	2/3/2016	3.2.12.6 – Interconnection Lines	Per RFP 3.2.12.6, Proposal includes information about conductor code, framing, and ground wires. Please provide initial estimate of conductor code, framing, and ground wires.	2/8/2016	The power cables are trefoil configuration and Ground cable is approximately 2 [REDACTED] [REDACTED]	2/8/16	
15	2/3/2016	3.2.12.7 – Controls and Protection	Per RFP 3.2.12.7, Proposal includes description of the control and protection system, including control inputs, status indications, monitored parameters, and operational feedback available to the T&D system operator. This shall also include an explanation of the protection system for the AC portion of each facility, including the interconnection lines, and indicate all relaying functions. Please provide such information or identify where information is included in the proposal.	2/8/2016	Control and protection The feeder protection will be performed by a SEL-351 relay where [REDACTED] functions will be activated, MV transformer will be protected by a current limiting and back-up fuse and battery and PCS will be protected with a breaker and contactor respectively. The feedback available to the T & D system operator can be achieved via RES designed SCADA system which will act as a resource of all available information of the energy storage system facility site equipment.	2/8/16	

Appendix TBD
PSEG Long Island
PSEG Long Island 2015 South Fork RFP
Clarifying Questions

Primary Contact(s): Matt Owens (matt owens@stem com)
Respondent: Stem, Inc
Proposal: South Fork Behind-the-Meter Energy Storage

Q. No.	Date Submitted	Proposal Section	Question	Response Due	Proposer's Response	Date of Response	Supplemental Documentation, if any
1	12/22/2015	N/A	Although the resource is behind a customer meter, please provide the data input workbook.	1/6/2016	Stem has included the data input workbook.	12/29/2015	Completed Data Input Workbook (filename PSEG SF Datasheet_Stem_151229.xlsx)
2	12/22/2015	N/A	On August 10, 2015, the Appendix A of the RFP was amended to update the description of the Load Reduction areas on the South Fork. Therefore, please specifically identify which sub-areas (i.e. between boundaries A, B, and C) specified in Appendix A, Section A6, where the Proposal will deliver its load reduction.	1/6/2016	Stem will provide a minimum of [REDACTED] reduction in the sub-area between boundaries A and B. The balance of the 3 MW commitment will be met from load reduction in the sub-area between boundaries B and C.	12/29/2015	None
3	12/22/2015	Pricing	The Proposal mentions capacity pricing in the Pricing Section (page 7) Base [REDACTED] [REDACTED] On Page 6, the Proposal offers two COD options Option 1 1 MW by May 1, 2017 and 2 MW by May 1, 2018. Option 2 3 MW by May 1, 2018. Does the one-year delay pricing correspond to COD Option 2 or is it in addition to the two options provided? Please clarify.	1/6/2016	The pricing associated with a one-year delay corresponds to both Option 1 and Option 2.	12/29/15	None
4	12/22/2015	N/A	Please provide location(s) of any proposed facility requiring construction and/or permitting.	1/6/2016	Stem is proposing to install distributed energy storage systems at various PSEG LI customer sites, behind the customer meter. At this time, Stem has not contracted with any PSEG LI customers to install systems, and thus cannot provide the specific locations where the systems will be installed. Upon entering later stage contract negotiations with PSEG LI, Stem will initiate sales and marketing efforts, and begin contracting with PSEG LI customers to install systems customer sites. Stem has customers in the hotel, retail, grocery, school, and lite industrial verticals. Likewise, Stem counts over 6% of the Fortune 500 as customers and Stem s existing sales pipeline accounts include Staples, TJ Maxx, and AMC Theaters, all of which have sites located in the Southforks target area. In addition, Stem s review of C&I customers in the Southforks area reveal excellent customer opportunities in various verticals where the Stem solution is a good fit and delivering value today in other parts of the US. These include schools (East Hampton, Ross, and Pierson districts), hotels (100+ locations), hospital (Southampton), food/grocery (King Kullen and others), various national chains (CVS, William Sonoma), industrial (East Hampton Sanitation and Montauk Recycling), and others (newspaper and vineyards). Stem has five existing national account sales executives and would look to bring on local sales executives upon contract signature with PSEG LI. In addition, Stem has channel partnerships with leading retail energy providers and building energy consultants with operations in the PSEG LI territory. The Company will leverage this sales experience and partnerships to meet its targeted commitments in the PSEG LI territory.	12/29/15	None
5	1/20/2016	Development Plans and Schedule	We acknowledge Stem will pay applicable federal, state, and local taxes. Per section 3.2.5 – Development Plans and Schedule of the RFP, Please clarify which taxes the respondent expects to incur.	1/25/2016	Stem will pay sales tax on systems and services that Stem sells to customers. Likewise, the Stem's corporate entity pays state and federal taxes on net income.	1/25/16	