

**THE NEW ENGLAND STATES COMMITTEE ON ELECTRICITY
SEEKS CONSULTANT PROPOSALS TO CONDUCT A STUDY IN CONNECTION
WITH NATURAL GAS SUPPLY FOR THE ELECTRIC SECTOR**

Proposals Due Monday October 15, 2012

September 19, 2012 - The New England States Committee on Electricity (NESCOE), New England's Regional State Committee,¹ is seeking consultant proposals to analyze the current and future natural gas fuel supply in New England and to conduct analysis that will assist policymakers' understanding of the associated future implications for natural-gas fired power generation in New England, power system reliability and consumer costs over the long-term. NESCOE seeks such proposals by *Monday October 15, 2012*.

1. Purpose of Study

ISO-New England, Inc. (ISO-NE) has identified as a strategic risk to New England's power system the increased reliance on natural gas-fired generation resources. ISO-NE has observed that sufficient gas may not be available to meet power system needs during periods of high seasonal demand, under other stressed system conditions, or when facing contingencies associated with natural gas supply/transportation system infrastructure.² The region's generation fleet's reliance on natural gas is increasing due in part to low gas prices. Electric consumers benefit from power generators' use of low cost natural gas, which may also provide environmental benefits relative to other fuels. However, ISO-NE suggests that current and expected levels of gas usage and the potential for gas unavailability may also threaten the reliability of the electric system due to infrastructure limitations and/or potential gas supply interruptions.

Through the Study described below, NESCOE seeks to confirm the nature of the asserted risk, including its timing, degree and the likelihood of adverse implications for the electric power system due to limitations in access to natural gas supplies. To the extent analysis confirms such risk, NESCOE seeks information about a range of future infrastructure development options and other potential solutions plus an evaluation of their costs and potential benefits. This information

¹ NESCOE represents the collective interests of the six New England states and advances policies that will provide electricity at the lowest possible price over the long term, while maintaining reliable electric service and environmental quality. More information about NESCOE is located at www.nescoe.com.

² ISO New England, Inc., *White Paper: Addressing Gas Dependence*, available at: http://www.iso-ne.com/committees/comm_wkgrps/strategic_planning_discussion/materials/natural-gas-white-paper-draft-july-2012.pdf.

is intended to inform policymakers' consideration of the optimal means of addressing the identified problem, and to ensure consumers have reliable electric service at the lowest cost over the long-term consistent with environmental quality.

2. Qualified consultants will:

- Possess deep knowledge of the North American natural gas transportation infrastructure and industry, the New England electric system and wholesale markets, and Federal and State energy regulation;
- Possess a superior ability to analyze the interactions between natural gas-fired electric generators and the natural gas supply and transportation industries;
- Have demonstrated experience in economic and quantitative analysis of the natural gas and electricity sectors;
- Have experience with and the capacity to utilize computer simulation techniques including transportation and production cost models;
- Understand and be able to explain barriers to financing infrastructure projects under the current regulatory frameworks and opportunities to provide investment incentives; and
- Demonstrate superior ability to communicate, verbally and in writing, technical information clearly and concisely to a non-technical audience and to provide work products within agreed upon timeframes.

3. General Description of the Study:

The Study will concisely summarize and independently validate conclusions in recent studies that the existing natural gas infrastructure is inadequate to meet New England's forecasted demand for gas in the relatively near future. Depending upon the results of that summary and independent assessment, the Study will identify the scope and assumptions regarding future electric sector-related natural gas demand and infrastructure expansion options, including sensitivities that NESCOE could select for more in-depth study. Finally, the Study will estimate the economic, reliability and other benefits (e.g., emissions) to New England electric customers on a region-wide and locational basis of various future scenarios.

NESCOE explains the three phases of the Study in greater detail below. See also Appendix A, which provides an anticipated timeline for each phase. The entire study is expected to take place over a seven-month period, once it begins.

4. Study Objectives

The objective of the Study is to assist policymakers' understanding of:

1. The utilization of current New England natural gas pipeline, storage and import infrastructure. (Phase I)
2. The risks and implications to electric consumers if New England's natural gas pipeline, storage, or import infrastructure is not expanded over the next 15 years, including an analysis of the assumptions underlying these projected risks and implications. (Phase I)

3. The current and future natural gas demand by sector, looking out 15 years under several scenarios. (Phases I and/or II)
4. Limitations of the current natural gas pipeline, storage, and import infrastructure to meet forecasted demands for gas, including the extent and duration of the infrastructure constraints. (Phases I and/or II)
5. Some possible natural gas pipeline, storage, or import expansion options to address current and anticipated future constraints. (Phases I and/or II)
6. The range of costs and benefits to New England electric customers of ensuring adequate natural gas supply for electricity generation through potential pipeline, storage, or import infrastructure enhancements, including financial, reliability and other benefits (e.g., emissions). Achievement of this objective includes analysis of the costs and benefits on a regional and locational basis. (Phase III)
7. Cost estimates of hypothetical natural gas infrastructure expansion alternatives required to meet electric customer needs most cost effectively, including a comparison of the costs with the benefits to electric consumers. (Phase III)
8. The economics of natural gas-fired generators and natural gas and electric sector infrastructure expansion projects, including business risk and cost allocation. (Phases II and/or III)

5. Detailed Description of Phase One

Phase One of the study will summarize concisely, with an emphasis on brevity, in a written report the findings of certain recent natural gas-related studies, presentations and analyses of the New England natural gas infrastructure needs. Please refer to Appendix B for a preliminary list of such studies and presentations that may merit review. Most importantly, the Phase One report will include an independent review and opinion on the conclusion(s) reached in these other studies that the existing natural gas infrastructure is inadequate to meet forecasted demand in the relatively near future. To the extent not included in the publicly available information, the Phase One report will also catalog existing northeastern pipeline, liquefied natural gas (LNG) import, peak-shaving, gas-fired generators' dual fuel capabilities and other gas delivery capabilities. In addition, the report will discuss current financial incentives and disincentives that influence electric generators' practices relative to gas supply. Finally, the Phase One report will identify any material inconsistencies in the publicly available data and any informational gaps that are material to policymakers' ability to assess the range of solutions to the identified problem.

5.1 Deliverable: Following milestone review targets that NESCOE will identify with selected consultant, Written Report and associated power point that clearly and concisely communicate analysis and related conclusions. NESCOE may also request consultant to review the analysis verbally with NESCOE Managers and answer questions.

5.2 Objective Satisfaction: The Phase One Report will meet the first and second objectives above, and potentially inform several other objectives.

5.3 Anticipated Timeframe: Phase One should take approximately one month to complete.

5.4 Work Beyond Phase I Conditional: Work beyond Phase One is conditional. NESCOE may decide not to proceed to Phases Two and Three based on the results of the Phase One study and/or other industry related developments.

6. Detailed Description of Phase Two

Based upon the information in the Phase One Report, Phase Two will provide analysis to inform development of a Phase Three study scope, which will include detailed modeling.

First, as a necessary precursor to studying electric sector impacts, Phase Two will analyze natural gas demand over the past five years, separating demand by category. This data will set the regional baseline for estimating future demand by sector. Then, Phase Two will use a 15-year time horizon to establish estimated future gas requirements under various growth scenarios.

Phase Two will identify and summarize announced pipeline expansion projects that could be utilized by the electric sector. Further, it will identify hypothetical infrastructure expansion options, such as installation of new pipeline(s) with different sizes and receipt/delivery points. These hypothetical infrastructure expansion options will include upgrades to remove constraints on the existing pipelines, greater use of storage, and imports. The hypothetical solutions will also include demand-side approaches as well as other solutions such as gas-fired power generators' dual fuel capability. This analysis will include high-level cost estimates and an articulation of the expected benefits of each hypothetical solution.

Using the natural gas demand and hypothetical infrastructure enhancement options described above, Phase Two will then identify a set of future scenarios, including various sensitivities, which NESCOE may select for further analysis. This will include development of appropriate input assumptions and scenarios, and ultimately recommendations about the most feasible and promising scenarios and sensitivities from consumers' perspectives. Phase Two will culminate in a written report that finalizes a proposed approach and study scope to further analyze potential solutions to natural gas infrastructure limitations using computer modeling.

6.1 Deliverable: Following milestone review targets that NESCOE will identify with selected consultant, Written Report and associated power point that clearly and concisely communicate analysis and related conclusions. NESCOE may also request consultant to review the analysis verbally with NESCOE Managers and answer questions.

6.2 Objective Satisfaction: The Phase Two analysis and Report will satisfy objectives three through five above and provide the basis for NESCOE to select scenarios for further analysis.

6.3 Anticipated Timeframe: Phase Two should take approximately an additional two months to complete.

6.4 Work Beyond Phase II Conditional: Work beyond Phase Two is conditional. NESCOE may decide not to proceed to Phase Three based on the results of the Phase Two study and/or other industry related developments.

7. Detailed Description of Phase Three

Relying on the study scope and assumptions developed in the Phase Two analysis and Report, Phase Three will estimate the economic, reliability, and other benefits (e.g., emissions) to New England electric customers on a region-wide and locational basis of various future scenarios. Phase Three will include complex computer simulation modeling and several discrete component analyses. Phase Three will also provide further refined cost estimates of the scenarios identified in Phase Two and a cost/benefit analysis of selected scenarios. While the specific approach to further analyze potential solutions to natural gas infrastructure limitations will be developed in Phase Two, the analysis in Phase Three will ideally utilize computer model(s) to simulate the interaction between the natural gas and electric sectors. Based upon the results of the simulated interaction between these sectors and the refined solution cost estimates, the selected scenarios and sensitivities will be evaluated for costs and benefits to New England electric customers.

In addition, Phase Three will analyze the possible approaches to implement the most cost-effective scenarios, which incorporate the region's preference for market-based approaches. As the natural gas pipeline industry uses a business model that significantly differs from the one used by the restructured electric generation industry in New England, some approaches for implementing natural gas infrastructure enhancement have different attributes than others. The Phase Three Report will analyze these attributes and recommend approaches to natural gas infrastructure expansion in a way that maximizes benefits and minimizes costs for electric ratepayers and results in the least distortion to the wholesale electricity market. Specifically, the Phase Three Report should discuss the economics of natural gas-fired generators and natural gas and electric sector infrastructure expansion projects, including business risk and cost allocation. This analysis should also examine the likelihood of whether economic incentives that may be added to New England's current electricity market would in fact result in expansion of gas pipeline capacity.

The Phase Three Report will concisely summarize the cost/benefit and implementation approach analyses and provide recommendations to inform public policymakers' consideration of potential solutions. Based on Phase Three analysis, the report should also confirm or otherwise correct the Phase One Report's findings in connection with the studies reviewed in that Phase.

In sum, the Phase Three report will provide recommendations on infrastructure and/or other opportunities that may help to provide electricity at the lowest possible price over the long term, consistent with maintaining reliable service and environmental quality, identifying the overall value to electric consumers, and evaluating associated costs and risks.

7.1 Deliverable: Following milestone review targets that NESCOE will identify with selected consultant, Written Report and associated power point that clearly and concisely communicate analysis and related conclusions. NESCOE may also request consultant to review the analysis verbally with NESCOE Managers and answer questions.

7.2 Objective Satisfaction: Phase Three will satisfy objectives six through eight above.

7.3 Anticipated Timeframe: Phase Three is expected to take approximately an additional four months to complete.

8. Form of Proposals Accepted:

8.1 Bifurcated Proposals Accepted: NESCOE will consider consultant proposals for Phases One, Two *and/or* Three, as described below. Please see further information on pricing in Section II. 5, below.

8.2 Individual or Joint Proposals Accepted: NESCOE will consider proposals from individual consulting firms and/or consulting firms that wish to submit a joint proposal. Proposals from firms submitting joint proposals should explain the way in which consultants will collaborate so that the work is performed seamlessly from NESCOE's perspective.

9. Evaluation Criteria: This request for proposals does not commit NESCOE to award a contract, pay any costs incurred in preparing proposals, or to procure or contract for any services. Each proposal should provide the information referenced herein in sufficient detail to permit accurate evaluation of such proposal. NESCOE discourages bidders from providing information that is not directly relevant to this solicitation. In preparing proposals, bidders should emphasize brevity, completeness and clarity. NESCOE will place emphasis on bidders' demonstrated ability to communicate clearly and concisely.

NESCOE will make the final selection of successful bidder. NESCOE will make its selection based on NESCOE's evaluation of proposals and NESCOE's assessment of bidders' ability to satisfy NESCOE's needs. NESCOE reserves the right to negotiate the contract rate(s) and project price(s) with successful bidder(s).

Other Information and/or Analysis: Bidders are encouraged to identify information and/or analysis that would assist NESCOE to accomplish the Study objectives identified in section 4, above, in addition to or in lieu of the analysis set forth under Phases One, Two and Three, along with deliverables, time and cost estimates of providing the same.

10. Submissions: Persons interested in submitting proposals to provide consulting services should send an electronic copy to MickiBertrand@nescoe.com and three (3) paper copies to NESCOE 655 Longmeadow Street, Longmeadow MA 01106. Proposals are due by *Monday October 15, 2012*.

11. Questions on Solicitation: Persons with questions regarding this solicitation should send them electronically in writing to MickiBertrand@nescoe.com. Questions and answers will be posted at www.nescoe.com with due care taken to conceal the identity of the person or entity asking the question. The final date and time for submitting questions is *Monday October 1, 2012 at 12:noon*. NESCOE anticipates posting answers to all such questions no later than *Friday October 5, 2012*. Persons may submit questions *prior to Monday, October 1, 2012 at 12:noon* and NESCOE will endeavor to post answers promptly.

**INSTRUCTIONS FOR FIRMS
SUBMITTING CONSULTING SERVICES PROPOSAL**

The types of services sought are described above. Section I below describes general engagement guidelines. Section II sets forth proposal guidelines. Also, attached are two affidavits that must be completed and submitted with any proposal.

SECTION I: ENGAGEMENT ACTIVITIES AND GUIDELINES

1. Time Availability

Consultant must be able to complete tasks within agreed upon timeframes.

2. NESCOE's Use of Proposals and Contractor Work Product

During the process of evaluating proposals, NESCOE reserves the right to request additional information or clarification from any consultant submitting a proposal, and to permit corrections of errors or omissions without notice to other bidders. NESCOE shall be held harmless if it or the consultant retained for this or any subsequent engagement employs at any time, any technique, methodology, or procedure suggested in any proposal, regardless of whether such proposal is from the consultant selected to perform the engagement.

Consultants submitting proposals should be aware that proposals received by NESCOE may be publicly disclosed.

Implementation plans, software programs, and other system applications developed or purchased by the consultant in connection with this engagement shall be available for use by NESCOE at no additional cost for an unlimited period after the completion of the engagement.

3. Notification of Award

In submitting a proposal, consultants agree to not make any press announcement or release a news announcement concerning the selection for the engagement without the prior written approval of NESCOE.

4. Other NESCOE Rights

NESCOE retains the right to reject any and/or all proposals submitted.

NESCOE may terminate the selected consultant's engagement at any time with or without cause. The selected consultant, by acceptance of the engagement, waives any rights to claim damages as a result of such termination.

NESCOE will be the final arbiter of all disputes arising from engagement-related matters.

5. Costs of Preparing Proposals

Any consultant submitting a proposal in response to this RFP does so at its own expense. Any consultant submitting a proposal will not include proposal costs, or any costs incurred prior to the engagement award, as reimbursable costs related to the engagement. The selected consultant will not be reimbursed for any costs incurred prior to the engagement award.

6. NESCOE Participation

NESCOE will have the right to monitor and review consultant's work product as NESCOE determines appropriate and necessary to achieve the desired and agreed-upon product from the consultant.

7. Reporting Procedures

The selected consultant(s) and NESCOE will meet and/or communicate as necessary, as determined by NESCOE, or upon request of the consultant(s), to discuss the progress of the engagement.

10. Work Products

The consultant work products may be considered public documents and may be made available for public inspection and distribution as required. NESCOE expects that draft components of final work products will be submitted to NESCOE for review and approval in accordance with time schedules NESCOE develops in consultation with consultant.

11. Work Papers

At the conclusion of the engagement, the selected firm shall make copies, including electronic copies, of significant work papers and source documents available to NESCOE, if so requested.

12. Payment

The selected consultant will submit monthly invoices to NESCOE, including all supporting documents necessary to verify consultant's expenses, such as time sheets, expense reports, and vouchers for lodging and transportation. Invoices must separately indicate: (1) professional service fees, (2) travel and lodging, and (3) all other costs.

For professional service fees billed on an hourly fee basis, invoices must identify the individuals for whom services are being billed, the number of hours, and portions thereof, being billed, detail of the activities worked on, the hourly billing rates, and the total fees.

For professional service fees billed on a flat fee basis, NESCOE and consultant will negotiate a means to track consultant activities on NESCOE's behalf.

NESCOE will be the final arbiter of all disputes regarding cost and payment.

SECTION II: PROPOSAL GUIDELINES

1. Consultant Experience and References

Please include brief (i.e., no more than one page per engagement) descriptions of related work conducted in the last four years and any related work now in progress. The proposal should indicate whether the work was performed by the consultant or by individuals independent of the consultant (i.e., subcontractors). Please indicate the date of any final report or work product for each engagement noted. Please also provide the client name, e-mail address and phone number.

2. Conflicts

To assist NESCOE's evaluation of potential conflicts or appearance of conflict issues, please list other engagements consultant has performed in the last three (3) years related to the subject matter of this RFP for any work consultant has performed for: 1) any NEPOOL Participant³ and, 2) any regional system operator. The selected consultant will be expected to update this information during the term of any engagement.

NESCOE will consider specific information about such engagement including, for example, the nature of the specific work performed and the timeframe in which services were last provided in arriving at any determination concerning potential conflicts.

Any consultant currently retained by any Transmission Owner in New England or by ISO-New England, Inc. to perform services directly related to those noted under Essential Functions, above, will likely be considered to present conflicts.

3. Resumes

Please include resumes of all individuals who are proposed to provide services to NESCOE under the engagement.

³ http://www.iso-ne.com/committees/nepool_part/index.html

For proposals that include more than one individual, the proposal should make clear the names of the persons who will perform the major portion of the engagement's duties. Such individuals should be available for an interview with NESCOE, if requested, subsequent to NESCOE's review of the proposal.

4. Organization Information (*applicable to proposals that include services of more than one person and/or more than one consulting firm*)

Proposals should include an organization chart with the names of the personnel and their area(s) of responsibility, including the specific task area(s) in which the person will participate.

For proposals submitted by more than one consulting firms that will work jointly on one or more phases of the Study, proposals should include organizational charts with the above information and which indicate the matters on which the firms propose to work jointly on the deliverable(s). Such proposals must also include an explanation of the way in which multiple consulting firms will work together so that the joint nature of the work is seamless from NESCOE's perspective.

The consultant may not hire any subcontractor to perform services or redefine the roles of the employees on the organization chart as submitted without NESCOE's prior written consent. NESCOE may reject any proposed replacements that, in NESCOE's sole discretion, are insufficiently qualified to perform the assigned tasks.

5. Pricing

Proposals should include both flat-fee estimates as well as hourly rate-based estimates. As noted in the Essential Functions section, consultants may submit proposals on Phases One, Two *and/or* Three of the Study. If a proposal includes more than one phase of the study, both flat-fee and hourly rate-based estimates for each phase and any combination of the phases should be provided. The pricing proposals for any combination of the three phases should take into account that Phase Two and Three are dependent upon NESCOE's evaluation of the previous Phases. If bidders would provide discounted pricing on any one phase if NESCOE selects their bid to provide service for more than one phase, the proposal should make such contingent discounted pricing clear.

Additionally, pricing proposals should provide additional detail specific to the Phase Three complex computer simulation modeling.⁴ The additional information should explain the type of models, the number of modeling base-case and alternate scenario set-ups and how many assumption sensitivity runs on each set-up are included in the pricing

⁴ To the extent bidders consider the specific pricing information NESCOE requests to be competitively sensitive, bidders should contact NESCOE at 203-610-7153 to discuss means to assure confidential treatment.

proposals. The pricing proposal should also include a fixed price cost to add model runs (a price for additional scenario runs and a price for additional sensitivity runs).

If more than one person is included in consultant proposal, the proposal must include a list of team member names, their level within the organization, the relative amount of work expected to be performed by each team member, and their hourly billing rate.

6. Affidavits

Please complete and submit the two (2) attached affidavits relating to political contributions by principals of consulting firms and pricing.

7. Affirmative Action and Non-Discrimination Policy

The proposal should include a brief (i.e., no more than one page) description of the consultant's Affirmative Action plan and any relevant current data.

Please also submit any written policy, resolution, or other form of documented commitment to non-discrimination in the workforce and any subcontractor's workforce to establish that consultant does not discriminate in any manner prohibited by the laws of the Commonwealth of Massachusetts or the state that is the consultant's place of business.

8. Legal Compliance

All proposals shall certify that the performance of the engagement will be in compliance with all federal and state laws and regulations, applicable in the state(s) in which all or any portion of the services will be performed, including all labor laws and all anti-discrimination regulations.

9. Insurance

The consultant selected will be expected to secure and maintain, at no cost or expense to NESCOE, professional liability insurance or Comprehensive General Liability Insurance with a combined single limit of not less than one (1) million dollars (\$1,000,000) per occurrence and two (2) million dollars (\$2,000,000) in the aggregate, to insure against damages and costs resulting from, but not limited to, negligent acts, errors, and omissions in the performance of any engagement agreement resulting from this RFP. Include in the proposal information regarding the type and amount of liability insurance carried. Proof of insurance shall be provided to NESCOE no later than the date of execution of any agreement.

10. Indemnity

The consultant will be expected to indemnify and shall defend and hold harmless NESCOE, its managers, and employees from and against any and all suits, actions, legal

or administrative proceedings, claims, demands, damages, liabilities, monetary loss, interest, attorney's fees, costs and expenses of whatsoever kind or nature arising out of the performance of this engagement, including those arising out of injury to or death of consultant's employees or subcontractors, whether arising before, during, or after completion of the services hereunder and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part, by reason of any act, omission, fault or negligence of consultants or its employees, agents or subcontractors.

**AFFIDAVIT – POLITICAL CONTRIBUTIONS
BY PRINCIPALS OF CONSULTING FIRMS SUBMITTING PROPOSALS**

I, _____
(name, title, and company name) disclose the following political contributions made to a candidate for the office of Governor of any New England state in the last four years. Please include candidate, state, amount of contribution and date. (If none, indicate “none”):

- 1.
- 2.
- 3.
- 4.

I understand that this information shall be updated, as necessary, during the pendency of this, or any other contract that I may have with NESCOE.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Name: _____ Signature: _____ Date: _____

Subscribed and Sworn before me this day of _____, 20__.

Notary Public/Commissioner of the Superior Court

AFFIDAVIT – PRICING

I, _____
(name, title, and company name) certify that: 1) the prices quoted have not been knowingly disclosed to any competitor or any other potential bidder; 2) such prices have been determined independently without communication, agreement, or collusion with such competitors or potential bidders; and 3) no attempt has been made to persuade any such competitor or potential bidder to submit or not to submit a proposal.

Sworn as true to the best of my knowledge and belief, subject to the penalties of false statement.

Name: _____ Signature: _____ Date: _____

Subscribed and Sworn before me this day of _____, 20__.

Notary Public/Commissioner of the Superior Court

APPENDIX A

Overview of Anticipated Study Tasks and Timeline

(For illustrative purposes only. Tasks are intended to be high-level representations of detailed descriptions in the narrative above.

Total expected timeframe is seven months.)

Phase	Item	Description	Time
<i>One</i>	a	Summarize public study information	
	b	Analyze existing pipeline infrastructure, capabilities, and utilization	
	c	Issue report	One Month
<i>Two</i>	a	Review past five year natural gas usage	
	b	Identify announced natural gas pipeline expansion projects	
	c	Identify potential natural gas pipeline, storage, and import expansion projects	
	d	Analyze optimal infrastructure options	
	e	Calculate/Verify high-level cost estimates of expansion projects	
	f	Develop approach for modeling assumptions, scenarios, and sensitivities	Additional
	g	Issue report and presentation material	Two Months
<i>Three</i>	a	Run in-depth modeling on selected scenarios to show: <ul style="list-style-type: none"> • Wholesale electric energy costs • Wholesale natural gas costs 	
	b	Estimate / refine construction and operational costs of selected options	
	c	Detail other economic, reliability and societal benefits likely to result from expansion projects and scenarios	
	d	Analyze the economics of selected projects and scenarios within the context of wholesale electric and gas markets	
	e	Evaluate the costs and benefits of selected projects and scenarios	
	f	Analyze various implementation approaches for selected projects and scenarios and provide recommendations	
	g	Provide overall conclusions on other third party reports and recommendations.	Additional
	h	Issue report and presentation material	Four Months

APPENDIX B

Phase One

Recent Studies, Presentations and Data Points In Connection with New England Natural Gas Supply and Implications on the Reliable Operation of the Electric Power System

1. New England Cost Savings Associated with New Natural Gas Supply and Infrastructure, Concentric Energy Advisors, May 2012
2. New Jersey Natural Gas Market Analysis, Concentric Energy Advisors, March 2011
3. Assessment of New England's Natural Gas Pipeline Capacity to Satisfy Short and Near-Term Power Generation Needs, ICF International, LLC, June 2012
4. Transco Line Northeast and Mid-Atlantic Projects, Williams Partners LP, 7th Annual Platts Development & Expansion
5. Natural Gas Whitepaper, ISO-NE 2012
6. Coordinating Natural Gas & Electricity in New England, Vamsi Chadalavada, June 2012
7. A Natural Gas Generator's Perspective, James Ginnetti, June 2012
8. Natural Gas and Electric Generation - Issues and Opportunities, Bill Yardly, Group Vice-President – Spectra Energy, June 2012

May 2012 NECPUC Symposium:

9. Coordinating Natural Gas & Electricity in New England, Peter T. Brandien - Vice President, System Operations, ISO-New England, May 2012 NECPUC Symposium
10. Gas-Electric Market Coordination Tom Kaslow - Director, Market Design & Policy, IPR-GDF SUEZ North America, Inc, May 2012 NECPUC Symposium
11. Natural Gas - A National Treasure Steve Mueller - President & CEO, Southwestern Energy Company, May 2012 NECPUC Symposium
12. Integrating Natural Gas and Renewable Generating Resources: Natural Gas Pipeline Perspective Donald Santa - President & CEO, Interstate Natural Gas Association of America May 2012 NECPUC Symposium
13. Integrating Variable Resources and Natural Gas Russ Young - Market Development Manager, GE Power & Water, May 2012 NECPUC Symposium
14. System Planning: Reliably Integrating and Managing Systems Steve Rourke - Vice President, System Planning, ISO-New England, May 2012 NECPUC Symposium
15. A New Englander's Perspective: Shale Gas-Quantities, Price and What's to be Done Richard L. Levitan, President, Levitan & Associates, May 2012 NECPUC Symposium
16. Natural Gas: Smarter Power Today Matt Most - Vice President, Environmental Policy, Encana, May 2012 NECPUC Symposium
17. The North American and Northeastern US Natural Gas Markets Bob Fleck, Vice President/Americas Gas and Power Consulting, Wood Mackenzie, May 2012 NECPUC Symposium

Northeast Gas Association 2012 Regional Market Trends Forum:

18. Cynthia Armstrong, PNGTS, "Pipeline Overview", Northeast Gas Association 2012 Regional Market Trends Forum
19. Stan Brownell, Millennium Pipeline, "Project Updates", Northeast Gas Association 2012

Regional Market Trends Forum

20. Mike Dirrane, Spectra Energy, "Project Updates" , Northeast Gas Association 2012 Regional Market Trends Forum
21. Mike Hachey, TransCanada Power, "Gas/Electric Issues"
22. Jessica Miller, Tennessee Gas Pipeline, "Project Updates"
23. Scott Perry, PA DEP, "Shale Gas Development and Environmental Protection"
24. Jennifer Robinson, BENTEK Energy, "Northeast Supply Dynamics"
25. Jeffrey Schauger, National Fuel Gas Supply / Empire Pipeline, "Project Updates"
26. Todd White, Iroquois Gas Transmission, "Project Updates"