

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
ENERGY FACILITY SITING BOARD

IN RE: INVENERGY THERMAL DEVELOPMENT LLC's
APPLICATION TO CONSTRUCT THE
CLEAR RIVER ENERGY CENTER IN
BURRILLVILLE, RHODE ISLAND

DOCKET No. SB-2015-06

**INVENERGY THERMAL DEVELOPMENT LLC'S SUPPLEMENTAL
RESPONSES TO THE DEPARTMENT OF ADMINISTRATION,
DIVISION OF PLANNING'S MARCH 21st AND MARCH 29th, 2017 DATA REQUESTS**

March 21, 2017
Request No. 1:

An update to the data that was previously requested on April 20, 2016. This update should:

- a. Account for any changes to the CREC project that are not reflected in that data, such as changes to the CREC project size, construction/operation phase timelines, generation capacity, or water plan.
- b. Include all of the inputs that were used in the input-output modeling described in section 5 of the application for both the IMPLAN and the JEDI models.

April 17, 2017
Response:

Updated JEDI and IMPLAN economic impact analysis assumptions employed by Edinaldo Tebaldi and PA Consulting Group, Inc. ("PA") are enclosed in the attached confidential spreadsheet titled: "Clear River Economic Impact Analysis Inputs and Results," and in the attached Memorandum dated April 14, 2017. The updates and changes can be summarized as follows:

- a. There have been some adjustments and increases in the revised anticipated Clear River Energy Center ("CREC" or "the Project") construction costs as compared to the values previously provided. These increased costs are attributed to several factors, including but not limited to the shift in Project scheduling by about one year due to delays in permitting and to reflect the anticipated two-stage construction schedule. There are also increased costs associated with the Project's electrical interconnect with National Grid, additional labor costs, bid estimates and firm quotes for equipment and construction to account for the two-stage construction process.
- b. The revised Water Supply Plan, filed with the Board on January 11, 2017, results in a required adjustment on the Project's capital and operating costs due to:
 - i. The replacement of the Project's original design for a permanent on site water treatment system with the revised

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Water Supply Plan utilizing rental demineralized water treatment trailers. This change in design is expected to reduce capital costs by approximately \$2 million.

- ii. The replacement of the original design utilizing a Pascoag Utility District ("PUD") water supply well, its carbon filter treatment system and associated pipeline with a supply system utilizing trucked water from the Town of Johnston. This reduced the initial capital costs due to the elimination of the water pipeline and the PUD well treatment system and added a truck facility and long-term agreement with the Town of Johnston. The associated costs for the new water plan will include a new truck filling facility in that Town of Johnston and its associated benefits package, as outlined in the agreement that Invenergy Thermal Development LLC has with the Town of Johnston. The net effect of this change was a reduction in up-front capital costs of \$2 million. This change will increase annual water costs and reduce original annual catalyst, piping and chemicals costs.
- iii. The elimination of the waste water force main and replacement with a storage tank and added recycle filter system. The net effect of this change was a reduction in up-front capital costs of \$1 million for a total reduction of \$5 million dollars (when combined with capital cost reductions from items i and ii).
- c. There have been no changes to the CREC project size or generation capacity.
- d. The above items have been included in the attached revised (confidential) Clear River Economic Impact Analysis Inputs and Results file.

**Supplemental
Response:**

The attached confidential Excel file entitled "Clear River Economic Impact Analysis and Results_06-15-2017.xlsx," attached as **Exhibit A** and "PA Consulting Group – Clear River

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Employment Impact Breakdown Memo_06-09-17.pdf," attached as **Exhibit B** summarize the latest results. The only change from the previous analysis is a revised forecast of ratepayer savings, based on the latest market assumptions for ISO-NE. The primary changes from the previous analysis include the updated Net CONE and convex demand curve shape from the forward capacity auction (FCA11), updated load forecast for ISO-NE from the 2017 CELT Report, and updated supply assumptions based on FCA11. We have also included a range of ratepayer savings based on the retirement of approximately 1 GW of the PSNH assets, which are currently being divested.

Respondent: John Niland, Invenergy Thermal Development LLC
Ryan Hardy, PA Consulting Group, Inc.

Date: June 23, 2017

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March 21, 2017
Request No. 2:

An update to the project cost data.
This update should include:

- a. The project costs by category; and
- b. The share of each of these cost categories that will go to in-state vs. out-of-state firms.

April 17, 2017
Response:

Please see the attached (confidential) file detailing all CREC economic impact analysis assumptions employed by Edinaldo Tebaldi and PA Consulting in the attached confidential spreadsheet titled: "Clear River Economic Impact Analysis Inputs and Results." All construction and operating costs as well as in-state Rhode Island share percentages have been updated where appropriate to reflect the new construction timeline and the changes discussed in the response to Request No. 1. Assumptions that have been changed are highlighted in the attached confidential spreadsheet titled: "Clear River Economic Impact Analysis Inputs and Results" with notes added where appropriate.

The inputs shown on the Energy Market Cost Savings tab in the confidential spreadsheet titled: "Clear River Economic Impact Analysis Inputs and Results" reflect PA's June 2016 projection of the energy and capacity market savings of \$210 million to Rhode Island ratepayers as a result of CREC, with the four-year totals (2019-2022) from that analysis applied to the first four years of commercial operations and as described in the Public Utilities Docket 4609.

It is important to note that these projections of energy and capacity market saving will be updated. The projections shown were completed after FCA 10 (when only one of two units cleared), and thus do reflect a two-stage construction process, but they do not reflect the current Project schedule and market assumptions following FCA 11. PA will be updating its analysis by the end of

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June utilizing market assumptions from the ISO-NE's 2017 CELT Report, which is scheduled to be released by May 1, 2017. The CELT load forecast is a primary input within PA's modeling and could have material impact on the forecasted market outlook used to calculate capacity pricing, energy pricing and emissions savings. Once PA has updated its projection of energy and capacity market savings to Rhode Island ratepayers, the economic impact analysis will be updated accordingly.

**Supplemental
Response:**

The attached **Exhibit A (confidential)** and **Exhibit B** summarize the latest results. The only change from the previous analysis is a revised forecast of ratepayer savings, based on the latest market assumptions for ISO-NE. The primary changes from the previous analysis include the updated Net CONE and convex demand curve shape from the forward capacity auction (FCA11), updated load forecast for ISO-NE from the 2017 CELT Report, and updated supply assumptions based on FCA11. We have also included a range of ratepayer savings based on the retirement of approximately 1 GW of the PSNH assets, which are currently being divested.

Respondent: John Niland, Invenergy Thermal Development LLC
Ryan Hardy, PA Consulting Group, Inc.

Date: June 23, 2017

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March 21, 2017
Request No. 3

Advise as to whether the updated information takes into account the fact that the project is split from one-stage to two-stage construction.

April 17, 2017
Response:

As noted in the previous response, PA's updated economic impact analysis takes into account the construction and operating phase assumptions consistent with the latest two-stage construction schedule, with a revised commercial on-line date of June 1, 2020.

Also, as explained in the previous response, the energy market cost savings four-year total of \$210 million also reflects a two-stage construction process (post-FCA 10), but have not yet been updated to reflect the current Project schedule and market assumptions following FCA 11. PA will be updating that analysis to account for the subsequent delay since those results were completed and the fact that the second unit did not clear in FCA 11.

As noted, PA will be updating its analysis of energy and capacity market savings utilizing market assumptions from the ISO-NE's 2017 CELT Report, scheduled to be released in the first week of May 2017. Once PA has updated its projection of energy and capacity market savings to the RI ratepayer, PA will provide an updated analysis of the economic impact of those cost savings on the Rhode Island economy. Once the 2017 CELT is released, the time required to update the energy and capacity cost savings is approximately four to five weeks, so PA expects to have an updated economic impacts analysis accounting for the updated energy and capacity cost savings by the end of June 2017.

**Supplemental
Response:**

Exhibit A (confidential) and **Exhibit B** reflect the two-stage construction process, with CREC Unit #1 coming online in June 2020 and CREC Unit #2 coming online in June 2021.

Respondent:

John Niland, Invenergy Thermal Development LLC

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Ryan Hardy, PA Consulting Group, Inc.

Date: June 23, 2017

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March 29, 2017
Request No. 1:

An update to the data and analysis provided in Sections 4.0 and 5.0 of Invenergy's Filing and Supplemental filing, including the economic and employment analysis.

This update should:

- a. Reflect the new project plan;
- b. Include calculations of Rhode Island employment, earnings, and economic output effects;
- c. Include an update to the information provided by PA Consulting Group, Inc. in its November 4, 2015 Memorandum that separates the direct and indirect Rhode Island employment and earnings impacts; and
- d. Note any changes to the underlying assumptions or methodology of the analysis that were used to account for changes to the CREC project.

April 17, 2017
Response:

Edinaldo Tebaldi and PA have provided an updated version of the November 4, 2015 memorandum. The enclosed memorandum, dated April 14, 2017, reflects Rhode Island employment and earnings projections consistent with the current CREC construction schedule as well as the latest construction and operating cost assumptions. The latest input assumptions and commentary on changes since the 2016 analysis can be found in the enclosed confidential Clear River Economic Impact Analysis Inputs and Results file. The same file also includes a summary of projected Rhode Island employment, earnings and economic output resulting from the construction, operation and energy and capacity market cost savings to Rhode Island ratepayers resulting from CREC.

As noted in previous responses, PA will be updating its analysis of energy and capacity market savings utilizing market assumptions

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from the ISO-NE's 2017 CELT Report, scheduled to be released in the first week of May 2017. Once PA has updated its projection of energy and capacity market savings to the RI ratepayer, it will provide an updated analysis of the economic impact of those cost savings on the RI economy.

**Supplemental
Response:**

The attached **Exhibit A (confidential)** and **Exhibit B** summarize the latest results. The only change from the previous analysis is a revised forecast of ratepayer savings, based on the latest market assumptions for ISO-NE. The primary changes from the previous analysis include the updated Net CONE and convex demand curve shape from the forward capacity auction (FCA11), updated load forecast for ISO-NE from the 2017 CELT Report, and updated supply assumptions based on FCA11. We have also included a range of ratepayer savings based on the retirement of approximately 1 GW of the PSNH assets, which are currently being divested.

Respondent:

John Niland, Invenergy Thermal Development LLC
Edinaldo Tebaldi
Ryan Hardy, PA Consulting Group, Inc.

Date:

June 23, 2017

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INVENERGY THERMAL DEVELOPMENT LLC
By its Attorneys,

/s/ Alan M. Shoer

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Dated: June 23, 2017

CERTIFICATE OF SERVICE

I hereby certify that on June 23, 2017, I delivered a true copy of the foregoing responses to the Energy Facilities Siting Board via electronic mail to the parties on the attached service list.

/s/ Alan M. Shoer

SB-2015-06 Invenergy CREC Service List as of 06/19/2017

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EXHIBIT A

(REDACTED)

EXHIBIT B



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June 9, 2017

To Whom It May Concern,

At the request of Invenergy LLC (“Invenergy”), Edinaldo Tebaldi and PA Consulting Group (“PA”) have prepared this memorandum to isolate the direct economic development impacts resulting from the construction and ongoing operation of the Clear River natural gas-fired combined cycle generation facility.

Figure 1 shows the jobs and income projected to be created by the construction and ongoing operations of Clear River in the State of Rhode Island. The construction of Clear River is projected to generate 306 direct jobs in 2018, 427 in 2019, and 365 in 2020, the three full years of construction, and nearly the same number of indirect and induced jobs in those years. The ongoing operation of the facility will create 23 onsite (direct) jobs annually from 2021 through 2036, and over 105 additional indirect and induced jobs (including the contractors and service professionals involved in the regular operation and maintenance of the facility).

Table 1: Employment and Earnings Impact – Rhode Island Only, 2018-2036

| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Direct Employment Impact (FTEs per year) | | | | | | | | | | | | | | | | | | | |
| Construction Period | 306 | 427 | 365 | 89 | | | | | | | | | | | | | | | |
| Facility Operations | | | 15 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Indirect & Induced Employment Impact (FTEs per year) | | | | | | | | | | | | | | | | | | | |
| Construction Period | 265 | 371 | 317 | 77 | | | | | | | | | | | | | | | |
| Facility Operations | | | 62 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 |
| Total Employment Impact | 571 | 798 | 758 | 295 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 129 |
| Direct Earnings Impact (\$ - millions) | | | | | | | | | | | | | | | | | | | |
| Construction Period | 51.7 | 73.9 | 64.5 | 16.1 | | | | | | | | | | | | | | | |
| Facility Operations | | | 1.0 | 1.7 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 2.4 |
| Indirect & Induced Earnings Impact (\$ - millions) | | | | | | | | | | | | | | | | | | | |
| Construction Period | 17.4 | 24.8 | 21.6 | 5.4 | | | | | | | | | | | | | | | |
| Facility Operations | | | 5.0 | 8.8 | 9.0 | 9.2 | 9.4 | 9.6 | 9.8 | 10.0 | 10.2 | 10.4 | 10.7 | 10.9 | 11.1 | 11.4 | 11.6 | 11.9 | 12.2 |
| Total Earnings Impact | 69.1 | 98.7 | 92.2 | 32.0 | 10.7 | 11.0 | 11.2 | 11.5 | 11.7 | 12.0 | 12.2 | 12.5 | 12.8 | 13.0 | 13.3 | 13.6 | 13.9 | 14.2 | 14.5 |

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