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**Subject** RESPONSE TO RHODE ISLAND DEPARTMENT OF  
ADMINISTRATION, DIVISION OF PLANNING'S DECEMBER 20  
DATA REQUEST

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**To** Invenergy

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**From** PA Consulting Group (Ryan.Hardy, Mason Smith)

**Date** January 9, 2018

The attached "Clear River Economic Impact Analysis and Results\_01-09-2018.xlsx" summarizes the input assumptions and results requested by the Rhode Island Department of Administration, Division of Planning on December 20th. PA has updated its analysis to reflect online dates of June 2021 for CREC Unit 1 and June 2022 for CREC Unit 2 (both delayed by one year relative to June 2017 Base Case). The costs and Rhode Island shares associated with the Construction and Operations Phase have not changed from the previous analysis. Construction will commence in January 2019, delayed by one year relative to June 2017 Base Case, so the resulting economic impacts of construction and the start of operations will be realized one year later than projected under the June 2017 analysis. The energy market cost savings to the customer have also been updated to account for the delay, and the impact of the slight decline in ratepayer savings has been captured in the summary of Rhode Island jobs and economic impacts. In this revised analysis, we are still showing ratepayer savings in 2019, due to the impact of CREC 1 clearing FCA10. Additionally, we are showing energy savings through 2024 (even though we would expect additional savings beyond 2024 from CREC's continued operation) as our analysis was focused on the 2019 through 2024 time period.

The direct economic development impacts resulting from the construction and ongoing operation of Clear River have been provided in the memo titled "PA Consulting Group – Clear River Employment Impact Breakdown Memo\_01-09-18.pdf".

Regards,

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Enc: "Clear River Economic Impact Analysis and Results\_01-09-2018.xlsx"  
"PA Consulting Group - Clear River Employment Impacts Breakdown Memo\_010918"

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January 9, 2018

To Whom It May Concern,

At the request of Invenergy LLC (“Invenergy”), PA Consulting Group (“PA”) has prepared this memorandum to isolate the direct economic development impacts resulting from the construction and ongoing operation of the Clear River Energy Center (“CREC”) natural gas-fired combined cycle generation facility. These results reflect the direct, indirect, and induced jobs and economic impacts resulting from the Construction and Facility Operations under the assumption of CREC Unit 1 coming online in June 2021 and CREC Unit 2 coming online in June 2022. The jobs and economic impacts from Construction and Facility Operations remain unchanged from the results provided to Planning in June 2017.

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 2019, 427 in 2020, and 365 in 2021, 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 June of 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, 2019-2036**

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
<b>Direct Employment Impact (FTEs per year)</b>																		
Construction Period	306	427	365	89														
Facility Operations			15	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
<b>Indirect &amp; Induced Employment Impact (FTEs per year)</b>																		
Construction Period	265	371	317	77														
Facility Operations			62	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
<b>Total Employment Impact</b>	<b>571</b>	<b>798</b>	<b>758</b>	<b>295</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>	<b>129</b>
<b>Direct Earnings Impact (\$ - millions)</b>																		
Construction Period	52.9	75.5	65.9	16.4														
Facility Operations			1.0	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
<b>Indirect &amp; Induced Earnings Impact (\$ - millions)</b>																		
Construction Period	17.7	25.3	22.1	5.5														
Facility Operations			5.1	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
<b>Total Earnings Impact</b>	<b>70.6</b>	<b>100.9</b>	<b>94.2</b>	<b>32.7</b>	<b>11.0</b>	<b>11.2</b>	<b>11.5</b>	<b>11.7</b>	<b>12.0</b>	<b>12.2</b>	<b>12.5</b>	<b>12.8</b>	<b>13.0</b>	<b>13.3</b>	<b>13.6</b>	<b>13.9</b>	<b>14.2</b>	<b>14.5</b>

**For any questions, please contact:**

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