

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
ENERGY FACILITY SITING BOARD

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In re The Narragansett Electric :  
Company d/b/a National Grid : Docket No.  
and Clear River Energy LLC :  
(Burrillville Interconnection Project) :

APPLICATION OF  
THE NARRAGANSETT ELECTRIC COMPANY  
d/b/a NATIONAL GRID AND CLEAR RIVER ENERGY LLC  
FOR LICENSE TO CONSTRUCT AND ALTER  
MAJOR ENERGY FACILITIES

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February 22, 2017

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## INTRODUCTION

The Narragansett Electric Company d/b/a National Grid (“TNEC” or the “Company”), 280 Melrose Street, Providence, Rhode Island 02907, and Clear River Energy LLC (“CRE”), One South Wacker Drive, Suite 1800, Chicago, Illinois 60606, (TNEC and CRE collectively referred to as the “Applicant”) hereby submit this application to the Energy Facility Siting Board (the “Board” or “EFSB”) for a license to construct and alter major energy facilities within the State of Rhode Island, pursuant to the applicable provisions of Rhode Island General Laws §§ 42-98-1, et seq. and the EFSB Rules of Practice and Procedure, as amended (“EFSB Rules”). Specifically, the Applicant requests the issuance by the Board of a license to construct and alter the following components of the Burrillville Interconnection Project (the “Project”):

- Construct a new 6.8-mile 345 kV transmission line (the 3052 Line) between the proposed Clear River Energy Center (“CREC”) and the existing Sherman Road Switching Station, which requires modifications to the 341 and 347 Lines.
- Rebuild a 1.6 mile portion of the existing 341 Line to provide space for the new 3052 Line.
- Realign a 1.6 mile portion of the existing 347 Line north to the alignment of the former 341 Line.
- Realign a 260 foot portion of the existing 328 Line at the Sherman Road Switching Station.

See R.I.G.L. § 42-98-3 (A) (definition of major energy facility) and § 42-98-4 (license requirement).

The Applicant is filing herewith and incorporates herein an environmental report on the project (“Rhode Island Energy Facility Siting Board Environmental Report; Burrillville Interconnection Project; Burrillville, Rhode Island (February, 2017)”) (the “ER”)<sup>1</sup> in accordance

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<sup>1</sup> The ER consists of 3 volumes: a narrative volume, a volume of figures, and a volume containing appendices.

with the procedures established by the Board. (In re AES/Riverside, Inc., Docket No. SB-88-1, Preliminary Decision and Order, pp. 12-14 (Order No. 8, March 13, 1989)). This application follows the organization of § 1.6(b) of the EFSB Rules.

1. The exact legal name of the applicant, if the applicant is a corporation, trust, association or other organized group, the State or territory under the laws of which the applicant was created or organized, the location of applicant's principal place of business, and the names of all states where the applicant is authorized to do business.

The co-applicants are:

- (i) The Narragansett Electric Company, a Rhode Island chartered public utility.

Principal place of business:

280 Melrose Street  
Providence, Rhode Island 02907

Authorized to do business in Rhode Island.

- (ii) Clear River Energy LLC, a Delaware limited liability company.

Principal place of business:

One South Wacker Drive, Suite 1800  
Chicago, Illinois 60606

Authorized to do business in Rhode Island and Delaware.

2. The name, title and post office address of one person to whom correspondence or communication in regard to the application is to be addressed.

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3. Identification of the proposed owner(s) of the facility, including identification of all affiliates of such proposed owners, as such term is defined in R.I.G.L. § 39-3-27.

The proposed owners of the facilities are (i) The Narragansett Electric Company, a Rhode Island chartered public utility, with its principal place of business at 280 Melrose Street, Providence, RI 02907, and (ii) Clear River Energy LLC, a Delaware limited liability company, with its principal place of business at One South Wacker Drive, Suite 1800, Chicago, IL 60606. CRE will own the portion of the facilities installed in the CREC ROW, as more particularly described in Section 6 below. TNEC will own the facilities installed in its right of way.

The affiliates of The Narragansett Electric Company include its parent, National Grid USA and the National Grid (US) Holdings LTD companies (all subsidiaries of National Grid plc). The corporate relationships among the National Grid (US) Holdings LTD companies are shown on Exhibit 1, attached. A listing of non-US affiliates is available upon request.

The affiliates of Clear River Energy LLC include Invenergy Thermal Development LLC. Invenergy Thermal Global LLC, a Delaware Limited Liability Company, is the parent company of both Clear River Energy LLC and Invenergy Thermal Development LLC.

4. A detailed description of the proposed facility, including its function and operating characteristics, and complete plans as to all structures, including where applicable, underground construction, transmission facilities, cooling systems, pollution control systems and fuel storage facilities associated with the proposed facility.

The Project is described in detail in § 4 of the ER.

5. Site plan for each proposed location for the facility.

Project site plans are contained in Figures 1-1, 2-2, and 4-1 to 4-10, in Volume 2 of the ER.

6. Total land area involved.

The right of way ("ROW") between the CREC and the existing TNEC ROW is approximately 0.8 mile long and two hundred fifty (250) feet in width (the "CREC ROW"). The TNEC ROW between the intersection of the CREC ROW and the Sherman Road Substation is approximately 6 miles long and varies between three (300) hundred feet in width to five hundred (500) feet in width. The existing Sherman Road Switching Station is located on a parcel of land totaling 40.7 acres and is owned in fee by TNEC.

7. Project cost.

The estimated cost of the Project is Forty-Seven Million Two Hundred Thousand Dollars (\$47,200,000). This estimate is a conceptual study grade estimate (-25%/+50%) in 2016 dollars and includes cost of materials, labor and equipment (See § 4.5.6 and Table 4-2 of the ER).

8. Proposed dates for beginning of construction, completion of construction and commencement of service.

The Project construction schedule is contained in § 4.6 and Table 4-3 of the ER. The Applicant anticipates commencing construction in Spring 2018 and having the facilities in service by Summer 2019.

9. Where applicable, estimated number of facility employees.

After completion of construction, the Project will not require the assignment of permanent employees on site to operate and maintain the facilities.

10. Proposed financing for construction and operation of the facility.

CRE will provide the funds needed to pay construction costs. These funds will originate from internal sources and, to the extent necessary, from additional financing.

11. Where applicable, required support facilities, e.g., road, gas, electric, water, telephone and an analysis of the availability of the facilities and/or resources to the project.

The construction and operation of the Project will generally not require support facilities and resources.

12. A detailed description and analysis of the impact, including cumulative impact for facilities other than transmission lines, of the proposed facility on the physical and social environment on and off site, together with a detailed description of all environmental characteristics of the proposed site and a summary of all studies prepared and relied upon in connection therewith. In the case of transmission facilities, such description and analysis shall include a review of the current independent scientific research pertaining to electromagnetic fields (EMF) and shall provide data on the anticipated levels of EMF exposure and potential health risks associated with this exposure.

The environmental characteristics of the Project site are described in §§ 6 (Natural Environment) and 7 (Social Environment) of the ER and the impacts of the Project are described in § 8 of the ER. Data regarding the current and anticipated levels of EMF are presented in § 8.16 of the ER. A review of current independent scientific research pertaining to electric and magnetic fields is contained in the report entitled “Current Status of Research on Extremely Low Frequency Electric and Magnetic Fields and Health: Rhode Island Transmission Line Projects – The Narragansett Electric Company d/b/a National Grid (March 9, 2015)” prepared by Exponent, Inc. (Appendix A to the ER). The studies relied upon for analysis of the impact, in addition to the ER, are listed on pages 46 through 56 of the Exponent report.

13. All studies and forecasts on which the applicant intends to rely regarding the need for the proposed facility, under the statewide master construction plan submitted annually including all information, data, methodology and assumptions on which such studies and forecasts are based.

The need for the Project is explained in § 3 of the ER. This Project is driven by the Company’s obligation to provide the new generator with access to the existing electric transmission system. The Project was included in the Company’s 2017 master construction plan which was filed with the EFSB on November 29, 2016.



14. Complete detail as to the estimated construction costs of the proposed facility, the projected maintenance and operation costs, the estimated unit cost of energy to be produced by the proposed facility, where applicable, and the expected methods of financing the facility. For transmission lines, the applicant shall also provide estimated costs to the community such as safety and public health issues, storm damage and power outages, and estimated costs to businesses and homeowners due to power outages.

The estimated construction cost of the Project is listed in item 7, above. The projected operation and maintenance costs are discussed in § 4.5.6 of the ER. Financing methods are discussed in item 10, above. "Unit costs of energy to be produced" is not applicable to a transmission line. Safety and public health issues are discussed in §§ 4.3 and 8.15 of the ER and the effect of the Project on service and the costs to the community are discussed in § 3 of the ER.

15. A complete life cycle management plan for the proposed facility, including measures for protecting the public health and safety and the environment during the facility's operations and plans for the handling and disposal of wastes from the facility, at the end of its useful life.

Measures for protecting the public health, safety and the environment during operation of the facilities are discussed in §§ 4.3 and 8.15 of the ER.

Plans for the handling and disposal of wastes during construction of the facilities are discussed in §§ 4.2, 4.4, 8.4, 8.15, and 9.2 of the ER.

Typically, transmission lines are not "decommissioned." In most cases, when their capacity or the end of their useful life is reached, the facility is supplemented with another line, upgraded or replaced.

16. A study of alternatives to the proposed facility, including alternatives as to energy sources, methods of energy production and transmission and sites for the facility, together with reasons for the applicant's rejection of such alternatives. The study shall include estimates of facility costs and unit energy costs of each alternative considered.

Alternatives to the Project are discussed in § 5 of the ER. Reasons for rejecting the alternatives are discussed in the same sections as the alternatives and are summarized in § 5.7 of the ER.

Costs estimates are not provided for alternatives rejected for non-economic reasons. An estimate of the cost for an underground alternative is contained in § 5 of the ER. Unit energy costs are not relevant to transmission lines or substations.

17. Identification of Federal agencies which may exercise licensing authority over any aspect of the facility.

U.S. Army Corps of Engineers - See § 10 of the ER.

18. Identification of state and local governmental agencies which may exercise licensing authority over any aspect of the facility or which could exercise licensing authority over any aspect of the facility absent the Act.

State and local agencies having licensing authority over the Project are identified in § 10 of the ER.

19. Identification of foreign governmental agencies which must issue licenses that may affect any aspect of the facility.

There are no foreign licenses required for the Project.

20. All pertinent information regarding filings for licenses made with federal, state, local and foreign governmental agencies including the nature of the license sought, copies of the applicable statutes or regulations, and copies of all documents filed in compliance with the National Environmental Policy Act, the date of filing and the expected date of decision.

The applicable statutes and regulations (including the Burrillville zoning ordinance) are voluminous and will be provided to the EFSB upon request. The Burrillville zoning application will be filed shortly after this Application. The Rhode Island DEM freshwater wetlands application will be filed shortly after this Application. The Army Corps of Engineers application will be filed shortly after this Application. The DEM freshwater wetlands permit and the Corps of Engineers permit are outside of EFSB jurisdiction. The Applicant anticipates decisions on these applications in late 2017.

21. Where applicable, the applicant must provide evidence to show that the project conforms with the Rhode Island Energy Coordinating Council's policy statement entitled Rhode Island's Options for Electric Generation dated August, 1989, including any revisions or any successor to that document which may replace it as state policy.

Not applicable.

## CONCLUSION

This application, the Environmental Report which is filed herewith and incorporated herein, and the other supporting material clearly demonstrate that, as required by R.I.G.L. § 42-98-11(B),

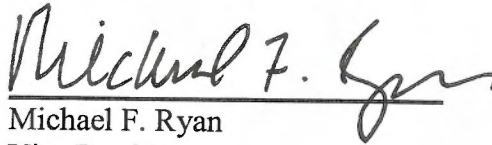
- The construction of the Project is necessary in order for the Clear River Energy Center to connect to the existing electric transmission system, and
- The construction of the Project will not cause unacceptable harm to the environment and will enhance the socio-economic fabric of the state.

For the reasons stated herein, the Applicant requests that the Energy Facility Siting Board grant to it, pursuant to R.I.G.L. § 42-98-1, et seq., a license to construct the Project including the following components:

- Construct a new 6.8-mile 345 kV transmission line between the CREC and the Sherman Road Switching Station, which includes modifications to the 341 and 347 Lines.
- Rebuild a 1.6 mile portion of the existing 341 Line to provide space for the new 3052 Line.
- Realign a 1.6 mile portion of the existing 347 Line north to the former 341 Line.
- Realign a 260 foot portion of the existing 328 Line at the Sherman Road Switching Station.

Respectfully submitted,

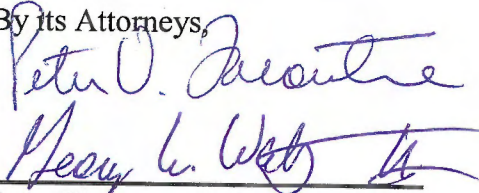
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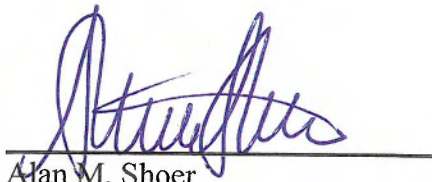
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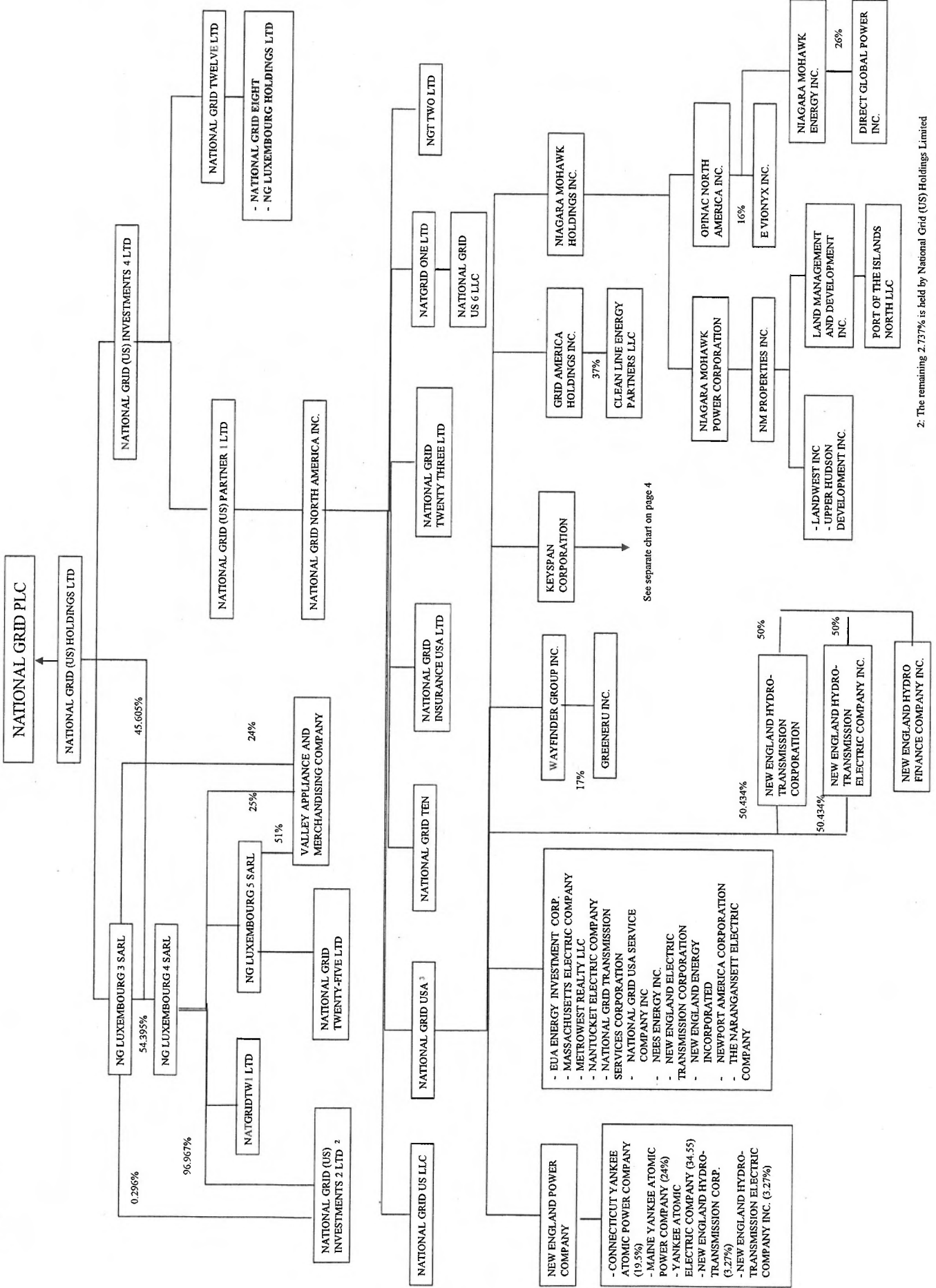
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EXHIBIT 1



2. The remaining 2.737% is held by National Grid (US) Holdings Limited  
 3. 6 series of preferred stock (non voting) held by National Grid Twenty Three Ltd