

The Narragansett Electric Company d/b/a National Grid  
and Clear River Energy LLC  
(Burrillville Interconnection Project)  
RIPUC Dkt. No. 4737

Testimony of  
Mark A. Stevens, P.E.

November 7, 2017

1 Q. Mr. Stevens, please state your name and business address.

2 A. My name is Mark A. Stevens. My business address is 40 Sylvan Road, Waltham,  
3 Massachusetts 02451.

4 Q. By whom are you employed and in what position?

5 A. I am employed as a Principal Engineer by National Grid USA Service Company  
6 (“National Grid”) in the Transmission Planning Department.

7 Q. What are your responsibilities in that position?

8 A. I am responsible for transmission system planning for National Grid in its New England  
9 service territory.

10 Q. Please describe your education, training and experience.

11 A. I am a graduate of the University of Vermont, holding a Bachelor of Science degree in  
12 Electrical Engineering; I am also a graduate of Northeastern University, holding a Master  
13 of Science degree in Electrical Engineering. I have fourteen years of experience in power  
14 system planning and analysis. I have been a Principal Engineer in the Transmission  
15 Planning Department since July of 2016; prior to that I was a Lead Engineer (since 2007)  
16 and a Senior Engineer in the department since October of 2003. During this time, I have  
17 been responsible for many transmission planning studies. From September 1995 to  
18 October 2003, I was employed as an electrical engineer in the Energy Management  
19 System group in the Dispatching Department at National Grid. I am also a Registered  
20 Professional Engineer in the Commonwealth of Massachusetts.

21 Q. Have you previously testified before public utility regulatory bodies in Rhode Island?

1 A. Yes. I have presented testimony before the Public Utilities Commission for the Interstate  
2 Reliability Project and the Rhode Island Reliability Project.

3 Q. Mr. Stevens, are you familiar with the Burrillville Interconnection Project (“Project”)?

4 A. Yes. We participated in a study led by the ISO – New England (“ISO-NE”), which  
5 evaluated different options for connecting the proposed Clear River Energy Center  
6 (“CREC”) to the New England electric system.

7 Q. Mr. Stevens, are you familiar with National Grid’s and Clear River Energy LLC’s Energy  
8 Facility Siting Board Application, including the Environmental Report prepared by  
9 Power Engineers for the Project?

10 A. Yes, I helped prepare the description of the need for the Project in the Environmental  
11 Report.

12 Q. What is the Burrillville Interconnection Project?

13 A. The Project is a new transmission line to connect the proposed CREC to the New  
14 England electric system. The major component of the Project is the new 6.8 mile 345 kV  
15 transmission line from the CREC to the Sherman Road Switching Station.

16 Q. What is the scope of your testimony in this proceeding?

17 A. I will describe the transmission planning study that was conducted and address several  
18 alternatives which were examined as part of the process. A more detailed description is  
19 contained in Chapter 3.0 of the ER and in the Feasibility Study Report for Generation  
20 Interconnection Request: Queue Project 489 (August 7, 2015).

21 Q. Please describe the process for determining how a new generator will connect to the  
22 electric system.

1 A. When a new generator is proposed, ISO-NE typically performs a feasibility study to  
2 explore interconnection options and to preliminarily identify any reliability issues relative  
3 to the criteria and standards of ISO-NE, the Northeast Power Coordinating Council, the  
4 North American Electric Reliability Corporation as well as those contained in the  
5 National Grid Transmission Group Procedure 28 – Transmission Planning Guide. After  
6 the study is completed, a preferred interconnection option is selected and a more detailed  
7 system impact study is initiated. The feasibility study for the CREC interconnection,  
8 Feasibility Study Report for Generation Interconnection Request: Queue Project 489  
9 (August 7, 2015), examined the impact of connecting CREC to the existing 341 Line, to  
10 the 347 Line, and to both lines. The study concluded that each of these connection  
11 alternatives would adversely impact the import capability of the Southeastern  
12 Massachusetts/Rhode Island electrical zone under N-1-1 contingency scenarios. ISO-NE  
13 determined that a direct connection to the Sherman Road Switching Station via a  
14 dedicated 345 kV line avoided this adverse impact.

15 Q. Does this complete your testimony?

16 A. Yes, it does.