

March 18, 2021

**BY ELECTRONIC MAIL**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

**RE: Docket 5099 - Proposed FY 2022 Gas Infrastructure, Safety, and Reliability Plan Responses to Record Requests**

Dear Ms. Massaro:

I have enclosed an electronic version of National Grid's<sup>1</sup> response to Record Request No. 4.

This transmittal completes the Company's responses to the record requests issued at the evidentiary hearing on March 11, 2021 in this matter.

Thank you for your attention to this matter. If you have any questions, please contact me at 781-907-2121.

Very truly yours,



Raquel J. Webster

Enclosures

cc: Docket 5099 Service List  
Leo Wold, Esq.  
Al Mancini, Division  
John Bell, Division  
Rod Walker, Division

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid (National Grid or Company).

Record Request No. 4

Request:

How much of the EE demand response relates to backup oil?

Response:

The Non-Infrastructure component of the Company's proposed "hybrid approach" for Aquidneck Island includes several new demand response measures. These measures can be broken into two categories:

**1. Measures that address *design day* challenges on Aquidneck Island:**

National Grid would intend to continue incentivizing the two large commercial customers located on Aquidneck Island that currently participate in the Company's Extended Demand Response Pilot through enrolling those customers in the Extended Gas DR Program to be proposed as a component of the Aquidneck Island "hybrid approach". Customer participation in the Extended Demand Response Program would continue relying on participating customers switching to a different heating fuel (oil) for the coldest days.

Additionally, the Company would pursue incentivizing up to 14 additional large commercial customers on Aquidneck Island to install backup oil heating and associated oil storage equipment in order to enable participation in the program beyond the limited numbers of large commercial and industrial ("C&I") customers on Aquidneck Island that currently have dual-fuel capability. The Company would also seek customers that can limit design day usage through other means (e.g., limiting process loads), but the prevalence of customers with such a capability on Aquidneck Island is currently unknown and assumed to be very limited given the nature of the commercial and industrial sector on the island.

**2. Measures that address *design hour* challenges on Aquidneck Island:**

The Company's plan includes offering two additional programs, one for commercial and industrial customers and one for residential customers. The commercial and industrial offering would include the installation of a meter at each participant's location to track event usage, and then call for participants to reduce gas demand over a three-hour event. The Company assumes that this program could reach approximately 70 additional commercial and industrial customers on Aquidneck Island. The residential program would be a thermostat direct load control ("DLC") program under which the Company would, in exchange for an incentive payment, slightly lower the thermostat setpoint (for customers with connected thermostat capabilities who opt-in to the

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program and specific event participation) to reduce heating consumption during a four-hour event window. For this program, the Company assumed that customer participation would be roughly 25% of residential heating customers by 2035.

**Proportion of proposed Demand Response measures involving backup fuel (oil):**

Most near-term savings come from continuing the Company’s existing dual-fuel pilot with two large customers (“Tier 1” in the table below).

By 2034/35, approximately 2/3 of design hour capacity provided by demand response is projected to come from dual-fuel programs (“Tier 1” and “Tier 2” in the table below). The remainder comes from the short-duration commercial / residential programs described above (“Tier 3” and “Res\_SMB BYOT” in the table below).

Notably, practically all proposed design day savings from demand response would come from dual-fuel programs, as the other programs considered are short-duration measures with limited impacts to design day savings.

Total Design Hour Savings from Demand Response (Dth/hr)		
Tier	2021-22	2034-35
Tier 1	30	30
Tier 2	9	62
Tier 3	3	37
Res_SMB BYOT	1	5
<b>Total</b>	<b>43</b>	<b>134</b>

Certificate of Service

I hereby certify that a copy of the cover letter and any materials accompanying this certificate was electronically transmitted to the individuals listed below.

The paper copies of this filing are being hand delivered to the Rhode Island Public Utilities Commission and to the Rhode Island Division of Public Utilities and Carriers.

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Joanne M. Scanlon

March 18, 2021

Date

**Docket No. 5099- National Grid's FY 2022 Gas Infrastructure, Safety and Reliability (ISR) Plan - Service List 1/7/2021**

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