

November 20, 2015

**BY HAND DELIVERY AND ELECTRONIC MAIL**

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

**RE: Docket 4581 - The Narragansett Electric Company, d/b/a National Grid  
2016 System Reliability Procurement Report  
Responses to PUC Data Requests – Set 1**

Dear Ms. Massaro:

I have enclosed ten copies of National Grid's<sup>1</sup> responses to the first set of data requests issued by the Public Utilities Commission in the above-referenced docket.

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

Very truly yours,



Raquel Webster

Enclosure

cc: Docket 4581 Service List  
Karen Lyons, Esq.  
Jon Hagopian, Esq.  
Steve Scialabba, Division

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

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.

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.

\_\_\_\_\_  
Joanne M. Scanlon

November 20, 2015  
Date

**Docket No. 4581 - National Grid - 2016 System Reliability Procurement Report (SRP)**  
**Service list updated 10/19/15**

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COMM 1-1

Request:

Please confirm that the SRP Program consists of 4 programs:

EnergyWise Program  
DemandLink Programmable Controllable Thermostat Program  
DemandLink Window AC Rebate Program  
DemandLink Window AC Recycling Program

Response:

System Reliability Procurement (SRP) refers to the greater process governed by the Standards of Least Cost Procurement and through which the Company files its triennial SRP Plans and annual SRP Reports.

Within SRP, the Company has proposed the DemandLink non-wires alternative (NWA) pilot in Little Compton and parts of Tiverton, Rhode Island, served by feeders 3 and 4 from the Tiverton substation. This pilot offers enhanced incentives for certain energy efficiency (EE) and demand response-based products that are believed to be especially effective in reducing electricity load during the local area's peak hours of approximately 3:30 p.m. - 7:30 p.m. Some of these measures are offered through the Rhode Island Energy Efficiency Program Plan (EPPP), while others are exclusive to the DemandLink pilot.

Prior to 2016, the Wi-Fi thermostats, plug devices, window AC purchase rebates, and window AC recycling rebates have all been offered to customers as individual offers exclusively through the DemandLink pilot, rather than through separate programs. However, to provide an implementation process that is simple and convenient for customers, the Wi-Fi thermostats and plug devices are delivered through the Company's EnergyWise program. The DemandLink pilot also promotes EnergyWise and Small Business Direct Install program assessments in general.

COMM 1-2

Request:

Footnote 4, page 5 of 32. What are the reasons that projects ineligible for NWAs would not be included in the ISR budget in a given year?

Response:

The primary reason that a project that is ineligible for NWAs is not included in the ISR plan budget in any given year is budget limitation. Because there are limits to the annual capital budgets, the Company may not be able to include all the projects identified in the planning processes in a given year, and therefore, projects that are ineligible for NWAs may not be included in that year's ISR plan budget. The Company can manage this limitation by phasing the project into future years or by lengthening the project schedule. The Company reviews and accepts the inherent risk of delaying the project's benefit prior to deferral.

Similarly, because the NWA criteria screen for projects that are three years or more into the future, a project that fails to meet this criterion will not appear in the subsequent annual ISR plan. It may be proposed in an ISR plan filing further in the future.

COMM 1-3

Request:

Page 5 of 32. Is the Company concerned that no projects were eligible for NWAs during the period April 1, 2014 through March 31, 2015? If yes, what, if any, steps are being taken to address this concern?

Response:

The Company is not concerned that projects initiated during the referenced time frame were not eligible for NWAs. NWAs are primarily intended for system capacity and performance needs related to load growth/migration, which is apparent in the NWA screening criteria in the Least Cost Procurement Standards.

Currently, it is not feasible to use NWAs to delay or reduce the scope of a project that is intended to address certain criteria such as a customer/public requirement, damage/failed equipment, or the deteriorated condition of a Company asset. The 37 projects the Company reviewed had one or more of these criteria. For the 2016 SRP Plan, the Company will look at opportunities for partial solutions with future projects in efforts to address these issues.

The Company is interested in pursuing other NWAs to determine whether they will ultimately prove to be another viable option for providing safe and reliable electric service to customers, which is the Company's top priority. Continuing the Tiverton and Little Compton pilot is the best option in 2016 for the Company to advance the long term objectives for NWAs.

COMM 1-4

Request:

List all projects which have occurred since the inception of the DemandLink Pilot. Identify each project by name, location and a brief explanation of the project.

Response:

Please see Attachment COMM 1-4 for a list of all discretionary, non-programmatic projects that have been initiated and internally approved since the inception of the DemandLink Pilot. Non-discretionary projects, which include customer service projects, public requirements, and damage/failure projects, are not included because NWAs cannot be used for these types of projects.

**Projects Initiated Since DemandLink Pilot Inception**  
**Excludes: Customer Service, Public Requirements, and Damage/Failure Projects**

**Abbreviation Key**

Dline = Distribution line project

Dsub = Distribution substation project

EMS = Energy Management System – EMS projects install the necessary sensing and communication wiring and equipment to provide the control center(s) remote status and control of the major substation equipment. These projects may include human machine interface (HMI) and remote terminal unit (RTU) equipment. (See below).

HMI = Human Machine Interface – similar to the use of the term “GUI” or “graphical user interface” in the computer industry to indicate an interface that allows computer users to interact with data and create actions through simple graphical icons and visual indicators. An HMI is an interface that allows a local operator to receive the variety of substation equipment data and manage and control such equipment

IRURD = Inject/Replace Underground Rural Development – this is a project title code to allow filtering of these programmatic types of projects

kV = kilovolt

MH = manhole

MITS = Modular Integrated Transportable Substation – this is packaged medium-voltage substation

MVA = mega volt-amps

MVAR = mega volt-amps reactive

P## = pole number on a specific street

PILC = paper insulated lead cable

RTU = Remote Terminal Unit – installed at a substation (the remote terminal) to collect and transmit data from the station to the central control center and vice versa for the various controllable substation equipment

UG = underground

URD = Underground Rural Development

XLPE = cross-linked polyethylene – this is a common plastic underground cable insulation

Project #	Project Name	Location	Description
CD00518	Spare Transformer - Peacedale	Rhode Island	The purpose of this project is to provide a transformer system spare for nine transformers in RI.
CD00526	EMS Add-Peacedale 59 RI	Wakefield	This project is part of the remote terminal unit (RTU) program to install/expand RTU at the Peacedale Sub 59 to gain status and control of existing assets at the substation.
C041726	Replace HMIs – NEC	Rhode Island	This project involves the purchase of two spare human machine interface (HMI) computers to address immediate need in the event of failure.
CD00528	EMS Expansion - Natick 29 Substation	Warwick	This is part of the remote terminal unit (RTU) program to install/expand RTU at the Natick 29 substation to gain status and control of existing assets at the substation.
CD00529	EMS Expansion - Hospital Sub 146	Newport	This is part of the RTU program to install/expand RTU at the Hospital 146 substation to gain status and control of existing assets at the substation.
CD00530	EMS Expansion - Elmwood Outdoor 7	Providence	This is part of the RTU program to install/expand RTU at the Elmwood Outdoor 7 substation to gain status and control of existing assets at the substation.
CD00531	EMS Expansion - Division Street 61	Warwick	This is part of the RTU program to install/expand RTU at the Division Street 61 substation to gain status and control of existing assets at the substation.
CD00533	EMS Expansion - Lincoln Ave 72	Warwick	This is part of the RTU program to install/expand RTU at the Lincoln Ave 72 substation to gain status and control of existing assets at the substation.
CD00534	EMS Expansion - Old Baptist 46	North Kingstown	This is part of the RTU program to install/expand RTU at the Old Baptist substation to gain status and control of existing assets at the substation.
CD00557	Harrison Feeder Upgrades	Newport	Upgrade Harrison substation getaways to improve feeder ratings.
CD00601	Retire Pawtuxet Substation (Dsub)	Cranston	Retire Pawtuxet substation due to flood risk and asset concerns by transferring load to the existing area 12.47kV distribution system and the Lakewood 4.16kV distribution system.
CD00641	Retire Pawtuxet Substation (Dline)	Cranston	Retire Pawtuxet substation due to flood risk and asset concerns by transferring load to the existing area 12.47kV distribution system and the Lakewood 4.16kV distribution system.
CD00648	Eldred Sub Asset Replacement (Dsub)	Jamestown	The recommended plan to address asset condition concerns at Eldred substation is to rebuild this station utilizing 2-standard open air construction modular feeders.
CD00649	Gate 2 Substation (Dsub)	Newport	This project is for the 23kV work associated with adding a 2nd 69/23kV transformer at Gate 2 and to retire Gate 2 4kV substation.
CD00651	Bailey Brook Retirement (Dsub)	Middletown	Following the Newport capacity projects, this project involves the retirement of the Bailey Brook substation and the removal of substation equipment.
CD00652	Vernon Retirement (Dsub)	Newport	Following the Newport capacity projects, this project involves the retirement of the Vernon substation and the removal of substation equipment.
CD00656	Jepson Substation (Dsub)	Middletown	This project involves the retirement of the Jepson 4kV substation
CD00659	Eldred Sub Asset Replacement (D-Lin)	Newport	This project involves the recommended plan to address asset condition concerns at Eldred substation. This plan involves rebuilding the station utilizing two standard open air construction modular feeders.
CD00686	IRURD Carriage Drive	Lincoln	This project involves the rehabilitation of the carriage Heights underground residential development (URD) in Lincoln, RI via cable injection and replacing cable that cannot be injected.
CD00696	Mobile Sub - Replace Mobile Substation #9734	Rhode Island	This project involves the purchase of new 10 MVA, 34 kV x 23 kV Delta - 11.5 kV Delta x 12.4 kV Wye - 8.3 kV Wye x 4.8 kV Delta x 4.1 kV Wye x 2.4 kV Delta mobile substation.

Project #	Project Name	Location	Description
C042692	Wood River - Differential Scheme	Charlestown	This project involves the installation of differential scheme at the Wood River Sub #85 to replace the existing distance directional over current scheme. Project is a result of Butyl potential transformer failure on Feb 2012.
CD00808	68F3 - Kings Factory Rd stepdown co	Charlestown	This project involves the conversion of a portion of Kings Factory Rd in Charlestown RI to 7.2kV to eliminate the low voltage condition that exists during the summer months.
CD00826	IRURD Stonegate ReplacementN.Kingsto	North Kingstown	This project involves the replacement of direct buried URD cable at Stonegate Village in No.Kingstown RI by installing 2 conduits and cables and install 4 minipads to replace submersible vaults.
CD00827	IRURD South Rd Est So. Kingstown	Wakefield	This project involves the injection of cable cure or the replacement of cables in this large URD development fed off P59 South Rd and P47 South Rd in South Kingstown.
CD00859	Tiverton - Install metering on 33F1	Tiverton	The project involves the installation of wireless telemetric metering on four feeders at the Tiverton Substation. These meters will be needed to measure the effectiveness of the non-wires alternative pilot being installed on the Tiverton 33F3 and 33F4 circuits.
CD00902	Feeder 1107 Install Cable - Chapel St & w	Providence	This project involves a feeder 1107 out of Franklin Square substation in Providence. This feeder is one of eight feeders supplying the downtown Providence AC network. This project covers expenditures necessary to replace paper-lead cable in a limited area.
CD00909	Replace UG switch - MH2784 Smith St	Providence	This project involves the replacement of SF6 underground switch with standard equipment.
CD00916	Wood River - EMS Expansion	Charlestown	This project will provide status, control and analog measurements of the circuit switches, breakers and reclosers to energy management system (EMS) via the existing RTU. The 85T1 and 85T3 reclosers will be replaced.
CD00926	Feeder 37K22 Install Cable - Merton sub t	Newport	This project covers expenditures necessary to replace paper-lead cable on the portion of feeder 37K22 between Merton and West Howard substations as part of the underground cable replacement initiative.
CD00932	Worden Pond Rd Conversion So. Kings	South Kingstown	This project involves the conversion of the single phase tap on Worden Pond Rd in South Kingstown, RI to 7.2kV. The project also involves the removal of the current stepdown transformer from P78 Worden Pond Rd because that transformer is overloaded.
CD00937	IRURD Village Green Rehab	East Providence	As part of the URD Cable program, this project involves the rehabilitation of the three-phase and single-phase looped URD by attempting injection on 24,924 feet of 1/C #2 Al XLPE cable in 120 sections (single-phase quantities) and replacing sections that could not.
CD00972	New Highland Drive Substation – Dsub	Cumberland	This project will cover Distribution Substation costs associated with the New Highland Drive Substation.
CD00978	New Highland Drive Substation – Dline	Woonsocket	This project will cover distribution line costs associated with the New Highland Drive substation.
CD00998	Replace switchgear - Huntington Tow	Providence	This project involves the replacement of deteriorated padmounted switchgear at Huntington Towers on Benedict Street in Providence.
CD01003	Replace switchgear - Parkis Place,	Providence	This project involves the replacement of deteriorated padmounted switchgear at Parkis Place on Parkis Avenue in Providence.
CD01025	Converting Customers to 127W41	Burrillville	This project will transfer customers from the 127W43 to the 127W41 to maintain a reliable supply to Pascoag Municipal.
CD01079	1107 - Cable Replacement - Mathewson Street	Providence	The feeder 1107 out of Franklin Square substation in Providence is one of eight feeders supplying the downtown Providence AC network. This project covers expenditures necessary to replace paper-lead cable in a limited area.
CD01087	Wakefield 17F1 Feeder Upgrades	Wakefield	This project involves the upgrade the Wakefield 17F1 feeder.

Project #	Project Name	Location	Description
CD01093	KENTS CORNER transformer contingency	East Providence	This project involves the conversion of approximately 0.34miles of 4.16kV 477Al between pole 16 and 9001 on Turner Ave.
CD01097	Warwick Mall Substation Flood Restoration	Warwick	Flooding in March 2010 resulted in significant equipment damage at Warwick Mall substations. This project raises certain equipment to address the flood risk.
CD01101	Kent County 2nd Transformer (Dsub)	Warwick	To address load at risk at Kent County substation, this project installs a second 115/13.2kV, 24/32/40 MVA power transformer at this station. To address flooding and environmental risks at Hunt River substation this project installs a new feeder.
CD01102	Hunt River Substation Retirement	Warwick	To address flooding and environmental risks at Hunt River substation, this project installs a new feeder at Kent County substation. The new feeder will allow for the retirement of Hunt River substation.
CD01104	Kent County 2nd Transformer (Dline)	Warwick	To address load at risk at Kent County substation, this project installs a second 115/13.2kV, 24/32/40 MVA power transformer at this station.
CD01109	Wakefield - GE Butyl Rubber PT Replacement	Wakefield	This project will replace (9) 34.5 kV GE Type Butyl Rubber PTs due to elevated partial discharge and a high probability of failure at the Wakefield Substation.
CD01194	Replace Padmount Switchgears 79F1-13F	Providence	This project involves the replacement of deteriorated padmounted switchgear in Providence.
CD01213	OS Voltage Regulator Spare	Kingstown	This project involves the replacement of a voltage regulator spare that was used at Davisville Substation this year due to a failure. This new spare provides support to the 34.5 kV system and will be housed at Davisville Substation.
CD01242	Pontiac Substation Flood Restoration	Cranston	This project is required to address reliability concerns at Pontiac substation and to address flood related issues.
CD01243	Pontiac substation Flood Restoration	Cranston	This project involves the installation of new cable getaways for 27F1, 27F2, 27F5 & 27F6 Feeders.
C046352	Volt Var Dline RI Pilot Project	Rhode Island	This is the RI Volt/Var Mgmt Pilot Project.
C046384	Storm Hardening - Hope 15F2 Feeder	Scituate	This project involves the improvement of this feeder's storm reliability by reconductoring targeted sections of this feeder with spacer cable and installing additional lightning protection.
C046397	Feeder 1109A - Install Cable Dorrance	Providence	Feeder 1109 out of Dyer Street substation in Providence is one of eight feeders supplying the downtown Providence AC network. This project covers expenditures necessary to replace paper-lead cable in a limited area.
C046398	Memorial Blvd Easton's Beach Cable Replacement	Newport	This is an asset replacement project to relocate 2 - 25 kV circa 1965 direct buried cables from a right-of-way.
C046399	Feeder 1103 Install Cable So Main St Prov	Providence	Feeder 1103 out of Dyer Street substation in Providence supplies customers in the East Side of Providence. This project covers expenditures necessary to replace paper-lead cable in a limited area on the feeder as part of the underground cable replacement initiative.
C046400	Capital Ctr Feeders - Eliminate T-body join	Providence	Replace T-Body splice on the Lippit Hill 79F1 Feeder in the capital center area of providence.
C046405	Feeder 1113 Install Cable Fountain St Pro	Providence	Feeder 1113 out of South Street substation in Providence is one of eight feeders supplying the downtown Providence AC network. This project covers expenditures necessary to replace paper-lead cable in a limited area of the feeder as part of the underground cable replacement initiative.
C046406	Feeder 1109B Install Cable Pine St &	Providence	Feeder 1109 out of Dyer Street substation in Providence is one of eight feeders supplying the downtown Providence

Project #	Project Name	Location	Description
	west		AC network. This project covers expenditures necessary to replace paper-lead cable in a limited area.
C046506	Tunk Hill Road, Scituate RI, Storm	Scituate	This project involves the reconductoring of 10,300 feet of 1/0 Al with 477 spacer cable from pole 21 Hope Furnace Road to pole 87 Tunk Hill Road in Scituate, RI. This project will also involve tree trimming along the entire stretch of Tunk Hill Rd.
C046662	Kents Corner47- Feeder 47J3	East Providence	This project involves upgrading the regulator at station to 3-167kVA. This will increase the rating of the limiting element.
C046697	Hope Substation Flood Restoration	Scituate	To mitigate potential flood damage to Hope substation equipment , this project is recommended to elevate the substation equipment at risk.
C046726	East Providence Substation (Dsub)	East Providence	This project involves building a new 115/12.47kV substation on First Street in East Providence. Initial construction will include a single 40MVA LTC transformer, straight-bus metal-clad switchgear, four feeder positions, and a 7.2MVAR two-stage capacitor bank.
C046727	East Providence Substation (Dline)	East Providence	This project involves building a new 115/12.47kV substation on First Street in East Providence. Initial construction will include a single 40MVA LTC transformer, straight-bus metal-clad switchgear, four feeder positions, and a 7.2MVAR two-stage capacitor bank. This project funds the Dline work associated with the 4-Feeders.
C046735	Harrison Replace Metalclad Gear	Newport	This project will cover costs associated with the metal clad replacement for Harrison substation as per the strategy.
C046736	Washington 261 - Replace Metalclad	Lincoln	This project will cover costs associated with the metal clad replacement for Washington substation as per the strategy.
C046831	CLARKE 65J12 Feeder Upgrade (Dsub)	Jamestown	This project involves upgrading a 65J12 feeder utilizing a modular integrated transportable substation (MITS) design with a 3.75/4.68 MVA transformer.
C046832	CLARKE St Feeder Upgrades (Dline)	Jamestown	This project involves upgrading a 65J12 feeder utilizing a MITS design with a 3.75/4.68 MVA transformer.
C047322	IRURD Saddle Rock Road	West Greenwich	This project involves replacing 2-1200' radial URD cable systems from the riser pole P.38-84 Plain Meetinghouse Road to Pad 3 Saddle Rock Road and to the upriser at P.1 Saddle Rock Road.
C047375	IRURD Mystery Farms Estates	Cranston	This project will involve replacing 6,200' of three-phase URD supplying single-phase load off P.44 and P.44 1/2 Hope Road in Cranston, RI.
C047377	IRURD Wethersfield Commons	Warwick	This project involves replacing 6000' of three-phase URD cable supplying three-phase load off P.20 and P.21 Spooner Ave in Warwick, RI.
C047378	IRURD Willowbrook	Cranston	This project involves injecting 1300' of single-phase URD supplied off P. 112 Pontiac Ave in Cranston and replace cables that could not be injected.
C047379	IRURD Wood Estates Ph II	Coventry	This project involves replacing 3500' of three-phase URD supplying single-phase load between P.18-1 Club House Road and P.3 Red Maple Road in Coventry, RI.
C047386	IRURD Terre Mar	North Kingston	This project involves replacing 800' radial URD supplied off P.7 Terre Mar Drive in North Kingstown, RI.
C047389	IRURD Stone Ridge Acres	East Greenwich	This project involves replacing URD 800' three-phase between pads 2 and 3 Stone Ridge Drive and 300' single-phase between pads 2 and 3 Granite Drive off Pole 12 Stone Ridge Drive in East Greenwich, RI.
C047394	IRURD Tanglewood	West Warwick	This project involves injecting or replacing URD consisting of 3500' three-phase and 5500' single-phase URD supplied off P.110 Providence Street and P.14 New London Street in West Warwick, RI.

Project #	Project Name	Location	Description
C047396	IRURD Silver Maple Drive	Coventry	This project involves the partial replacement of 1000' of three-phase and single-phase URD supplied off P. 19 Club House Road in Coventry, RI.
C047397	IRURD Cedarhurst	North Kingston	This project involves replacing 400' radial URD off of P.2 Gateway Road and injecting 4400' looped URD off P.3 Fishing Cove Road in North Kingstown, RI.
C047398	IRURD Wionkheige	Smithfield	This project involves replacing 7,000' radial, three-phase URD supplied off pole 234 Farnum Pike in Smithfield, RI.
C047422	IRURD Maplewood	Cumberland	This project involves extending URD 600' to create loop and replace 4500' of three-phase URD off poles 226 and 228 Mendon Road in Cumberland, RI.
C047828	IRURD Westwood Estates	Coventry	This project involves injecting 15,500' of direct-buried URD cable at Westwood Estates off P13 Torch Lane and P19.5 Reservoir Road in Coventry, RI.
C047829	IRURD High Hawk	East Greenwich	This project involves injecting 24,300' of three-phase and single-phase direct-buried URD cable at High Hawks off Frenchtown Road in East Greenwich, RI.
C048596	Kents Corner - Replace VRs	East Providence	This project involves replacing the 47J4 and 47J1 voltage regulators.
C049140	Randall St Bridge Ductline. Prov.	Providence	This project involves installing new duct crossing in Randall Street Bridge in Providence to replace existing severely deteriorated ductline. Work requires temporary relocation of two circuits and must be coordinated with RIDOT's bridge reconstruction, which is presently underway.
C049237	IRURD Phase 2 Wethersfield Comm.	Warwick	This project involves injecting 5,000' of three-phase URD at Wetherfield Commons in Warwick RI and replace cable that cannot be injected.
C049291	IRURD Wood Estates Phase 2	Coventry	This project involves injecting 22,000' of URD cable including installation of 800' as make ready work at Wood Estates in Coventry, RI.
C049356	IRURD Silver Maple Phase 2	Coventry	This project involves injecting 15,500' of single-phase URD at Silver Maple URD in Coventry, RI.
C049462	IRURD Stone Ridge Acres Phase 2	East Greenwich	This project involves injecting 29000' of direct buried URD cable at Stone Ridge Acres in East Greenwich, RI . It also includes make ready and follow-up replacement.
C049679	Harrison #32 - EMS Expansion	Newport	This project is part of the RTU program to install/expand RTU at the Hopkins Hill 63 substation to gain status and control of existing assets at the substation
C049680	Rochambeau Ave - EMS Expansion	Providence	This project is part of the RTU program to install/expand RTU at the Rochambeau Ave #37 substation to gain status and control of existing assets at the substation.
C049681	Clarkson - EMS Expansion	Providence	This project is part of the RTU program to install/expand RTU at the Clarkson Street #13 substation to gain status and control of existing assets at the substation.
C049682	Warwick 52 - EMS Expansion	Warwick	This project is part of the RTU program to install/expand RTU at Warwick #52 substation to gain status and control of existing assets at the substation.
C049699	Knightsville 66 - EMS Expansion	Cranston	This project is part of the RTU program to install/expand RTU at the Knightsville #66 substation to gain status and control of existing assets at the substation.
C049700	Anthony 64-EMS Expansion & Upgrades	Coventry	This project is part of the RTU program to install/expand RTU at the Anthony #64 substation to gain status and control of existing assets at the substation.
C049705	Apponaug- EMS Expansion	Warwick	This project is part of the RTU program to install/expand RTU at the Apponaug #3 substation to gain status and control of existing assets at the substation

Project #	Project Name	Location	Description
C049726	UG Feeder Cable Replacements 1141-1143 Hurricane Barrier, Prov	Providence	Feeders 1141 and 1143 out of Franklin Square substation in Providence supply a primary-metered service to the Fox Point Hurricane Barrier, owned and operated by the US Army Corps of Engineers. This project covers expenditures necessary to replace existing paper-lead cable on 1141 and 1143 in coordination with the Army Corps upgrades and replacements of their own cable and equipment.
C049798	Lakewood #57 - EMS Expansion	Warwick	This project is part of the RTU program to install or expand an RTU at the Lakewood #57 substation in order to gain status and control of the existing assets at the substation
C049799	Central Falls - EMS Expansion	Central Falls	This project is part of the RTU program to install or expand an RTU at the Central Falls #104 substation in order to gain status and control of the existing assets at the substation.
C049800	Coventry #54 - EMS Expansion	Coventry	This project is part of the RTU program to install or expand an RTU at the Coventry #54 substation in order to gain status and control of the existing assets at the substation.
C049910	Southeast Sub MC Retirement (DLine)	Pawtucket	This project involves the retirement of the Southeast substation and supply load from the existing area 13.8kV distribution system.
C050006	Hyde Ave MC Retirement (Dline)	Pawtucket	This project involves the retirement of the Hyde Ave substation and supply load from existing 13.8kV system.
C050017	Daggett Ave MC Retirement (Dline)	Pawtucket	This project involves the retirement of the Daggett Ave substation and supply its load from the existing area 13.8kV distribution system.
C050299	IRURD Eastward Look	Narragansett	This project involves the injection of 12,800' of URD cable at Eastward Look in Narragansett, RI
C050698	Davisville #84 - EMS Expansion	Kingstown	This project is part of the RTU program to install or expand an RTU at the Davisville #84 substation in order to gain status and control of the existing assets at the substation.
C050699	Hopkins Hill #63 - EMS Expansion	West Greenwich	This project is part of the RTU program to install or expand an RTU at the Hopkins Hill #64 substation in order to gain status and control of the existing assets at the substation.
C050758	Lee St MC Retirement (Dline)	Pawtucket	This project involves the retirement of the Lee Street substation. This project supports the metal clad strategy.
C050760	Cottage St MC Retirement (Dline)	Pawtucket	This project involves the retirement of the Cottage Street substation. This work supports the metal clad strategy.
C050778	Front St Sub MC Retirement (Dline)	Pawtucket	This project involves the retirement of the Front Street substation. This project supports the metal clad strategy.
C051118	Lee St MC Retirement (Dsub)	Pawtucket	This project involves the retirement of the Lee Street substation. This project supports the metal clad strategy.
C051126	Cottage St MC Retirement (Dsub)	Pawtucket	Retire Cottage Street substation. This work supports the metal clad strategy.
C051199	Mobile Battery Trailer	Rhode Island	The purpose of this project is to purchase a new mobile battery trailer.
C051200	Hyde Ave MC Retirement	Pawtucket	Hyde Ave has been identified for a metalclad retirement by converting the station load to 13.8 kV and retiring Hyde Substation.
C051202	13F1 Eliminate T-Body Joints Prov	Providence	This project involves the eliminatrion of T-body joints on Clarkson St 13F1 feeders in Providence (FY15)
C051205	Dyer St replace indoor substation DSUB	Providence	This project involves the replacement of existing indoor substation at Dyer Street in Providence. (Distribution substation work)_
C051211	Dyer St replace indoor substation DLINE	Providence	This project involves the replacement of existing indoor substation at Dyer Street in Providence. (Distribution line work).

Project #	Project Name	Location	Description
C051212	South St replace indoor substation DSUB	Providence	This project involves the replacement of existing indoor substation at South Street in Providence. (Distribution substation work).
C051213	South St replace indoor substation DLINE	Providence	This project involves the replacement of existing indoor substation at South Street in Providence. (Distribution line work).
C051271	Hyde Ave MC Retirement (Dsub)	Pawtucket	The Hyde Ave substation will be retired due to asset condition of the metalclad and conversion to 15 kV infrastructure.
C051272	Southeast 60 Metalclad - Sub Retirement	Pawtucket	This substation will be retired and converted to 15 kV infrastructure due to the condition of the metalclad switchgear.
C051273	Front St Metalclad Retirement	Pawtucket	This substation will be retired and converted to 15 kV infrastructure due to the condition of the metalclad switchgear and the opportunity to improve the system.
C051274	Daggett Ave MC Retirement (Dsub)	Pawtucket	This substation will be retired and converted to 15 kV infrastructure per a Dline project due to the asset condition of the metalclad and the opportunity to improve the system.
C051385	Central Falls Sub Relief	Central Falls	This project is required to relieve an overloaded transformer at Central Falls substation.
C051586	Providence Study Engineering	Providence	This project is for the detailed study and consultant engineering efforts associated with the Providence Area Long Term Study. Region to be covered is the greater Providence area.
C051625	South Street Transformer Spare.	Providence	This is a project to purchase a transformer spare for the South Street and Franklin square transformers. This is a 23 kV - 11.5 kV, 12.5 MVA.
C051824	Lafayette Sub Transformer Replacement	North Kingstown	This is a project to replace the No. 1, 3 phase transformer at Lafayette substation due to asset condition issues.
C052283	RI Convention Center - Replace Switchgear	Providence	This project involves the replacement of power-operated automatic transfer switchgear at the Convention Center in Providence, RI.
C052686	Prov RI Survey/Replace UG secondary cables	Providence	This project involves the replacement of radial underground secondary cable in a portion of the Jewelry District area in Providence. Future replacements in the remainder of this area will be covered under the underground cable replacement program.
C052708	Volt Var-Substation	Smithfield	This project includes substation work associated with volt var optimization (VVO).
C052964	IRURD Rollingwood	Lincoln	This project involves the injection of 10,000' of direct-buried URD cable and replace cable that cannot be injected at Rollingwood URD off P.20 Angell Road in Lincoln, RI.
C053149	Network Vault 89 Federal Courthouse, Prov.	Providence	This project involves Incorporating an existing two-unit 208Y/120 V spot network vault into the secondary network street grid.
C053268	Pawtucket No 1 Bus Sect 73 Relief	Pawtucket	The Pawtucket No 1 bus section 73 is projected to be loaded above rated summer emergency capability. This project recommends mitigating this risk by transferring load for bus section 73 to bus section 71 and to Valley substation. Transfers will be accomplished by reconfiguring the distribution feeders.
C053646	Quonset Sub Expansion (Dsub)	Kingstown	This project involves expansion of the Quonset Substation with 2nd transformer, new feeder, tie reclosers.
C053647	Quonset Sub Expansion (Dline)	Kingstown	This project involves the expansion of the Quonset Substation with 2nd transformer, new feeder, tie reclosers.
C053657	Southeast Substation (Dsub)	Pawtucket	This project involves the building of a new 115/13.8kV substation on a site adjacent to the transmission right of way on York Avenue in the City of Pawtucket.

Project #	Project Name	Location	Description
C053658	Southeast Substation (Dline)	Pawtucket	This project involves the construction of new 115/13.8kV substation on a site adjacent to the transmission right of way on York Avenue in the City of Pawtucket
C053723	Arctic Substation Retirement	West Warwick	This project involves the retirement of Arctic 23/4.16kV substation to address asset condition, safety, and environmental concerns.
C053946	45J4 45J6 Feeder Tie Carr Ln Jamestown	Jamestown	This project involves the installation of a feeder tie between the Eldred Sub 45J4 and 45J6 along Carr Lane in Jamestown RI. After the rebuild of the Eldred Substation, there will be no feeder ties between the 45J4 and the 45J6 circuits. This work will establish this needed tie. Install 2500 circuit feet of 477 Al spacer cable. Remove 2500 feet of 1/0 Al primary. Install a loadbreak switch on pole 2 Carr Lane.
C054052	No Aquidneck Retirement (Dsub)	Middletown	This project retires North Aquidneck substation. Convert load to the area 13.8kV distribution system.
C054054	Jepson Substation (Dline)	Middletown	Distribution line work associated with new 115kV station at Jepson
C054090	Reconductor Anthony Road, Foster RI	Foster	This project was developed as a result of a review of feeders having at least one customer experiencing multiple interruptions (CEMI) of four or more during minor storm days.
C054365	63 Line Improvements	Newport	Replace Turner Electric Company Type D sidebreak disconnect switches on the Newport 69kV Line No. 63
C055215	Westerly Flood Restoration (Dline)	Westerly	This project is for Dline work associated with Westerly Substation rebuild outside the flood plain.
C055357	RI UG Cable Replacement Program - Feeder 1111	Providence	Feeder 1111 out of South Street substation in Providence is one of eight feeders supplying the downtown Providence AC network. This project proactively replaces paper-insulated lead-covered cable on the feeder as part of the Rhode Island Underground Cable Replacement.
C055359	RI UG Cable Replacement Program - Feeder 79F1	Providence	Feeder 79F1 out of Lippitt Hill substation in Providence is one of six feeders supplying the downtown Providence Capital Center district and vicinity. This project proactively replaces 1970's cross-linked polyethylene cable on the feeder as part of the Rhode Island Underground Cable Replacement program.
C055360	RI UG Cable Replacement Program - Feeder 2J8	Providence	Feeder 2J8 out of Dyer Street substation in Providence supplies customers in downtown Providence, and the Upper South Providence and West End neighborhoods of the city. This project proactively replaces paper-insulated lead-covered cable on the feeder as part of the Rhode Island Underground Cable Replacement program.
C055361	RI UG Cable Replacement Program - Feeder 1107	Providence	This project is part of the RI underground (UG) cable replacement program.
C055362	RI UG Cable Replacement Program - Feeder 1105	Providence	This project is part of the RI UG cable replacement program.
C055363	RI UG Cable Replacement Program - Feeder 1127	Providence	This project is part of the RI UG cable replacement program.
C055364	RI UG Cable Replacement Program - Feeder 13F1	Providence	This project is part of the RI UG cable replacement program.
C055365	RI UG Cable Replacement Program - Feeder 1113	Providence	This project is part of the RI UG cable replacement program.
C055367	RI UG Cable Replacement Program Feeder 54K21	Newport	This project involves the replacement of the existing 3/0 Cu PILC from West Howard Substation to the Harrison Substation with 1-3C, 23KV, 500 compact EPR Cu.
C055369	RI UG Cable Replacement Program Feeder 54K23	Newport	This project is part of the RI UG cable replacement program.

Project #	Project Name	Location	Description
C055370	RI UG Cable Replacement Program Feeder 1144	Providence	This project is part of the RI UG cable replacement program.
C055371	RI UG Cable Replacement Program Feeder 1142	Providence	This project is part of the RI UG cable replacement program.
C055421	Warwick 52 - Replace TRFs	Warwick	This is a project to replace two transformers at Warwick 52 station due to asset condition.
C055623	South St Sub 11kV Removal	Providence	This project involves the removal of 11kV substation building associated with project C051212.
C055683	Pawtucket No 1 (Dsub)	Pawtucket	This project is to demolish the brick building housing the Pawtucket No 1 indoor substation. Needs construction of Southeast Substation first.
C055844	W Cranston Transformer #2 Replacement	Cranston	This is a project to replace the No. 2 Transformer at W. Cranston station due to asset condition issues. The transformer will also be upgraded to accommodate the expected load growth.
C056391	Centre St MC Retirement (Dsub)	Pawtucket	This is a project to retire the 4 kV substation at Centre Street due to asset condition of the metalclad and transformer. The area will be converted to 13.8kV.
C056392	Crossman Retirement (Dsub)	Central Falls	This is a project to retire the 4 kV substation due to asset condition of the metalclad and transformer. The area will be converted to 13 kV.
C056411	Centre St MC Retirement (Dline)	Pawtucket	This is a project to retire the 4 kV substation at Centre Street due to asset condition of the metalclad and transformer. The area will be converted to 13 kV.
C056507	Crossman Retirement (Dline)	Central Falls	This is a project to retire the 4 kV substation due to asset condition of the metalclad and transformer. The area will be converted to 13 kV.
C056570	Hospital Sub MC Replacement (Dsub)	Newport	This is a project to replace the metalclad switchgear at the Newport Hospital Substation #147 due to asset condition issues.
C056571	Kingston 131 - Metalclad Replacement	Newport	This is a project to replace one metalclad switchgear at Kingston substation (1966 vintage) due to asset condition.
C056686	Pawtucket No 2 Retirement (Dline)	Pawtucket	This Dline project retires Pawtucket No 2 Indoor substation to address asset condition and safety concerns
C056947	IRURD Juniper Hills, West Warwick	West Warwick	Juniper Hills URD has experienced five (5) cable failures in past five (5) years and is comprised mostly of 1970s vintage XLPE direct buried cable. This URD is being recommended for cable injection
C057765	IRURD - Westwind Cable Replacement		Westwind URD has experienced five (5) cable failures in the past three (3) years, including two (2) in the past month and is comprised mostly of 1970's vintage XLPE direct buried cable. This URD is being recommended for immediate cable (in conduit) replacement this FY15.
C057882	IRURD Chateau Apts URD Rehab	Cranston	During the past ten years, Chateau Apartments URD experienced one cable failure, which occurred in 2013. The cable is comprised of 1970s vintage cross-linked polyethylene (a common plastic underground cable insulation) (XLPE) direct buried cable. This URD is recommended for proactive cable injection in FY16.
C057903	IRURD Western Hills Village URD-	Cranston	Western Hills Village URD experienced during the past (10) years one cable failure occurring in 2013. The cable is comprised of 1970s vintage XLPE direct buried cable. This URD is recommended for cable injection in FY16.
C057906	IRURD Woodvale Estates URD-	Johnston	Woodvale Estates URD experienced during the past (10) years one cable failure occurring in 2008. The cable is comprised of 1970s vintage XLPE direct buried cable. This URD is recommended for cable injection in FY16.
C057921	IRURD-Robin Hills Estates	Westerly	Robin Hills Estates URD has experience four (4) cable failures in the past five (5) years and is comprised of 1970s

Project #	Project Name	Location	Description
			vintage XLPE direct buried cable. This URD is being recommended for cable injection in FY16.
C058042	IRURD-Brookridge Estates.	Exeter	Brookridge Estates URD is comprised mostly of 1980s vintage XLPE direct buried cable. In line with URD strategy, this cable is being recommended for proactive cable injection in FY16.
C058045	IRURD-Tockwotton Farm_TF Road.	North Kingstown	Tockwotton Farm URD, Tockwotton Farm Road, North Kingstown, RI is comprised mostly of 1980s vintage XLPE direct buried cable. In line with URD strategy, this cable is being recommended for proactive cable injection in FY16.
C058046	IRURD-Tockwotton Farm_RM Way.	North Kingstown	Tockwotton Farm URD, Rolling Meadow Way, North Kingstown, RI is comprised mostly of 1990s vintage XLPE direct buried cable. In line with URD strategy, this cable is being recommended for proactive cable injection in FY16.
C058285	IRURD Case Farm Estates URD	Bristol	Case Farm Estates URD in Bristol RI has 1970 vintage XLPE direct buried cable. This URD is being recommended for cable replacement in FY16. Although there have been no outages on this cable over the past five years, this work is being recommended as a proactive measure due to the age and type of cable (direct buried XLPE cable).
C058287	IRURD Ferncliffe Farms URD	Bristol	Ferncliffe Farms URD in Bristol RI has 1970 vintage XLPE direct buried cable. This URD is being recommended for cable injection in FY16. Although there have only been 2 outages on this cable over the past five years, this work is being recommended as a proactive measure due to the age and type of cable (direct buried XLPE cable).
C058310	Harrison Sub Improvements (Dsub)	Newport	Replace (3) airbreaks at Harrison with remote controlled load breaks (Devices 3220-1, 3220-3 & 3220-4)
C058401	Merton Sub Improvements (Dsub)	Newport	Replace air break switch 5120-2 and 5120-3 with remotely operated motorized load break. Remove recloser 5120.
C058404	Kingston Sub Improvements (Dsub)	Newport	Replace air break switches (3120-3, 3120-5 and 3130-3) with remotely controlled motorized load break switches. Retire equipment shown on one-line diagram.
C058407	South Aquidneck Retirement (Dsub)	Middletown	This project retires South Aquidneck substation. Convert load to the area 13.8kV distribution system.
C059579	Feeder 3324 Install Cable Transf Leads	Providence	Feeder 3324 out of Franklin Square substation in Providence is one of two feeders supplying Rhode Island Hospital in Providence. This project covers expenditures necessary to proactively replace transformer leads in the Franklin Square station yard between the 11 kV substation and the step-up transformer.
C064266	Clarkson St New Feeder 13F10	Providence	This project involves the installation of one regulated feeder position for new feeder 13F10 at Clarkson St substation in Providence.
C065166	Warren Sub Expansion (Dsub)	Warren	This project is part of the East Bay Study recommended plan - Expand the existing 115/12.47kV substation at Warren by installing two new 12.47kV distribution feeder positions and a two-stage 7.2MVAR capacitor bank on each bus
C065187	Warren Sub Expansion (Dline)	Warren	This project is part of the East Bay Study recommended plan - This project provides Dline funding to expand the existing 115/12.47kV substation at Warren by installing two new 12.47kV distribution feeders.
C065293	Barrington Sub Retirement (Dsub)	Barrington	This project is part of the East Bay Study recommended plan - Retire substation and remove all equipment foundations to below grade.
C065295	Kent Corners Retirement (Dsub)	East Providence	East Bay Study recommended plan - Retire substation and remove all equipment foundations to below grade.
C065297	Waterman Ave Retirement (Dsub)	East Providence	This project is part of the East Bay Study recommended plan - Retire substation and remove all equipment foundations to below grade.
C065470	Recloser Communication Upgrade - RI	Rhode Island	This project involves recloser Communication Upgrades in RI. The project will involve the replacement of 220 cellular radio units in Overhead Line Reclosers within Rhode Island.

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<b>Project #</b>	<b>Project Name</b>	<b>Location</b>	<b>Description</b>
C066767	Franklin Sq GE Airblast Brkr Rpl	Providence	This project involves the replacement of the Franklin Square substation breaker replacement for asset performance concerns (GE Airblast Breaker Replacement)

COMM 1-5

Request:

Page 8 of 32. What method did the Company use to request customer participation in the demand response events of 2014? If a written mailing was used, provide an exact copy of the written correspondence sent to customers.

Response:

DemandLink participants who receive rebates for Wi-Fi thermostats and/or plug devices agree at the time of installation to participate in all demand response (DR) events. This means that participants agree to be automatically included in any demand response events that are initiated. However, participants always have the option to opt out of each individual event.

In 2014, the Company used a number of communications to help customers prepare for events. First, in order to remind customers that the summer was near and to ensure that their devices were set up and connected to the internet, an e-mail was sent with information regarding the upcoming DR event season and highlighting the bill credits for participation. The e-mail outlined the steps customers needed to take to ensure that they received their annual bill credit and included links to guides for connecting the thermostat to the internet, information to help customers ensure that they were DR-ready, and information regarding how to obtain assistance with technical difficulties. This same information was also available on the DemandLink website: <http://myngrid.com/demandlink>. A copy of this e-mail and the guides is attached as Attachment COMM 1-5(a).

Customers were also provided notification prior to each individual DR event. When possible, based on event needs and the availability of customer e-mail addresses, on the morning of the DR event, an e-mail was sent regarding the expected DR event times. The e-mail also included copies of the connectivity guides and a FAQ document. A copy of this email is attached as Attachment COMM 1-5(b).

When an event is scheduled, all customers in the event portal receive notifications based on their preferences – either by email, on the thermostat, the phone app, or some combination of the three. This final communication before the event is initiated includes the exact timing of the event, and gives customers the option to opt out if they choose.



# DemandLink™ UPDATE

**nationalgrid**

HERE WITH YOU. HERE FOR YOU.

Connecting Tiverton and Little Compton with energy-efficiency solutions.

## Set up your thermostat this summer and claim your bill credit!

Warmer weather is on its way and with it comes outdoor activities with fun in the sun. But, it also means cooling indoor spaces.

We want to remind you that as a participant in National Grid's DemandLink™ program, you are eligible for an annual bill credit.

### ➤ Claim your annual bill credit.

By properly configuring the WiFi programmable thermostat that you received through DemandLink, you will be able to participate in demand response events to receive your annual bill credit.

**With these simple instructions it's easy to participate this summer:**

- [Central air conditioning summer get-ready guide](#)
- [Window air conditioning summer get-ready guide](#)

And, if you program your thermostat, you could even cut your air conditioning costs by about 16%!

### ➤➤ Stay in control from just about anywhere.

Don't forget that smartphone apps allow you to securely access your WiFi programmable thermostat remotely. Plus, you can even use a web portal from any internet-enabled computer or tablet.



- Simply search for "ecobee" in the Apple App Store or Google Play Store.
- You can also use a computer by visiting [www.ecobee.com](http://www.ecobee.com).



## Questions about annual bill credits?

Visit [myngrid.com/demandlink](http://myngrid.com/demandlink) to download our DemandLink brochure and FAQs. Or, call **1-855-752-6964** or email [Rlsrp@nationalgrid.com](mailto:Rlsrp@nationalgrid.com) to learn more.



WiFi programmable thermostat puts energy savings at your fingertips.



Smart Plug allows you to control your window air conditioner.



Access advanced reports to track energy use and learn how your equipment is performing.



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**From:** Foley, Lindsay  
**Sent:** Wednesday, August 27, 2014 9:57 AM  
**To:** Foley, Lindsay (Lindsay.Foley@nationalgrid.com)  
**Subject:** National Grid DemandLink Event Today

**Demand Response Event: August 27, 2014**

**Estimated Time of Day of Event: 3pm – 7pm**

National Grid will be conducting a demand response event today as part of your participation in the **DemandLink Pilot**. You are receiving this advance notice because you provided us with a valid email address at the time of your product installations. You will receive another notice at the time of the event through the email you registered with ecobee.com. The event itself is automatic; if your thermostat is connected to your wi-fi and set to accept demand response events, no effort will be needed on your part to participate. These settings would have been put in place at the time of installation, but if changes have been made, to ensure your participation and annual bill credit, please use the attached setup guides for reference. An FAQ file is also attached.



You will have the ability to adjust your thermostat settings at any time during the event via your thermostat, web portal or smartphone app if you desire to opt out. We appreciate your participation and our goal is to keep you comfortable while reducing electricity demand.

Kind Regards,  
Lindsay

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**Lindsay Foley**  
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COMM 1-6

Request:

Page 20 of 32. Are the connectivity issues experienced in the 2015 DR events related to customers not using smart plugs with window AC units or some other issue? If not related to smart plugs, identify the DR connectivity issues referred to on page 20.

Response:

The connectivity issues highlighted on page 20 of the 2016 SRP Report relate to thermostats controlling central AC units as opposed to plug devices controlling window AC units. Data on plug device usage was not available as part of these preliminary reports but has since been sent to Opinion Dynamics Corporation for evaluation of the Pilot.

COMM 1-7

Request:

Table 2-1, Opinion Dynamics Report. Why, in the Company's view, are EnergyWise participation levels so much lower in the Pilot area versus comparison towns?

Response:

EnergyWise participation levels are lower in the Pilot area because there are fewer customers in the Pilot area, and therefore, a smaller pool of potential participants. The Pilot area has approximately 4,950 residential accounts, and comparison towns have a total of approximately 54,900 residential accounts.

COMM 1-8

Request:

Table 2-4, Opinion Dynamics Report. Why, in the Company's view, are 2014 installed measure levels lower than 2013 in most categories?

Response:

In 2013, the Pilot experienced a surge in customer participation. Participation in EnergyWise during 2013 represented a 125% increase over 2012 totals and 238% over the average participation for the previous three years (2010-2012). The Company was not projecting the same increases in 2014. The lower levels of measure installations in 2014, particularly after two aggressive marketing campaigns and a significant increase in 2013 participation, may indicate that the Pilot is reaching a certain level of saturation in the eligible population for these measures. In an effort to reach new customers, and potentially create repeat participants, the Company proposed a new heat pump water heater incentive in 2015.

COMM 1-9

Request:

Page 57-58, Opinion Dynamics Report. In performing its evaluation surveys of the DemandLink Thermostat program, were customers asked if they are aware that they pay for DemandLink Pilot programs, such as the Wi-Fi programmable thermostats, through a charge on their monthly electric bill?

Response:

No. Customers were not asked whether they were aware that they pay for DemandLink Pilot programs through a charge on their monthly electric bill.

COMM 1-10

Request:

Does the Company believe a customer would be more or less likely to participate in a program if he/she knows that he is paying for that program on his/her electric bill?

Response:

The Company believes that customers may be more likely to participate in a program if they knew they were contributing to that program through a charge that is reflected on their electric bills.

COMM 1-11

Request:

Page 25-26, Opinion Dynamics Report. Is a Demand Optimization event synonymous with a Demand Response event?

Response:

Yes. A Demand Optimization event is synonymous with a Demand Response event.

COMM 1-12

Request:

Footnote 13, Page 20, Opinion Dynamics Report. Does the Company consider it a success to achieve 63% of its goal for installed SRP measures?

Response:

The only goal related to SRP is to achieve 1MW of load reduction by the end of 2017. Although the Company sets targets for how much load relief is projected to be installed in a given year, it determines success by whether or not the Pilot achieves that 1MW of load reduction. However, the Company believes any progress toward that goal is a positive result. Additionally, footnote 13 on page 20 of the Opinion Dynamics Report only refers to measures installed through the EnergyWise program. The shortfall in measures installed as part of the EnergyWise program through 2014 was supplemented by measures installed exclusively through the DemandLink pilot, keeping the project on track to meet its 1MW goal.

COMM 1-13

Request:

Does the Company set savings benchmarks or targets for SRP programs and measures similar to statewide EE programs? Please cite the specific section in the 2016 SRP Report that discusses savings targets associated with SRP programs and measures.

Response:

Yes, the Company sets a benchmark for the SRP pilot. However, the Company's savings targets for the DemandLink pilot are slightly different than the annual savings goals in the energy efficiency program plans (EPPs) because they are (1) only focused on peak kW savings and (2) primarily focused on the long-term overall goal of 1MW by the end of 2017. By contrast, the EPPs are focused primarily on annual kWh savings.

The DemandLink Pilot's 1MW goal has been broken into annual savings targets to gauge progress from year to year, but the targets are simply linear projections between the starting point and the 1MW target. These targets can be found in Table S-4 in Appendix 3 of the 2016 SRP Report. The determination of the Pilot's success is intended to be whether or not the Pilot's efforts achieve the 1MW of savings by the end of 2017.

COMM 1-14

Request:

Explain in plain English the meaning of Table S-7, page 27. Include a statement that explains the difference between the terms “focused energy efficiency” and “SRP energy efficiency,” including examples of programs/measures within each category.

Response:

Table S-7 is intended to show the DemandLink Pilot's progress toward its savings goal of 1MW by the end of 2017. This progress is broken down into the energy efficiency (EE) efforts and demand response (DR) efforts. The kW amounts shown in each year represent the total amount of kW savings that is projected to be in place (either based on actual, estimated, or planned results as indicated in Note 4) by the beginning of each year. The table is structured this way to convey a conservative estimate of how much load relief can be expected in the summer of each year. For example, in 2016, it is projected that 668kW of peak load will be installed and/or dispatchable for that summer's peak hours. This represents approximately 106% of the progress target of 630kW for that summer. 452kW of the 668kW is projected to come from EE, and 216kW is projected to come from DR events.

The EE efforts are comprised of “Focused Energy Efficiency” and “SRP Energy Efficiency.” These two designations are used to distinguish between savings that are claimed by the RI Energy Efficiency Program Plan (EPPP) but which also contribute to meeting the load reduction goal in the target area and savings that come solely from the efforts of the DemandLink pilot. Examples of savings in the Focused Energy Efficiency designation are those that come from EnergyWise assessments or Small Business Direct Install projects in the Tiverton/Little Compton area. Examples of savings in the SRP Energy Efficiency designation are those that come from the Wi-Fi thermostats (except for the DR savings), window AC recycling and window AC purchase measures.

Finally, the bottom of Table S-7 incorporates the impact of the Rhode Island Office of Energy Resources' (OER) SRP Solar Distributed Generation (DG) pilot on the peak load in the DemandLink pilot area. Although these results are still preliminary, pending an ongoing evaluation of that effort, the Company and the parties believed it was important to convey the significant and positive impact this effort is likely to be shown to have on the area's peak load as part of the 2016 SRP Report. The Company has committed to work with the parties in 2016 to determine the most appropriate method for incorporating the OER's solar efforts into the overall economic analysis of the DemandLink NWA pilot.

COMM 1-15

Request:

If no projects were eligible for NWAs in FY 2015 (page 5), explain the basis of the 106% deferral target achievement in 2016 (Table S-7)?

Response:

The label “% Deferral Targets” refers to deferral target kW in the DemandLink Pilot, as opposed to a number of pilot projects. The 106% deferral target estimate in Table S-7 indicates that at the start of 2016, the total amount of kW installed in the DemandLink pilot area will be 106% of the linearly projected kW target for that year. Table S-7 is relevant only to the DemandLink pilot, so the fact that no other NWA projects were proposed as newly eligible for NWAs in FY 2015 has no effect on the numbers in that table.

COMM 1-16

Request:

Which SRP programs and measures have not lived up to the Company's expectations and why?  
What steps are the Company taking to improve on this?

Response:

The demand response (DR)-enabled lighting ballasts proposed in 2012 did not meet the Company's expectations. These were lighting fixtures that could be controlled through DR, and were promoted to commercial customers. These measures were not well-received by customers in that these measures on their own did not motivate customers to participate. In addition, customers who were already participating and offered this measure were not interested in it. As a result of that feedback and the high complexity of controlling these measures through DR, the Company decided not to continue offering the measure through the DemandLink pilot in 2013. Every other measure introduced has met expectations within the Pilot.

COMM 1-17

Request:

Please provide a legible copy of Appendix 1 (Load Growth Forecasts).

Response:

Please see Attachment COMM 1-17(a) (Appendix 1-Load Forecast RI Peaks) and Attachment COMM 1-17(b) (Appendix1-Load Forecast RI Towns), which contain legible copies of the state and town growth rates.

Rhode Island Summer Peaks (Actuals and 50/50, 90/10, & 95/5 Weather-Adjusted Cases)									
after Energy Efficiency Reductions									
YEAR	Actuals		Normal 50-50		Extreme 90-10		Extreme 95-5		WTHI ACTUAL
	(MW)	(% Grwth)	(MW)	(% Grwth)	(MW)	(% Grwth)	(MW)	(% Grwth)	
2004	1,628		1,831		2,004		2,053		78.5
** 2005	1,805	10.8%	1,748	-4.5%	1,921	-4.1%	1,970	-4.0%	83.1
** 2006	1,987	10.1%	1,772	1.3%	1,944	1.2%	1,993	1.2%	85.9
2007	1,777	-10.5%	1,843	4.0%	2,015	3.7%	2,064	3.6%	80.9
2008	1,824	2.6%	1,774	-3.7%	1,947	-3.4%	1,996	-3.3%	82.9
** 2009	1,719	-5.8%	1,816	2.3%	1,989	2.1%	2,037	2.1%	80.3
2010	1,872	8.9%	1,733	-4.5%	1,906	-4.2%	1,955	-4.1%	84.5
** 2011	1,985	6.0%	1,831	5.6%	2,004	5.1%	2,053	5.0%	84.8
2012	1,892	-4.7%	1,813	-1.0%	1,986	-0.9%	2,035	-0.9%	83.5
** 2013	1,969	4.1%	1,824	0.6%	1,996	0.5%	2,045	0.5%	84.7
2014	1,620	-17.7%	1,768	-3.1%	1,940	-2.8%	1,989	-2.7%	80.3
2015			1,802	2.0%	1,979	2.0%	2,029	2.0%	
2016			1,817	0.8%	1,996	0.9%	2,047	0.9%	
2017			1,818	0.0%	1,998	0.1%	2,049	0.1%	
2018			1,816	-0.1%	1,998	0.0%	2,049	0.0%	
2019			1,816	0.0%	1,998	0.0%	2,050	0.0%	
2020			1,817	0.0%	1,999	0.1%	2,051	0.1%	
2021			1,818	0.1%	2,002	0.1%	2,054	0.1%	
2022			1,821	0.2%	2,005	0.2%	2,057	0.2%	
2023			1,825	0.2%	2,010	0.2%	2,062	0.2%	
2024			1,830	0.3%	2,016	0.3%	2,068	0.3%	
2025			1,836	0.3%	2,022	0.3%	2,075	0.3%	
2026			1,843	0.4%	2,030	0.4%	2,083	0.4%	
2027			1,851	0.4%	2,039	0.4%	2,092	0.4%	
2028			1,859	0.4%	2,048	0.4%	2,101	0.4%	
2029			1,867	0.4%	2,056	0.4%	2,110	0.4%	

Compound Avg. 10 yr ('04 to '14)	0.0%	-0.4%	-0.3%	-0.3%
Compound Avg. 5 yr ('09 to '14)	-1.2%	-0.5%	-0.5%	-0.5%
Compound Avg. 5 yr ('14 to '19)		0.5%	0.6%	0.6%
Compound Avg. 10 yr ('14 to '24)		0.3%	0.4%	0.4%
Compound Avg. 15 yr ('14 to '29)		0.4%	0.4%	0.4%

WTHI	
NORMAL	82.1
EXTREME 90/10	85.1
EXTREME 95/5	86.0

\*\* There were Demand Response activations in these years on the day of this Zone's peak.

**Year One Weather-Adjustment and Multi-Year Annual Growth Percentages (Summer)**

State	County	Town	Zone	2014 Weather-Adjustments (2)			Annual Growth Rates (percents) (3)					5-yr avg '20 to '24	5-yr avg '25 to '29
				for 50/50	for 90/10	for 95/5	2015	2016	2017	2018	2019		
RI	BRISTOL	Barrington	RI	109.1%	119.8%	122.8%	1.5	0.4	0.0	0.0	0.0	0.0	0.1
RI	BRISTOL	Bristol	RI	109.1%	119.8%	122.8%	1.7	0.6	0.0	0.0	0.0	0.0	0.2
RI	BRISTOL	Prudence Island	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	BRISTOL	Warren	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	KENT	Coventry	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.1	0.2	0.3	0.5
RI	KENT	East Greenwich	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	KENT	Greene	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	KENT	Warwick	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	KENT	West Greenwich	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.1	0.2	0.3	0.5
RI	KENT	West Warwick	RI	109.1%	119.8%	122.8%	1.6	0.5	0.0	0.0	0.0	0.0	0.2
RI	NEWPORT	Adamsville	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	NEWPORT	Jamestown	RI	109.1%	119.8%	122.8%	1.8	0.7	0.0	0.0	0.0	0.1	0.3
RI	NEWPORT	Little Compton	RI	109.1%	119.8%	122.8%	2.6	1.5	0.7	0.5	0.5	0.6	0.7
RI	NEWPORT	Middletown	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	NEWPORT	Newport	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	NEWPORT	Portsmouth	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	NEWPORT	Tiverton	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Albion	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Central Falls	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Chepachet	RI	109.1%	119.8%	122.8%	2.7	1.6	0.7	0.6	0.6	0.7	0.8
RI	PROVIDENCE	Clayville	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Cranston	RI	109.1%	119.8%	122.8%	1.7	0.6	0.0	0.0	0.0	0.0	0.2
RI	PROVIDENCE	Cumberland	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	East Providence	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Fiskeville	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Forestdale	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Foster	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Glensdale	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Greenville	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Harmony	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Harrisville	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Hope	RI	109.1%	119.8%	122.8%	2.7	1.6	0.8	0.6	0.6	0.7	0.8
RI	PROVIDENCE	Johnston	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Lincoln	RI	109.1%	119.8%	122.8%	1.8	0.7	0.0	0.0	0.0	0.0	0.3
RI	PROVIDENCE	Manville	RI	109.1%	119.8%	122.8%	1.8	0.7	0.0	0.0	0.0	0.1	0.3
RI	PROVIDENCE	Mapleville	RI	109.1%	119.8%	122.8%	1.8	0.7	0.0	0.0	0.0	0.0	0.3
RI	PROVIDENCE	North Providence	RI	109.1%	119.8%	122.8%	1.6	0.5	0.0	0.0	0.0	0.0	0.2
RI	PROVIDENCE	North Scituate	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	North Smithfield	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Oakland	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	PROVIDENCE	Pawtucket	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Providence	RI	109.1%	119.8%	122.8%	2.7	1.5	0.7	0.5	0.6	0.6	0.7
RI	PROVIDENCE	Riverside	RI	109.1%	119.8%	122.8%	1.6	0.5	0.0	0.0	0.0	0.0	0.2
RI	PROVIDENCE	Rumford	RI	109.1%	119.8%	122.8%	2.5	1.4	0.6	0.4	0.5	0.6	0.7
RI	PROVIDENCE	Slatersville	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Smithfield	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	PROVIDENCE	Woonsocket	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Ashaway	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Bradford	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.2	0.2	0.3	0.5
RI	WASHINGTON	Carolina	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.1	0.2	0.3	0.5
RI	WASHINGTON	Charlestown	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.1	0.2	0.3	0.5
RI	WASHINGTON	Exeter	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Hope Valley	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Hopkinton	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Kenyon	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Kingston	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Narragansett	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	North Kingstown	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Peace Dale	RI	109.1%	119.8%	122.8%	1.7	0.6	0.0	0.0	0.0	0.0	0.2
RI	WASHINGTON	Rockville	RI	109.1%	119.8%	122.8%	2.2	1.1	0.3	0.1	0.2	0.3	0.5
RI	WASHINGTON	Saunderstown	RI	109.1%	119.8%	122.8%	2.1	1.0	0.2	0.1	0.1	0.3	0.5
RI	WASHINGTON	Shannock	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Slocum	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Wakefield	RI	109.1%	119.8%	122.8%	2.1	0.9	0.1	0.0	0.1	0.2	0.4
RI	WASHINGTON	West Kingston	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Westerly	RI	109.1%	119.8%	122.8%	1.4	0.3	0.0	0.0	0.0	0.0	0.1
RI	WASHINGTON	Wood River Junction	RI	109.1%	119.8%	122.8%	2.8	1.7	0.9	0.7	0.7	0.8	0.8
RI	WASHINGTON	Wyoming	RI	109.1%	119.8%	122.8%	2.2	1.0	0.2	0.1	0.2	0.3	0.5

(1) Zones refer to ISO-NE designations

(2) These first year weather-adjustment values can be applied to actual MW readings for 2014 summer peaks to determine what the weather-adjusted value is for any of the three weather scenarios.

(3) These annual growth percents can be applied to the 2014 summer peaks to determine what the growth for each area is.

COMM 1-18

Request:

Page 6 of 32. State the reasons, if known, why Tiverton and Little Compton annual weather adjusted summer peaks are expected to increase at a higher rate than the statewide average annual growth rate.

Response:

The Tiverton and Little Compton annual weather adjusted summer peaks are expected to increase at a higher rate than the statewide average annual growth rate because, based on the historical annual energy use for these two towns, the annual growth rates (for input years 2009 to 2013) grew faster than the statewide average. The Company believes that the annual weather adjusted summer peaks will continue to grow at a higher than average rate in the future.