

May 20, 2020

VIA ELECTRONIC MAIL

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

**RE: Docket 4770 – Performance Incentive Factor Filing
Responses to PUC Data Requests – Set 1**

Dear Ms. Massaro:

On behalf of National Grid,¹ enclosed are the Company's responses to the Public Utilities Commission's First Set of Data Requests in the above-referenced docket.²

Thank you for your attention to this matter. If you have any questions, please contact me at 401-784-7288.

Very truly yours,



Jennifer Brooks Hutchinson

Enclosures

cc: Docket 4770 Service List
Linda George, Division
John Bell, Division
Al Mancini, Division
Leo Wold, Esq.
Christy Hetherington, Esq.

¹ The Narragansett Electric Company, d/b/a National Grid

² Per practice during the COVID-19 emergency period, the Company is providing a PDF version of the above-referenced filing. The Company will provide the Commission Clerk with a hard copy and, if needed, additional hard copies of this filing at a later date.

PUC 1-1

Request:

Referencing the Performance Incentive Mechanism Annual Report, please provide the supporting documentation that “During the ISO-New England peak hour ending 18:00 on July 30, 2019, the Company curtailed 33.38 MW of capacity” (e.g. the date, time, and result of C&I demand response calls that were included in the average that made up the 31.5 MW number reported, and any calls that did not go into the average).

Response:

The average performance for the C&I Targeted Dispatch measure on the 3-hour event on July 30, 2019 is 31.5 MW. This event started at 3 PM and ended at 6 PM. The curtailment that occurred from C&I Targeted Dispatch on July 30, 2019 for the hour ending 18:00 is 28.1 MW.

The demand response measures that did not go into this average are residential thermostats, residential batteries, C&I Daily Dispatch, and behavioral demand response.

Demand Response Measure	Average Curtailment over all events
Residential Thermostats	1.8 MW
Residential Batteries	0.08 MW
C&I Targeted Dispatch	31.5 MW
C&I Daily Dispatch	0 MW
Behavioral	Unknown

For a summary of the C&I Targeted Dispatch performance by participant for the July 30, 2019 event, please see Attachment PUC 1-1-1. This attachment shows the 115 accounts that participated in the event along with their performance during the event, their capacity commitment for year 2019, and the city in which they are located.

For an example detailed report, please see Attachment PUC 1-1-2. This attachment shows detail for customer 53 referenced in the summary table in Attachment PUC 1-1-1.

Attachment PUC 1-1-2 includes all the electric meter data used for the calculation of the customers’ performance including electric use in the baseline period (last 10 similar days) and on the event day (July 30th). The top tables of this attachment show summary performance data that is calculated using the meter data on the bottom table of the attachment. The column labeled “Formula” shows where each value comes from, or how it is calculated. For this example, the customer has a 394kW same day adjustment due the hotter weather on the event day than the last

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10 similar days. During the event window the customer curtailed 884kW, along with their same-day-adjustment resulting in a total of 1,278 curtailed. This is less than the customer's peak load during the baseline period, so the customer's curtailment was not capped.

The demand response programs follow the same rigorous M&V protocols and requirements as all other energy efficiency programs.

The Company ran an almost identical program in our Massachusetts electric service area in 2019 which was evaluated by a 3rd party consulting company. That evaluation is available here: http://ma-eeac.org/wordpress/wp-content/uploads/2019-Consolidated-Demand-Demonstration-Project-Evaluation-Report_04-15-2020_clean.pdf;

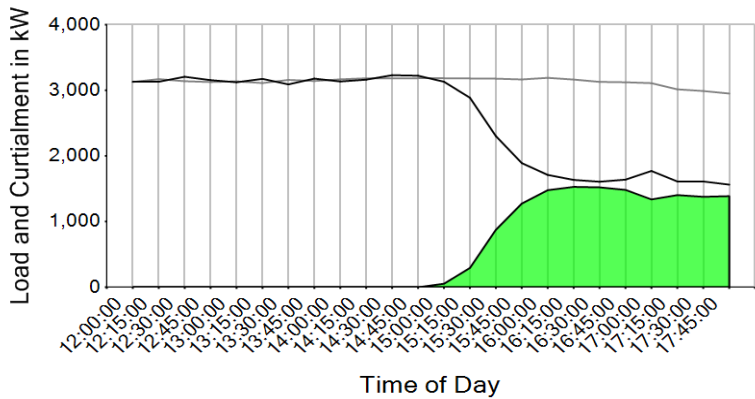
#	July 30th Performance (kW)	2019 Capacity Commitment (kW)	City
1	116	300	WOONSOCKET
2	144	75	JOHNSTON
3	60	200	PROVIDENCE
4	58	300	EAST PROVIDENCE
5	174	150	CENTRAL FALLS
6	0	40	PROVIDENCE
7	87	50	PROVIDENCE
8	64	600	PROVIDENCE
9	87	50	MIDDLETOWN
10	262	225	WESTERLY
11	202	60	KINGSTON
12	0	30	LINCOLN
13	6,364	6,414	JOHNSTON
14	118	275	PROVIDENCE
15	187	87	JOHNSTON
16	1,721	1,107	PROVIDENCE
17	287	2,100	PROVIDENCE
18	245	200	SMITHFIELD
19	3,920	4,700	PROVIDENCE
20	105	58	WESTERLY
21	495	400	WARWICK
22	229	350	RIVERSIDE
23	0	14	PROVIDENCE
24	69	46	WARWICK
25	0	200	CRANSTON
26	0	150	WARWICK
27	118	50	NORTH KINGSTOWN
28	264	500	CRANSTON
29	154	166	BRISTOL
30	671	369	CRANSTON
31	0	30	WARWICK
32	7	0	PROVIDENCE
33	559	890	WEST GREENWICH
34	11	150	CUMBERLAND
35	7	12	WARWICK
36	52	165	PROVIDENCE
37	40	10	PAWTUCKET
38	613	9	PROVIDENCE
39	64	48	PEACE DALE
40	1	50	CRANSTON
41	62	25	WARWICK
42	293	175	EAST PROVIDENCE

#	July 30th Performance (kW)	2019 Capacity Commitment (kW)	City
43	99	165	JOHNSTON
44	95	50	SMITHFIELD
45	300	300	WOONSOCKET
46	0	250	PROVIDENCE
47	0	200	WOONSOCKET
48	53	800	PROVIDENCE
49	34	1	WARWICK
50	81	30	WARWICK
51	0	5	PROVIDENCE
52	57	160	BRISTOL
53	1,278	1,388	PROVIDENCE
54	89	52	CRANSTON
55	1,340	50	NORTH KINGSTOWN
56	95	50	PAWTUCKET
57	22	87	JOHNSTON
58	7	349	CUMBERLAND
59	609	1,000	NEWPORT
60	5	100	CRANSTON
61	79	26	PROVIDENCE
62	158	200	WOONSOCKET
63	34	30	PROVIDENCE
64	8	1,000	LINCOLN
65	2	220	HOPKINTON
66	11	244	CRANSTON
67	171	400	CUMBERLAND
68	818	1,000	PAWTUCKET
69	32	100	NORTH PROVIDENCE
70	60	250	NORTH SMITHFIELD
71	0	50	WOONSOCKET
72	342	200	SMITHFIELD
73	670	307	WEST GREENWICH
74	434	400	WESTERLY
75	24	100	WARWICK
76	59	165	HOPE
77	51	91	COVENTRY
78	152	124	COVENTRY
79	53	66	MIDDLETOWN
80	0	32	PORTSMOUTH
81	210	2,500	LINCOLN
82	2	150	CRANSTON
83	115	87	JOHNSTON
84	13	46	NORTH SMITHFIELD

#	July 30th Performance (kW)	2019 Capacity Commitment (kW)	City
85	18	30	PROVIDENCE
86	10	200	WOONSOCKET
87	561	200	PROVIDENCE
88	185	283	CENTRAL FALLS
89	21	100	EAST PROVIDENCE
90	0	165	CRANSTON
91	566	566	NORTH SMITHFIELD
92	108	50	WESTERLY
93	0	100	CRANSTON
94	319	265	CUMBERLAND
95	226	87	JOHNSTON
96	677	500	WOONSOCKET
97	11	50	WOONSOCKET
98	55	25	SMITHFIELD
99	0	23	ESMOND
100	0	50	WOONSOCKET
101	64	100	WARWICK
102	30	50	WARWICK
103	106	50	WARWICK
104	20	250	WARREN
105	68	150	PAWTUCKET
106	81	84	PROVIDENCE
107	19	21	NORTH KINGSTOWN
108	515	175	EAST PROVIDENCE
109	1	165	PROVIDENCE
110	76	167	BRISTOL
111	118	167	BRISTOL
112	100	50	JOHNSTON
113	91	87	JOHNSTON
114	2	100	NORTH SMITHFIELD
115	1,937	2,000	CRANSTON

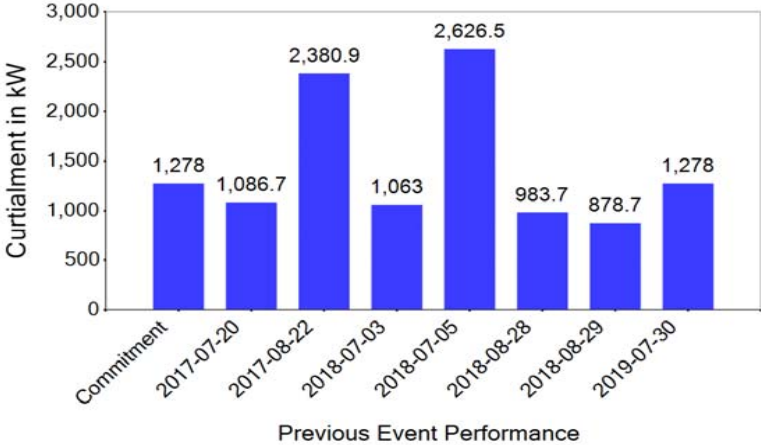
Name	Value
Event Date	July 30, 2019
Event Start Time	3:00:00 PM
Event End Time	6:00:00 PM

Name	Value	Variable	Formula
Avg in Adj Window for Baseline	2,752	a	Average of shaded area below
Avg in Adj Window on Event Day	3,146	b	Average of shaded area below
Same Day Adjustment	394	c	(c)=(b)-(a) or zero, whichever is greater
Avg in Event Window for Baseline	2,699	d	average of shaded area below
Avg in Event Window on Event Day	1,816	e	average of shaded area below
Max_Load	3,144	f	max load during baseline period
Performance	1,278	g	(g)=(d)-(e)+(c) or (f), whichever is smaller



N Event Day
N Baseline
■ pos curtail
■ neg curtail

Time	Jul_16	Jul_17	Jul_18	Jul_19	Jul_20	Jul_21	Jul_22	Jul_23	Jul_24	Jul_25	Jul_26	Jul_27	Jul_28	Jul_29	Jul_30
Used in Baseline	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	
Day Type	Weekday	Weekday	Weekday	Weekday	Weekend	Weekend	Weekday	Weekday	Weekday	Weekday	Weekday	Weekend	Weekend	Weekday	
13:00:00	2896	3028	2468	2884	2480	2328	2772	2504	2472	2640	2700	2068	2216	3072	3,124
13:15:00	2748	3028	2356	2816	2484	2352	2804	2436	2544	2636	2684	1992	2208	3124	3,176
13:30:00	2824	3024	2612	2848	2508	2528	2856	2540	2524	2648	2692	2036	2204	3088	3,092
13:45:00	2848	2988	2516	2900	2496	2556	2820	2412	2516	2584	2796	2084	2188	3108	3,180
14:00:00	2800	2976	2648	2860	2528	2432	2768	2516	2596	2648	2792	1988	2224	3144	3,136
14:15:00	2892	3004	2736	2844	2472	2400	2860	2432	2584	2720	2692	2084	2224	3140	3,164
14:30:00	2884	3028	2660	2900	2492	2432	2920	2416	2576	2668	2708	2044	2188	3132	3,232
14:45:00	2908	3060	2632	2956	2508	2384	2800	2416	2556	2764	2704	2004	2256	3116	3,224
15:00:00	2944	3036	2628	2928	2480	2384	2956	2352	2556	2748	2676	2068	2244	3088	3,132
15:15:00	2928	3084	2516	2880	2484	2356	2952	2444	2664	2592	2684	2136	2200	3132	2,888
15:30:00	2924	3044	2608	2964	2520	2348	2804	2352	2612	2680	2788	2040	2200	3072	2,304
15:45:00	2904	3016	2564	2920	2488	2356	2864	2400	2636	2632	2676	2168	2268	3112	1,892
16:00:00	2984	2924	2556	2916	2460	2392	3092	2352	2672	2660	2684	2120	2264	3128	1,712
16:15:00	2964	2904	2584	2924	2492	2396	2936	2380	2620	2596	2772	2064	2296	3032	1,636
16:30:00	2964	2948	2480	2888	2488	2376	2908	2308	2656	2544	2684	2104	2228	2976	1,608
16:45:00	2972	2880	2536	2764	2504	2408	2932	2308	2592	2600	2704	2008	2332	3008	1,640
17:00:00	2876	2916	2540	2668	2512	2388	2928	2368	2632	2560	2704	2128	2304	2968	1,772
17:15:00	2776	2816	2424	2492	2500	2392	2856	2248	2612	2552	2456	2092	2252	2988	1,612
17:30:00	2816	2792	2412	2464	2492	2408	2724	2288	2560	2580	2436	2092	2268	2892	1,612
17:45:00	2800	2740	2328	2444	2516	2396	2700	2176	2548	2520	2464	2164	2332	2860	1,564
18:00:00	2820	2688	2416	2432	2516	2428	2508	2240	2492	2512	2436	2064	2328	2672	1,548



PUC 1-2

Request:

The amended settlement agreement (page 69) states, "For any resources not listed above, Narragansett Electric will report the calculation of resource-specific savings and provide explanation of any underlying assumptions." Provide this information for the category "residential battery."

Response:

For the residential battery-based demand response measure the performance is the amount of energy discharged (kW) during a demand response event. During the summer of 2019, 15 residential customers participated in 27 demand response events. Some of these events lasted 2 hours and some lasted 3 hours. The average discharge rate during all events was 5.5kW per customer for a total of 82 kW discharged during demand response events on average.

The Company ran an almost identical program in our Massachusetts electric service area in 2019 which was evaluated by a 3rd party consulting company. That evaluation is available here: http://ma-eeac.org/wordpress/wp-content/uploads/MA19DR02-E-Storage_Res-Storage-Summer-Eval_wInfographic_2020-02-10-final.pdf

PUC 1-3

Request:

Please provide the actual demand savings associated with Residential Thermostat Demand Response (DR) and Commercial & Industrial DR, if known, for hour ending 18:00 on July 30, 2019.

Response:


Please see table below:

Demand Response Measure	Average Curtailment over all events	Average Curtailment on July 30, 2019 for hour ending 18:00
Residential Thermostats	1.8 MW	1.8 MW
C&I Targeted Dispatch	31.5 MW	28.1 MW

The right column of the table above is labeled “Average” instead of “Actual” because even though this shows the curtailment for a single hour, that hourly curtailment is still an average of the curtailment over four 15-minute intervals.

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.



Joanne M. Scanlon

May 20, 2020
Date

**National Grid Docket No. 4770 (Rate Application) & Docket No. 4780 (PST)
Combined Service list updated 4/23/2020**

Docket No. 4770 Name/Address	E-mail Distribution List	Phone
National Grid Jennifer Hutchinson, Esq. Celia O'Brien, Esq. National Grid 280 Melrose St. Providence, RI 02907 Electric Transportation: Bonnie Crowley Raffetto, Esq. Nancy Israel, Esq. National Grid 40 Sylvan Road Waltham, MA 02451	Jennifer.hutchinson@nationalgrid.com ;	781-907-2153 401-784-7288
	Andrew.marcaccio@nationalgrid.com ;	
	Celia.obrien@nationalgrid.com ;	
	Najat.coye@nationalgrid.com ;	
	Joanne.scanlon@nationalgrid.com ;	
	Bill.Malee@nationalgrid.com ;	
	Melissa.little@nationalgrid.com ;	
	William.richer@nationalgrid.com ;	
	Theresa.burns@nationalgrid.com ;	
	Ann.leary@nationalgrid.com ;	
	Scott.mccabe@nationalgrid.com ;	
	kayte.o'neill2@nationalgrid.com ;	
	kate.grant2@nationalgrid.com ;	
	Timothy.roughan@nationalgrid.com ;	
Jason.Small@nationalgrid.com ;		
bonnie.raffetto@nationalgrid.com ;		
nancy.israel@nationalgrid.com ;		
Adam Ramos, Esq. Hinckley Allen 100 Westminster Street, Suite 1500 Providence, RI 02903-2319	aramos@hinckleyallen.com ;	401-457-5164
John Habib Keegan Werlin LLP 99 High Street, Suite 2900 Boston, MA 02110	jhabib@keeganwerlin.com ;	617-951-1400
Division of Public Utilities (Division) Leo Wold, Esq.	Chetherington@riag.ri.gov	401-780-2140
	Leo.Wold@dpuc.ri.gov ;	

Christy Hetherington, Esq. Division of Public Utilities and Carriers 89 Jefferson Blvd. Warwick, RI 02888	John.bell@dpuc.ri.gov ;	
	Ronald.Gerwatowski@dpuc.ri.gov ;	
	Al.mancini@dpuc.ri.gov ;	
	Thomas.kogut@dpuc.ri.gov ;	
Tim Woolf Jennifer Kallay Synapse Energy Economics 22 Pearl Street Cambridge, MA 02139	twoolf@synapse-energy.com ;	617-661-3248
	jkallay@synapse-energy.com ;	
	mwhited@synapse-energy.com ;	
David Efron Berkshire Consulting 12 Pond Path North Hampton, NH 03862-2243	Djeffron@aol.com ;	603-964-6526
Gregory L. Booth, PLLC 14460 Falls of Neuse Rd. Suite 149-110 Raleigh, N. C. 27614	gboothpe@gmail.com ;	919-441-6440
		919-810-1616
Linda Kushner L. Kushner Consulting, LLC 514 Daniels St. #254 Raleigh, NC 27605		
Office of Energy Resources (OER) Daniel Majcher, Esq. Dept. of Administration Division of Legal Services One Capitol Hill, 4 th Floor Providence, RI 02908	daniel.majcher@doa.ri.gov ;	401-222-8880
	nancy.russolino@doa.ri.gov ;	
	Christopher.Kearns@energy.ri.gov ;	
	Nicholas.Ucci@energy.ri.gov ;	
	Becca.Trietch@energy.ri.gov ;	
	Carrie.Gill@energy.ri.gov ;	
	Yasmin.Yacoby.CTR@energy.ri.gov ;	
Conservation Law Foundation (CLF) Jerry Elmer, Esq. Max Greene, Esq. Conservation Law Foundation 235 Promenade Street Suite 560, Mailbox 28 Providence, RI 02908	jelmer@clf.org ;	401-228-1904
	mgreene@clf.org ;	
Dept. of Navy (DON) Kelsey A. Harrer, Esq. Office of Counsel NAVFAC Atlantic, Department of the Navy 6506 Hampton Blvd. Norfolk, VA 23508-1278	kelsey.a.harrer@navy.mil ;	757-322-4119

Kay Davoodi, Director Larry R. Allen, Public Utilities Specialist Utilities Rates and Studies Office NAVFAC HQ, Department of the Navy 1322 Patterson Avenue SE Suite 1000 Washington Navy Yard, D.C. 20374	khojasteh.davoodi@navy.mil ;	
	larry.r.allen@navy.mil ;	
Ali Al-Jabir Maurice Brubaker Brubaker and Associates	aaljabir@consultbai.com ;	
New Energy Rhode Island (NERI) Seth H. Handy, Esq. Handy Law, LLC 42 Weybosset St. Providence, RI 02903 The RI League of Cities and Towns c/o Brian Daniels, Executive Director PRISM & WCRPC c/o Jeff Broadhead, Executive Director Newport Solar c/o Doug Sabetti Green Development, LLC c/o Hannah Morini Clean Economy Development, LLC c/o Julian Dash ISM Solar Development, LLC c/o Michael Lucini Heartwood Group, Inc. c/o Fred Unger	seth@handylawllc.com ;	401-626-4839
	helen@handylawllc.com ;	
	randelle@handylawllc.com ;	
	bdaniels@rileague.org ;	401 272-3434
	jb@wcrpc.org ;	401-792-9900
	doug@newportsolarri.com ;	401.787.5682
	hm@green-ri.com ;	
	jdash@cleaneconomydevelopment.com ;	
mlucini@ismgroup.com ;	401.435.7900	
unger@hrtwd.com ;	401.861.1650	
Energy Consumers Alliance of NE James Rhodes Rhodes Consulting 860 West Shore Rd. Warwick, RI 02889 Kat Burnham, PPL Larry Chretien, PPL	jamie.rhodes@gmail.com ;	401-225-3441
	Kat@ripower.org ;	
	larry@massenergy.org ;	

Acadia Center Robert D. Fine, Esq. Chace, Rutenberg & Freedman, LLP One Park Row, Suite 300 Providence, RI 02903 Amy Boyd, Esq. Acadia Center 31 Milk St., Suite 501 Boston MA 02109-5128	rfine@crflp.com ;	401-453-6400 Ext. 115
	aboyd@acadiacenter.org ;	617-472-0054 Ext. 102
Northeast Clean Energy Council Joseph A. Keough, Jr., Esq. Keough & Sweeney 41 Mendon Ave. Pawtucket, RI 02861 Jeremy McDiarmid, NECEC Dan Bosley, NECEC	jkeoughjr@keoughsweeney.com ;	401-724-3600
	jmcdiarmid@necec.org ;	
	dbosley@necec.org ;	
The George Wiley Center Jennifer Wood Rhode Island Center for Justice 1 Empire Plaza, Suite 410 Providence, RI 02903 Camilo Viveiros, Wiley Center	jwood@centerforjustice.org ;	401-491-1101
	georgewileycenterri@gmail.com ;	
	Camiloviveiros@gmail.com ;	
	chloechassaing@hotmail.com ;	
Wal-Mart Stores East & Sam's East, Inc. Melissa M. Horne, Esq. Higgins, Cavanagh & Cooney, LLC 10 Dorrance St., Suite 400 Providence, RI 02903 Gregory W. Tillman, Sr. Mgr./ERA Walmart	mhorne@hcc-law.com ;	401-272-3500
	Greg.tillman@walmart.com ;	479-204-1594
AMTRAK Clint D. Watts, Esq. Paul E. Dwyer, Esq. McElroy, Deutsch, Mulvaney & Carpenter 10 Dorrance St., Suite 700 Providence, RI 02903 Robert A. Weishaar, Jr., Esq. Kenneth R. Stark, Esq.	CWatts@mdmc-law.com ;	401-519-3848
	PDwyer@mdmc-law.com ;	
	BWeishaar@mcneeslaw.com ;	
	KStark@mcneeslaw.com ;	
Original & 9 copies file w/:	Luly.massaro@puc.ri.gov ;	401-780-2107

Luly E. Massaro, Commission Clerk Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Cynthia.WilsonFrias@puc.ri.gov ;	
	Alan.nault@puc.ri.gov ;	
	Todd.bianco@puc.ri.gov ;	
	Sharon.ColbyCamara@puc.ri.gov ;	
	Margaret.hogan@puc.ri.gov ;	
	John.harrington@puc.ri.gov ;	
DOCKET NO. 4780		
ChargePoint, Inc. Edward D. Pare, Jr., Esq. Brown Rudnick LLP One Financial Center Boston, MA 02111 Anne Smart, Charge Point, Inc.	EPare@brownrudnick.com ;	617-856-8338
	jreyes@brownrudnick.com ;	
	Anne.Smart@chargepoint.com ;	
	Kevin.Miller@chargepoint.com ;	
Direct Energy Craig R. Waksler, Esq. Eckert Seamans Cherin & Mellott, LLC Two International Place, 16 th Floor Boston, MA 02110 Marc Hanks, Sr. Mgr./GRA Direct Energy Services,	cwaksler@eckertseamans.com ;	617-342-6800
	rmmurphy@eckertseamans.com ;	413-642-3575
	dclearfield@eckertseamans.com ;	
	Marc.hanks@directenergy.com ;	
INTERESTED PERSONS		
EERMC Marisa Desautel, Esq	marisa@desautelesq.com ;	401-477-0023
	guerard@optenergy.com ;	
John DiTomasso, AARP	jditomasso@aarp.org ;	401-248-2655
Frank Epps, EDP	Frank@edp-energy.com ;	
Matt Davey	mdavey@ssni.com ;	
Jesse Reyes	JReyes@brownrudnick.com ;	
Nathan Phelps	nathan@votesolar.org ;	
Douglas W. Gablinske, TEC-RI	doug@tecri.org ;	
Radina Valova, Pace Energy & Climate Ctr.	rvalova@law.pace.edu ;	
Marc Hanks, Sr. Mgr./GRA Direct Energy Services	Marc.hanks@directenergy.com ;	413-642-3575
	cwaksler@eckertseamans.com ;	
Lisa Fontanella	Lisa.Fontanella@spglobal.com ;	
Janet Gail Besser, SEPA (Smart Electric Power Alliance)	jbesser@sepapower.org ;	
Frank Lacey, EAC Power	frank@eacpower.com ;	
Hank Webster Policy Advocate & Staff Attorney Acadia Center 144 Westminster Street, Suite 203 Providence, RI 02903-2216	hwebster@acadiacenter.org ;	401-276-0600