

ACTIVE DEMAND MANAGEMENT (ADM) UPDATE

- ▶ **EEAC Consultants**
- ▶ **November 18, 2020**

ACTIVE DEMAND MANAGEMENT

-- OUTLINE

- ▶ **In the 2019-2021 Plan, the PAs included new Active Demand Management (ADM) offerings to reduce summer & winter demand.**
 - Residential direct load control, C&I interruptible load curtailment, and targeted dispatch, plus proposal for daily dispatch (now approved by DPU).
- ▶ **Focus is to review updates on recent ADM enrollments and performance in the field, plus look ahead to coming seasons.**
 - Summer 2020 ADM performance based on preliminary Q3 data, with comparison to 2019-2021 Plan values and Term Sheet targets
 - Winter 2020/2021 ADM forecast from PAs, with comparison to targets
 - Look ahead to 2021
- ▶ **Today, not expecting to review proposed ADM recommendations for the 2022-2024 Plan period (proposed during Nov. 5th workshop) except to the extent that the draft recommendations provide context for discussion of 2021 ADM efforts and priorities.**

SUMMER 2020 ACTIVE DEMAND PERFORMANCE -- SUMMARY

► 2020 Q3 Preliminary numbers reported by PAs

ADM Summer 2020 Q3	2020 Planned (MW)	2020 Enrolled (MW)	2020 Performed (MW)	2020 Plan (MW)	2021 Plan (MW)	Term Sheet Target
Summer Total	165	223	168	156.4	209.7	200.0
C&I	152	195	141	142.9	192.4	
Targeted	142	181	135			
Agnostic	140	181	135			
Storage	2	0				
Daily	10	14	6			
Agnostic	5	9	4			
Storage	5	5	1			
Residential	13	28	27	13.5	17.3	
Direct Load Control (DLC)	13	28	27			
EVSE						
Storage	2	2	1			
Thermostats	11	27	26			

- 2020 Summer C&I ADM was on target; Res ADM exceeded targets
- On good path to achieve or exceed Plan value for 2021 (210 MW) and term sheet target of 200 MW for summer ADM

SUMMER 2020 ACTIVE DEMAND MNG PERFORMANCE – BY SECTOR AND PA

PA	Sector	Dispatch Type	Technology	Season	Participants	Unit	2020 Planned (MW)	2020 Enrolled (MW)	2020 Performed (MW)*	2020 Evaluated (MW)	2020 Plan (MW)	2021 Plan (MW)	Term Sheet Target
National Grid	C&I	Targeted	Agnostic	Summer	440 accts		72.0	90.9	70.0				
National Grid	C&I	Daily	Agnostic	Summer	5 accts		5.0	9.0	4.4				
Eversource	C&I	Targeted	Agnostic	Summer	312 accts		55.0	88.0	64.2				
Eversource	C&I	Daily	Storage	Summer	8 accts		5.0	4.8	1.1				
Unitil	C&I	Targeted	Agnostic	Summer	3 accts		0.4	0.8	1.0				
CLC	C&I	Targeted	Agnostic	Summer	23 accts		12.5	1.18					
CLC	C&I	Targeted	Storage	Summer	1 accts		2.0	0.28					
TOTAL	C&I						152	195	141	0	142.9	192.4	
	<i>C&I</i>	<i>Targeted</i>					<i>142</i>	<i>181</i>	<i>135</i>				
	<i>C&I</i>	<i>Daily</i>					<i>10</i>	<i>14</i>	<i>6</i>				
National Grid	Resi	DLC	Thermostats	Summer	14,155 tstats		6.8	12.6	12.6				
National Grid	Resi	DLC	Storage	Summer	217 accts		1.8	1.2	1.0				
Eversource	Resi	DLC	Thermostats	Summer	16,529 tstats		3.0	13.6	13.6				
Eversource	Resi	DLC	Storage	Summer	24 accts		0.2	0.42	0.1				
Eversource	Resi	DLC	EVSE	Summer	215 units								
Unitil	Resi	DLC	Thermostats	Summer	170 tstats		0.1	0.06	0.1				
CLC	Resi	DLC	Thermostats	Summer	876 tstats		1.3	0.44					
CLC	Resi	DLC	Storage	Summer	0 accts		0.1	0					
TOTAL	Res						13	28	27	0	13.5	17.3	
	<i>Res</i>	<i>DLC</i>	<i>Thermostats</i>		<i>31,730 tstats</i>		<i>11</i>	<i>27</i>	<i>26</i>				
	<i>Res</i>	<i>DLC</i>	<i>Storage</i>		<i>241 accts</i>		<i>2</i>	<i>2</i>	<i>1</i>				
TOTAL	C&I and Res						165	223	168	0	156.3	209.7	200.0

* Represents partial data at the time of report

WINTER ACTIVE DEMAND MNG – PROGRESS DURING 2020

PA	Sector	Dispatch Type	Technology	Season	2019/20 Winter Participants	Unit	2019/20 Planned (MW)	2019/20 Evaluated (MW)	2020 Q3 Enrolled (MW)	2020/21 Planned (MW)	2020 Plan (MW)	2021 Plan (MW)	Term Sheet Target
National Grid	C&I	Targeted	Agnostic	Winter*	116 accts		13.0	25.5		21.5			
Eversource	C&I	Targeted	Agnostic	Winter*	60 accts		9.2	14.7		20.0			
CLC	C&I	Targeted	Agnostic	Winter*		accts				3.1			
CLC	C&I	Targeted	Storage	Winter*		accts				2.0			
TOTAL	C&I						22.2	40.2		46.6	32.0	44.5	
	<i>C&I</i>	<i>Targeted</i>					22.2	40.2		46.6			
	<i>C&I</i>	<i>Daily</i>					0.0	0.0		0.0			
National Grid	Resi	DLC	Storage	Winter*	119 accts		0.9	0.56		2.7			
Eversource	Resi	DLC	Storage	Winter*	4 units		0.1	0.01					
National Grid	Resi	DLC	EVSE	Winter*		units				0.6			
TOTAL	Res						1.0	0.6		3.3	2.0	3.0	
	<i>Res</i>	<i>DLC</i>	<i>Storage</i>			<i>accts</i>	1.0	0.6		2.7			
	<i>Res</i>	<i>DLC</i>	<i>EVSE</i>			<i>units</i>				0.6			
TOTAL	C&I and Res						23.2	40.8	0	49.9	34.0	47.5	50.0

- ▶ PA forecast indicates ADM offerings are on track to achieve Plan value for 2021 (47.5 MW) and term sheet target of 50 MW
- ▶ Consultants have requested comparison of winter 2019/2020, enrollments as of 2020 Q3, and forecast of winter 2020/2021

ACTIVE DEMAND MANAGEMENT

-- LOOKING AHEAD TO 2021

- ▶ Continue the evolution, expansion, and growth of ADM offerings
- ▶ Increase participation of customers and vendors, including by making it easier to participate, revising program processes and procedures, and emphasizing the value in the benefits stack
- ▶ Add end uses (e.g., water heating, pool pumps)
- ▶ Integrate more fully with delivery and promotion of EE offerings
- ▶ Leverage and integrate with other programs, and pursue co-promotion, co-delivery, and co-funding where valuable
- ▶ Pursue/assess newer opportunities such as storage, solar and storage, and electric vehicle charging and the electric system impacts of other forms of transportation (including for equity)
- ▶ Continue evolution to active demand *management*, not just active demand *peak reduction*

THANK YOU

Questions

▶ November 18, 2020

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