

### Forward Capacity Market New Transmission Project Tracker

	A	B	C	D	E	F	G	H	I	M	AF
	Commitment Period	State	Original Projected In-Service Quarter (RSP Date)	Major Project	Project Component	RSP Project Number	I.3.9 Approval	TCA Approval	Responsible TO	Certified In-Service Date	Project Completion Date
2											
3											
4	<b>In Service Prior to 2006</b>										
5											
6	2010_2011	CT	2005	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Replace (3) 115-kV circuit breakers at Norwalk Harbor Substation.	95	Feb-04	Sep-06	NU	Project Complete	2005
7	2010_2011	VT	2004	Northwest Vermont Reliability Project	Sandbar PAR	410	Jan-03	Mar-03	VELCO	Project Complete	2004
8	2010_2011	MA	Apr-05	Central Massachusetts Reinforcements	Replace two (2) Millbury 115-69 kV transformers with larger units.	72	Apr-04	Apr-06	NGRID	Project Complete	Apr-05
9	2010_2011	CT	Jul-05	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Pequonnock Substation 115 kV Breaker - Short Circuit Upgrade.	310	Jan-05	Mar-05	NU	Project Complete	Jul-05
10	2010_2011	MA	Jul-05	Central Massachusetts Reinforcements	Replace 69 kV breaker at Shrewsbury.	708	Apr-04	Apr-06	NGRID	Project Complete	Jul-05
11	2010_2011	MA	Nov-05	Central Massachusetts Reinforcements	Two (2) additional Pratts Junction 115-69 kV autotransformers	73	Apr-04	Apr-06	NGRID	Project Complete	Nov-05
12	2010_2011	MA	Nov-05	Central Massachusetts Reinforcements	Pratts Jct. - replace all 8-69 kV breakers and N40 disconnect switch.	629	Apr-04	Apr-06	NGRID	Project Complete	Nov-05
13	2010_2011	VT	Dec-05	Northwest Vermont Reliability Project	Hartford 115kV Breaker - Replace an existing 115kV motorized SCADA controlled disconnect switch with a circuit breaker at Hartford substation on the line toward Wilder sub and add one 25 MVAR cap. Bank	132	Jan-03	Mar-03	VELCO	Project Complete	Dec-05
14	2010_2011	VT	Dec-05	Northwest Vermont Reliability Project	Essex K24 Line Breaker	133	Jan-03	Mar-03	VELCO	Project Complete	Dec-05
15	2010_2011	MA	Dec-05	Central Massachusetts Reinforcements	Reconductor N-40 69 KV line Fitch Road - Pratts Junction	76	Apr-04	Apr-06	NGRID	Project Complete	Dec-05
16	2010_2011	MA	Dec-05	Central Massachusetts Reinforcements	Woodside- New 69 kV Breaker	67	Apr-04	Apr-06	NGRID	Project Complete	Dec-05
17	2010_2011	MA	Dec-05	Central Massachusetts Reinforcements	Reconductor W-175 115 kV from Carpenter Hill to W. Charlton	70	Apr-04	Apr-06	NGRID	Project Complete	Dec-05
18	<b>In Service 2006</b>										
19											
20	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (1) new 345 kV UG Cables from Stoughton to Mattapan Sq. to K Street and install new autotransformer at K. St.	114	Feb-05	Sep-05	NSTAR	Project Complete	Apr-07
21	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (1) 345/115 kV autotransformer at Hyde Park Substation	115	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
22	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (1) new 345 kV UG Cable from Stoughton to Mattapan Sq. to Hyde Park Substation	117	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
23	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (1) 345 kV breaker at Hyde Park Substation	119	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
24	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (2) 115 kV circuit breakers at Hyde Park Substation	120	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
25	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (3) 345 kV circuit breakers at K St.	121	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
26	2010_2011	MA	Dec-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (1) 345 kV 160 MVAR shunt reactors at K St.	123	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06
27	2010_2011	MA	Jun-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (3) 345 kV 160 MVAR shunt reactors at Stoughton	118	Feb-05	Sep-05	NSTAR	Project Complete	Jun-06
28	2010_2011	MA	Jun-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add (2) Heat Exchangers on Baker-Hyde Park 115 kV circuits.	124	Feb-05	Sep-05	NSTAR	Project Complete	Jun-06
29	2010_2011	MA	Jun-06	NSTAR 345 kV Transmission Reliability Project (Phase I)	Add 345 kV Stoughton switching station in ring bus configuration along with circuit breakers.	125	Feb-05	Sep-05	NSTAR	Project Complete	Jun-06
30	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Rebuild portions of 115-kV lines (1565,1470) from Plumtree Substation to Norwalk Substation	88	Feb-04	Sep-06	NU	Project Complete	2006
31	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Expand Plumtree 345-kV substation; includes (7) 345-kV circuit breakers and (1) shunt reactor.	90	Feb-04	Sep-06	NU	Project Complete	2006

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32	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Add two 115-kV 3% reactors on the 1910 and 1950 lines at Southington.	91	Feb-04	Sep-06	NU	Project Complete	2006
33	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Add 345-kV circuit breaker at Long Mountain Substation.	93	Feb-04	Sep-06	NU	Project Complete	2006
34	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Add Special Protection System (SPS) at Glenbrook Substation.	94			NU	Project Complete	2005
35	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Replace limiting terminal equipment at Southington and Millstone Substations.	96	Feb-04	Sep-06	NU	Project Complete	2006
36	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Build new 345-kV OH/UG line from Plumtree Substation to Norwalk Substation; includes (2) shunt reactors at Norwalk Jct. transition point.	87	Feb-04	Sep-06	NU	Project Complete	Oct-06
37	2010_2011	CT	2006	Southwest Connecticut (Bethel-Norwalk) Reliability Project	Installation of new Norwalk 345-kV substation at Norwalk Substation; includes (4) 345-kV circuit breakers and (1) autotransformer.	89	Feb-04	Sep-06	NU	Project Complete	Oct-06
38	2010_2011	CT	Dec-06	Killingly Project	Install new Killingly substation and a 345/115 kV autotransformer and associated 345-kV breaker.	100	Aug-04	Feb-07	NU	Project Complete	Dec-06
39	2010_2011	CT	Dec-06	Killingly Project	Add 345-kV circuit breaker at Card Substation.	101	Aug-04	Feb-07	NU	Project Complete	Dec-06
40	2010_2011	CT	Dec-06	Killingly Project	Lake Road generation SPS modifications.	99	Mar-07	NR	NU	Project Complete	May-07
41	2010_2011	VT	Dec-06	Northwest Vermont Reliability Project	Blissville PAR	135	Jan-03	Mar-03	VELCO	Project Complete	Dec-06
42	2010_2011	VT	Dec-06	Northwest Vermont Reliability Project	New Haven-West Rutland 345kV line, 345/115 New Haven Sub with 115kV ring bus, and close the 345 kV ring bus at West Rutland	137	Jan-03	Mar-03	VELCO	Project Complete	Jan-07
43	2010_2011	MA	Sep-06	Central Massachusetts Reinforcements	Reconductor M-39 69 kV Line from Wachusett to Fitch	75	Apr-04	Apr-06	NGRID	Project Complete	Sep-06
44	2010_2011	MA	Dec-06	Central Massachusetts Reinforcements	Reconductor Wachusett - West Boylston (P142N) 115 kV line.	78	Apr-04	Apr-06	NGRID	Project Complete	Dec-06
45	2010_2011	MA	Dec-06	Central Massachusetts Reinforcements	W. Boylston Sub upgrade to NPCC Criteria and 115 kV breaker.	707	Apr-04	Apr-06	NGRID	Project Complete	Dec-06
46	2010_2011	MA	Dec-06	Central Massachusetts Reinforcements	Wachusett Sub - #47 2nd 115/69 kV transformer.	709	Apr-04	Apr-06	NGRID	Project Complete	Dec-06
47	2010_2011	MA	Apr-06	Central Massachusetts Reinforcements	Reconductor O141 115 kV from Greendale Sub to Nashua St	68	Apr-04	Apr-06	NGRID	Project Complete	Apr-06
48	2010_2011	MA	Jun-06	Central Massachusetts Reinforcements	Reconductor O141N 115 kV Pratts/Millbury ROW to Greendale Sub	69	Apr-04	Apr-06	NGRID	Project Complete	Jun-06
49	2010_2011	MA	Jun-06	Central Massachusetts Reinforcements	Rolfe Ave. upgrade 115 kV breaker	678	Apr-04	Apr-06	NGRID	Project Complete	Jun-06
50	<b>In Service 2007</b>										
51	2011_2012	MA	Jun-07	Boston Area 115 kV Enhancements	Upgrade 385-510/511 Kingston St. to Kingston Network 115 kV lines	300	NR	No	NSTAR	Project Complete	Jun-07
52	2011_2012	ME	Dec-07	Rumford-Woodstock-Kimball Road Corridor Project	Reterminate (3) 115 kV lines and add (2) bus-tie breakers at Kimball Road.	627	No	No	CMP	Dec-07	
53	2011_2012	ME	Dec-07	Raymond Substation Project	Add 115/34.5 kV transformer at Raymond substation on Section 208/209	147	Jun-07	No	CMP	Complete	Jul-07
54	2011_2012	MA	Dec-07	Mystic Breaker IPT Project	Upgrade (3) 115 kV breakers at Mystic to IPT	773	NR	NR	NSTAR	Project Complete	Aug-07
55	2010_2011	NH	2007	Scobie to Hudson Reinforcements	Install new 115-kV Scobie - Hudson line.	580	Jul-06	No	NU	Project Complete	Jun-07

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56	2010_2011	NH	2007	Scobie to Hudson Reinforcements	Rebuild Hudson Substation to breaker and half.	581	Jul-06	No	NU	3rd Quarter 08	
57	2010_2011	MA	Mar-07	Central Massachusetts Reinforcements	Wachusett (2) 345/115 kV Autotransformers and 345 kV Station	74	Apr-04	Apr-06	NGRID	Project Complete	Apr-07
58	2010_2011	VT	May-07	Monadnock Reliability Project	Retension Bellows Falls to Ascutney Tap (W-149S) 115 kV line.	175	Mar-06	NR	NGRID	Project Complete	Jun-08
59	2010_2011	ME	Jun-07	Maxcys & Bucksport SPS Replacement	Redesign/replacement of the Maxcy's Cross Trip and Bucksport Overcurrent Type 1 Special Protection Systems	461	Mar-06	No	CMP	Project Complete	Dec-07
60	2010_2011	VT	Oct-07	Northwest Vermont Reliability Project	Granite Sub Upgrade Phase 1: 230 kV PAR, 25 MVAR Cap. bank, +/- 75 MVAR STATCOM, and second 230/115 transformer	136	Jan-03	Mar-03	VELCO	May-08	
61	2010_2011	VT	Oct-07	Northwest Vermont Reliability Project	Granite Sub Upgrade Phase 2: STATCOM expanded to +/- 150 MVAR and two 25 MVAR capacitor banks	139	Jan-03	Mar-03	VELCO	Aug-11	
62	2010_2011	VT	Nov-07	Northwest Vermont Reliability Project	Williston Ring Bus	134	Jan-03	Mar-03	VELCO	Dec-07	
63	2010_2011	VT	Nov-07	Northwest Vermont Reliability Project	N. Haven - Vergennes - Q. City 115 kV Line	138	Jan-03	Mar-03	VELCO	Dec-08	
64	2010_2011	CT	2ndQ-07	Haddam / Middletown Reliability Project	Rebuild 115-kV Manchester - Hopewell 1767 line and associated terminals.	98	Aug-03	May-07	NU	Project Complete	Apr-07
65	2010_2011	ME	Dec-07	Northeast Reliability Interconnect Project	Point Lepreau to Orrington - New 345 kV line as well as capacity expansion from Orrington to Maine Yankee.	56	Mar-03	May-06	Bangor, CMP	Project Complete	Dec-07
66	2010_2011	ME	Dec-07	Buxton Breaker Additions	Addition of (4) 345 kV breakers at Buxton.	579	Mar-07	No	CMP	Dec-07	
67	<b>In Service 2008</b>										
68	2010_2011	NH	2008	Scobie to Hudson Reinforcements	Rebuild 115-kV Scobie - Hudson X116 line.	280	Jul-06	No	NU	3rd Quarter 08	
69	2010_2011	CT	2008	Barbour Hill Autotransformer	Install new 345/115-kV autotransformer at Barbour Hill Substation.	202	Sep-06	No	NU	3rd Quarter 08	
70	2010_2011	CT	2008	Norwalk - Glenbrook Cables	Install two new 115-kV cables from Norwalk to Glenbrook (accommodate 345 kV class cable).	248	Aug-05	No	NU	4th Quarter 2008	
71	2010_2011	CT	2008	Norwalk - Glenbrook Cables	Expand and upgrade to BPS and remove SPS at Glenbrook 115 kV substation.	243	Aug-05	No	NU	4th Quarter 2008	
72	2010_2011	CT	2008	Norwalk - Glenbrook Cables	Replace two 115-kV circuit breakers at Cos Cob.	569	Aug-05	No	NU	4th Quarter 2008	
73	2010_2011	CT	2008	Norwalk - Glenbrook Cables	Add second high speed relay system on the 1450 line.	570	Aug-05	No	NU	4th Quarter 2008	
74	2010_2011	CT	2008	Norwalk - Glenbrook Cables	Upgrade Flax Hill Substation to BPS.	571	Aug-05	No	NU	4th Quarter 2008	
75	2010_2011	CT	2008	3rd Scobie Auto	Install third 345/115-kV autotransformer at Scobie Substation.	587	No	No	NU	2nd Quarter 08	
76	2010_2011	VT	2008	Monadnock Reliability Project	Upgrade bus cable at N. Rutland and K32 115 kV breaker at Rutland.	182	Mar-06	No	VELCO	Jun-08	
77	2010_2011	MA	Jun-08	NSTAR 345 kV Transmission Reliability Project (Phase II)	Add (5) 115 kV breakers at K St.	122	Feb-05	Sep-05	NSTAR	Project Complete	Nov-06

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78	2010_2011	MA	Jun-08	NSTAR 345 kV Transmission Reliability Project (Phase II)	Add (1) 345 kV 160 MVAR shunt reactors at Stoughton	572	Feb-05	Sep-05	NSTAR	2008	
79	2010_2011	MA	Jun-08	NSTAR 345 kV Transmission Reliability Project (Phase II)	Add (1) 345 kV 160 MVAR shunt reactors at K St.	573	Feb-05	Sep-05	NSTAR	2008	
80	2010_2011	RI/CT	Nov-08	Southwest Rhode Island Project	Reconductor W. Kingston - Kenyon 115 kV 1870N line.	169	Jan-05	Mar-05	NGRID	Nov-08	
81	2010_2011	RI/CT	Nov-08	Southwest Rhode Island Project	Extend L-190 line to W. Kingston.	170	Nov-04	Mar-05	NGRID	Nov-08	
82	2010_2011	RI/CT	Nov-08	Southwest Rhode Island Project	Reconductor Kenyon - Wood River 115 kV 1870 line.	168	Jan-05	Mar-05	NGRID	Nov-08	
83	2010_2011	RI/CT	Nov-08	Southwest Rhode Island Project	Rebuild W. Kingston to include 115 kV ring bus.	173	Nov-04	Mar-05	NGRID	Nov-08	
84	2010_2011	RI/CT	Nov-08	Southwest Rhode Island Project	Reconductoring L-190 between Kent Co. and Davisville.	171	Nov-04	Mar-05	NGRID	Nov-08	
85	2010_2011	ME	Dec-08	Maguire Road Project	Rebuild Louden - Maguire Road 115 kV Line S163.	154	Mar-07	No	CMP	Nov-08	
86	2010_2011	ME	Dec-08	Maguire Road Project	Rebuild Three Rivers - Quaker Hill 115 kV Line S197.	155	Mar-07	No	CMP	Nov-08	
87	2010_2011	ME	Dec-08	Maguire Road Project	Convert Maguire Road to a switching substation by replacing switches with breakers.	149	Mar-07	No	CMP	Nov-08	
88	2010_2011	ME	Dec-08	Maguire Road Project	Rebuild South Gorham to Louden 115 kV Line S219.	715	Mar-07	No	CMP	Nov-08	
89	2010_2011	ME	Dec-08	Maguire Road Project	Reconductor. South Gorham to Louden 115 kV Line S220	716	Mar-07	No	CMP	Nov-08	
90	2010_2011	ME	Dec-08	Maguire Road Project	Install a 115 kV 30 MVA capacitor bank at Sanford.	717	Mar-07	No	CMP	Nov-08	
91	2010_2011	MA	2008 (Except components #126, 127 & 128)	NSTAR 345 kV Transmission Reliability Project (Phase II)	Add 2nd 345 kV UG Cables from Stoughton to Mattapan Sq. to K Street and install another new autotransformer at K St.	116	Feb-05	Sep-05	NSTAR	2008	
93	2010_2011	CT	4thQ-08	Long Island Replacement Cable	Replace 138-kV Norwalk(CT)-Northport(NY) 1385 cable.	104	Dec-02	Jun-07	NU	4th Quarter 2008	
94	2010_2011	NH	4thQ-08	Monadnock Reliability Project	Install new Fitzwilliam 345/115-kV substation and 345-kV breakers.	176	Mar-06	No	NU	4th Quarter 2008	
96	2011_2012	MA	2008		Install a 345-kV circuit breaker at Ludlow substation	250	Jun-07	Aug-07	NU	4th Quarter 2008	
97	2011_2012	MA	Mar-08		New 345 kV gas circuit breaker at Auburn St. Substation on the 335 Line.	685	Oct-06	Oct-06	National Grid, USA	2008	

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98	2011_2012	MA	May-08	Short Term Lower SEMA Upgrades	Install a new 115kV line termination at Auburn St south bus	960	Aug-07	No	NSTAR	Dec-08	
99	2011_2012	MA	Jun-08	Short Term Lower SEMA Upgrades	Add new 115 kV line from Brook Street to Auburn Street.	694	Aug-07	No	NSTAR	Dec-08	
100	2011_2012	MA	Jun-08	Short Term Lower SEMA Upgrades	Add (5) new 115 kV circuit breakers at Brook Street	833	Aug-07	No	NSTAR	Dec-08	
101	2011_2012	ME	Dec-08	Rumford-Woodstock-Kimball Road Corridor Project	Addition of 115/34.5 kV transformer and six new 115 kV breakers and a half substation at Woodstock.	626	No	No	CMP	Dec-08	
102	2011_2012	ME	Dec-08	Heywood Road Project	New Benton 115 kV switchyard with (6) 115 kV circuit breakers, (3) 115 kV line retensionings, and 115 kV 20 MVAR capacitor bank at Benton	575	Jan-07	No	CMP	Dec-08	
104	<b>In Service 2009</b>										
105	2010_2011	MA	2009	North Shore Upgrades (Wakefield Jct 345 KV Station)	Loop 345 kV 339 line and 115 kV S-145/T-146 into new Wakefield Jct. Substation w/ 345/115 kV autotransformer	161	No	No	NGRID	2009	
106	2010_2011	NH	2009	Monadnock Reliability Project	Replace limiting terminal equipment at Webster Substation on line to North Road.	177	Mar-06	No	NU	2009	
107	2010_2011	NH	2009	Monadnock Reliability Project	Rebuild 115-kV Garvins to Webster V-182 line.	178	Mar-06	No	NU	2009	
108	2010_2011	NH	2009	Monadnock Reliability Project	Rebuild 115-kV Jackman to Greggs F-162 line, or Greggs reactor size increase.	179	Mar-06	No	NU	2009	
109	2010_2011	NH	2009	Monadnock Reliability Project	Rebuild 115-kV Keene to Swanzey A-152 line.	180	Mar-06	No	NU	2009	
110	2010_2011	NH, MA, VT	Jul-09	Monadnock Reliability Project	Reconductor I-135 (Bellows Falls-Monadnock Tap-Flagg Pond) 115 kV line.	174	Mar-06	No	NU, NGRID	Jul-09	
111	2010_2011	VT	Dec-09	Monadnock Reliability Project	Coolidge +/- 75 MVAR STATCOM with 50 MVARs of new capacitors at Coolidge.	187	Mar-06	No	VELCO	Nov-09	
112	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install new 345-kV line from Scovill Rock to Chestnut Jct.	222	Jan-06	No	NU, UI	2nd Quarter 09	
113	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install (2) new 345-kV lines from Black Pond Jct. to Beseck Jct.	223	Feb-07	No	NU, UI	2nd Quarter 09	
114	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install new 345-kV line from East Devon to Singer(UI).	224	Jan-06	No	NU, UI	4th Quarter 2009	
115	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install new 345-kV line from Oxbow Jct. to Beseck Jct.	225	Jan-06	No	NU, UI	2nd Quarter 2009	
116	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install two 345-kV underground cables from Singer(UI) to Norwalk.	226	Jan-06	No	NU, UI	4th Quarter 2009	
117	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install new 345-kV line from Beseck Jct. to East Devon.	227	Jan-06	No	NU, UI	2nd Quarter 2009	
118	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Installation of new Beseck Jct. 345-kV switching station in Wallingford	228	Apr-07	No	NU, UI	1st Quarter 2009	
119	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install new East Devon 345-kV substation and new East Devon 115-kV substation in Milford.	229	Jan-06	No	NU, UI	4th Quarter 2009	
120	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Expand 345-kV Scovill Rock Substation.	230	Apr-07	No	NU, UI	Complete	
121	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Rebuild 115-kV Devon to Devon Switching Station(UI) 1780 and 1790 lines.	231	Jan-06	No	NU, UI	4th Quarter 2009	
122	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Build two 115-kV cables between East Devon and Devon.	232	Jan-06	No	NU, UI	4th Quarter 2009	
123	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Expand Norwalk 345-kV substation and install transfer trip relaying scheme on the 1389 115 kV line between Norwalk and Flax Hill.	235	Jan-06	No	NU, UI	4th Quarter 2009	
124	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Rebuild 115-kV lines (1640,1685,1610) between Devon and Cook Hill Jct. (UG section of 1640 near Cook Hill)	236	Jan-06	No	NU, UI	4th Quarter 2009	
125	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Rebuild 115-kV lines-1975 from Beseck to Oxbow Junction and 1655 from East Wallingford Jct. to New Haven Jct.	237	Jan-06	No	NU, UI	4th Quarter 2009	

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126	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Build new Singer 345 kV substation with (16) circuit breakers, (2) autos, (4) shunt reactors along with reconnecting Bridgeport Energy thru one of the new autos. Includes 115 kV connection from Singer to Pequonnock substation.	238	Jan-06	No	NU, UI	4th Quarter 2009	
127	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Installation of 115-kV breakers at Elmwest Substation.	242	Jan-06	No	NU, UI	4th Quarter 2009	
128	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Disconnect Milford Power from Devon Substation and reconnect to East Devon Jct. Substation.	245	Jan-06	No	NU, UI	4th Quarter 2009	
129	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Add second 345/115-kV autotransformer at Norwalk Substation along with shunt reactors and 345-kV circuit breakers.	246	Jan-06	No	NU, UI	4th Quarter 2009	
130	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Rebuild the 1466 115-kV line from East Meriden to North Wallingford.	551	Apr-07	No	NU, UI	4th Quarter 2009	
131	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Install (1) new 115-kV circuit breaker at Devon Substation in series with 7R-2T.	239	Jan-06	No	NU, UI	4th Quarter 2009	
132	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Replace Norwalk Harbor 138/115-kV autotransformer.	247	Jan-06	No	NU, UI	4th Quarter 2009	
133	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Remove a portion of the 115 kV 1690 line from Devon to Cook Hill Jct.	611	Jan-06	No	NU, UI	4th Quarter 2009	
134	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Modify the Cross Sound Cable (CSC) 387 Line-End-Open Special Protection System (SPS).	683	Jan-06	No	NU, UI	4th Quarter 2009	
135	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Replace (6) 115 kV breakers (4-Glenbrook, 1-Glenbrook Statcom, 1-Southington #1) and (2) 345 kV circuit breakers at Millstone.	684	Jan-06	No	NU, UI	4th Quarter 2009	
136	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Upgrade the Devon Substation ring buses #1 and #2.	705			NU, UI	4th Quarter 2009	
137	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Upgrade Water Street, Broadway, Mill River, West River, Elmwest, Baird, Bridgeport RESCO, and Ash Creek substations to BPS standards.	608	Jan-06	No	NU, UI	4th Quarter 2009	
138	2010_2011	CT	NU, UI - 4thQ-09	Southwest Connecticut (Middletown-Norwalk) Reliability Project	Removal of the 348 and 362 345 kV line crossing.	681			NU, UI	4th Quarter 2009	
139	2011_2012	ME	Jun-08	Rumford-Woodstock-Kimball Road Corridor Project	Rebuild Section 211, Woodstock - Rumford.	910	No	No	CMP	Jun-09	
140	2011_2012	ME	Dec-08	Rumford-Woodstock-Kimball Road Corridor Project	Install 115 kV line (New Page - Rumford Industrial Park).	624	No	No	CMP	Dec-09	
141	2011_2012	ME	Dec-08	Rumford-Woodstock-Kimball Road Corridor Project	Addition of two Rumford Industrial Park capacitor banks.	625	No	No	CMP	Dec-09	
144	2011_2012	RI	Mar-09	Greater Rhode Island Transmission Reinforcements	Terminal upgrades at Drumrock, Chartley Pond and Brayton Point	786	No	No	National Grid, USA	2009	
146	2011_2012	MA	Jun-09	Auburn Area Transmission System Upgrades	Belmont substation - Upgrade Buswork	920	No	No	National Grid, USA	2009	
147	2011_2012	MA	Jun-09	Auburn Area Transmission System Upgrades	Bridgewater substation - Upgrade Buswork and convert to BPS substation	921	No	No	National Grid, USA	2010	
148	2011_2012	MA	Jun-09	Auburn Area Transmission System Upgrades	Reconductor 115kV L1 line and associated substation upgrades	922	No	No	National Grid, USA	2009	
149	2011_2012	MA	Jun-09	Auburn Area Transmission System Upgrades	Reconductor 115kV A94 line and associated substation upgrades	923	No	No	National Grid, USA	2009	
151	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Greendale - replace 115 kV breaker and upgrade to 2000A.	927	No	No	National Grid, USA	2009	
152	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Millbury -upgrade terminal equipment for O-141, P-142, B-128, A-127 circuit breakers.	928	No	No	National Grid, USA	2009	
153	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Pratts Jct. - increase thermal rating of I-135 and J-136 buswork.	932	No	No	National Grid, USA	2009	

### Forward Capacity Market New Transmission Project Tracker

	A	B	C	D	E	F	G	H	I	M	AF
2	Commitment Period	State	Original Projected In-Service Quarter (RSP Date)	Major Project	Project Component	RSP Project Number	I.3.9 Approval	TCA Approval	Responsible TO	Certified In-Service Date	Project Completion Date
154	2011_2012	RI	Nov-09	Greater Rhode Island Transmission Reinforcements	West Farnum Breaker Replacements	787	No	No	National Grid, USA	2009	
156	2011_2012	RI	Dec-09	Greater Rhode Island Transmission Reinforcements	Kent County substation expansion	788	No	No	National Grid, USA	2009	
157	2011_2012	MA	Jul-08		Q-169 Golden Hills to Lynn 115 kV line upgrade.	162	Sep-05	No	National Grid, USA	2009	
158	2011_2012	MA	Sep-08		New W. Amesbury 345 kV and 115 kV substations tapped off of (394) line between Ward Hill and Seabrook - King St. relief.	167	Nov-05	NR	National Grid, USA	2009	
159	2011_2012	MA	Dec-08	Short Term Lower SEMA Upgrades	Loop (355) 345 kV line in and out of Carver Substation and add (5) new 345 kV circuit breakers at Carver substation.	695	Aug-07	No	NSTAR	Dec-09	
160	2011_2012	MA	Dec-08	Short Term Lower SEMA Upgrades	Add a second 345/115 kV Auto transformer at Carver substation and add (1) new 345 kV circuit breaker and (3) new 115 kV circuit breakers at Carver substation	830	Aug-07	No	NSTAR	Dec-09	
161	2011_2012	MA	Dec-08	Short Term Lower SEMA Upgrades	Add a second 115 kV line from Carver to Tremont and add (2) new 115 kV circuit breakers at Carver substation and (1) new 115 kV circuit breaker at Tremont substation	831	Aug-07	No	NSTAR	Dec-09	
162	2011_2012	MA	Dec-08	Short Term Lower SEMA Upgrades	Add a Dynamic STATCOM or SVC at Barnstable	832	Aug-07	No	NSTAR	Dec-09	
163	<b>In Service 2010</b>										
175	2011_2012	RI	Mar-10	Greater Rhode Island Transmission Reinforcements	Reconductoring of T7 (Somerset-Pawtucket) 115 kV line	789	No	No	National Grid, USA	2010	
176	2011_2012	CT	May-10	Lake Road/Russell Biomass Upgrades	Upgrade of the terminal equipment for the 1512 (Granville Jct to Southwick subs) and 1768 (Southwick to North Bloomfield subs) transmission lines such that they are upgraded to their conductor (556 ACSR) limit and have a LTE rating of at least 228 MVA.				NU	May-11	
177	2011_2012	MA	Jun-10	Central/Western Massachusetts Upgrades	Bear Swamp - install one 230-115 kV 333 mVA auto, one 115 kV breaker and upgrade various terminal equipment.	937	No	No	National Grid, USA	2010	
178	2011_2012	MA	Jun-10	Central/Western Massachusetts Upgrades	Deerfield - install a new 115/69kV autotransformer and a 69kV breaker and disconnect switches.	938	No	No	National Grid, USA	2010	
179	2011_2012	MA	Jun-10	Central/Western Massachusetts Upgrades	Webster St. - add two 115 kV circuit breakers,	942	No	No	National Grid, USA	2010	
183	2011_2012	CT	Jun-10	Lake Road Upgrades	Installation of a new Special Protection Scheme that would be armed following the loss of either the 330 or 347 transmission lines. Following the loss of the second line, this SPS would trip all Lake Road Units.				NU	May-11	
186	2011_2012	ME	Dec-10		BHE Northern (Chester) area reliability improvement	144	No	No	BHE	Dec-10	
187	2011_2012	MA	Dec-08	Auburn Reliability	Bridgewater and Auburn Street - Line Terminal 115 kV upgrades.	59	Mar-02	Jan-03	National Grid, USA	2010	
188	2011_2012	MA	Jun-09	Auburn Area Transmission System Upgrades	Dupont substation - Upgrade Buswork and convert to BPS substation	919	No	No	National Grid, USA	2010	
189	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Pratts Jct. - replace T8 autotransformer with 230 kV 333 mVA, upgrade breaker and bus to 115 kV. Install high side 230 kV breaker.	926	No	No	National Grid, USA	Jun-10	
190	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Searsburg - install in-line 115 kV breaker for operational flexibility.	929	No	No	National Grid, USA	Dec-10	
191	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Reconductor Nashua St - Quinsigamond Jct (O141) 115 kV line w/636 ACSS.	930	No	No	National Grid, USA	2010	
192	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Reconductor Pratts Jct - Flagg Pond I-135S & J-136S 115 kV lines w/795 ACSS.	933	No	No	National Grid, USA	Dec-10	
193	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Reconductor #2 Tap from Tower 510 - Webster St. 115 kV circuit.	934	No	No	National Grid, USA	2010	

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	Commitment Period	State	Original Projected In-Service Quarter (RSP Date)	Major Project	Project Component	RSP Project Number	I.3.9 Approval	TCA Approval	Responsible TO	Certified In-Service Date	Project Completion Date
2											
3											
194	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Reconductor from (A-127E/B-128E) Millbury - Tower 510 115 kV line.	935	No	No	National Grid, USA	Dec-10	
195	2011_2012	MA	Jun-09	Central/Western Massachusetts Upgrades	Reconductor (P142/P142S) Rolfe Avenue - West Bolyston 115 kV line w/1590 ACSR.	936	No	No	National Grid, USA	Dec-10	
196	<b>In Service 2011/TBD</b>										
197	2011_2012	VT	Dec-10	Vermont Southern Loop Project	New VY - West Dummerston - Coolidge 345 kV line with requisite station upgrades	323	No	No	VELCO	Jan-11	