

NSTAR ELECTRIC
Boston Edison Company
Cambridge Electric Light Company
Commonwealth Electric Company

Report of Activities of Qualifying Facilities and On-Site Generating Facilities
January 1, 2002 through December 31, 2002

1. In compliance with 220 CMR 8.07, each Distribution Company, shall file with the Department of Telecommunications and Energy ("Department") a report of new Qualifying Facility and On-Site Generating Facility activity in a calendar year, by April of the subsequent year. Such filing shall include:
- a) The name and address of the owner, and the address where the Qualifying Facility or On-Site Generating Facility is located;
 - b) A brief description of the type of Qualifying Facility or On-Site Generating Facility;
 - c) The primary energy source used by the Qualifying Facility or On-Site Generating Facility;
 - d) The date of installation and on-line date;
 - e) The method of delivering power to the Distribution Company (contract or net metering);
 - f) The design capacity of the Qualifying Facility or On-Site Generating Facility;
 - g) A brief discussion identifying any Qualifying Facility or On-Site Generating Facility that was denied interconnection by the Distribution Company, including a statement of reasons for such denial.

Responses 1(a), (b), (c), (d), (e), (f):

Boston Edison Company activity during calendar year 2002:

- a) [Redacted], Somerville, MA
 - b) Photovoltaic
 - c) Solar
 - d) Installed date: August 2002, On-Line date: August, 2002
 - e) Net Metering
 - f) 3.3 kW
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- a) [Redacted], Dorchester, MA
 - b) Photovoltaic
 - c) Solar
 - d) Installed date: December 2002, On-Line date: December 2002
 - e) Net Metering
 - f) 5.4 kW
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- a) [Redacted], Westwood, MA
 - b) Photovoltaic
 - c) Solar
 - d) Installed date: November 2002, On-Line date: December 2002
 - e) Net Metering
 - f) 2.0 kW

- a) [redacted], Brookline, MA
- b) Photovoltaic
- c) Solar
- d) Installed date: August 2002, On-Line date: August 2002
- e) Net Metering
- f) 5.0 kW

- a) [redacted] Brighton, MA
- b) Photovoltaic
- c) Solar
- d) Installed date: December 2002, On-Line date: December 2002
- e) Net Metering
- f) 20 kW

- a) [redacted] Boston, MA
- b) Induction generator
- c) Natural Gas
- d) Installed date: December 2002, On-Line date: December 2002
- e) None
- f) (2) 35 kW

Cambridge Electric Light Company activity during calendar year 2002:

No new activity during 2002

Commonwealth Electric Company activity during calendar year 2002:

- a) [redacted] West Yarmouth, MA
- b) Microturbine
- c) Natural Gas
- d) Installed date: August 2002, On-Line date: August 16, 2002
- e) No Energy Sale
- f) (2) 30 kW

Response 1(g)

No Qualifying facility or On-Site Generating facility was denied interconnection by NSTAR

2. Each Distribution Company shall file with the Department a report describing the incremental reductions in the purchases of electricity during a calendar year due to customer operations of, or purchases from, On-Site Renewable Technologies; Fuel Cells; Cogeneration Equipment; On-site Generating Facilities eligible for net metering; or Cogeneration Facilities of 60 kW or less which are eligible for net metering. Such filing shall be submitted to the Department by April 1 of the subsequent year, and it shall include:

- a) A brief description of the incremental reductions in purchases of electricity during the calendar year due to customer operations of:
 - 1. On-Site Renewable Energy Technologies;
 - 2. Fuel Cells;
 - 3. Cogeneration equipment with a combined heat and power system efficiency of at least 50% base

on the higher value of the fuel used in the system;

4. On-Site Generation Facilities eligible for net metering; or
 5. Cogeneration Facilities of 60 kW or less which are eligible for net metering.
- b) A brief discussion of the effect of 220 CMR 8.07 (2)(a) on the Distribution Company's transition charge, including a quantitative estimate of the lost dollar contribution to the Distribution Company's transition charge during the calendar year;
 - c) A brief discussion of the effect of 220 CMR 8.07 (2)(a) on the Distribution Company's kilowatt hour sales during the calendar year;
 - d) An estimate of the percent of the Distribution Company's gross annual revenues that have been lost during the calendar year due to 220 CMR 8.07 (2)(a);
 - e) A brief narrative identifying all customers that have given notice to the Distribution Company of their plans to reduce electricity purchases.

Responses 2(a), (b), (c), (d):

Please refer to Attachment A for a listing of customer facilities and estimated incremental reductions in purchases for Boston Edison Company, Cambridge Electric Light Company, and Commonwealth Electric Company.

Response 2(e):

Boston Edison Company:

Boston Edison Company is aware of the following eleven (13) active customer proposals:

....., Boston, MA
Currently installing (1) 75 kW cogeneration unit to be supplied by Natural Gas, to be used as a network BETA test site.

..... Boston, MA
Currently evaluating the installation of 10 MW of cogeneration to be supplied by Natural Gas.

..... Bedford, MA
Currently on-hold pending ENRON bankruptcy resolution, with the installation of 1.5 MW of cogeneration to be supplied by Natural Gas.

..... West Roxbury, MA
Currently on-hold pending ENRON bankruptcy resolution, with the installation of 3.0 MW of cogeneration to be supplied by Natural Gas.

..... Boston, MA
Currently on-hold pending ENRON bankruptcy resolution, with the installation of 4.5 MW of cogeneration to be supplied by Natural Gas.

..... Framingham, MA
2-200W Fuel Cells to be installed as a manufacturer's test site, to be supplied by Natural gas.

..... Waltham, MA
Customer plans to install (1) 60 kW cogen unit to be supplied by natural gas.

..... Woburn, MA

Customer plans to install (1) 75 kW cogen unit to be supplied by natural gas.

Customer plans to install (1) 60 kW cogen unit to be supplied by natural gas.

Customer plans to install (1) 75 kW cogen unit to be supplied by natural gas. Installation time frame dependent on the results of the network BETA test site.

Customer plans to install (1) 75 kW cogen unit to be supplied by natural gas. Installation time frame dependent on the results of the network BETA test site.

Customer plans to install (1) 60 kW cogen unit to be supplied by natural gas. Installation time frame dependent on the results of the network BETA test site.

40 kW photovoltaic supplied by solar

35 kW Fuel Cell supplied by natural gas

80 kW synchronous generator, internal combustion, supplied by Natural Gas

30 kW photovoltaic supplied by solar

60 kW Induction generator, Internal Combustion, supplied by natural gas

60 kW Induction generator, Internal Combustion, supplied by natural gas

Cambridge Electric Light Company:

Cambridge Electric Company is aware of the following two (1) active customer proposal:

Cambridge, MA

Customer is looking into the economics of installing a 200KW fuel cell, to be supplied by natural gas.

Commonwealth Electric Company:

Commonwealth Electric Company is aware of the following four (4) active customer proposals:

Falmouth, MA

Currently in the design phase of (1) 250 kW Fuel Cell to be supplied by natural gas.

Eastham, MA

Customer plans to install a 1.4 KW photovoltaic array to be supplied by solar.

Dartmouth, MA

Customer is currently in the preliminary design phase of a 2mW co-generation unit to be supplied by natural gas.

Falmouth, MA

4 kW photovoltaic supplied by solar

NSTAR Electric

**Activities of Qualifying Facilities and On-Site Generating Facilities
Reporting Period: January 1, 2001 through December 31, 2001**

Commonwealth Electric					Run Hrs (1)	Transition (3)	T&D Rev. (4)
Cogen < 60KW	Nat Gas	10/22/87	10/30/87	Net	5.0	\$ -	\$ -
Cogen < 60KW	#2 Fuel Oil	9/1/86	12/12/86	Net	5.0	\$ 151	\$ 218
Cogen < 60KW	Propane	5/20/88	8/15/88	Net	5.0	\$ 74	\$ 108
Cogen < 60KW	#2 Fuel Oil	5/6/95	5/13/95	Net	1000	\$ 151	\$ 218
Cogen < 60KW	Nat Gas	11/1/98	1/18/98	Net	0	\$ -	\$ -
Cogen < 60KW	#2 Fuel Oil	7/30/86	8/14/86	Net	1000	\$ 5,000	\$ 218
Cogen < 60KW	#2 Fuel Oil	1/31/87	2/7/87	Net	0	\$ -	\$ -
Cogen < 60KW	Nat Gas	11/15/87	12/18/87	Net	252	\$ 38	\$ 55
Cogen < 60KW	#2 Fuel Oil	12/2/88	12/20/88	Net	0	\$ -	\$ -
Cogen < 60KW	#2 Fuel Oil	8/8/85	8/11/85	Net	1000	\$ 151	\$ 218
Cogen < 60KW	#2 Fuel Oil	3/28/86	4/1/86	Net	1000	\$ 151	\$ 218
Cogen < 60KW	#2 Fuel Oil	3/10/82	3/16/82	Net	0	\$ -	\$ -
Cogen < 60KW	#2 Fuel Oil	12/28/85	1/5/86	Net	1000	\$ 5,000	\$ 218
Cogen < 60KW	#2 Fuel Oil	11/16/84	11/22/84	Net	5.0	\$ 185	\$ 87
Cogen > 1 MW	Nat Gas	3/1/83	7/5/84	Contract	8772	\$ 276,989	\$ 399,018
Cogen 60KW-1 MW	Nat Gas	5/17/81	7/17/81	Contract	500	\$ 75,000	\$ 3,272
Fuel Cell	Natural Gas	1998	1999	Contract	8229	\$ 1,645,800	\$ 71,780
Photovoltaic	Solar	8/18/88	8/19/88	Net	1250	\$ 2,500	\$ 109
Photovoltaic	Solar	11/1/88	12/15/89	Net	1250	\$ 2,500	\$ 109
Photovoltaic	Solar	10/15/88	11/1/88	Net	1250	\$ 2,500	\$ 109
Photovoltaic	Solar	10/1/87	11/15/87	Net	1250	\$ 2,500	\$ 109
Photovoltaic	Solar	3/15/00	3/15/00	Net	1.0	\$ 1,250	\$ 55
Photovoltaic	Solar	10/16/01	10/15/01	Net	0.2	\$ 300	\$ 13
Water Turbine	Hydro	3/25/83	4/4/83	Net	1818	\$ 24,270	\$ 1,069
Water Turbine	Hydro	3/1/83	3/1/83	Net	0	\$ -	\$ -
Water Turbine	Hydro	N/A	12/1/82	Contract	1300	\$ 282,500	\$ 12,759
Wind Mill	Wind	N/A	11/1/83	Net	0	\$ -	\$ -
Cogen 60KW-1 MW	Nat Gas	2002	8/24/05	Net	4000	\$ 240,000	\$ 10,469
Total					1,793.7	11,472,395	500,426

- Notes
1. Estimated Annual Run Hours supplied by customer if available or best estimate.
 2. Lost kWh estimated by taking the Design Capacity (kW) and multiplying it by the Annual Run Hours supplied by the Customer.
 3. Impact on Transition estimated by multiplying the lost kWh by the Average Transition Rate of the appropriate operating company.
 4. Impact on Revenue estimated by multiplying the lost kWh by the Average Distribution and Transmission Rate of the appropriate operating company.

NSTAR Electric

Activities of Qualifying Facilities and On-Site Generating Facilities
Reporting Period: January 1, 2001 through December 31, 2001

Customer	Service Address	Facility Type	Energy Source	Installation Date	Online Date	Delivery Method	Design Cap. (kW)	Estimated Annual Run Hrs (1)	Estimated Lost kWh (2)	Estimated Impact On Transition (\$)	Estimated Impact On T&D Rev. (4)
Boston Edison Company		Cogen > 1 MW	Dual Fuel	1978	1978	Contract	5,000.0	2810	13,050,000	\$ 192,309	\$ 555,017
		Cogen > 1 MW	Diesel	N/A	N/A	Net	1,800.0	900	1,820,000	\$ 22,631	\$ 68,889
		Cogen > 1 MW	Dual Fuel	1972	1972	Net	10,000.0	7100	71,000,000	\$ 991,870	\$ 3,019,630
		Cogen > 1 MW	Jet Fuel	1992	1992	Net	52,000.0	500	26,000,000	\$ 363,220	\$ 1,405,780
		Cogen > 1 MW	Nat Gas	1994	1994	Net	2,400.0	9100	19,440,000	\$ 271,577	\$ 826,783
		Cogen 60kW-1 MW	Nat Gas	1984	1984	Net	600.0	8000	4,800,000	\$ 67,058	\$ 204,144
		Cogen 60kW-1 MW	#5 Fuel Oil	1987	1987	Net	225.0	7500	1,887,500	\$ 23,574	\$ 71,789
		Cogen 60kW-1 MW	Nat Gas	N/A	N/A	Net	75.0	4500	337,500	\$ 4,715	\$ 14,354
		Cogen 60kW-1 MW	Nat Gas	1986	1986	Net	105.0	5840	613,200	\$ 9,568	\$ 28,079
		Cogen 60kW-1 MW	Natural Gas	1982	1982	Net	75.0	0	-	\$ -	\$ -
		Cogen 60kW-1 MW	Natural Gas	1982	1982	Net	75.0	0	-	\$ -	\$ -
		Cogen 60kW-1 MW	Natural Gas	1985	1985	Net	75.0	0	-	\$ -	\$ -
		Cogen 60kW-1 MW	Natural Gas	1986	1986	Net	200.0	0	-	\$ -	\$ -
		Cogen 60kW-1 MW	Natural Gas	1989	1989	Contract	600.0	3428	2,056,800	\$ 28,733	\$ 87,478
		Cogen 60kW-1 MW	Natural Gas	1989	1989	Contract	60.0	4260	255,600	\$ 3,571	\$ 10,871
		Cogen 60kW-1 MW	Natural Gas	1989	1989	Contract	60.0	4000	240,000	\$ 3,353	\$ 10,207
		Cogen 60kW-1 MW	Natural Gas	2001	2001	Net	75.0	3400	255,000	\$ 3,582	\$ 10,845
		Cogen 60kW-1 MW	Natural Gas	2001	2001	Net	75.0	3400	255,000	\$ 3,582	\$ 10,845
		Cogen 60kW-1 MW	Natural Gas	2001	2001	Net	75.0	3400	255,000	\$ 3,582	\$ 10,845
		Cogen 60kW-1 MW	Natural Gas	1997	1997	Net	200.0	7000	1,400,000	\$ 18,558	\$ 59,642
		Fuel Cell	Methane Gas	1995	1995	Net	200.0	6752	1,750,400	\$ 24,459	\$ 74,445
		Hydroelectric	Run-of-river	N/A	N/A	Contract	125.0	1313	164,125	\$ 2,293	\$ 6,660
		Photovoltaic	Solar	2000	2000	Net	28.0	1250	35,000	\$ 489	\$ 1,469
		Photovoltaic	Solar	2001	2001	Net	0.5	1250	625	\$ 9	\$ 27
		Steam turbine	Steam	2000	2000	Net	75.0	3000	225,000	\$ 3,143	\$ 9,668
		Photovoltaic	Solar	2002	2002	Net	3.3	1250	4,125	\$ 58	\$ 175
		Photovoltaic	Solar	2002	2002	Net	5.4	1250	6,750	\$ 94	\$ 287
		Photovoltaic	Solar	2002	2002	Net	2.0	1250	2,500	\$ 35	\$ 106
		Photovoltaic	Solar	2002	2002	Net	5.0	1250	6,250	\$ 87	\$ 266
		Photovoltaic	Solar	2002	2002	Net	20.0	1250	25,000	\$ 349	\$ 1,053
Cogen 70kW	Nat Gas	2002	2002	None	70.0	4000	280,000	\$ 3,912	\$ 11,908		
Total							74,309.2	148,085,375	\$ 2,040,962	\$ 6,213,436	

Customer	Service Address	Facility Type	Energy Source	Installation Date	Online Date	Delivery Method	Design Cap. (kW)	Estimated Annual Run Hrs (1)	Estimated Lost kWh (2)	Estimated Impact On Transition (\$)	Estimated Impact On T&D Rev. (4)
Cambridge Electric Light		Cogen > 1 MW	Nat Gas	6/1/94	7/1/95	Contract	21,500.0	6047	130,010,500	\$ 1,876,662	\$ 3,746,903
		Photovoltaic	Solar	11/15/98	11/23/99	Net	18.0	1250	22,500	\$ 325	\$ 648
		Photovoltaic	Solar	6/1/98	6/30/98	Net	6.0	1250	7,500	\$ 108	\$ 216
Total								130,040,500	\$ 1,878,095	\$ 3,747,767	

Customer	Service Address	Facility Type	Energy Source	Installation Date	Online Date	Delivery Method	Design Cap. (kW)	Estimated Annual Run Hrs (1)	Estimated Lost kWh (2)	Estimated Impact On Transition (\$)	Estimated Impact On T&D Rev. (4)