

GSA New England

Leaders in Solar applications
... outside of the desert



For More Information

- Roman Piaskoski
- General Services Administration
- Boston, MA
- roman.piaskoski@gsa.gov

Don't forget to fill out and drop off your session evaluations!

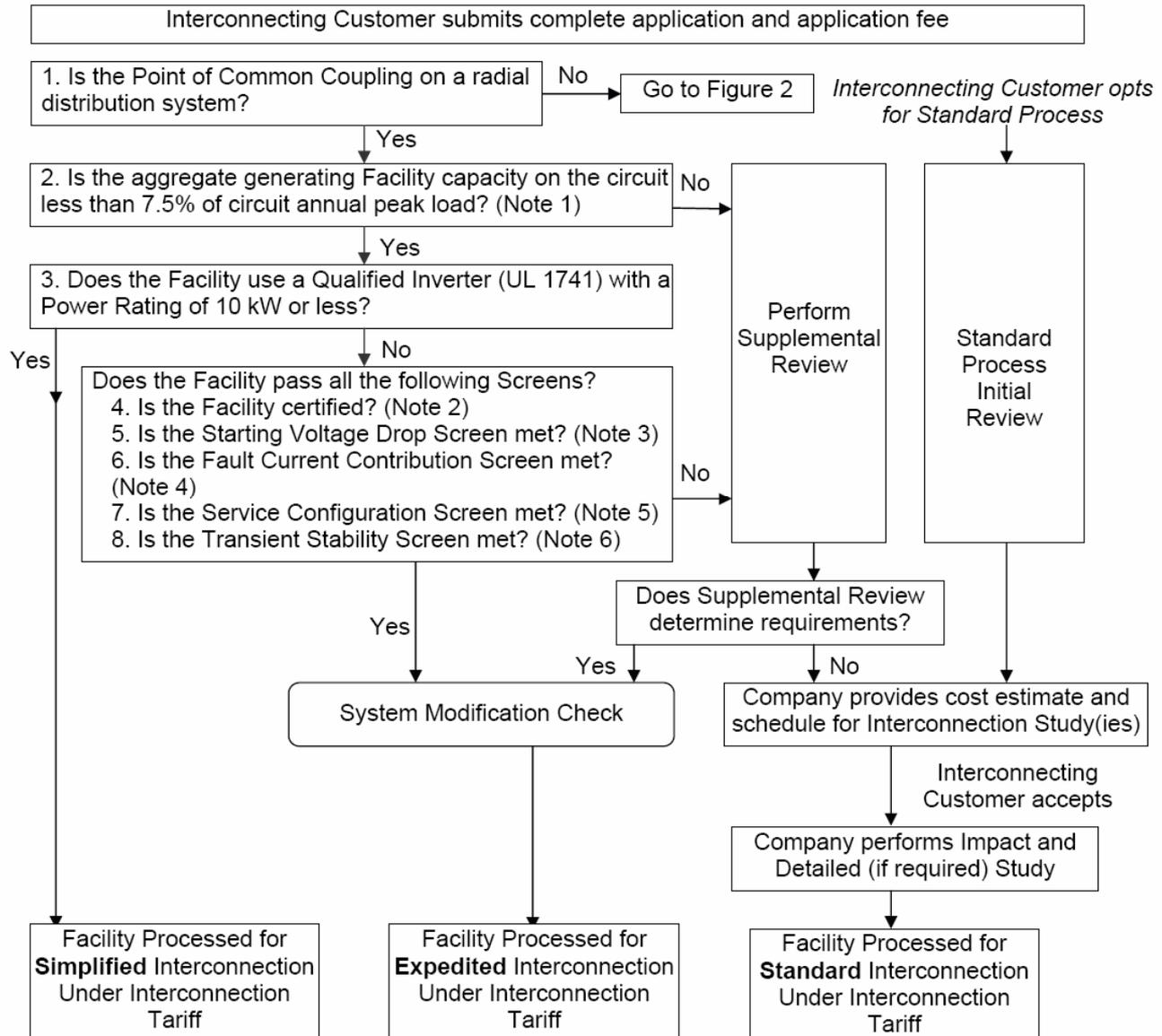
We sell excess generation back to our local utility



377 kW DC ...325 kW AC Solar Integrated roofing
system utilizing Sarnafil PVC energy star rated cool roof
membrane



Figure 1 - Schematic of Massachusetts DG Interconnection Process



Here is the Initial screening matrix for level of project approval with New England Utilities



Here's where it happens...



SYSTEM KWH METER

PV DATA ACQUISITION SYSTEM

MAIN DISCONNECT SWITCH: UTILITY



125 kW inverter on left ... 200 kW inverter on right



UTILITY PAD MOUNTED TRANSFORMER



<http://gsanara.rem-systems.com/>



The Hardest Part is the Paperwork

- Start talking with your Utility Rep's before the Project
- Keep talking with your Utility Rep's during the Project
- Continue talking with your utility Rep's after the Project

Do the Research ...

NSTAR ELECTRIC M.D.T.E. No. 162

BOSTON EDISON COMPANY

Page 1 of 45

STANDARDS FOR INTERCONNECTION OF DISTRIBUTED GENERATION

Issued by: Thomas J. May Filed: January 10, 2006

President Effective: February 1, 2006

1.0 GENERAL

1.1 Applicability

This document (“Interconnection Tariff”) describes the process and requirements for an Interconnecting Customer to connect a power-generating facility to the Company’s Electric Power System (“Company EPS”), including discussion of technical and operating requirements, metering and billing options, and other matters.

The procedure for momentary paralleling to the Company EPS with back-up generation is described within Section 4.0 Interconnection Requirements.

If the Facility will always be isolated from the Company’s EPS, (i.e., it will never operate in parallel to the Company’s EPS), then this Interconnection Tariff does not apply.

1.2 Definitions

The following words and terms shall be understood to have the following meanings when used in this Interconnection Tariff:

“Affected System” shall mean any neighboring EPS not under the control of the Company (i.e., a municipal electric light company or other regulated utility).

“Affiliate” shall mean a person or entity controlling, controlled by or under common control with a Party.

“Anti-Islanding” shall mean a description of the ability of a Facility to avoid unintentional islanding through some form of active control technique.

“Application” shall mean the notice (which will serve as the Notice of Intent to Interconnect under 220 C.M.R. §§ 8.00 et seq. when required) provided by Interconnecting Customer to the Company in the form shown in Exhibits C and D, which initiates the interconnection

POWER PURCHASE

RATE P-2

AVAILABILITY

Upon written application and execution of an electric service agreement (the "QF Power Purchase Agreement") on or after August 1, 2000, this rate is available for the purchase of electricity by the Company from a qualifying facility or on-site generating facility (the "Seller") in accordance with such applicable regulations of the Massachusetts Department of Telecommunications and Energy ("M.D.T.E.") as may be in effect from time to time. This rate is subject to the Company's Standards for Interconnection with Qualifying Facilities or On-Site Generating Facilities (the "Interconnection Standards"), the Company's Terms and Conditions - Distribution Service and the Company's printed requirements, each as may be in effect from time to time. Nothing in this rate shall be construed to affect, modify or amend terms and conditions of any existing Qualifying Facility's contract executed prior to August 1, 2000.

CHARACTER OF SERVICE

The Company will accept delivery of 60 hertz, alternating current power at a voltage and phase compatible with its system in the vicinity of the Seller's premises.

CAPACITY PURCHASE RATE

- a) A Seller who is receiving compensation for energy delivered to the Company subject to the terms and conditions of the Power Purchase Rate herein, may be eligible to receive short-run capacity payments subject to the following conditions:
- 1) A short-run standard QF Power Purchase Agreement between the Company and the Seller has been executed.
 - 2) The Seller complies with any and all applicable information requests, rules, and requirements of the New England Power Pool ("NEPOOL") and ISO New England, Inc. (the "ISO") that are necessary for the Seller's capacity output to be sold to the ISO power exchange.
 - 3) The Seller has a design capacity of 1 Megawatt ("MW") or greater when adjusted by demand losses.
 - 4) The Seller shall identify at least 5 business days prior to the beginning of a calendar month the capacity, adjusted by demand losses, (in MW, expressed to 2 decimals) to be bid into the ISO for said calendar month.

Issued by: Thomas J. May
President

Filed: January 31, 2003
Effective: March 1, 2003



Our facility
went from a
TOU account
to a Special
Ledger
account.

POWER PURCHASE

RATE P-2

CAPACITY PURCHASE RATE (continued)

- 5) The Company shall meter the output of the Seller and shall purchase a MW amount, adjusted by demand losses, equal to the lesser of (1) the minimum output in excess of the Seller's requirements for the calendar month or (2) the amount identified in 4 above for said calendar month.
- 6) The Company shall purchase the MW resulting from 5 above at rates equal to the payments received by the Company from the ISO power exchange.

ENERGY PURCHASE RATE

A Seller, who does not otherwise elect to enter into a separate contract with the Company, may be eligible to receive short-run energy payments subject to the following conditions:

- 1) A short-run standard QF Power Purchase Agreement between the Company and the Seller has been executed.
- 2) The Seller complies with any and all applicable information requests, rules, and requirements of NEPOOL and the ISO that are necessary for the Seller's energy output to be sold to the ISO power exchange.
- 3) The Seller chooses, to the extent applicable, one of the following options:

(option a):

A Seller with a design capacity of 1 MW or greater, shall have its output metered and purchased at rates, adjusted for losses, equal to the payments received by the Company from the ISO power exchange for such output for the hours in which the Seller generated electricity in excess of its requirements.

(option b):

A Seller with a design capacity greater than 60 kilowatts ("kW") but less than 1 MW shall have its output metered and purchased at rates equal to the arithmetic average of the Short-Run Rate as defined in 220 CMR 8.02 ("Short-Run Rate"), adjusted for losses, in the prior calendar month for the kilowatt-hours ("kwh") that the Seller generated in excess of its requirements.

The size of array dictates that we fall under option "B".



New MA Energy Bill (July 2008) will result in retail energy purchase rate!

CALCULATION OF PURCHASE RATES

The short-run capacity rate and the energy purchase rate will be the hourly market clearing price for energy and the monthly market clearing price for capacity, as determined by the ISO or its successors.

TERMS OF PAYMENT

Unless the Seller elects otherwise in writing, the Company will render payment for all electricity purchased under the terms of this rate schedule by check. If the Seller so elects, the Company will credit its payment against the Seller's bill for electric service furnished by the Company. Such election may not be changed more frequently than once in any twelve-month period.

EXHIBIT "A"

Contractor's ID NO. _____ (Optional)
Ordering Agency's ID _____ (Optional)

BOSTON EDISON COMPANY, d/b/a NSTAR ELECTRIC
AUTHORIZATION FOR ELECTRIC SERVICE, CHANGE IN ELECTRIC SERVICE, OR
DISCONNECTION OF ELECTRIC SERVICE UNDER
CONTRACT NO. GS-OOP-98-BSD-0087

First things
First



Ordering Agency: General Services Administration (National Archives)
Address: 380 Trapelo Road, Waltham, MA 02154

Pursuant to Contract No. GS-OOP-98-BSD-0087 between the Contractor and the United States Government and subject to all the provisions thereof, service to the United States Government under such contract shall be rendered or modified as hereinafter stated. Contract Articles 2 and 4 shall be followed for the initiation of service under this contract.

PREMISES TO BE SERVED: General Services Administration (National Archives)
SERVICE ADDRESS: 380 Trapelo Road, Waltham, MA 02154

NATURE OF SERVICE: [X] Connect, [] Change, [] Disconnect, [] Continue Service, [] DSM Work,
[] Line Extension, Alteration, Relocation, or Reinforcement, [X] Special Facilities

OTHER TERMS AND CONDITIONS: QF Power Purchase Agreement and Interconnection Service Agreement
Attach any other relevant terms and conditions under which service will be provided.

POINT OF DELIVERY: see attached documents

TERM OF SERVICE: From Nov. 15, 2006 through Nov. 14, 2016.

SERVICE HEREUNDER SHALL BE UNDER RATE SCHEDULE NO. Power Purchase RATE P-2*,
Hereafter amended or modified by the regulatory body having jurisdiction. (see article 5 of this contract.)

ESTIMATED ANNUAL ENERGY USAGE: _____ KWH, ESTIMATED DEMAND: _____ KW

ESTIMATED ANNUAL SERVICE COST: \$ _____
ESTIMATED CONNECTION/SPECIAL FACILITIES CHARGE: \$ _____ (if applicable)**

ACCOUNTING AND APPROPRIATION DATA FOR SERVICE: _____
FOR CONNECTION/SPECIAL FACILITIES CHARGE: _____

BILLS WILL BE RENDERED TO THE ORDERING AGENCY FOR PAYMENT AT THE FOLLOWING ADDRESS:
_____ in 2 copies.

The foregoing shall be effective upon the return of the fully executed original Authorization by the Contractor to the ordering Agency.

ACCEPTED:

BOSTON EDISON COMPANY
d/b/a NSTAR ELECTRIC

General Services Administration (National Archives)
(Ordering Agency)

By: _____
Authorized Signature
Title: _____
Date: _____

By: _____
Authorized Signature
Title: _____
Date: _____

* Include a reference to the applicable rate schedule, and attach a copy of such schedule.

** If necessary, attach and make part hereof supplemental agreements or sheets that cover required connection or extension charges and special facilities or service arrangements. (See Article 5 of this Contract for instructions.)

NOTE:
A fully executed copy of this Authorization shall be transmitted by the ordering Agency to the Energy Center of Expertise (PLA/WPE), General Services Administration, Washington, DC 20407.



Speaker Name

August 3-6, 2008



One NSTAR Way,
SUM SW-340
Westwood, MA 02090-9230

RECEIVED GSA/PBS
PROPERTY DEV. DIV.
BOSTON, MA

2006 SEP -5 A 11:43

August 31, 2006

General Services Administration
30 Causeway Street
Boston, MA 02220
Attn: Roman Piaskoski

RE: ID# 475, 325 kW Photovoltaic Installation

Dear Mr. Piaskoski,

Congratulations on your decision to install a photovoltaic system at the **National Archives** on 380 Trapelo Road, Waltham. Your decision to use renewable energy in your facility is admirable and goes a long way on our road to saving energy.

This letter is to inform you that NSTAR has received the standard Interconnection application for this proposed installation and that we are reviewing the application for completeness. We will contact you by September 15, 2006 to let you know what additional information is needed and if any studies need to be performed.

Attached are additional interconnection process requirements for your review

During the next few weeks you will receive the P-2 agreement and the interconnection service agreement to review, sign and return to me. These documents must be signed prior to interconnection to the NSTAR electrical system.

Please be reminded that the facility is not to be interconnected to the NSTAR system until all requested information is received including an inspection from the local wiring inspector, the interim interconnection service agreement, the suspension fee, and NSTAR has performed a successful witness test. You will be notified in writing when installation is approved to be interconnected to the NSTAR electrical system.

If you have any questions, please contact me at 781-441-8196.

Sincerely,

Joseph V. Feraci, Jr.
Interconnection Program Manager
joseph_feraci@nstaronline.com
Tel: 781-441-8196
Fax: 781-441-8721



...not the first
of many
communiqués
...note the
final
paragraph.



peaker Name

ust 3-6, 2008



One NSTAR Way, SUM SW-360, Westwood, MA 02090-9230

RECEIVED GSA/PBS
PROPERTY DEV. DIV.
BOSTON, MA

2006 SEP 22 P 12: 03

September 15, 2006

General Services Administration
30 Causeway Street
Boston, MA 02220
Attn: Mr. Roman Piaskoski

RE: ID# 475, 325 kW Cogeneration Unit

Dear Mr. Piaskoski,

NSTAR has reviewed the interconnection application package and has found it to be complete. Permission is granted to begin the construction of this facility. Please notify me when the construction is complete so that NSTAR can perform the necessary witness test.

The following notes are the protection requirements that need to be addressed before NSTAR can approve this installation:

1. The Inverter must comply with UL Standard 1741. The customer has submitted documentation of compliance. Field nameplate or sticker UL verification will be required.
2. The photovoltaic system must comply with IEEE Standard 929-2000. The customer has submitted documentation of compliance. Field verification will be required.
3. NSTAR requires a lockable disconnect switch that provides a visible break, within close proximity to the customers meter and meets National Electric Code. The location is specified so that the switch can easily be located by NSTAR employees. The Customer has submitted a one line diagram, which identifies this NSTAR generator disconnect. *** This must be verified in the field.
4. This facilities generation and interconnection installation needs to meet all applicable national, state and local construction codes.
5. *** NSTAR requires written test report from M3401A Beckwith relay system testing company verifying protective relay set points. Also specify that upon loss of power the relay will default to the open condition, thereby disconnecting the DG system from NSTAR's distribution system. Note the interrupting contactor associated with the M3401A needs to be rated for the maximum/worst case utility short circuit duty (worst case - infinite source on the high side of utility XF).



Contractor
given
official
"Notice to
Proceed"



Speaker Name

August 3-6, 2008



One NSTAR Way,
SUM SW-360
Westwood, MA 02090-9230

April 12, 2007

General Services Administration
30 Causeway Street
Boston, MA 02220
Attn: Mr. Roman Piaskoski

RE: ID# 475, 325 kW Cogeneration Unit

Dear Mr. Piaskoski,

Thank you for returning all signed copies of the P-2 Power Purchase Agreement and the Interconnection Service agreement for the property at 380 Trapelo Road, Waltham, MA. Enclosed are your copies of the signed fully executable documents for your records.

All items for completion of this project have been satisfied and permission is now granted to interconnect to the NSTAR electrical system.

NSTAR wishes you many years of use of the PV system.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Joseph V. Feraci, Jr." in a cursive script.

Joseph V. Feraci, Jr.
Interconnection Program Manager
joseph.feraci@nstar.com
Tel: 781-441-8196



The whole
process can
appear
deceptively
simple.





Customer:	US GOVT GSA
Address:	380 TRAPELO RD
Account:	25864591000

Total KW	Peak KW	Load Factor
1,132,015	339	34.14%

Pre-
Project
interval
data...
Peak
demand
is 339 kW

Date / Time	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM
February 1, 2005	105.66	115.92	106.13	113.26	105.66	104.54	120.64	135.72	161.35
February 2, 2005	109.37	112.43	107.93	114.37	108.18	109.08	123.70	141.80	151.02
February 3, 2005	106.09	114.98	108.68	115.52	107.50	108.40	127.51	134.21	149.80
February 4, 2005	106.63	108.04	110.63	106.13	106.16	110.23	123.91	131.51	155.63
February 5, 2005	84.31	92.41	81.40	89.96	81.11	86.26	79.92	75.42	77.54
February 6, 2005	85.79	92.84	87.55	88.13	88.92	89.68	88.38	84.60	82.40
February 7, 2005	106.78	113.29	106.42	113.18	105.66	109.22	120.67	128.27	140.51
February 8, 2005	97.60	106.27	98.75	106.81	98.39	97.85	112.79	125.93	129.82
February 9, 2005	96.01	103.54	96.48	104.40	95.22	99.29	108.00	126.97	137.74
February 10, 2005	94.43	101.56	94.43	101.27	94.36	96.95	109.73	126.72	140.58
February 11, 2005	96.95	107.82	101.59	109.01	100.62	102.60	117.29	130.75	142.60
February 12, 2005	88.52	86.18	89.03	93.28	88.06	88.52	87.41	85.03	85.61
February 13, 2005	88.60	86.83	92.41	89.28	84.35	91.62	87.08	86.94	79.99
February 14, 2005	105.30	111.17	105.01	111.92	104.80	106.13	122.69	129.02	141.70
February 15, 2005	94.43	101.23	92.45	101.84	91.30	92.77	102.92	122.69	133.60
February 16, 2005	100.01	111.64	101.27	108.07	99.94	103.36	113.80	125.96	134.93
February 17, 2005	100.19	114.66	101.09	109.66	102.71	106.74	117.25	128.38	149.87
February 18, 2005	114.30	115.16	114.41	119.45	114.19	113.80	131.72	133.63	147.67
February 19, 2005	87.44	95.80	88.45	96.16	89.24	95.29	86.87	86.18	85.10
February 20, 2005	99.04	96.05	99.11	95.83	99.79	96.19	95.18	98.71	87.12
February 21, 2005	111.17	114.77	108.32	114.26	110.59	114.37	108.04	112.54	106.45
February 22, 2005	106.74	113.51	106.38	113.90	106.56	109.01	120.71	135.86	149.18
February 23, 2005	110.66	114.88	104.72	110.56	107.32	109.26	115.92	133.34	153.29
February 24, 2005	105.19	114.84	107.75	112.28	107.35	108.72	120.02	140.62	146.74
February 25, 2005	108.47	117.11	111.53	116.86	110.48	111.60	122.90	135.72	148.00
February 26, 2005	92.41	94.03	99.25	94.36	94.10	99.43	93.78	92.95	90.18
February 27, 2005	94.43	95.00	99.61	94.79	94.61	100.48	94.64	89.64	85.79
February 28, 2005	110.74	120.74	113.40	123.26	113.15	112.39	126.58	138.24	146.88
March 1, 2005	103.36	116.89	105.08	113.90	107.75	110.59	113.94	122.62	139.50



Time of use
invoice ...
pre- solar
array

Peak
demand for
this billing
period is
299 kW....
kWh =
91,000

US GOVT G S A
GSA FINANCE/UTILITIES
PO BOX 1712839
FT WORTH TX 76102

NSTAR Electric

PLEASE PAY

\$7,287.76

PAYMENT RECEIVED BY
JUL 9, 2006 WILL
APPEAR ON YOUR NEXT BILL

AT NSTAR, WE'RE ALWAYS LOOKING FOR NEW WAYS TO DELIVER GREAT SERVICE TO OUR CUSTOMERS. THAT'S WHY WE'VE ESTABLISHED A TECH CENTER TO BRING CUSTOMIZED SERVICE TO OUR BUSINESS CUSTOMERS. SO, NEXT TIME YOU NEED TO REACH US, CALL OUR TECH CENTER AT 800-340-9822.

Account Number	BILLING DATE	NEXT READ DATE
2586 459 1000	JUN 14, 2006	JUL 12, 2006

Service Provided To

US GOVT G S A
380 TRAPELO RD
WALTHAM MA 02452

ACCOUNT SUMMARY

PREVIOUS BILL	5,157.87
PAYMENTS - THANK YOU	-5,889.67
PRIOR BALANCE	-731.80
CURRENT DELIVERY CHARGES	8,019.56
DELIVERY SVCS BALANCE	\$7,287.76

ELECTRICITY USED

RATE B7-NEMA LG GENERAL TOU

METER 3050124
JUN 12, 2006 ACTUAL READ 11578.2
MAY 11, 2006 PREVIOUS READ 11198.4
379.8
MULTIPLIED BY CONSTANT X 240
32 DAY BILLED USE 91,152

CURRENT ELECTRIC CHARGES

(SEE DETAIL PAGE) 8,019.56

CHARGES ARE SUBJECT TO 1.08% INTEREST AFTER 55 DAYS.

*PART OF WHAT WE COLLECT IN THE TRANSITION
CHARGE IS OWNED BY EACH OF BEC FUNDING LLC
AND BEC FUNDING II LLC

3050124	Peak	Off Peak	DMD
06/12	39,079	52,073	299.0



er Name

3-6, 2008

05/11	30,433	29,519	260.0
04/11	27,038	25,834	174.0
03/14	30,424	32,240	189.0
02/12	29,294	33,202	186.0
01/12	32,953	32,159	182.0
12/12	31,998	41,106	227.0
11/09	37,847	39,577	214.0
10/11	42,196	65,756	285.0
09/11	42,704	84,472	316.0
08/10	49,273	71,471	342.0
07/12	41,908	65,972	330.0
06/12	38,652	54,252	314.0
05/11	33,077	34,603	234.0

Power Factor
of less than
90% results in
charges
based on 325
KVA... total
delivery
charge of
\$.088 / kWh

CURRENT BILL CALCULATION

** RATE CHANGE OCCURRED DURING THIS PERIOD **

DELIVERY SERVICES

CUSTOMER CHARGE 166.67

DEMAND CHARGES:

DISTRIBUTION CHARGE 12.94 X 325.1 KVA = 4,208.42

TRANSITION CHARGE* 1.72 X 325.1 KVA = 560.80

TRANSMISSION CHARGE 5.13 X 325.1 KVA = 1,667.76

TOTAL DEMAND 325.1 KVA TOTAL DEMAND CHARGE 6,436.98

PEAK CHARGES:

DISTRIBUTION 0.000730 X 39079 KWH = 28.53

TRANSITION* 0.020802 X 39079 KWH = 812.94

RENEWABLE ENERGY 0.000500 X 39079 KWH = 19.54

ENERGY CONSERVATION 0.002500 X 39079 KWH = 97.70

OFF PEAK CHARGES:

DISTRIBUTION 0.000729 X 52073 KWH = 38.01

TRANSITION* 0.005049 X 52073 KWH = 262.96

RENEWABLE ENERGY 0.000500 X 52073 KWH = 26.05

ENERGY CONSERVATION 0.002500 X 52073 KWH = 130.18

TOTAL KWH 91152 TOTAL KWH CHARGE 1,415.91

CURRENT DELIVERY CHARGES

8,019.56



One NSTAR Way
Westwood, Mass, 02090-9230
Special Ledger Bill

Account Number 2809-463-0010
Billing Date ~~16-Jul-08~~
Reference Number 80

Please Pay
\$3,041.42
Payment Due Date: 10-Aug-08
Above amount includes Delivery Balance Only

US GOVT G S A
GSA FINANCE/UTILITIES
PO BOX 1712839
FT WORTH, TX 76102

To avoid interest charges, your payment must be received no later than 25 days from bill date.

Please return the above coupon with remittance. Thank you.

ACCOUNT NUMBER 2809-463-0010

BILLING DATE

~~16-Jul-08~~

SERVICE PROVIDED TO

US GOVT G S A
380 TRAPELO RD
WALTHAM, MA 02452

ACCOUNT SUMMARY

TOTAL COST OF ELECTRICITY	\$ 3,041.42
PRIOR BALANCE	8,314.43
SALES TAX/LATE PAYMENT	0.00
AMOUNT DUE	\$ 11,355.85

ELECTRICITY USED

Rate 50B7
Peak Demand: 6/1/2007 15:05
Peak Power Factor: 66.40%
Off Peak Power Factor: 98.99%
Demand Load Information
BILLING 202 kVA
METERED 202 kVA

COST OF ELECTRICITY

(SEE LAST PAGE) \$ 3,041.42

OTHER CHARGES AND CREDITS

SALES TAX EXEMPT Y \$ -
LATE PAYMENT CHARGES 1.15% \$ -

Service From: 12-May-07
Service To: 11-Jun-07

Usage Information

Meter #	Start	Stop	Constant	Use
7108184	1,765.9	2,004.1	200	38,112
TOTAL USE				38,112

For bill information, call:
1-800-592-2000 within MA

Purchase Information

Meter #	Start	Stop	Constant	Use
7108184	165	251.0	160	13824
TOTAL PURCH				13,824

12-month billing history

7108184	Peak	Off Peak	DMD
06/11	11,056	27,056	202.0
05/12	11,137	22,623	224.0
04/12	19,759	21,585	174.0
03/14	23,062	32,714	168.0

51,936 kWh



Special Ledger invoice...same billing period, post installation... kWh down by 40,000 ... demand down by 123 kW.



aker Name

t 3-6, 2008



Customer Name: US GOVT G S A
Rate: 50B7

Account Number: 2809-463-0010
Billing Date: 16-Jul-08

COST OF ELECTRICITY

* Indicates Prorated Charge New Rate Effective 6/01/07

DELIVERY SERVICES											
CUSTOMER CHARGE	114.62			x	1.00		x	1.00	=	114.62	
DEMAND CHARGES:											
* DISTRIBUTION	\$13.56	x	201.6 kW	x	1.00		x	1.00	=	2,733.35	
TRANSITION	\$1.66	x	201.6 kW	x	1.00		x	1.00	=	334.65	
TRANSMISSION	\$1.88	x	201.6 kW	x	1.00		x	1.00	=	379.01	
TOTAL DEMAND											
PEAK CHARGES:											
DISTRIBUTION	\$0.00078	x	11,056 Kwh				x	1.00	=	8.62	
TRANSITION*	\$0.00832	x	11,056 Kwh				x	1.00	=	91.99	
RENEWABLE ENERGY	\$0.00050	x	11,056 Kwh				x	1.00	=	5.53	
ENERGY CONSERVATION	\$0.00250	x	11,056 Kwh				x	1.00	=	27.64	
OFF PEAK CHARGES:											
DISTRIBUTION	\$0.00078	x	27,056 Kwh				x	1.00	=	21.10	
TRANSITION*	\$0.00832	x	27,056 Kwh				x	1.00	=	225.11	
RENEWABLE ENERGY	\$0.00050	x	27,056 Kwh				x	1.00	=	13.53	
ENERGY CONSERVATION	\$0.00250	x	27,056 Kwh				x	1.00	=	67.64	
TOTAL KWH			<u>38,112</u>							TOTAL KWH CHARGE	461.16
SUPPLIER SERVICES											
Alternate Supplier:	\$0.00000	x	38,112 Kwh				x	1.00	=	0.00	0.00
ENERGY PURCHASES											
P2 Rate	\$0.07099	x	13,824 Kwh				x	1.00	=	981.37	981.37
TOTAL COST OF ELECTRICITY											
LOAD ANALYSIS:											
	<u>KW</u>		<u>DATE</u>				<u>TIME</u>				
→ PEAK PERIOD	184		06/01/07				15:05				
OFF PEAK PERIOD	329		05/12/07				12:00				

* PART OF WHAT WE COLLECT IN THE TRANSITION CHARGE IS OWNED BY EACH OF BEC FUNDING LCC AND BEC FUNDING II LLC

Demand charge has been cut in half.

kWh consumption cut by 38%... Total delivery charge of \$.065 kWh



One NSTAR Way
Westwood, Mass, 02090-9230
Special Ledger Bill

US GOVT G S A
GSA FINANCE/UTILITIES
PO BOX 1712839
FT WORTH, TX 76102

Account Number 2809-463-0010
Billing Date ~~13-Jul-08~~
Reference Number 80

Please Pay \$4,946.57
Payment Due Date: 9-Aug-08
Above amount includes Delivery Balance Only

To avoid interest charges, your payment must be received no later than 25 days from bill date.

Please return the above coupon with remittance. Thank you.

ACCOUNT NUMBER 2809-463-0010

BILLING DATE ~~13-Jul-08~~

SERVICE PROVIDED TO

US GOVT G S A
380 TRAPELO RD
WALTHAM, MA 02452

ACCOUNT SUMMARY

TOTAL COST OF ELECTRICITY	\$ 4,946.57
PRIOR BALANCE	(1,528.37)
SALES TAX/LATE PAYMENT	0.00
Payment Received	
AMOUNT DUE	\$ 3,418.20

ELECTRICITY USED

Rate 50B7
Peak Demand: 6/9/2008 10:00
Peak Power Factor: 84.15%
Off Peak Power Factor: 84.92%
Demand Load Information
BILLING 296 KVA
METERED 296 KVA

COST OF ELECTRICITY

(SEE LAST PAGE) \$ 4,946.57

OTHER CHARGES AND CREDITS

SALES TAX EXEMPT Y \$ -
LATE PAYMENT CHARGES 1.15% \$ -

Service From: 13-May-08
Service To: 11-Jun-08

Usage Information

Meter #	Start	Stop	Constant	Use
7108184	5,470.1	5,736.9	200	42,688
TOTAL USE				42,688

For bill information, call:
1-800-340-9822 within MA

Purchase Information

Meter #	Start	Stop	Constant	Use
7108184	701	775.1	160	11872
TOTAL PURCH				11,872

12-month billing history

7108184	Peak	Off Peak	DMD
05/12	12,435	18,909	162.0
04/10	11,067	16,757	147.0
03/12	21,977	26,423	178.1
02/11	30,924	30,660	184.0
01/10	28,200	28,408	175.0
12/11	22,986	33,270	169.0
11/09	18,885	30,011	213.0
10/11	15,233	39,871	214.0
09/11	10,737	44,399	229.0
08/10	12,954	45,670	297.0
07/12	10,729	39,335	288.0
06/11	11,056	27,056	202.0

54,560 kWh

Same billing period ... year two, post array. Facility consumed 36,000 less kWh.

Demand is up (?)



peaker Name

ust 3-6, 2008

Customer Name: US GOVT GS A
Rate: 50B7

Account Number: 2809-463-0010
Billing Date: 15-Jul-08

COST OF ELECTRICITY

* Prorated Charge New Rates In Effect 6/1/2008

DELIVERY SERVICES									
CUSTOMER CHARGE	114.62			x	1.00	x	1.00	=	114.62
DEMAND CHARGES:									
DISTRIBUTION*	\$14.16	x	295.7 KVA	x	1.00	x	1.00	=	4,188.27
TRANSITION	\$1.66	x	295.7 KVA	x	1.00	x	1.00	=	490.86
TRANSMISSION	\$2.84	x	295.7 KVA	x	1.00	x	1.00	=	839.79
									TOTAL DEMAND
									5,518.92
PEAK CHARGES:									
DISTRIBUTION	\$0.0041	x	14,396 Kwh			x	1.00	=	5.90
TRANSITION	\$0.01030	x	14,396 Kwh			x	1.00	=	148.28
RENEWABLE ENERGY	\$0.00050	x	14,396 Kwh			x	1.00	=	7.19
ENERGY CONSERVATION	\$0.00250	x	14,396 Kwh			x	1.00	=	35.99
OFF PEAK CHARGES:									
DISTRIBUTION	\$0.0041	x	28,292 Kwh			x	1.00	=	11.60
TRANSITION	\$0.01030	x	28,292 Kwh			x	1.00	=	291.41
RENEWABLE ENERGY	\$0.00050	x	28,292 Kwh			x	1.00	=	14.14
ENERGY CONSERVATION	\$0.00250	x	28,292 Kwh			x	1.00	=	70.73
TOTAL KWH			<u>42,688</u>						TOTAL KWH CHARGE
									585.24
SUPPLIER SERVICES									
Alternate Supplier: Amerada Hess	\$0.00000	x	42,688 Kwh			x	1.00	=	0.00
ENERGY PURCHASES									
P2 Rate	\$0.10716	x	11,872 Kwh			x	1.00	=	1,272.21
TOTAL COST OF ELECTRICITY									4,946.57

LOAD ANALYSIS:	KW	DATE	TIME
PEAK PERIOD	276	06/09/08	10:00
OFF PEAK PERIOD	254	06/09/08	9:00

* PART OF WHAT WE COLLECT IN THE TRANSITION CHARGE IS OWNED BY EACH OF BEC FUNDING LCC AND BEC FUNDING II LLC

There's
that
Power
Factor
again !

Lessons learned ...from this very special project...



- Solar distributed generation works.
- Research and communicate
- A good relationship is worth it's weight in gold
- Don't forget about Power Factor