DE08-118

# STATE OF NEW HAMPSHIRE PUBLIC UTILITIES COMMISSION

### SAMPLE APPLICATION FORM

## FOR CUSTOMER-SITED RENEWABLE ENERGY SOURCE ELIGIBILITY

Pursuant to New Hampshire Admin. Code Puc 2500 Rules

Pursuant to Puc 202, the signed application shall be filed with the Executive Director and Secretary of the New Hampshire Public Utilities Commission (Commission). To ensure that your submitted application is complete, please read RSA 362-F and N.H. Code Admin. Rules Puc 2500 before filling out this application. It is the burden of the applicant to provide timely, accurate and complete information as part of the application process. Any failure by the applicant to provide information in a timely manner may result in the Commission dismissing this application without prejudice.

NOTE: When completing this application electronically, using the "tab" key after completing each answer will move the cursor to the next blank to be filled in. If a question is not applicatiable to your facility, then check the box next to N/A.

1.	FLIGIBILI	LX (	CLASS APPLIED FOR:    II    III
2.	Applicant's legal na	ame:	JOHN G. HAVEN
3.	Residential or	(1)	87 MARVIN ROAD
	Business Address: (as applicable to	(2)	
	the site of the	(3)	
	renewable energy facility)		MOULTONBOROUGH NH 03254 (City) (State) (Zip Code)
			(City) (State) (Zip Code)
4.	Telephone number:		603 253 7446
5.	Facsimile number:		
6.	Email address:	,	
7.	Installer's Name:		HTS-HAVEN ELECTRIC
8.	Business Address:	(1)	87 MARYIN ROAD
		(2)	MOULTON BORONGH, NH 03254
		(3)	

			(City)	(State)	(Zip Code)
9.	Telephone number	:	603 253 7446		
10.	Facsimile number:			***	
11.	Email address:				
12.	Equipment Vendor's Name:				
13.	Business Address:	(1)	B7 MARVIN ROAD		
		(2)			
		(3)			
			mourTON 3080UGH	HAR	23224
			(City)	(State)	(Zip Code)
14.	Telephone number:				
15.	Facsimile number:				
16. 17.	Email address: Independent Monito Name:	or's			
18.	Business Address:	(1)			
		(2)			
		(3)			
		-	(City)	(State)	(Zip Code)
19.	Telephone number:			, ,	(
20.	Facsimile number:				
21.	Email address:	_			
22.	The ISO-New Engla	nd ass	set identification number, if applicable:		or N/A:
23.	The GIS facility cod				O. 1771.

24.	solar hot water heating, solar generation, wind generation and/or other generation.  If other type of generation, provide a description. (Attach as "Exhibit A")
25.	A list and description of the equipment used at the facility, including the meter and, if applicable, the inverter (Attach as "Exhibit B")
26.	A copy of the interconnection agreement pursuant to Puc 307.06, if applicable, between the applicant and the distribution utility. (Attach as "Exhibit C" or N/A )
27.	An attestation by the applicant that the project is installed and operating in conformance with any applicable building codes. (Attach as "Exhibit D" or N/A)
28.	For an installation with electric output, documentation of the applicable distribution utility's approval of the installation. (Attach as "Exhibit E" or N/A
29.	This application and all future correspondence should be sent to:  Ms. Debra A. Howland Executive Director and Secretary State of New Hampshire Public Utilities Commission 21 S. Fruit St, Suite 10 Cencord, NH 03301-2429
30.	Preparer's Information:
	Name: JOHN G. HAVEN HTS
	Name: JOHN E. HAVEN HTS  Title: DUNCR
	Address: (1) 87 MARNIN ROAD
	(2)
	(3)
31.	MOUTONBARNGH NH, 03254 (City) (State) (Zip Code)  Preparer's Signature:

Torn Palma Will inspect on 8.22-08

### NEW HAMPSHIRE ELECTRIC CO-OP

INTERCONNECTION APPLICATION-RENEWABLE GENERATION UP TO 25 KW

PURSUANT TO NEW HAMPSHIRE ADMINISTRATIVE RULE PUC 900, APPLICANT HEREBY GIVES NOTICE OF INTENT TO INSTALL AND OPERATE A GENERATING FACILITY

Section 1. Applicant Information	
Name: JOHN HAVEN	
Mail Address: 87 MARVIN ROAS	
City: MOULTON BORON 6-1-1	State: NH.
Zip Code: <u>03'254</u>	, .
Facility Location (if different from above):	
SAME	
Daytime Phone #: 603 253 7446	1 le 1408/10
Distribution Utility: New Hampshire Electric Co-Op	1408/1C
Account #: 5352111610	A
(if applicable)	
Electricity Supplier (ES) SAME	_
Account #:SAME	<del>-</del> .
Section 2. Generating Facility Information	
Generator Type (check one): Solar, Wind, Hydro Generator Manufacturer, Model Name & Number:	
Number of Phases of Unit: Single, Three or Other: _ SINGLE PAN	SC 120/240

Generation output rating in Kilowatts: 1800 HATIC
Inverter Manufacturer, Model Name & Number:
Battery Backup? (yes or no) YES
If ≤ 10 kw, will a generator Disconnect Switch accessible to the utility be installed?
(yes or no) - YES
Proposed location of Disconnect Switch, if applicable: BELDW ELEGRICAL  METER OUTSIDE
Section 3. Installation Information & Certification
☐ Check if owner-installed
Installation Date: 6-03 7-03
Interconnection Date: 7-30-08
Installing Electrician: JOHL HAVEN NH #3234
License #: 3234 MASTERS ELEGIZICAL
Mail Address: 87 marvil ROAD
City: _ MOLLTEN BORDONGH FIET
State: NH Zip Code:
Daytime Phone #: 603 253 7446
1. The system hardware is listed to Underwriters Laboratories standards to be in compliance with UL 1741 and IEEE 929-2000:
Signed (Vendor/Supplier): Jahl Muniv
Date: _7-21-08
Name (printed): JOHN HAVEN. Company: HAVEN EVECTRIC HTS

2. The system has been installed in compliance with the local Building/Electrical Code of
MOVETBUBOROUGH NEW HAMPSHIRE DB 254 (City/County)
Signed (Inspector):
Date: 7-21-00
In lieu of signature by inspector, a copy of final inspection certificate may be attached.
3. Utility and Electricity Supplier signatures signify only receipt of this form, in
compliance with the Commission's net metering rules Puc 900.
Signed (NHEC): Jay H Hutcheson
a-3-50
Signed (Electricity Supplier Representative):  Date: 9-3-08  Date: 9-3-08
Date: 9-3-08
4. The initial start-up test required by Puc 905.04 has been successfully completed.
Completed on 8-22-08 Witnessed By
Applicant agrees to install and operate the system in accordance with Puc 900.
I hereby certify that, to the best of my knowledge, all of the information provided in this Application is true and correct.
Signature of Applicant
Date: 7-21-08

THE ELIGIBLE CUSTOMER-GENERATOR SHALL PROVIDE NEW HAMPSHIRE ELECTRIC CO-OP WITH A WRITTEN UPDATE OF THE INFORMATION ON THIS FORM AS ANY CHANGES OCCUR.

C:\My Documents\CO-GENERATION\INTERCONNECTION APPLICATION.doc

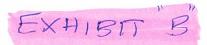


Table A-2 XW Series Inverter/Charger Mechanical Specifications

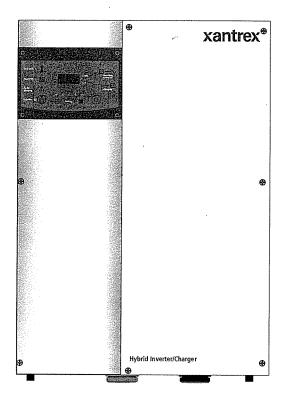
Model	XW6048-120/240-60	XW4548-120/240-60	XW4024-120/240-60			
System Network	Xanbus (publish-subscribe network, no need for hubs or special cards)					
Emissions		FCC Class B				
Regulatory approvals	UL 17-	41 1st Edition: 2005 Version	, CSA 107.1-01			
Enclosure Type	NEMA Type 1—Indoor					
Rated Temperature Range (meets all specifications)  32–104 °F (0–40 °C)						
Operational Temperature Range	-13–158 °F (-25–70 °C)					
Storage Temperature Range	-40–185 °F (-40–85 °C)					
Inverter Dimensions (H $\times$ W $\times$ D)	23 × 16 × 9" (580 × 410 × 230 mm)					
Shipping Dimensions (H $\times$ W $\times$ D)	28 × 22 ¼ × 10 ½" (711 × 565 × 267 mm)					
Inverter Weight	125 lb (57 kg)	115 lb (52 kg)	115 lb (52 kg)			
Shipping Weight	132 lb (60 kg)	122 lb (55 kg)	122 lb (55 kg)			

## **Accessories**

Accessory		Part Number
Power Distribution Panel		865-1015
Conduit Box	6	865-1025
Inverter #2 Connection Kit		865-1020
XW-MPPT60-150 Solar Charge Controller	~	865-1030
XW System Control Panel (System Control Pan	el II)	865-1050
XW Automatic Generator Start	1	865-1060
Network cables		3 ft (0.9 m): 809-0935
		5 ft (1.5 m): 809-0936
		7 ft (2.0 m): 809-0937
		10 ft (3.0 m): 809-0938
		14 ft (4.3 m): 809-0939
*		25 ft (7.6 m): 809-0940
		50 ft (15.2 m): 809-0941
		75 ft (22.9 m): 809-0942
Network terminators		Male (2 per pack): 809-0901
		Female (2 per pack): 809-0905

### **Smart choice for power**

# xantrex



XW4024-120/240-60 XW4548-120/240-60 XW6048-120/240-60

# **Operation Guide**

# XW Series Hybrid Inverter/Charger

www.xantrex.com

EXHIBITD

### HTS 87 Marvin Road, Moultonborough, New Hampshire 03254

July 1, 2008

John Haven 87 Marvin Road Moultonborough, New Hampshire 03254 603-253-7446

### Solar Photovoltaic System:

2000 Watt System

1 Xantrex 4024 Hybrid charger/inverter system, charge controller, distribution panel 10 Sanyo HIT 200watt collectors, D/C disconnects, grounding Aluminum Roof rack mount system A/C Disconnects, wiring, grounding system, lightning system, batteries

Total labor and Material.....\$17,000

System installed and inspected by NH electric Co-op (photocopies inclosed)

**®** 

Contact



# the alternative energy store

Customer

43 Broad Street, Suite A408 Hudson, MA • 01749 • USA Tol Free: 1(877) 878-4060 • Tel: 1(978) 562-5858 • Fax: 1(877) 242-6718 'Making Renewable Do-Able' • www. AltEnergyStore.com

SALES ORDER

SO-50146

Ship To

6/25/2008

87 N MOUI	n Haven Marvin Rd LTONBORO NH 03254 : (603)-253-7446	·			,	Customer John Ha 1 Chestr NASHUA N Tel: (60	ven ut St IH 030	60			
		Ŀ								•	
	Account		Terms	Due	Date	Acc	ount R	ep	Sch	nedule Date	
	29778	CRI	EDIT CARD	6/25/	2008	Chri	Chris Brown			6/24/2008	
	Quotation		PO #	Refer	ence	Sh	Ship VIA		Page	Printed	
	SQ-65335					Groun	d Ser	vice	2	6/25/2008 12:57:08PM	
L	Item	Description		Order	Ship	Price	UM	Discou	int	Amount	
1	SAN200BA3	Sanyo HIP-200BA3 2	00W Solar Panel	6		\$1,104.00	EA			\$6,624.00	
2	TWOUNI-GR, 10H	UNI-GR/10H GR/RF L	OW PROFILE W/225" SPPT	1		\$433.30	EA			\$433.30	
	GENKC-KF-30F1		#10 AWG Male/Female	6		\$30.84	EA			\$185.04	
- 1	MIDNNEVG	MNPV6 Combiner Box		6		\$91.56	EA			\$549.36	
- 1	GENBRKDIN-15	15 Amp Din Rail Mo		6	_	\$12.37	EA			\$74.22	
	DELLA-UC	LA302 DC LIGHTNING		1		\$47.60	EA			\$47.60	
1	ALR-SR-1HOLE1/2	1	in Relief 1 Round Hole	1		\$1.62				\$1.62	
9	ALR-SR-2HOLES	1/2" Strain Relief	with 2 Round Holes	6		\$3.51	EA			\$21.06	
10	XANXW4024	XW4024 Inverter/Cha	arger 865-1010	1		\$2,598.38	EA			\$2,598.38	
- 1	XANXWMPPT60-150 🦠	XW Solar Charge Co	ntroller MPPT 865-1030	1		\$524.16	EA		į	\$524.16	
12	XANBRE60	60A 160VDC Panel Mo	ount Breaker for XW	2		\$21.45	EA		İ	\$42.90	
13	XANXWSYSCHTR	XW System Control I	Panel 865-1050	1		\$236.25	EA			\$236.25	
14	KANKWPOWDISTPAN 🤚	XW Power Distribut:	ion Panel 865-1015	1		\$1,181.25	EA		į	\$1,181.25	
15	TRANSPORT TRANSPORT	XW Auto Generator S	Start 865-1060	1		\$160.16	EA			\$160.16	
17	ŝá	SHIPPING		ì		\$225.00	EA			\$225.00	
		•									
date oroc	e, contact us at: ducts in your orde	arrived in 2 weeks/ support@altenergyst r will likely arriv	ore.com. Note that e at different	Tax Detail			Taxabl	.ė		\$0.00	
time opti offe bill have dama refu the	es. We work with simize both deliver er. Upon receipt, to flading for tre received the proege, sign the bill use the shipment. shipment, sign the bible" - you have	everal warehouses i y & availability of inspect for damage. uck shipments, you' duct in good condit of lading indicati If you can't verify e bill of lading "c	n N. America to the products we When you sign the re signing that you ion. If you notice ng damaged goods or the condition of	Payment De	etails		Total Exempt Total Paid Balanc	ee		\$0.00 \$12,904.30 \$12,904.30 \$0.00 \$12,904.30 \$0.00	

5352111610 // 9

#### 7535211161000000000000



NEW HAMPSHIRE 579 Tenney Mountain Hwy Plymouth, NH 03264-3154

Phone: 1-800-698-2007 Outage: 1-800-343-6432

Fax: 1-603-536-8687 www.nhec.coop

**ENERGY USAGE INFORMATION MONTH USAGE AVERAGE DEMAND** DAYS SEP 08 AUG 08 31 n 0 0 174 33 5 0 JUL 08 JUN 08 MAY 08 APR 08 29 141 5 n 30 119 4 0 32 29 139 0 6 181 0 29 32 **MAR 08** 217 7 0 **FEB 08** 226 0 JAN 08 DEC 07 31 8 237 0 32 226 7 0 NOV 07 OCT 07 30 5 158 0 28 126 5 O 7 **SEP 07** 33 223 0

POWER SUPPLIED BY: NHEC

Page 1 of 1

1 3

JOHN G HAVEN 87 MARVIN RD MOULTONBORO NH 03254-3205

Maaadaalalalaladadadaalaalalaalalaada

Acco	Account Number		Service	e Location		<b>Billing Date</b>	Ne	kt Scheduled	Read Date	
5352111610 3		3	MARVIN RD 87			09/08/2008			10/03/2008	
ter Informa	ition	The second secon	MOUL	TONBORO				The State of State of Control	RESIDENTIA	
Rate	Meter#	Readin Prev	g Dates Pres	Meter R Prev	leadings Pres	Multiplier	Kwh Used	Demand	Comment	
ВС	65477	08/05/08	08/29/08	96229	96229	1	0	.000	OUT METER	
BC	106824	08/29/08	09/05/08	499976	499976	1	0	.000	IN METER	

CURRENT ELECTRIC CHARGES	AMOUNT	STATEMENT OF ACCOUNT	AMOUNT
MEMBER SERVICE CHARGE	20.00	PREVIOUS BALANCE AMOUNT PAID	45.35 70.00CR
TOTAL CURRENT ELECTRIC CHARGES	20.00	ADJUSTMENTS BALANCE FORWARD CURRENT ELECTRIC CHARGES	0.00 24.65CR 20.00
		TOTAL CURRENT MONTH CHARGES	20.00
		TOTAL BALANCE DUE	4.65CR

YOU CURRENTLY HAVE 53 KWHS IN YOUR "BANK" OF KWHS.

Please detach and return this portion with your payment.

### IMPORTANT INFORMATION

BUY AND SELL ONLINE WITH THE CO-OP CLASSIFIEDS! ADS ARE FREE FOR CO-OP MEMBERS, NO LIMIT TO NUMBER OF ADS, RENEW AFTER 30 DAYS. TO POST YOUR FREE AD, SIGN UP ONLINE AT WWW.NHEC.COOP.

TAKE THE CO-OP FOOD BANK CHALLENGE! FROM NOW UNTIL OCTOBER 31ST, NHEC FOUNDATION WILL MATCH DONATIONS TO SUPPORT NH FOOD BANK. SEE DONATION CARD IN AUGUST NEWSLETTER.

TO OPT IN OR OPT OUT OF THE TAX DEDUCTIBLE (501C3) OPTIONAL NHEC FOUNDATION ROUND-UP PROGRAM, YOU MAY DO SO 24 HOURS A DAY BY CALLING 1-800-698-2007, FOLLOW THE PROMPTS AND ENTER YOUR 10 DIGIT ACCOUNT NUMBER.

Payments must be posted by the due date to avoid a 1.5% late charge.

### **JOHN G HAVEN**

Account Number	5352111610	
Amount Due	\$4.65 CR	
Due Date	10/02/2008	
Amount Paid	CREDIT BILL	





579 Tenney Mountain Highway Plymouth, NH 03264-3154 Phone: (800) 698-2007

PLEASE DETACH AND RETAIN

No. 112292

DESCRIPTION

GROSS

NET

08/26/2008

HAVEN

SOLAR ELECTRIC REBATE

5,000.00

5,000.00

Totals:

5,000.00

5,000.00



PAY

TO THE

ORDER

OF

579 Tenney Mountain Highway Plymouth, NH 03264-3154 Phone: (800) 698-2007

Accounts Payable

No. 112292

CITIZENS BANK PLYMOUTH, NH

Five Thousand and no/100\*\*

JOHN HAVEN 87 MARVIN ROAD MOULTONBOROUGH NH 03254-

-0PC/ -0PC/ -0PC/

Void after 180 days

DATE CHECK NO **AMOUNT** 09/01/2008 \$\*\*\*\*\*5,000.00

If this card is lost, stolen or destroyed, notify the NEW HAMPSHIRE BUREAU OF ELECTRICAL SAFETY AND LICENSING 33 Hazen Drive CONCORD NH 03305
Tel: 603-271-3748

Please be advised that the minimum standards of installation shall conform to the National Electrical Code, 2005 edition

Please be advised that Bureau Technical Bulletins and Policies are posted at <a href="www.nh.gov/electrician">www.nh.gov/electrician</a>. It is your responsibility as a licensee to keep updated on this information by periodically checking the website.

JOHN G HAVEN 87 MARVIN ROAD MOULTONBOROUGH NH 03254-3205



STATE OF NEW HAMPSHIRE BUREAU OF ELECTRICAL SAFETY AND LICENSING CERTIFIES THAT

NAME: JOHN G HAVEN

IS LICENSED AS A MASTER ELECTRICIAN PER RSA 319-C

LIC# 3424 M EXPIRES: August 31, 2009

THIS CARD MUST BE PRESENTED TO THE INSPECTOR UPON REQUEST

Peel card from form. Turn card over and place front of card face down into clear panel. Push card through clear panel, breaking through perforation.