# national**grid**

**C&I Prescriptive Heat Pump Application Data Entry Training**  ...

Instruction of

## Entering Prescriptive Heat Pump Applications into the InDemand Electric Module Displacing Oil, Propane, or Electric Resistance Heating

#### Program

- "Design 2000"
- All prescriptive heat pumps are considered "New & Replacement Equipment"

#### Subprogram

- "Prescriptive Heat Pump Electrification" <u>IF</u> displacing fuel oil or propane heating
- "Prescriptive Heat Pump Standard EE" <u>IF</u> displacing electric resistance heating

*Customer Facility Name	Bryant & Co.		
*Company	MECO 🗸		
*State	MA		
*District	NORTH SHORE V		
*Account Manager	Meuse, Deborah		
*Program	Design 2000 🗸		
*Program Year	2022 🗸		
*Subprogram	····· <b>v</b>		
Cancel	Compressed Air Cool Choice Custom Custom Heat Pump Electrification Custom Heat Pump Standard EE HVAC Lighting Miscellaneous Prescriptive/Tiered Inc Prescriptive Heat Pump Electrification Prescriptive Heat Pump Standard EE VFD		

#### Square footage covered by application

- Value from application
- Represents the area served by heat pumps
- This value will be allocated to the individual heat pump measures based on proportional capacity.

#### **Design 2000 Project Type**

"Planned Replacement of Equipment"

Sq. Ft Covered by Application(sqft)	1250
Design 2000 Project Type	N/A ~
Federal ID Number	CHANGE IN THE USE OR FUNCTION OF THE BUILDING SPACE EXPANSION OF AN EXISTING BUILDING
Company Type	N/A NEW BUILDING
* Phone Number	NEW CONTROLS FOR IMPROVED OPERATIONS NEW EQUIPMENT FOR NEW PROCESS OR EXPANDED OPERATION PLANNED REPLACEMENT OF EQUIPMENT
Cellphone Number	RENOVATION OF AN EXISTING BUILDING
Email Address	REPLACEMENT OF FAILED EQUIPMENT

Classification will auto populate based on the subprogram and design 2000 project type selected

- "Electrification\_Prescriptive\_NRE"
  - If the heat pump is displacing fuel oil or propane heating
- "StandardEE\_Prescriptive\_NRE"
  - If the heat pump is displacing electric resistance heating

Territoria de la competition d	Electrification_Prescriptive_NRE ~
EMP Customer	Electrification_Prescriptive_NRE

Classification	StandardEE_Prescriptive_NRE ~
SEMP Customer	StandardEE_Prescriptive_NRE

#### On "Facility Detail" tab

- Add New Installation Site
- Add Heat Pump

Version Information	
ECM Plan Version:	~
VersionCreate Date:	

No Installation Sites exist. An Installation Site must be created

Add New Installation Site

HVAC Customer Report

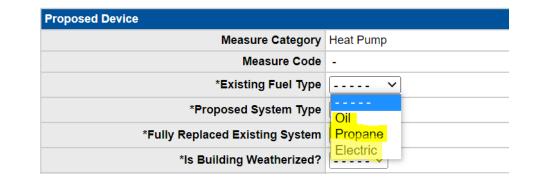
Installation S Standard Mea		<u>.</u>	<u>interio di la constan</u>		<u>e Instal</u>
Measure Category	Measure Descript		Quantity	Unit Size (tons)	Effic Meas
Heat Pump M	easures				
Measure Category	Measure Description		Quantity	Equipment Tonnage	Total
Add Chiller Add HVAC C Add Heat Pu Secondary I	mp				
Measur	e Code	Measure Description		on No of In Meas	
	lary Measure				

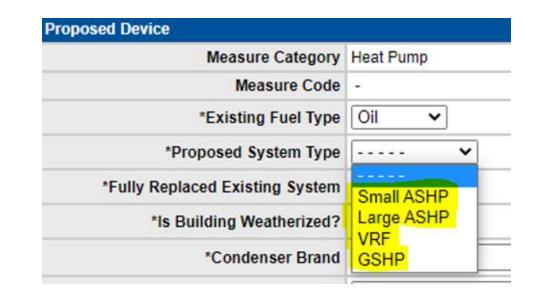
#### Select Existing Fuel Type

- Oil
- Propane
- Electric

#### **Select Heat Pump Type**

- Small ASHPs are under 65kBtu/hr
- Large ASHP are over 65kBtu/hr
- VRF are over 65kBtu/hr and must meet AHRI Standard 1230



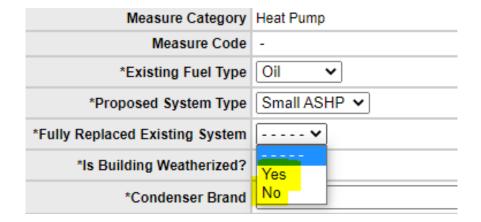


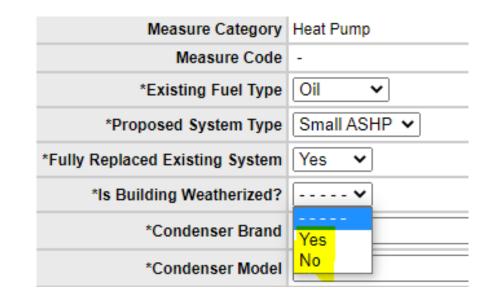
#### **Fully Replaced Existing System**

Yes/No

#### **Is Building Weatherized?**

- Two questions on application if yes to either select yes
  - Was your building constructed or had a major renovation completed on or after 2000?
  - Has your building received weatherization upgrades in the last 15 years?





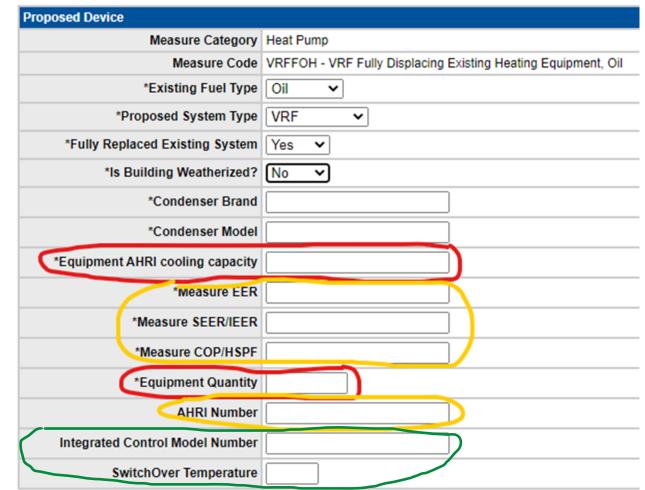
Measure Code will populate based on the four variables below

- Existing Fuel Type
- Proposed System Type
- Fully Replaced Existing System
- Is Building Weatherized

The Measure Code cannot be edited,	but the
variables can	

Proposed Device	
Measure Category	Heat Pump
Measure Code	VRFFOH - VRF Fully Displacing Existing Heating Equipment, Oil
*Existing Fuel Type	Oil 🗸
*Proposed System Type	VRF V
*Fully Replaced Existing System	Yes 🗸
*Is Building Weatherized?	No V
*Condenser Brand	
*Condenser Model	
*Equipment AHRI cooling capacity	
*Measure EER	
*Measure SEER/IEER	
*Measure COP/HSPF	
*Equipment Quantity	
AHRI Number	
Integrated Control Model Number	
SwitchOver Temperature	

- Fields used for savings and incentive calculation are highlighted in red.
- Fields used for verifying eligibility/market intelligence are highlighted in yellow.
- Fields that are only needed for partial displacement scenarios (i.e. not fully replacing existing system) are highlighted in green



#### Product characteristics and quantities can be changed but not product / measure type

Proposed Device	
Measure Category	Heat Pump
Measure Code	ASSFOHWX
Existing Fuel Type	Oil
Proposed System Type	Small ASHP
Fully Replaced Existing System	Yes
Is Building Weatherized?	Yes
*Condenser Brand	AAA
*Condenser Model	aaa
*Equipment AHRI cooling capacity	12345.0
*Measure EER	3232.0
*Measure SEER/IEER	3232.0
*Measure COP/HSPF	3232.0
*Equipment Quantity	2
AHRI Number	232323
Integrated Control Model Number	2323
SwitchOver Temperature	23

#### **Facility Detail (electric module)**

test Change Installation Site Delete Installation Site							_
ires							
Measure Description	Quantity	Unit Size (tons)	Efficiency Unit of Measure	Unit Efficiency	Estimated Full Load Hours	ECM	Detail
sures							
Measure Description	Quantity	Equipment Tonnage	Total Tonnage	Square Footage	EC	M Detail	
Small Air Source HP Fully Displacing Existing Heating Equipment, Oil_Wx	2	1.03	2.06	513.0	<u>View</u>	<u>Change</u>	Delete
Large Air Source HP Partially Displacing Existing Heating Equipment, Oil_Wx	1	0.92	0.92	229.0	<u>View</u>	<u>Change</u>	Delete
Small Air Source HP Partially Displacing Existing Heating Equipment, Oil	2	0.92	1.84	458.0	<u>View</u>	<u>Change</u>	Delete
trols			-	-		-	
	Inres       Measure Description         Measure Description       Image: Measure Description         Small Air Source HP Fully Displacing Existing Heating Equipment, Oil_WX       Image: Marge Air Source HP Partially Displacing Existing Heating Equipment, Oil_WX         Small Air Source HP Partially Displacing Existing Heating Equipment, Oil_WX       Image: Small Air Source HP Partially Displacing Existing Heating Equipment, Oil_WX	Image: Note of the section of the s	Image: Network of the series of the serie	Measure Description         Quantity         Unit Size (tons)         Efficiency Unit of Measure           suresuresuresuresuresuresuresuresuresure	Image: Properties of the source of	Image: Properties of the source of the so	Image: Superscription       Measure Description       Quantity       Init Size (tons)       Efficiency Unit of Measure       Unit Efficience       Estimated Full Load Hours       ECM Description         Image: Superscription       Quantity       View       Quantity       Fquipment fornage       Total Tonnage       Square Footage       Image: Superscription       Square footage       Image: Superscription       Image: Superscription       Square footage       Image: Superscription       Square footage       Image: Superscription       Superscription

#### **ECM Installation Plan (electric module)**

Heat Pump					
Measure Description	Unit Size (tons)	Quantity	Calculated Incentive	Authorized Incentive	
Small Air Source HP Partially Displacing Existing Heating Equipment, Oil	0.92	2	\$4,600.00	\$	
Small Air Source HP Fully Displacing Existing Heating Equipment, Oil_Wx	1.03	2	\$5,150.00	\$	
Large Air Source HP Partially Displacing Existing Heating Equipment, Oil_Wx	0.92	1	\$2,300.00	\$	

# When entering prescriptive HP applications...

- Confirm that the cooling capacity on the application form matches the cooling capacity on the AHRI certificate
  - Clarify any discrepancy with customer/contractor
- Confirm that any product represented as "VRF" is rated as such on the AHRI certificate.
  - No products <65000 kBtu/hr are rated as VRFs
  - Variable-speed, inverter-driven ASHPs ≠ VRF
- Confirm that rated efficiency levels meet minimum requirements on application form

# When entering prescriptive HP applications...

- Please be sure you're populating the contractor information when creating prescriptive heat pump applications
- This information will be used by our Commercial Trade Network Partnership Group to help identify and engage with participating heat pump contractors

Installation Contractor Information				
Installation Performed By	Customer	Street Address		
Project Expeditor Company	···· v			
Company Name		City		
Contact Person		State	▼	
Email		Zip	-	
Phone Number	ext.	Fax Number		

# **Eligibility Requirements**

- Eligibility requirements can be found on the 2022 Commercial Heat Pump application. Link https://www.masssave.com/-/media/Files/PDFs/Business/rebate-forms/2022-Commercial-Heat-Pump.pdf
  - Equipment must be qualified, listed with, and certified by the Air Conditioning, Heating and Refrigeration Institute (AHRI) and must meet the minimum requirements outlined in the application. Refer to <u>MassSave.com/CIHPQPL</u> for a list of qualified models or reach out to your National Grid Sales Representative or Tech Representative before installation if units are not listed on the QPL.
  - All non-heat pump measures must be submitted through a separate application.
  - Heat pump to heat pump conversions do not qualify for an incentive via the heat pump application.
    - If upgrading electric heating equipment results in electric savings, it can be considered a standard EE measure. Please reach out to your Sales Representative for additional information.
  - Municipal electric customers are eligible for an incentive provided the customer has an existing natural gas service through National Grid.

# **Required Documentation/InDemand Fields**

- In order to receive a rebate for a commercial heat pump, the following documents must be submitted via InDemand:
  - Completed and signed rebate form
  - AHRI certificates
  - Copy of invoice from a licensed heating installer/vendor, including:
    - Equipment model numbers (include indoor units where appropriate)
    - Integrated control model number(s) (Only required for partial displacement)
    - Installation date
    - Installation address
    - Total installation cost
    - Installation company/contractor information
  - Copy of W-9

# **Required Documentation/InDemand Fields**

- In order to receive a rebate for a commercial heat pump project and avoid processing delays, the following fields must be entered into InDemand. Most of these fields are also required on the heat pump application.
- Required InDemand fields also included in heat pump application:
  - AHRI Number
  - Measure EER, COP/HSPF, and SEER/IEER
  - Switchover Temperature (Only required for partial displacement)
  - Equipment Tonnage and Total Tonnage
  - Equipment AHRI Cooling Capacity
  - Quantity
  - Square Footage
  - Calculate Incentive Amount (Rebate)
- Required InDemand fields not included in heat pump application:
  - Measure Life (Use 18 years for all heat pumps except ground source systems. Use 25 years for ground source systems)
  - Brand and Model (Can be determined by referencing AHRI certificate)

#### National Grid Commercial Heat Pump Rebate Application

All Fields On This Page Are Required To Complete Your Application.

This application is for use only by National Grid electric customers installing a heat pump system to displace a fuel oil, propane, or electric resistance system OR by National Grid natural gas customers installing a heat pump system to displace a natural gas system.

ELECTRIC ACCOUNT NUMBER	GAS ACCOUNT NUMBER

Account Holder Information					
COMEANY NAME	INSTALLATION SITE NAME	APPLICATION DATE	APPLICATION DATE		
INSTALLATION ADDRESS	CITY	STATE ZIP	ZIP		
MAILING ADDRESS (F. DIFFERENT)	CITY	STATE ZIP			
CONTACT NAME	EMAIL ADDRESS	PHONE	HONE		
BUILDING TYPE	IF OTHER, PLEASE SPECIFY	SQUARE FEET COVERED BY NEW	SQUARE FEET COVERED BY NEW EQUIPMENT		

# Payment Method – Payee Must Submit a W-9 Form (Tax Id# Required if Receiving Rebate) RWMENT TO RWEE TAX ID# CHECK RWALE TO: RWEE COMPANY TYPE Customer Vendor/Installer

Vendor Information					
VENDORVINSTALLER	CONTACT PERSON				
PHONE	EMALADORES				
STREET ADOREBS	спу	STATE	STATE ZIP		
VENDORVINSTALLER AUTHORIZED SIGNATURE (NOT APPLICABLE IF CUSTOMER IS PRYEE,			DATE		

Customer Acceptance of Terms				
I certify that all statements and information, including attach accurate to the best of my knowledge, and that I have read	INSTALLATION DATE			
FRINT NAME		DATE		

-Square Footage

#### Project Information

Weatherization is crucial to ensuring efficient heat pump operation. Please provide the following information about your project/building:

Was your building constructed, or had a major renovation completed, on or after 2000?				🗆 Yes	1	No/Unsure		
Has your building received weatherization upgrades in the last 15 years?					Yes	1	No/Unsure	
Are you interested in receiving an energy assessment from National Grid?				🗆 Yes	0	No/Unsure		
Fully replacing pre-existing heating system?				Yes	1	No/Unsure		
Pre-existing heating fuel	type:	🗆 Oil	D Pr	opane	Natural Gas	Electric Resistance		istance
Switchover temp <sup>4</sup> (°F):			Integrated control model number(s)5					
		AHRI Ratings <sup>e</sup>						
	AHRI Reference#	EER	SEER/ IEER	HSPF/ COP	Cooling Capacity (btu/h)	Equipment Tonnage <sup>7</sup>	Qty	Rebate
ASHP	205599563	10.90	18.00	10.00	24,000	2.00	1	\$5,000
-						0.00		\$ 0.00
-						0.00		\$ 0.00
-						0.00		\$ 0.00
-						0.00		\$ 0.00
Total Project Cost:					Total:	0.00	0	\$ 0.00

\* The "Switchover Temp" is the outdoor temperature below which the supplementation -wishing heating system will be enabled (recommended to be at or below 30%). This should be automatically controlled using an integrated Control Module or with an existing building monitoring system.

\* Integrated Control Modules must be listed on Mass Save's CPL (<u>www.masssave.com/chpcps</u>). If certifying that an existing building monitoring system will control the HP and the pre-existing heating system, please input "BMS" into this field, integrated Control Modules are not required for applications that will be fully displacing the pre-existing heating system.

<sup>e</sup> Cooling tons is calculated by dividing the cooling capacity by 12,000 Blu/h <sup>†</sup> Rounding up of AHRI ratings is not acceptable

\* Cooling tons is calculated by dividing the cooling capacity by 12,000 Blu/h

# **Useful Links/Information**

- Project Expediters should not be interfacing with Energy Solutions. Questions related to heat pump projects can be directed to your National Grid Sales Representative.
- Mass Save Commercial Heat Pump Landing Page <u>https://www.masssave.com/saving/business-rebates/ci-heat-pump</u>
- Mass Save Commercial Heat Pump Application <u>https://www.masssave.com/-</u> /media/Files/PDFs/Business/rebate-forms/2022-Commercial-Heat-Pump.pdf
- QPL <u>MassSave.com/CIHPQPL</u>
- The Massachusetts Commercial Customer Electrification Program Frequently Asked Questions: For PEX Vendors document has been distributed. If you do not have this document, please email <u>Mathew.McCarthy@nationalgrid.com</u> and request a copy.