COMMERCIAL SECTOR MEASURE UPDATES AND NEW DOCUMENTS

Brown Bag Part 1 of 2 October 21, 2015



WHAT'S NEW FOR COMMERCIAL MEASURES?

REFRIGERATION

Refrigeration measures now in the IM HVAC

HVAC measures revised and simplified PIFs

New Project Information Forms **QPLs**

New Qualified Products Lists

REFRIGERATION

The deemed refrigeration retrofit measure section has been expanded to include requirements and payments which were previously available only via The Energy Smart Grocer program

ESG ends March 31, 2016 following a six month close out period beginning October 1, 2015

HVAC

Ductless Heat Pumps

- Edits to requirements, specifications were made to provide clarity
- Streamlined payment table to simplify utility implementation

Advanced Rooftop Controls

- Added additional product option: ARC-Lite
- Introduced a QPL
- Streamlined payment table to simplify utility implementation

HVAC

Web-enabled Programmable Thermostats

- Added clarifying language to distinguish between two baselines: non-programmable thermostats and programmable thermostats which are not web enabled
- Introduced a QPL to simplify utility implementation

Unitary Air Conditioning

Changed payment table from unit to tons/unit to be consistent with all of the sector measures

Heat Pumps

Added clarifying language to simplify utility implementation specific to the commercial heat pump tool

OTHER UPDATES

- Commercial electric hot water heaters: relocated from the multi-sector portion to the commercial sector section of the IM
- ❖ LED Traffic Signal measure expires on Sept. 30, 2016 but will still be eligible for reporting through the non-residential lighting program as non-standard measures
- Networked Computer Power Management now permits qualifying laptop computers

Upload	Ductless He	at Pumn			fficial Use Only:	
Your Image	For small commen		h electric	_	ustomerib	
Here	resistance heat			В	usiness Info	ormation Form
To be completed by commercial location upgrading an HVAC	utility account holder ar . All fields are required. I system.	nd installation contra This program is focu	octor. Answer used on energ	the following q gysavings for sr	uestions based mall commercial	on the small spaces that are
Contact Informat	tion					
Business Name:				Phone:		
Site Address:				Ctty/State/Zip o	000e:	
Site Information						
Business Type (Pic	ease Describe):					
Hours of Operation	c .	Square footage of	the condition	ed floor area of	the building:	Number of stories:
	a natural gas meter? Lis	t any gas uses (stov	es, fireplace,	grill, heat, ect.)	:	
Yes No Has the same tenar	nt or business type occup	iled the site for at le	ast 24 months	5? □ Vos	□ No	
If no, please explai						
Year building was	constructed: Does the	site have air conditi	oning? H	as the site been	weatherized/ins	ulated?
	☐ Centra	al Zonal 🗌	None	Yes 🔲 No	If yes, what ye	ear?
		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5
What type of he	at does the zone have?					
List any large elect	rical equipment in this zo	ine				
Building le	vel location of DHP					
Installation Inform	nation					
Contractor compar	ıy name:			Date o	f installation:	
Total installed cost	(Including equipment, lat	oor, electrical, tax, p	ermit, and oth	ner costs, prior t	o rebate):	
Material Cost:	Labor Cost:	Tou Cost			_	
	LULON COUL.	Tax Cost:	Perr	mit Cost:	Other Cost:	
Total number of Inde		_			Other Cost: units installed (B	
Total number of Inde		_			Outer Occi.	
Total number of Indi		_			Outer Occi.	
	oor units installed:	Total nominal	heating capa	acity of outdoor	Outer Occi.	
	oor units installed:	Total nominal	heating capa	acity of outdoor	Outer Occi.	
Detailed Descrip	oor units installed:	Total nominal	heating capa	acity of outdoor	Outer Occi.	
Detailed Descrip Outdoor unit manu	oor units installed:	Total nominal	heating capa	acity of outdoor	Outer Occi.	
Detailed Descrip Outdoor unit manu Refrigerant added	oor units installed: tion of System Install facturer. (over manufacturer's pre	Total nominal	n Occupied	acity of outdoor	Outer Occi.	
Detailed Descrip Outdoor unit manu Refrigerant added Associated Indoor units	oor units installed: tion of System Install facturer: (over manufacturer's pre	Total nominal	n Occupied	Area:	units installed (B	tumry:
Detailed Descrip Outdoor unit manu Refrigerant added Associated Indoor unit 1	oor units installed: tion of System Install facturer: (over manufacturer's pre	Total nominal	n Occupied Outdoor unit	Area: model number:	units installed (B	Zone room
Detailed Descrip Outdoor unit manu Refrigerant added Associated Indoor units Indoor unit 1 Unit 2 (if installed)	oor units installed: tion of System Install facturer: (over manufacturer's pre	Total nominal	n Occupied Outdoor unit	Area: model number:	units installed (B	Zone room
Detailed Descrip Outdoor unit manu Refrigerant added Associated II Indoor unit 1 Unit 2	oor units installed: tion of System Install facturer: (over manufacturer's pre	Total nominal	n Occupied Outdoor unit	Area: model number:	units installed (B	Zone room
Detailed Descrip Outdoor unit manu Refrigerant added Associated Indoor unit 1 Unit 2 (if installed) Unit 3	oor units installed: tion of System Install facturer: (over manufacturer's pre	Total nominal	n Occupied Outdoor unit	Area: model number:	units installed (B	Zone room

Note: Equipment installed MUST be either a dual zone or single zone system, or two single zone systems.

PIFS

Commercial Locations Structions: Complete this form and submit it to the serving equirements. USINESS AND SITE INFORMATION Susiness Name Address Usiness Name Address State Zip Superating hours per week Operating weeks per year Considering the above, estimate the number of operating the business mustoperate between 2,000 and 3,700 hours per year to qualify UIILDING INFORMATION Sullifying building was constructed before 2009 Schools the bour links statement is comed. Ifnot, the equipment is not eligible for her Check the base statement accord. Ifnot, the equipment and eligible for her Check the base statement accord. Ifnot, the equipment is not eligible for her Check the base statement accord. Ifnot, the equipment is not eligible for her Check the base statement accord. Ifnot, the equipment is not eligible for her Check the base statement accord. Ifnot, the equipment is not eligible for her CHECK COURS TO THE STATEMENT ON THE COURS TO THE	entives.	_ Holidays year:	observed per ye	dicate BPA
TO JECT Information Form In Commercial Locations Structions: Complete this form and submit it to the serving equirements. JSINESS AND SITE INFORMATION USINESS Name Address State Zip Operating weeks per ye Considering the above, estmate the number of operating he be business mustoperate between 2000 and 0,700 hours per year to quarify JILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 Direct the box ITMs statement is comed. Ifmd, the equipment is not eligible for her The estimate square footage of the conditioned area is less Check the box ITMs statement is comed. Ifmd, the equipment is not eligible for her EW EQUIPMENT INFORMATION IN	entives.	_ Holidays year:	observed per ye	dicate BPA ar: Uves
STRUCTIONS: Complete this form and submit it to the serving equirements. JSINESS AND SITE INFORMATION JUSTINESS AND SITE INFORMATION JUSTINESS Name Address Address Address Address Address Jap Joperating hours per week Operating weeks per ye Considering the above, estimate the number of operating he Let be business mustoperate between 2,000 and 3,700 hours per year to qualify JILDING INFORMATION JUSTINESS Number of the equirements below. The building was constructed before 2009 Check the box (19ths statement a correct, 19ths, the equipment is not eligible for hor JOHANNESS Equare footage of the conditioned area is less Jacks the box (19ths statement accored, 19ths, the equipment is not eligible for hor EW EQUIPMENT INFORMATION INFORMATION INFORMATION THE DIFFERENT INFORMATION THE DIFF model number DHP manufacturer JHP model number	entives.	_ Holidays year:	observed per ye	ar:
STRUCTIONS: Complete this form and submit it to the serving equirements. JSINESS AND SITE INFORMATION JUSTINESS AND SITE INFORMATION JUSTINESS Name Address Address Address Address Address Jap Joperating hours per week Operating weeks per ye Considering the above, estimate the number of operating he Let be business mustoperate between 2,000 and 3,700 hours per year to qualify JILDING INFORMATION JUSTINESS Number of the equirements below. The building was constructed before 2009 Check the box (19ths statement a correct, 19ths, the equipment is not eligible for hor JOHANNESS Equare footage of the conditioned area is less Jacks the box (19ths statement accored, 19ths, the equipment is not eligible for hor EW EQUIPMENT INFORMATION INFORMATION INFORMATION THE DIFFERENT INFORMATION THE DIFF model number DHP manufacturer JHP model number	entives.	_ Holidays year:	observed per ye	ar:
USINESS AND SITE INFORMATION Usiness Name Address Itate Zip Operating weeks per ye Considering the above, estmate the number of operating he be business mustoperate between 2000 and 0,700 hours per year to quarify UILDING INFORMATION alifying buildings must meet the requirements below. The building was constructed before 2009 Check the box (Phis sibtement is comed. Ifmd, the equipment is not eligible for he The extinsting heat source is electric resistance (either zonal Check the box (Phis sibtement is comed. Ifmd, the equipment is not eligible for he EW EQUIPMENT INFORMATION INFOR	entives.	_ Holidays year:	observed per ye	ar:
USINESS AND SITE INFORMATION Usiness Name Address Itate Zip Operating hours per week Operating weeks per ye Considering the above, estimate the number of operating he be business mustoperate between 2000 and 0,700 hours per year to qualify UILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 Check the box iffihs satement is cored. Iffind, the equipment is not eligible for in The existing heat source cored. Iffind, the qualifying heat is less Check the box iffihs satement is cored. Iffind, the qualifying the properties of the conditioned area is less Check the box iffihs satement is cored. Iffind, the qualifier is not eligible for ince EW EQUIPMENT INFORMATION I	entives. or forcecentives. than 20,	year:		□Yes □Yes
Justiness Name Zip Operating hours per week Operating weeks per ye considering the above, estimate the number of operating ho be business mustoperate between 2,000 and 0,700 hours per year to quarity JILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 Check the box ITM's statement is comed. Ifmd, the equipment is not eligible for ho The estimate square fooded. Ifmd, the equipment is not eligible for ho EW EQUIPMENT INFORMATION INFORMATION INFORMATION THE DIPMENT IN	entives. or forcecentives. than 20,	year:		□Yes □Yes
Operating hours per week Operating weeks per ye considering the above, estimate the number of operating he business mustoperate between 2000 and 3,700 hours per year to qualify. JILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 check the box iffs is stemmed a correct. Iffn. the equipment is not eligible for in the existing heat source is electric resistance (either zonal check the box iffs is stemmed a correct. Iffn. the equipment is not eligible for in the estimate square footage of the conditioned area is less chance. Iffn. the qualified is not eligible for income the condition of the condit of the condition of the condition of the condition of the condi	entives. or forcecentives. than 20,	year:		□Yes □Yes
Operating hours per week Operating weeks per ye considering the above, estimate the number of operating he bustness mustoperate between 2000 and 0,700 hours per year to qualify. JILDING INFORMATION	entives.	year:		□Yes □Yes
Considering the above, estimate the number of operating his between 2000 and 3,700 hours per year to quality. JILDING INFORMATION Julifying buildings must meet the requirements below. The building was constructed before 2009 Check the bow this statement is comed. If not, the equipment is not eligible for his line existing heat source is electric resistance (either zonal check the bow this statement is cored. If not, the equipment is not eligible for his existing heat source is electric resistance (either zonal check the bow this statement is cored. If not, the equipment is not eligible for his existing heat square footage of the conditioned area is less check the bow this statement accored. If not, the equipment is not eligible for his existing the square footage of the conditioned area is less check the bow this statement accored. If not, the equipment is not eligible for his existing the square footage of the conditioned area is less check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement accord. If not, the equipment is not eligible for his check the bow this statement is considered.	entives.	year:		□Yes □Yes
DILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 Check the box If his statement a cored. If not, the equipment is not eligible for no line existing heat source is electric resistance (either zonal block the box If his statement a cored. If not, the equipment is not eligible for no line existing heat source is electric resistance (either zonal hock the box If his statement a cored. If not, the equipment is not eligible for no line estimate square footage of the conditioned area is less check this has It this statement accored. If not, the equipment is not eligible for no line existing the properties of the conditional area is less the state of the conditional area is less than the state of the conditional area is l	entives. or forced entives. than 20,	f air)		□Yes
DILDING INFORMATION allifying buildings must meet the requirements below. The building was constructed before 2009 Check the box If his statement a cored. If not, the equipment is not eligible for no line existing heat source is electric resistance (either zonal block the box If his statement a cored. If not, the equipment is not eligible for no line existing heat source is electric resistance (either zonal hock the box If his statement a cored. If not, the equipment is not eligible for no line estimate square footage of the conditioned area is less check this has It this statement accored. If not, the equipment is not eligible for no line existing the properties of the conditional area is less the state of the conditional area is less than the state of the conditional area is l	entives. or forced entives. than 20,	f air)		□Yes
The buildings must meet the requirements below. The building was constructed before 2009 Theck the box If this statement is correct. If not, the equipment is not eligible for his face the box If this statement is correct. If not, the equipment is not eligible for his face the box If this statement is correct. If not, the equipment is not eligible for his face and the statement is correct. If not, the equipment is not eligible for his correct. If not, the equipment is not eligible for his mapping the property in the property is not eligible for his mapping the property in the proper	or forced entires. than 20,			□Yes
The buildings must meet the requirements below. The building was constructed before 2009 Theck the box If this statement is correct. If not, the equipment is not eligible for his face the box If this statement is correct. If not, the equipment is not eligible for his face the box If this statement is correct. If not, the equipment is not eligible for his face and the statement is correct. If not, the equipment is not eligible for his correct. If not, the equipment is not eligible for his mapping the property in the property is not eligible for his mapping the property in the proper	or forced entires. than 20,			□Yes
The building was constructed before 2009 Check the box (Phis statement is correct. (Find, the equipment is not eligible for not line existing heat source is electric resistance (either zonal hocket the box (Phis statement source) correct. (Find, the equipment is not eligible for not line estimate square footage of the conditioned area is less check the has (Phis statement accord.) (Find, the equipment is not eligible for not line equipment is not eligible for not line equipment is not eligible for not line equipment in the equipment is not eligible for not line equipment in the equipment in the equipment is not eligible for not line equipment in the equipment in the equipment in the equipment is not eligible for not line equipment in the equipment in the equipment is not eligible for not line equipment in the equipment is not equipme	or forced entires. than 20,			□Yes
Check the box iffulls statement is comed. If not, the equipment is not eligible for his the existing heat source is electric resistance (either zonal check the box if this statement is cored. If not, the equipment is not eligible for his has extended as the second of the conditioned area is less check the box lifths abstraces accored. If not, the equipment is not eligible for no provide the conditional content is not eligible for not provide the information for each installed DHP. DHP manufacturer DHP model number	or forced entires. than 20,			□Yes
The existing heat source is electric resistance (either zonal check the box inhis statement somet. If the equipment is noted pile for in the estimate square footage of the conditioned area is less closes, the hear it that a cored. If not, the equipment is not eligible for how the equipment is not eligible for how the end of the	or forced entires. than 20,			
The estimate square footage of the conditioned area is less Chasis the has it this satisfactorist cored. If not, the equipment is not eligible for ho EW EQUIPMENT INFORMATION Implete the information for each installed DHP. DHP manufacturer DHP model number	than 20,	000 sq. ft.		
Deack the Leavith Labetement (Lored, I find, the equipment is not eligible for how the composition of t				□Yes
mplete the information for each installed DHP. DH DHP manufacturer DHP model number				
DHP manufacturer DHP model number				
DHP model number	P1	DHP 2	DHP 3	DHP 4
reating capacity in tons				
STALLER INFORMATION				
ompany Name			ore rebate) includ	ding equipment
	labor, pe	rmit and tax		
y signing this form, I confirm that the above information is		the best of my	knowledge.	
nstaller Signature	Date			

09/30/2015

Ductiess Heat Pump Project Information Form

PROJECT INFORMATION FORMS

Ductless Heat Pump Project Information Form For Commercial Locations Instructions: Complete this form and submit it to the servequirements. BUSINESS AND SITE INFORMATION	LOGO ving electric utility. Boxes with bold outlines indicate BPA		Word format easy to edit and customize
	ing hours per year:		Bold outlines for requirements
DHP manufacturer DHP model number Heating capacity in tons INSTALLER INFORMATION Company Name By signing this form, I confirm that the above information Installer Signature	Total Installed Cost (before rebate) including equipment, labor, permit and tax on is correct to the best of my knowledge.		Installer attestation
Ductiess Heat Pump Project Information Form	09/30/2015	1	Document dated for

QUALIFIED PRODUCT LISTS

Shortcut: A list of qualified products that meet IM requirements

QPLs currently available for WEPT, ARC and Hot Water Heaters

Have a product to recommend? Contact Mira Vowles or John Wilson



For a full list of requirements and specifications, please refer to the current BPA Implementation Manual.

Approved Qualified Products

Manufacturer	Model
DreamWatts	Thermostat
Ecobee	Commercial EMS
Ecobee	EMS SI
Honeywell	Vision Pro 8000 with Gateways for web-enabling
Honeywell	WIFI Vision Pro 9000
Honeywell	Prestige Wireless
Kite & Lightning	UNITY System
Profile Systems	P1900
Proliphix	Internet Managed Thermostats (IMT) 550 hard-wired wi-fi model
Transformative Wave	CATALYST BMS
Venstar	EMS

Non-Approved WEPT Products

Manufacturer	Model	Reason product doesn't qualify
		Product is designed for residential applications; it doesn't meet fan-on during
Nest	Learning Thermostat	occupied-periods and fan-auto during unoccupied-periods requirements to meet
		commercial ventilation code.
		Product is designed for residential applications; product is intended to work with
EcoFactor	N/A	Internet-connected thermostats from "most manufacturers", its qualification will
ECOFACION	IVA	depend on the thermostat's capabilities and whether it meets the commercial
		ventilation code requirements.
		Product is designed for residential applications; it doesn't meet fan-on during
Emerson Sensi	Wi-Fi thermostat	occupied-periods and fan-auto during unoccupied-periods requirements to meet
		commercial ventilation code.
Honeywell	Wifi Residential	Product is designed for residential applications; it doesn't meet fan-on during
		occupied-periods and fan-auto during unoccupied-periods requirements to meet
	thermostats	commercial ventilation code.

For more information about qualified WEPT products, products that do not appear on the list, or other questions, please contact Mira Vowles at mkvowles@bpa.gov

IM DOCUMENT LIBRARY

Commercial Sector

Project Information Forms

Unitary Air-Conditioning Equipment Project Information Form

Advanced Rooftop Control Retrofit Project Information Form

Advanced Rooftop Control Lite Retrofit Project Information Form

Demand Controlled Kitchen Ventilation Project Information Form

Heat Pump Water Heater Project Information Form

Web-enabled Programmable Thermostats Project Information Form

Window Retrofit Project Information Form

Ductless Heat Pumps Project Information Form

Generator Block Heater Project Information Form

Vehicle Block Heater Project Information Form

Commercial Insulation Project Information Form

Tools

BPA Qualified Commercial Heat Pump Tool V1.61

Program Sign Up/Close out Forms

Energy Smart Grocer Program Sign-up Form FY2014-FY2015

Energy Smart Grocer Program FY2016 Close-out Form

Qualified Products Lists

Advanced Rooftop Control Retrofit QPL

Advanced Rooftop Control Lite Retrofit QPL

Commercial Water Heater QPL

Web Enabled Programmable Thermostat QPL

Other

Commercial Sector Measure Distribution Documentation Form

New Project Information Forms



http://www.bpa.gov/EE/Policy/IManual/Pages/IM-Document-Library.aspx

COMING UP

New Commercial Program Update Brown Bag November 12

- * HVAC Measures and Implementation Brown Bag December 2
 - Introducing new marketing materials and user-guides!

THANK YOU! QUESTIONS?