



# ENERGY SAVINGS FOR BUSINESS

*Investing to keep businesses competitive*

## Measures List

May 25<sup>th</sup>, 2021

Version 4.0



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## MEASURE SUMMARY

<b>Lighting Controls</b>
Daylight Controls
Occupancy Controls
Bi-Level Control
<b>Onsite Generation</b>
Combined Heat & Power
Waste Heat Recovery (Organic Rankine Cycle)
<b>Geothermal</b>
Ground Source Heat Pump
<b>HVAC</b>
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Condensing Unit Heaters
Boiler and Heater Controls
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Chillers
Roof-Top Units and Roof-Top Unit Controls
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Demand Control Kitchen Ventilation

<b>Motors and Drives</b>
VFD for Fan or Pump Motor
Premium Efficient Motor – ODP
Premium Efficient Motor – TEFC
Notched or Synchronous Belt Retrofits
<b>Compressed Air</b>
VSD Air Compressor
Zero Loss Drain
Nozzles
Compressed Air Storage
Cycling or Thermal Mass Refrigerated Dryer
Desiccant Dryer Dewpoint Demand Controls
Low Pressure Drop Filter
<b>Refrigeration</b>
Anti-Sweat Heater Controls
Automatic Door Closer
Evaporator Fan Control
Night Covers
Strip Curtain
<b>Lighting Systems</b>
Downlight Fixtures and Retrofit Kits
LED Exit Signs
Troffer Fixtures and Kits
Refrigerated Case Lighting LED
Exterior LED Fixtures
Accent or Track Lighting
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Ceiling and Wall Insulation
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<b>Agricultural Lighting</b>
Greenhouse Top Lighting
<b>Solar Air Heating</b>
Solar Pre-Heating of Intake Air

## ABOUT THE PROGRAM

Emissions Reduction Alberta's (ERA) Energy Savings for Business (ESB) Program is a funding opportunity support small- and medium-scale industrial and commercial businesses with a budget of up to \$55 million to support cost-saving and emissions reducing projects. The Program will help Alberta businesses reduce emissions, decrease operating costs, grow their operations and become more competitive, while creating skilled jobs and boosting economic recovery.

A wide range of incentives are available to help Alberta businesses reduce the initial cost of installing high efficiency equipment and emissions reduction technologies. This document represents the detailed list of emission reducing technologies, or "Measures", that qualify for participant incentives. Incentives are available for equipment upgrades and installations that include:

- **Motors & Drives** (Updated May 25, 2021)
- **Compressed Air** (Updated May 25, 2021)
- **Refrigeration**
- **Lighting Systems** (Updated May 25, 2021)
- **Lighting Controls** (Updated May 25, 2021)
- **Onsite Generation** (Updated May 25, 2021)
- **Geothermal** (Updated May 25, 2021)
- **HVAC** (Updated March 30, 2021)
- **Process Heating** (Updated March 30, 2021)
- **Water Heating** (Added February 24, 2021)
- **Building Envelope and Windows** (Updated March 30, 2021)
- **Food Service Equipment** (Updated May 25, 2021)
- **Solar Air Heating** (Updated May 25, 2021)
- **Agricultural Lighting** (Updated May 25, 2021)

Incentives for the Eligible Measures listed in this document are based either on size, quantity, capacity, or a metric of energy savings. Eligible Measures are subject to specifications provided for each Measure within this document.

To register for the program as an applicant or contractor, please visit the ESB Program webpage. After you are successfully registered, you can begin applying for incentives. The ESB Application Process page on the website has more details.

For a detailed description of eligibility rules for applying for incentives under the Program, applicants are encouraged to read the Participant Terms and Conditions.



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## INCENTIVE CALCULATIONS

The incentive is calculated based on the lesser of the Measures List fixed value per unit and the stated incentive cap based on eligible expenses. The fixed value per unit is indicated here with the red squares in the screenshot below. The second column shows the cap on Maximum % of Eligible Expenses. This percentage sets the cap on incentives based on the total eligible expenses (what is called Project Costs in the application).

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Variable Frequency Drive (VFD)</b> <ul style="list-style-type: none"> <li>Motor size on which VFD is installed is between 1 to 500 hp</li> <li>Specification sheet to be provided</li> </ul>			
		<b>Incentive value per hp</b>	
ESB-MDZVFD-0001 to 0006	<b>VFD</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$12,500</li> </ul>	\$125	50%

In this case, for the VFD, the incentive is \$125/hp.

For example, if you are installing a VFD on a 20 HP motor, the fixed incentive amount from the Measures List would be \$2,500. This calculation is based on  $\$125/\text{HP} * 20 \text{ HP} = \$2,500$

During the application, the project costs are requested, with three different components:

1. Equipment and Materials
2. Labour
3. Design and Other.

For details on the eligible expenses that align with these costs, please refer to the Participant Terms and Conditions.

	Fixed incentive amount	Total Costs	Cap on Incentive	Cap Impact on Incentive	Capped Incentive
Scenario A	$\$125/\text{HP} * 20 \text{ HP} = \$2,500$	\$6,000	\$3,000 (50% of \$6,000)	<b>No</b> (\$3,000 > \$2,500)	\$2,500
Scenario B	$\$125/\text{HP} * 20 \text{ HP} = \$2,500$	\$4,500	\$2,250 (50% of \$4,500)	<b>Yes</b> (\$2,250 < \$2,500)	\$2,250

  
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## MOTORS AND DRIVES (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Variable Frequency Drive (VFD)</b> <ul style="list-style-type: none"> <li>Motor size on which VFD is installed is between 1 to 500 hp.</li> <li>Specification sheet to be provided.</li> <li>Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per hp</b></p>			
ESB-MDZVFD-0001 to 0006	<b>VFD</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$12,500</li> </ul>	\$125	50%
<b>Premium Efficient Motor – Open Drip Proof (ODP)/Totally Enclosed Fan Cooled (TEFC)</b> <ul style="list-style-type: none"> <li>Meet minimum NEMA premium efficiency guidelines.</li> <li>Specification sheet to be provided.</li> <li>Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per motor</b></p>			
ESB-MDZODP-0001 / ESB-MDZTEF-0001	<b>Premium efficient motor - ODP/TEFC — 1 hp</b>	\$15	50%
ESB-MDZODP-0002/ ESB-MDZTEF-0002	<b>Premium efficient motor - ODP/TEFC — 1.5 hp</b>	\$20	50%
ESB-MDZODP-0003/ ESB-MDZTEF-0003	<b>Premium efficient motor - ODP/TEFC — 2 hp</b>	\$30	50%
ESB-MDZODP-0004/ ESB-MDZTEF-0004	<b>Premium efficient motor - ODP/TEFC — 3 hp</b>	\$43	50%
ESB-MDZODP-0005/ ESB-MDZTEF-0005	<b>Premium efficient motor - ODP/TEFC — 5 hp</b>	\$44	50%
ESB-MDZODP-0006/ ESB-MDZTEF-0006	<b>Premium efficient motor - ODP/TEFC — 7.5 hp</b>	\$70	50%
ESB-MDZODP-0007/ ESB-MDZTEF-0007	<b>Premium efficient motor - ODP/TEFC — 10 hp</b>	\$80	50%
ESB-MDZODP-0008/ ESB-MDZTEF-0008	<b>Premium efficient motor - ODP/TEFC — 15 hp</b>	\$105	50%

  
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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-MDZODP-0009/ ESB-MDZTEF-009	<b>Premium efficient motor - ODP/TEFC — 20 hp</b>	\$129	50%
ESB-MDZODP-0010/ ESB-MDZTEF-0010	<b>Premium efficient motor - ODP/TEFC — 25 hp</b>	\$157	50%
ESB-MDZODP-0011/ ESB-MDZTEF-0011	<b>Premium efficient motor - ODP/TEFC — 30 hp</b>	\$176	50%
ESB-MDZODP-0012/ ESB-MDZTEF-0012	<b>Premium efficient motor - ODP/TEFC — 40 hp</b>	\$227	50%
ESB-MDZODP-0013/ ESB-MDZTEF-0013	<b>Premium efficient motor - ODP/TEFC — 50 hp</b>	\$256	50%
ESB-MDZODP-0014/ ESB-MDZTEF-0014	<b>Premium efficient motor - ODP/TEFC — 60 hp</b>	\$343	50%
ESB-MDZODP-0015/ ESB-MDZTEF-0015	<b>Premium efficient motor - ODP/TEFC — 75 hp</b>	\$405	50%
ESB-MDZODP-0016/ ESB-MDZTEF-0016	<b>Premium efficient motor - ODP/TEFC — 100 hp</b>	\$476	50%
ESB-MDZODP-0017/ ESB-MDZTEF-0017	<b>Premium efficient motor - ODP/TEFC — 100 hp</b>	\$615	50%
ESB-MDZODP-0018/ ESB-MDZTEF-0018	<b>Premium efficient motor - ODP/TEFC — 150 hp</b>	\$642	50%
ESB-MDZODP-0019/ ESB-MDZTEF-0019	<b>Premium efficient motor - ODP/TEFC — 200 hp</b>	\$794	50%
ESB-MDZODP-0020/ ESB-MDZTEF-0020	<b>Premium efficient motor - ODP/TEFC — 250 hp</b>	\$1,068	50%
ESB-MDZODP-0021/ ESB-MDZTEF-0021	<b>Premium efficient motor - ODP/TEFC — 300 hp</b>	\$1,271	50%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-MDZODP-0022/ ESB-MDZTEF-0022	<b>Premium efficient motor - ODP/TEFC — 350 hp</b>	\$1,475	50%
ESB-MDZODP-0023/ ESB-MDZTEF-0023	<b>Premium efficient motor - ODP/TEFC — 400 hp</b>	\$1,679	50%
ESB-MDZODP-0024/ ESB-MDZTEF-0024	<b>Premium efficient motor - ODP/TEFC — 450 hp</b>	\$1,883	50%
ESB-MDZODP-0025/ ESB-MDZTEF-0025	<b>Premium efficient motor - ODP/TEFC — 500 hp</b>	\$2,087	50%
<p><b>Notched Belt Retrofits</b></p> <ul style="list-style-type: none"> <li>• Must replace a smooth V-belt.</li> <li>• Not eligible for replacement of a notched belt.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per belt</b></p>			
ESB-MDZNSB-0001	<p><b>Notched belt retrofits</b></p> <ul style="list-style-type: none"> <li>• Length of belt less than 6 feet</li> </ul>	\$20	50%
ESB-MDZNSB-0002	<p><b>Notched belt retrofits</b></p> <ul style="list-style-type: none"> <li>• Length of belt 6 feet or more</li> </ul>	\$40	50%



## COMPRESSED AIR (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>VFD-Integrated Compressor</b> <ul style="list-style-type: none"> <li>To replace a fixed speed compressor of the same hp (unless it is a new construction building).</li> <li>Compressor should not be a back-up.</li> <li>Specification sheet to be provided.</li> <li>Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per compressor</b></p>			
ESB-CAZVSD-0001	<b>VFD-Integrated Compressor - 10 hp</b>	\$1,500	50%
ESB-CAZVSD-0002	<b>VFD-Integrated Compressor - 15 hp</b>	\$2,250	50%
ESB-CAZVSD-0003	<b>VFD-Integrated Compressor - 20 hp</b>	\$3,000	50%
ESB-CAZVSD-0004	<b>VFD-Integrated Compressor - 25 hp</b>	\$3,750	50%
ESB-CAZVSD-0005	<b>VFD-Integrated Compressor - 30 hp</b>	\$4,500	50%
ESB-CAZVSD-0006	<b>VFD-Integrated Compressor - 40 hp</b>	\$6,000	50%
ESB-CAZVSD-0007	<b>VFD Integrated Compressor - 50 hp</b>	\$7,500	50%
ESB-CAZVSD-0008	<b>VFD Integrated Compressor - 60 hp</b>	\$9,000	50%
ESB-CAZVSD-0009	<b>VFD Integrated Compressor - 75 hp</b>	\$11,250	50%
ESB-CAZVSD-0010	<b>VFD Integrated Compressor - 100 hp</b>	\$15,000	50%
ESB-CAZVSD-0011	<b>VFD Integrated Compressor - 125 hp</b>	\$18,750	50%
ESB-CAZVSD-0012	<b>VFD Integrated Compressor - 150 hp</b>	\$22,500	50%
ESB-CAZVSD-0013	<b>VFD Integrated Compressor - 200 hp and more</b>	\$30,000	50%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Zero Loss Drain/No Loss Condensate Drains</b> <ul style="list-style-type: none"> <li>• Must replace a moisture drain under the control of a timer on air receiver tank or on the distribution system (unless it is a new construction building).</li> <li>• Not eligible for replacing existing no loss drains.</li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per drain</b></p>			
ESB-CAZZLD-0001	<b>Zero Loss Drain</b>	\$200	50%
<b>Nozzles</b> <ul style="list-style-type: none"> <li>• Must be installed on an open pipe or replace non-commercial nozzle.</li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per nozzle</b></p>			
ESB-CAZNZZ-0001 to 0004	<b>Engineered Nozzle</b> <ul style="list-style-type: none"> <li>• 1/16", 1/8", 1/4", 3/8"</li> </ul>	\$25	50%
<b>Compressed Air Storage</b> <ul style="list-style-type: none"> <li>• Must result in upgrade of storage capacity.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per tank</b></p>			
ESB-CAZCAS-0001	<b>Compressed Air Storage – 0 to 269 USG</b>	\$440	50%
ESB-CAZCAS-0002	<b>Compressed Air Storage – 270 to 449 USG</b>	\$880	50%
ESB-CAZCAS-0003	<b>Compressed Air Storage – 450 to 629 USG</b>	\$1,460	50%
ESB-CAZCAS-0004	<b>Compressed Air Storage – 630 to 809 USG</b>	\$2,050	50%
ESB-CAZCAS-0005	<b>Compressed Air Storage – 810 to 989 USG</b>	\$2,630	50%
ESB-CAZCAS-0006	<b>Compressed Air Storage – 990 to 2249 USG</b>	\$3,220	50%
ESB-CAZCAS-0007	<b>Compressed Air Storage – 2250 to 3149 USG</b>	\$7,310	50%
ESB-CAZCAS-0008	<b>Compressed Air Storage – 3150 USG or more</b>	\$10,240	50%

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Cycling or Thermal Mass Refrigerated Dryer</b> <ul style="list-style-type: none"> <li>• Installation of a new high efficiency cycling or thermal mass refrigerated dryer to replace a non-cycling refrigerated dryer (unless it is a new construction building).</li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per dryer</b></p>			
ESB-CAZCRD-0001	<b>Dryer - 0 to 200 SCFM</b>	\$650	50%
ESB-CAZCRD-0002	<b>Dryer - 201 to 400 SCFM</b>	\$1,300	50%
ESB-CAZCRD-0003	<b>Dryer - 401 to 750 SCFM</b>	\$2,600	50%
<b>Desiccant Dryer Dewpoint Demand Controls</b> <ul style="list-style-type: none"> <li>• Installation of dewpoint controls to optimize the regeneration of the desiccant towers by monitoring the removal load and adjusting the regeneration cycles to match the removal load.</li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per dryer</b></p>			
ESB-CAZDDZ-0001	<b>Dryer - 0 to 200 SCFM</b>	\$500	50%
ESB-CAZDDZ-0002	<b>Dryer - 201 to 400 SCFM</b>	\$1,200	50%
ESB-CAZDDZ-0003	<b>Dryer - 401 to 750 SCFM</b>	\$2,750	50%
<b>Low Pressure Drop Filter</b> <ul style="list-style-type: none"> <li>• Select filter for appropriate compressor hp.</li> <li>• To replace a standard coalescing filter (unless it is a new construction building).</li> <li>• Pressure drop cannot exceed 1 psid.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per filter</b></p>			
ESB-CAZLPD-0001	<b>Filter</b> <ul style="list-style-type: none"> <li>• For compressor sized 0 to 30 hp</li> </ul>	\$120	50%
ESB-CAZLPD-0002	<b>Filter</b> <ul style="list-style-type: none"> <li>• For compressor sized 31 to 50 hp</li> </ul>	\$240	50%
ESB-CAZLPD-0003	<b>Filter</b>	\$400	50%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
	<ul style="list-style-type: none"> <li>For compressor sized 51 to 70 hp</li> </ul>		
ESB-CAZLPD-0004	<b>Filter</b> <ul style="list-style-type: none"> <li>For compressor sized 71 to 90 hp</li> </ul>	\$560	50%
ESB-CAZLPD-0005	<b>Filter</b> <ul style="list-style-type: none"> <li>For compressor sized 91 to 110 hp</li> </ul>	\$720	50%



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## REFRIGERATION

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Anti-Sweat Heater Controls</b> <ul style="list-style-type: none"> <li>Controls must sense the relative humidity and reduce heater operation time and cooling load.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per control system</b></p>			
ESB-REFASH-0001	<b>Anti-sweat heater controls for cooler and freezer doors</b>	\$400	50%
<b>Automatic Door Closer</b> <ul style="list-style-type: none"> <li>To be installed on an existing walk-in cooler, refrigerator, or freezer.</li> <li>Hydraulic or spring loaded closer.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per door</b></p>			
ESB-REFADC-0001 to 0002	<b>Automatic door closer</b> <ul style="list-style-type: none"> <li>Walk-in coolers, refrigerators, and freezers</li> </ul>	\$75	50%
<b>Evaporator Fan Control</b> <ul style="list-style-type: none"> <li>During the compressor off cycle, the control must reduce airflow of an evaporator fan in walk-in cooler, refrigerator, or freezer.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per evaporator</b></p>			
ESB-REFEFC-0001	<b>Evaporator fan control for motors</b> <ul style="list-style-type: none"> <li>Walk-in coolers, refrigerators, and freezers</li> </ul>	\$115	50%
<b>Night Covers</b> <ul style="list-style-type: none"> <li>No existing night cover already in use.</li> <li>Must be in use for 25% of the day.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per cover</b></p>			
ESB-REFNCZ-0001	<b>Refrigerated case night covers</b> <ul style="list-style-type: none"> <li>Vertical case</li> </ul>	\$20	50%
ESB-REFNCZ-0002	<b>Refrigerated case night covers</b> <ul style="list-style-type: none"> <li>Horizontal case</li> </ul>	\$20	50%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Strip Curtain</b></p> <ul style="list-style-type: none"> <li>• Applicable for walk-in coolers, walk-in freezers and refrigerated warehouses which had no/ ineffective strip curtain installed.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per square foot of the doorway area</b></p>			
ESB-REFSCZ-0001 to-0002	<b>Strip curtain for walk-in refrigerator/ freezer</b>	\$5	50%



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## LIGHTING SYSTEMS (Updated May 25, 2021)

Please note that LED lamps of any kind are not eligible.

Please note that replacing the lamp and ballast separately are not considered Retrofit Kits.

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Downlight Fixtures and Retrofit Kits</b> <ul style="list-style-type: none"> <li>ENERGY STAR® Certified - classified as 'Downlight Recessed', 'Down Light Solid Retrofit', 'Ceiling Mount' or 'Wall Mount'.</li> <li>Specification sheet to be provided along with ENERGY STAR® Unique ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZDFR-0001	<b>Downlight fixtures and retrofit kits</b> <ul style="list-style-type: none"> <li>400 to 599 lumens</li> </ul>	\$5	25%
ESB-LZZDFR-0002	<b>Downlight fixtures and retrofit kits</b> <ul style="list-style-type: none"> <li>600 to 799 lumens</li> </ul>	\$10	25%
ESB-LZZDFR-0003	<b>Downlight fixtures and retrofit kits</b> <ul style="list-style-type: none"> <li>800 lumens or more</li> </ul>	\$12	25%
<b>LED Exit Signs</b> <ul style="list-style-type: none"> <li>Not Eligible for retrofit kits or screw-in lamps.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per exit sign</b></p>			
ESB-LZZLES-0001	<b>LED exit signs</b> <ul style="list-style-type: none"> <li>5W or less</li> <li>LED replacement fixtures and photoluminescent signs</li> <li>Listed in accordance with the CSA C22.2 No. 141-15 (R2020)</li> </ul>	\$12	25%
<b>Troffer and Panel Fixtures and Retrofit Kits</b> <ul style="list-style-type: none"> <li>DLC certified - categorized as 'Indoor Luminaire -Troffer' or 'Indoor Luminaire'.</li> <li>Specification sheet to be provided along with DLC Product ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZTFK-0001 to 0002	<b>LED 2x2 recessed light fixture</b> <ul style="list-style-type: none"> <li>2,000 or more lumen output</li> </ul>	\$20	25%
ESB-LZZTFK-0003 to 0005	<b>LED 2x4 recessed light fixture</b> <ul style="list-style-type: none"> <li>3,000 or more lumen output</li> </ul>	\$30	25%

  
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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-LZZTFK-0006 to 0008	<b>LED 1x4 recessed light fixture</b> <ul style="list-style-type: none"> <li>1,500 or more lumen output</li> </ul>	\$20	25%
<b>Refrigerated Case Lighting</b> <ul style="list-style-type: none"> <li>Retrofit kits are not eligible.</li> <li>Specification sheet to be provided along with DLC Product ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZRCL-0001	<b>Refrigerated case lighting LED</b> <ul style="list-style-type: none"> <li>2 to 4 ft horizontal</li> <li>DLC Certified as horizontal refrigerated case lighting</li> </ul>	\$20	25%
ESB-LZZRCL-0002	<b>Refrigerated case lighting LED</b> <ul style="list-style-type: none"> <li>4 to 6 ft vertical</li> <li>DLC Certified as vertical refrigerated and freezer case lighting</li> </ul>	\$25	25%
<b>Exterior LED Fixtures and Retrofit Kits</b> <ul style="list-style-type: none"> <li>DLC certified - categorized as 'Outdoor Luminaire and Outdoor Retrofit kits' – low, medium, high or very high output.</li> <li>Specification sheet to be provided along with DLC Product ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZELF-0001	<b>LED fixture wall pack or canopy</b> <ul style="list-style-type: none"> <li>Less than 5,000 lumens</li> </ul>	\$35	25%
ESB-LZZELF-0002	<b>LED fixture wall pack or canopy</b> <ul style="list-style-type: none"> <li>5,000 to 9,999 lumens</li> </ul>	\$60	25%
ESB-LZZELF-0003 to 0005	<b>LED fixture wall pack or canopy</b> <ul style="list-style-type: none"> <li>10,000 lumens or more</li> </ul>	\$80	25%
ESB-LZZELF-0006	<b>LED fixture flood, pole mounted or other</b> <ul style="list-style-type: none"> <li>less than 5,000 lumens</li> </ul>	\$50	25%
ESB-LZZELF-0007	<b>LED fixture flood, pole mounted or other</b> <ul style="list-style-type: none"> <li>5,000 to 9,999 lumens</li> </ul>	\$75	25%
ESB-LZZELF-0008	<b>LED fixture flood, pole mounted or other</b> <ul style="list-style-type: none"> <li>10,000 to 14,999 or more</li> </ul>	\$100	25%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-LZZELF-0009	<b>LED fixture flood, pole mounted or other</b> <ul style="list-style-type: none"> <li>15,000 to 29,999 lumens</li> </ul>	\$125	25%
ESB-LZZELF-0010	<b>LED fixture flood, pole mounted or other</b> <ul style="list-style-type: none"> <li>30,000 lumens and more</li> </ul>	\$150	25%
<b>Accent or Track Lighting</b> <ul style="list-style-type: none"> <li>ENERGY STAR® Certified - classified as 'Accent or Track Lighting Fixtures'.</li> <li>Specification sheet to be provided along with ENERGY STAR® Unique ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZATL-0001 to 0003	<b>LED Accent or Track Lighting</b> <ul style="list-style-type: none"> <li>All wattages</li> </ul>	\$20	25%
<b>Linear LED Fixture Replacement or Retrofit Kit</b> <ul style="list-style-type: none"> <li>DLC certified - categorized as 'Surface and Suspended Linear Fixtures' or 'Indoor Luminaire'.</li> <li>Specification sheet to be provided along with DLC Product ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZLLF-0001 to 0002	<b>Linear surface or suspended fixture</b> <ul style="list-style-type: none"> <li>Less than 3,000 lumens</li> </ul>	\$20	25%
ESB-LZZLLF-0002	<b>Linear surface or suspended fixture</b> <ul style="list-style-type: none"> <li>3,000 to 4,499 lumens</li> </ul>	\$30	25%
ESB-LZZLLF-0003 to 0004	<b>Linear surface or suspended fixture</b> <ul style="list-style-type: none"> <li>4,500 to 7,499 lumens</li> </ul>	\$40	25%
ESB-LZZLLF-0005	<b>Linear surface or suspended fixture</b> <ul style="list-style-type: none"> <li>7,500 lumens and more</li> </ul>	\$45	25%
<b>Bay LED Fixture or Retrofit Kit</b> <ul style="list-style-type: none"> <li>DLC certified - categorized as 'Low-bay', 'Medium-bay' and 'High-bay Fixtures and Retrofit Kits' or 'Indoor Luminaire'.</li> <li>Specification sheet to be provided along with DLC Product ID.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-LZZBLF-0001	<b>LED bay fixture replacement</b> <ul style="list-style-type: none"> <li>less than 10,000 lumens</li> <li>Less than 100 Watts</li> </ul>	\$30	25%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-LZZBLF-0002	<b>LED bay fixture replacement</b> <ul style="list-style-type: none"> <li>• 10,000 to 14,999 lumens</li> <li>• Less than 139 Watts</li> </ul>	\$50	25%
ESB-LZZBLF-0003	<b>LED bay fixture replacement</b> <ul style="list-style-type: none"> <li>• 15,000 to 19,999 lumens</li> <li>• Less than 175 Watts</li> </ul>	\$60	25%
ESB-LZZBLF-0004	<b>LED bay fixture replacement</b> <ul style="list-style-type: none"> <li>• 20,000 to 29,999 lumens</li> <li>• Less than 250 Watts</li> </ul>	\$70	25%
ESB-LZZBLF-0005	<b>LED bay fixture replacement</b> <ul style="list-style-type: none"> <li>• 30,000 lumens and more</li> <li>• Efficacy better than 100 lumens/W</li> </ul>	\$100	25%



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## AGRICULTURAL LIGHTING (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Greenhouse LED Top Lighting</b> <ul style="list-style-type: none"> <li>• DLC certified – must be on DLC Horticultural Lighting Qualified Products List.</li> <li>• Specification sheet to be provided along with DLC Product ID.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per fixture</b></p>			
ESB-AGLTOP-0001	<b>LED Agricultural Top Lighting Linear Fixture</b> <ul style="list-style-type: none"> <li>• Under 600 <math>\mu\text{mol/s}</math> between 400-700 nm</li> </ul>	\$75	25%
ESB-AGLTOP-0002	<b>LED Agricultural Top Lighting Linear Fixture</b> <ul style="list-style-type: none"> <li>• 600+ <math>\mu\text{mol/s}</math> between 400-700 nm</li> </ul>	\$150	25%
ESB-AGLTOP-0003	<b>LED Agricultural Top Lighting Compact/Other Fixture</b> <ul style="list-style-type: none"> <li>• 1,000+ <math>\mu\text{mol/s}</math> between 400-700 nm</li> </ul>	\$200	25%



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## LIGHTING CONTROLS (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Daylight Controls</b> <ul style="list-style-type: none"> <li>Automatic off feature not eligible.</li> <li>Specification sheet to be provided.</li> <li>Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per control</b></p>			
ESB-LCZDCZ-0001 to 0002	<b>Fixture mounted dual occupancy and daylight control</b>	\$25	50%
ESB-LCZDCZ-0003	<b>Ceiling or wall mounted daylight control</b>	\$30	50%
ESB-LCZDCZ-0004	<b>Switch or fixture mounted daylight control</b>	\$22	50%
<b>Occupancy Controls</b> <ul style="list-style-type: none"> <li>Automatic off feature not eligible.</li> <li>Specification sheet to be provided.</li> <li>Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per control</b></p>			
ESB-LCZOCZ-0001	<b>Ceiling or remote mounted sensor</b> <ul style="list-style-type: none"> <li>The sensor should control more than 300W of lighting load</li> </ul>	\$50	50%
ESB-LCZOCZ-0002	<b>Wall switch mounted sensor</b> <ul style="list-style-type: none"> <li>The sensor should control more than 60W of lighting load</li> </ul>	\$20	50%
ESB-LCZOCZ-0003	<b>Fixture mounted sensor</b> <ul style="list-style-type: none"> <li>The sensor should control more than 30W of lighting load</li> </ul>	\$20	50%
ESB-LCZOCZ-0004	<b>Exterior occupancy sensor</b>	\$22	50%



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Exterior Lighting Bi-Level Control</b></p> <ul style="list-style-type: none"> <li>• Must have fully programmable dimming settings, allowing at least two levels of dimming.</li> <li>• Automatic off feature not eligible.</li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per control unit</b></p>			
ESB-LCZBLC-0001	<p><b>Exterior lighting bi-level controls</b></p> <ul style="list-style-type: none"> <li>• Must control an exterior LED fixture less than or equal to 810W</li> </ul>	\$160	50%
ESB-LCZBLC-0002	<p><b>Exterior lighting bi-level controls with override — 150W to 1000W HID</b></p> <ul style="list-style-type: none"> <li>• Must control an exterior HID fixture between 150W and 1000W</li> </ul>	\$120	50%
ESB-LCZBLC-0003	<p><b>Exterior lighting bi-level control with override — 150W to 1000W PSMH</b></p> <ul style="list-style-type: none"> <li>• Must control an exterior PSMH fixture between 150W and 1000W</li> </ul>	\$120	50%

ONSITE GENERATION (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Combined Heat Power (CHP)</b></p> <ul style="list-style-type: none"> <li>Comply with Micro-generation regulation (Alberta Reg 27/2008). Submission of Form A is required before project pre-approval. For new systems, the interconnection approval is received within one year of the Application Date.</li> <li>Eligible prime movers include internal combustion engines or turbine driven.</li> <li>Must be connected to the electricity grid</li> <li>All heat must be used within the Eligible Facility.</li> <li>Minimum overall system efficiency is 50%.</li> <li>Minimum system utilization factor is 75% or 85% (depending on measure selected).</li> <li>System design must be approved by an engineer licensed in Alberta.</li> <li>CHP System can be a retrofit within an existing Facility or within a new construction project.</li> <li>Comply with the “Additional Eligibility Requirements for CHP Systems” within the Participant Terms and Conditions.</li> <li>For incentive determination, the generator nameplate electrical output will be used.</li> <li>Not eligible:               <ul style="list-style-type: none"> <li>Fuel cells</li> <li>Microturbines</li> </ul> </li> </ul> <p style="text-align: right;"><b>Incentive value per kW</b></p>			
ESB-OGZCHP-0001	<p><b>Combined heat &amp; power systems 150 kW to 4MWe</b></p> <ul style="list-style-type: none"> <li>System efficiency 50% to less than 60%</li> <li>System utilization factor must be 75% or greater</li> </ul>	\$400	50%
ESB-OGZCHP-0002	<p><b>Combined heat &amp; power systems 150 kW to 4MWe</b></p> <ul style="list-style-type: none"> <li>System efficiency 60% or more</li> <li>System utilization factor must be 85% or greater</li> </ul>	\$500	50%
ESB-OGZCHP-0003	<p><b>Combined heat &amp; power systems smaller than 150 kW</b></p> <ul style="list-style-type: none"> <li>System efficiency 50% to less than 60%</li> <li>System utilization factor must be 75% or greater</li> </ul>	\$750	50%
ESB-OGZCHP-0004	<p><b>Combined heat &amp; power systems smaller than 150 kW</b></p> <ul style="list-style-type: none"> <li>System efficiency 60% or more</li> <li>System utilization factor must be 85% or greater</li> </ul>	\$850	50%

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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Waste Energy Recovery Organic Rankine Cycle (WER ORC)</b></p> <ul style="list-style-type: none"> <li>• Must comply with Micro-generation regulation (Alberta Reg 27/2008). Submission of Form A is required before project pre-approval. For new systems, the interconnection approval is received within one year of the Application Date.</li> <li>• Must be connected to the electricity grid.</li> <li>• Minimum system utilization factor of 25%.</li> <li>• All generated energy must be used within the Eligible Facility.</li> <li>• Must comply with ANSI/ULC 2200 standards.</li> <li>• System design must be approved by an engineer licensed in Alberta.</li> <li>• ABSA certification must be provided at post-project approval.</li> <li>• WER ORC System can be a retrofit within an existing Facility or within a new construction project.</li> <li>• For incentive determination, the rated generator capacity will be used.</li> <li>• Not eligible:               <ul style="list-style-type: none"> <li>○ Systems below 50 kW or over 4,000 kW.</li> <li>○ Use of CFCs or HCFCs (as defined within the Ozone-Depleting Substances Regulations, 1998 under the Canadian Environmental Protection Act, 1999) working fluids.</li> <li>○ Projects installed on systems of regulated electric utilities.</li> <li>○ Kalina Cycle, Stirling Engines, and other heat recovery methods.</li> </ul> </li> </ul> <p style="text-align: right;"><b>Incentive value per kW</b></p>			
ESB-OGZWER-0001	<p><b>Waste energy recovery Organic Rankine Cycle systems</b></p> <ul style="list-style-type: none"> <li>• System utilization factor must be 25 to 50%</li> </ul>	\$1,000	50%
ESB-OGZWER-0002	<p><b>Waste energy recovery Organic Rankine Cycle systems</b></p> <ul style="list-style-type: none"> <li>• System utilization factor must be 50% or greater</li> </ul>	\$1,500	50%



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**GEOHERMAL (Updated May 25, 2021)**

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Ground Source Heat Pump</b></p> <ul style="list-style-type: none"> <li>• All heat must be used within the Eligible Facility.</li> <li>• Only uses the ground or groundwater for geothermal exchange.</li> <li>• The Geothermal System complies with ANSI/CSA C448 Series, “Design and installation of ground source heat pumps for commercial and residential buildings”.</li> <li>• System design must be approved by an engineer licensed in Alberta who is accredited as a Certified Geo Exchange Designer by the International Ground Source Heat Pump Association or equivalent.</li> <li>• Installed by an Accredited Installer by the International Ground Source Heat Pump Association or equivalent.</li> <li>• Comply with the “Additional Eligibility Requirements for CHP Systems” within the Participant Terms and Conditions.</li> <li>• For incentive determination, the heat pump nameplate rating in tons will be used</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive value per ton</b></p>			
ESB-GTZGSH-0001	<p><b>Ground source heat pump</b></p> <ul style="list-style-type: none"> <li>• System less than 200 tons</li> </ul>	\$2,500	50%



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## PROCESS HEATING (Updated Mar. 30, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Steam Traps</b> <ul style="list-style-type: none"> <li>Replacement of steam trap due to leaking, failed closed, open or plugged are eligible.</li> <li>Must be in service.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per trap</b></p>			
ESB-PHZSTZ-0001 to 0009	<b>Steam trap</b> <ul style="list-style-type: none"> <li>Diameter 1/8" and greater</li> </ul>	\$250	50%
<b>Economizer</b> <ul style="list-style-type: none"> <li>Economizer must be installed on a process boiler or space heating boiler exhaust stack.</li> <li>Heat captured should be used for pre-heating boiler feed water.</li> <li>Must be installed on a boiler with no economizer.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per boiler MBH</b></p>			
ESB-PHZEZZ-0001, 0003	<b>Conventional (Non-Condensing) Economizer</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$20,000</li> </ul>	\$2	50%
ESB-PHZEZZ-0002, 0004	<b>Condensing Economizer</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$30,000</li> </ul>	\$3	50%
<b>Steam Fittings and Pipe Insulations</b> <ul style="list-style-type: none"> <li>Must be high-density fiberglass or closed-cell elastomeric foam insulation.</li> <li>Pre-formed pipe insulation to be installed on bare metal pipe system applications to have a minimum R-Value of 4.</li> <li>If incremental insulation is being added, final pipe insulation to have a minimum R-Value of 4.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value per foot of insulation</b></p>			
ESB-PHZSFP-0001	<b>Steam fittings and pipe insulation</b> <ul style="list-style-type: none"> <li>Pipe diameter less than 1"</li> </ul>	\$2	50%
ESB-PHZSFP-0002-0007	<b>Steam fittings and pipe insulation</b> <ul style="list-style-type: none"> <li>Pipe diameter of 1" and greater</li> </ul>	\$4	50%

**Steam Boiler**

- Specification sheet to be provided.

Incentive value is per MBH of the boiler

<p>ESB-PHZSTB-0001</p>	<p><b>Steam Boiler</b></p> <ul style="list-style-type: none"> <li>• Thermal Efficiency greater than 85%</li> <li>• Must be certified by ASME as meeting the ASME Boiler &amp; Pressure Vessel Code</li> <li>• Incentive is capped at \$80,000</li> </ul>	<p>\$8</p>	<p>50%</p>
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## HVAC (Updated Mar. 30, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Boilers and Heaters</b> <ul style="list-style-type: none"> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value is per MBH of the boiler or heater</b></p>			
ESB-HVABHZ-0001 – 0003, ESB-HVABHZ-0006	<b>Condensing boiler</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certified or AHRI certified</li> <li>Thermal Efficiency greater than 90%</li> <li>Incentive is capped at \$80,000</li> </ul>	\$12	50%
ESB-HVABHZ-0004	<b>Condensing unit heater</b> <ul style="list-style-type: none"> <li>Located in a conditioned space</li> </ul>	\$10	50%
<b>Boiler and Heater Controls</b> <ul style="list-style-type: none"> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value is per MBH of the boiler</b></p>			
ESB-HVABHC-0001	<b>Modulating boiler burner</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$3,750</li> </ul>	\$1.50	50%
ESB-HVABHC-0002	<b>Boiler vent damper</b> <ul style="list-style-type: none"> <li>Incentive is capped at \$5,000</li> </ul>	\$2.00	50%
<b>Furnaces</b> <ul style="list-style-type: none"> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value is per unit</b></p>			
ESB-HVABHZ-005	<b>High efficiency furnace</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certified</li> <li>AFUE: 96% and more</li> </ul>	\$1,000	50%
<b>Chillers</b> <ul style="list-style-type: none"> <li>Used for space cooling or process cooling.</li> <li>Rated efficiency (kW/ton) for Integrated Part Load Value (IPLV) to be less than qualifying efficiency.</li> <li>Efficiency rating must be based on AHRI Standard 550/590 (IP) for IPLV conditions and not full load conditions.</li> <li>Must be for primary use and not back up.</li> <li>Must meet ASHRAE 90.1 standard-2016 Table 6.8.1-3 requirements for Path A or Path B efficiency.</li> <li>Refrigerant to comply with all applicable codes and authorities having jurisdiction.</li> <li>Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive value is per unit</b></p>			

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ESB-HVACZZ-0001	<b>Air cooled Chillers</b> <ul style="list-style-type: none"> <li>• 50 to 150 tons</li> <li>• Greater than 16.440 EER IPLV.IP</li> </ul>	\$500	50%
ESB-HVACZZ-0002	<b>Air cooled Chillers</b> <ul style="list-style-type: none"> <li>• More than 150 tons</li> <li>• Greater than 16.800 EER IPLV.IP</li> </ul>	\$1,500	50%
ESB-HVACZZ-0003	<b>Water cooled – positive displacement</b> <ul style="list-style-type: none"> <li>• 50 to less than 75 tons</li> <li>• Less than 0.480 kW/ton IPLV.IP</li> </ul>	\$2,000	50%
ESB-HVACZZ-0004	<b>Water cooled – positive displacement</b> <ul style="list-style-type: none"> <li>• 75 to less than 150 tons</li> <li>• Less than 0.450 kW/Ton IPLV.IP</li> </ul>	\$6,500	50%
ESB-HVACZZ-0005	<b>Water cooled – positive displacement</b> <ul style="list-style-type: none"> <li>• 150 to 300 tons</li> <li>• Less than 0.430 kW/Ton IPLV.IP</li> </ul>	\$12,000	50%
ESB-HVACZZ-0006	<b>Water cooled – centrifugal</b> <ul style="list-style-type: none"> <li>• 50 to less than 75 Tons</li> <li>• Less than 0.440 kW/Ton IPLV.IP</li> </ul>	\$2,000	50%
ESB-HVACZZ-0007	<b>Water cooled – centrifugal</b> <ul style="list-style-type: none"> <li>• 75 to less than 150 Tons</li> <li>• Less than 0.440 kW/Ton IPLV.IP</li> </ul>	\$6,500	50%
ESB-HVACZZ-0008	<b>Water cooled – centrifugal</b> <ul style="list-style-type: none"> <li>• 150 to 300 Tons</li> <li>• Less than 0.420 kW/Ton IPLV.IP</li> </ul>	\$12,000	50%
<b>Roof-Top Units (RTU)</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per unit</b></p>			
ESB-HVARTU-0001	<b>Split System or Single Package with Economizer</b> <ul style="list-style-type: none"> <li>• RTU of 3.0 Tons to less than 5.4 Tons</li> <li>• Minimum efficiency rating 12.5 EER</li> </ul>	\$150	50%
ESB-HVARTU-0002	<b>Split System or Single Package with Economizer</b> <ul style="list-style-type: none"> <li>• RTU of 5.4 Tons to less than 11.4 Tons</li> <li>• Minimum efficiency rating 12.2 EER</li> </ul>	\$250	50%
ESB-HVARTU-0003	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>• RTU of 11.25 Tons to less than 20 Tons</li> <li>• Minimum efficiency rating 10.8 EER</li> </ul>	\$600	50%

ESB-HVARTU-0004	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>• RTU of 20 Tons to less than 63.3 Tons</li> <li>• Minimum efficiency rating 10.8 EER</li> </ul>	\$1,250	50%
<b>Advanced Roof-Top Units (RTU) Controls</b> <ul style="list-style-type: none"> <li>• Roof-top unit must be equipped with economizer.</li> <li>• Controls must have VFD on supply fan and be able to provide demand control ventilation.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per unit</b></p>			
ESB-HVARTU-0005	<ul style="list-style-type: none"> <li>• RTU of 3.0 Tons to less than 5.4 Tons</li> </ul>	\$500	50%
ESB-HVARTU-0006	<ul style="list-style-type: none"> <li>• RTU of 5.4 Tons to less than 11.25 Tons</li> </ul>	\$1,200	50%
ESB-HVARTU-0007	<ul style="list-style-type: none"> <li>• RTU of 11.25 Tons to less than 20 Tons</li> </ul>	\$2,000	50%
ESB-HVARTU-0008	<ul style="list-style-type: none"> <li>• RTU of 20 Tons to less than 63.3 Tons</li> </ul>	\$5,500	50%
<b>Air Source Heat Pump (ASHP) and Variable Refrigerant Flow (VRF) Heat Pumps</b> <ul style="list-style-type: none"> <li>• Air Source Heat Pumps must meet either: <ul style="list-style-type: none"> <li>○ Consortium of Energy Efficiency (CEE) Unitary Heat Pump Specification Appendix B CEE Tier 1 or 2.</li> <li>○ Northeast Energy Efficiency Partnerships (NEEP) efficiencies Cold Climate Air-Source Heat Pump Specifications Version 3.</li> </ul> </li> <li>• Variable Refrigerant Flow Heat Pumps must meet either: <ul style="list-style-type: none"> <li>○ Consortium of Energy Efficiency (CEE) Tier 1 COP Requirements.</li> <li>○ Must be certified by the Air-Conditioning, Heating and Refrigeration Institute (AHRI) as a Variable Refrigerant Flow (VRF) Heat Pump.</li> </ul> </li> <li>• Only replacement of electric heating and cooling is eligible.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per ton</b></p>			
ESB-HVASH-0001	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>• ASHP of 3.0 Tons to less than 5.4 Tons</li> <li>• Minimum efficiency rating: cooling mode <ul style="list-style-type: none"> <li>○ Split System 15 SEER, 12.5 EER</li> <li>○ Single Package 15 SEER, 12 EER</li> </ul> </li> <li>• Minimum efficiency rating: heating mode <ul style="list-style-type: none"> <li>○ Split System 8.5 HSPF</li> <li>○ Single Package 8.2 HSPF</li> </ul> </li> </ul>	\$1,000	50%
ESB-HVASH-0002	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>• ASHP or VRF System of 5.4 Tons to less than 11.25 Tons</li> <li>• Minimum efficiency rating: cooling mode</li> </ul>	\$1,000	50%


  
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	<ul style="list-style-type: none"> <li>○ 11.8 EER, 13.6 IEER</li> <li>● Minimum efficiency rating: heating mode             <ul style="list-style-type: none"> <li>○ 3.4 COP</li> </ul> </li> </ul>		
ESB-HVASH-0003	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>● ASHP or VRF System of 11.25 to less than 20.0 Tons</li> <li>● Minimum efficiency rating: cooling mode             <ul style="list-style-type: none"> <li>○ 10.9 EER, 12.8 IEER</li> </ul> </li> <li>● Minimum efficiency rating: heating mode             <ul style="list-style-type: none"> <li>○ 3.3 COP</li> </ul> </li> </ul>	\$1,000	50%
ESB-HVASH-0004	<b>Split System or Single Package</b> <ul style="list-style-type: none"> <li>● ASHP or VRF System of 20.0 to 200.0 Tons</li> <li>● Minimum efficiency rating: cooling mode             <ul style="list-style-type: none"> <li>○ 10.3 EER, 11.8 IEER</li> </ul> </li> <li>● Minimum efficiency rating: heating mode             <ul style="list-style-type: none"> <li>○ 3.3 COP</li> </ul> </li> </ul>	\$1,000	50%
<b>Make Up Air Unit</b> <ul style="list-style-type: none"> <li>● Gas-fired condensing units.</li> <li>● Thermal efficiency 90% or more.</li> <li>● Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per 100 CFM</b></p>			
ESB-HVAMAU-0001	<b>Condensing Make-up Air Unit</b> <ul style="list-style-type: none"> <li>● Constant Speed – 1,500 to 14,000 CFM</li> </ul>	\$50	50%
ESB-HVAMAU-0002	<b>Condensing Make-Up Air Unit</b> <ul style="list-style-type: none"> <li>● Two Speed or VFD Equipped – 1,500 to 14,000 CFM</li> </ul>	\$100	50%
<b>Heat Recovery Ventilators (HRV)</b> <ul style="list-style-type: none"> <li>● Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per 100 CFM of HRV</b></p>			
ESB-HVAHRV-0001	<b>HRV</b> <ul style="list-style-type: none"> <li>● Minimum sensible effectiveness of 65% at 32°F</li> <li>● Compliant with ASHRAE 62.1</li> <li>● Not eligible where demand control ventilation or scheduled setbacks are in use or where 100% of exhaust air must be removed from the building to avoid cross-contamination</li> </ul>	\$200	50%



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<b>Energy Recovery Ventilators (ERV)</b>			
<ul style="list-style-type: none"> <li>• Specification Sheet to be provided.</li> </ul>			
<b>Incentive is per 100 CFM of ERV</b>			
ESB-HVAERV-0001	<b>Energy Recovery Ventilators</b> <ul style="list-style-type: none"> <li>• Minimum sensible effectiveness of 65% at 32°F</li> <li>• Compliant with ASHRAE 62.1</li> </ul> Not eligible where demand control ventilation or scheduled setbacks are in use or where 100% of exhaust air must be removed from the building to avoid cross-contamination	\$200	50%
<b>Demand Control Ventilation</b>			
<ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> </ul>			
<b>Incentive is per CO<sub>2</sub> sensor</b>			
ESB-HVADCV-0001	<b>Demand Control Ventilation</b> <ul style="list-style-type: none"> <li>• Must be installed in a constant volume HVAC system</li> <li>• The space where ventilation is controlled must be a minimum of 1,000 square feet</li> <li>• Compliant with ASHRAE 62.1</li> <li>• Not eligible where heat or energy recovery is in use</li> <li>• Only for new installation of sensors (adding new sensors) for previously non-controlled ventilation</li> </ul>	\$500	50%
<b>Destratification Fans</b>			
<ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> </ul>			
<b>Incentive is per fan</b>			
ESB-HVADFZ-0001	<b>Destratification Fans</b> <ul style="list-style-type: none"> <li>• Must be installed in buildings that have space heating</li> <li>• Minimum fan diameter of 20 feet</li> <li>• Minimum ceiling height of 20 feet</li> </ul>	\$1,000	50%



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**Pipe Insulation**

- Minimum R-Value of 2.5.
- Composed of elastomeric foam rubber, polyethylene foam, UV-resistant polyethylene foam, mineral wool, fiberglass, rigid polyurethane foam, rigid phenolic foam, cellular glass or calcium silicate.
- Specification sheet to be provided.

Incentive is per foot of insulation

ESB-HVAIZZ-0001	<b>Pipe Insulation – Indoor</b>	\$4	50%
ESB-HVAIZZ-0002	<b>Pipe Insulation – Outdoor</b>	\$4	50%

**Packaged Terminal Heat Pump**

- Specification Sheet to be provided.

ESB-HVAPHP-0001	<p><b>Packaged terminal heat pump</b></p> <ul style="list-style-type: none"> <li>• Must be certified by the Air-Conditioning, Heating and Refrigeration Institute (AHRI) as Packaged Terminal Heat Pump</li> <li>• Compliant with NRCan Energy Performance Standard for Packaged Terminal Air Conditioners and Heat Pumps</li> </ul>	\$200	50%
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## WATER HEATING (Added Feb. 24, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Condensing Storage Tank Water Heater</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certification required.</li> <li>Thermal efficiency is 95% or more.</li> <li>Specification Sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per water heater</b></p>			
ESB-WHZCST-0001	<b>Condensing Storage Tank Water Heater</b> <ul style="list-style-type: none"> <li>Less than or equal to 75,000 BTU/h</li> </ul>	\$300	50%
<b>Condensing Storage Tank Water Heater</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certification required.</li> <li>Thermal efficiency is 95% or more.</li> <li>Specification Sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per MBH of water heater</b></p>			
ESB-WHZCST-0002	<b>Condensing Storage Tank Water Heater</b> <ul style="list-style-type: none"> <li>Greater than 75,000 BTU/h</li> </ul>	\$9	50%
<b>Condensing Tankless Water Heater</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certification required.</li> <li>Thermal efficiency is 90% or more.</li> <li>Specification Sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per water heater</b></p>			
ESB-WHZCTZ-0001	<b>Condensing Tankless Water Heater</b> <ul style="list-style-type: none"> <li>Less than or equal to 75,000 Btu/h</li> </ul>	\$500	50%
<b>Condensing Tankless Water Heater</b> <ul style="list-style-type: none"> <li>ENERGY STAR® certification required.</li> <li>Thermal efficiency is 90% or more.</li> <li>Specification Sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per MBH of water heater</b></p>			
ESB-WHZCTZ-0002	<b>Condensing Tankless Water Heater</b> <ul style="list-style-type: none"> <li>Greater than 75,000 BTU/h</li> </ul>	\$9	50%



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**Water Heater Jacket**

- Specification Sheet to be provided.
- Only eligible for installation on a gas-fired water storage tank heater.

**Incentive is per unit**

<p>ESB-WHZJZZ-0001</p>	<p><b>Water Heater Jacket</b></p> <ul style="list-style-type: none"> <li>• Min R-Value of 6</li> <li>• Must be for natural gas water heater</li> </ul>	<p>\$50</p>	<p>50%</p>
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## BUILDING ENVELOPE AND WINDOWS (Updated Mar. 30, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Air Curtains</b> <ul style="list-style-type: none"> <li>• Installation on single and double doors and shipping/receiving doors.</li> <li>• Must be tested by a third-party performance standard (ANSI/AMCA 220-05 or similar).</li> <li>• Air curtains are not eligible on dock doors where other mechanisms that combat infiltration at the shipping/receiving door are present, such as dock door seals.</li> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive per unit</b></p>			
ESB-BEWACZ-0001	<b>Shipping Doors Dock-In or Drive-In</b> <ul style="list-style-type: none"> <li>• 8' x 8', 8' x 9', 8' x 10'</li> </ul>	\$3,750	50%
ESB-BEWACZ-0002	<b>Shipping Doors Dock-In or Drive-In</b> <ul style="list-style-type: none"> <li>• 10' x 10' or larger than 100 square feet</li> </ul>	\$4,500	50%
ESB-BEWACZ-0003	<b>Pedestrian</b> <ul style="list-style-type: none"> <li>• 3' x 7'</li> </ul>	\$300	50%
ESB-BEWACZ-0004	<b>Pedestrian</b> <ul style="list-style-type: none"> <li>• 6' x 7', 6' x 8'</li> </ul>	\$300	50%
ESB-BEWACZ-0005	<b>Pedestrian – Double doors</b> <ul style="list-style-type: none"> <li>• 2x(3' x 7')</li> </ul>	\$600	50%
ESB-BEWACZ-0006	<b>Pedestrian – Double doors</b> <ul style="list-style-type: none"> <li>• 2x(6' x 7'), 2x(6' x 8')</li> </ul>	\$600	50%
<b>Door Dock Seal</b> <ul style="list-style-type: none"> <li>• Must be replacement of deteriorated seals or the addition of new seals to an existing building with shipping/receiving doors.</li> <li>• Specification sheet to be provided.</li> </ul>			
ESB-BEWDDS-0001	<b>Compression</b> <ul style="list-style-type: none"> <li>• 8' x 8', 8' x 9', 8' x 10'</li> </ul>	\$750	50%
ESB-BEWDDS-0002	<b>Shelter</b> <ul style="list-style-type: none"> <li>• 10' x 10' or larger than 100 square feet</li> </ul>	\$1,400	50%



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<b>Insulation</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per square foot of insulation</b></p>			
ESB-BEWIZZ-0001	<b>Ceiling insulation</b> <ul style="list-style-type: none"> <li>• Minimum incremental increase in insulation of R-20</li> <li>• Minimum combined insulation greater than R-40</li> </ul>	\$1	50%
ESB-BEWIZZ-0002	<b>Wall insulation</b> <ul style="list-style-type: none"> <li>• Minimum incremental increase in insulation of R-7</li> <li>• Minimum combined insulation greater than R-27</li> </ul>	\$1	50%
<b>High-Efficiency Windows</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> </ul> <p style="text-align: right;"><b>Incentive is per square foot of windows</b></p>			
ESB-BEWHEW-0001	<b>High efficiency windows</b> <ul style="list-style-type: none"> <li>• U-value thermal resistance to be less than 0.30</li> </ul>	\$2	50%



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## FOOD SERVICE EQUIPMENT (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Ovens</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required with the exception of gas-fired conveyor ovens.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive per unit</b></p>			
ESB-FSEOVE-0001	<b>ENERGY STAR® Gas-Fired Convection Oven</b>	\$1,000	50%
ESB-FSEOVE-0002	<b>ENERGY STAR® Gas-Fired Combination Oven</b>	\$2,000	50%
ESB-FSEOVE-0003	<b>ENERGY STAR® Gas-Fired Rack Oven – Single</b>	\$1,500	50%
ESB-FSEOVE-0004	<b>ENERGY STAR® Gas-Fired Rack Oven – Double</b>	\$1,500	50%
ESB-FSEOVE-0005	<b>Gas-Fired Conveyor Oven</b> <ul style="list-style-type: none"> <li>• More than 25” conveyor width</li> <li>• Cooking efficiency of &gt;= 42%</li> <li>• Idle energy rate of 57,000 BTU/h or less</li> </ul>	\$2,000	50%
ESB-FSEOVE-0006	<b>ENERGY STAR® Electric-Fired Convection Oven – Full Size</b>	\$300	50%
ESB-FSEOVE-0007	<b>ENERGY STAR® Electric -Fired Convection Oven – Half Size</b>	\$200	50%
ESB-FSEOVE-0008	<b>ENERGY STAR® Electric-Fired Combination Oven</b>	\$500	50%
<b>Griddles</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive per unit</b></p>			
ESB-FSEGRI-0001	<b>ENERGY STAR® Gas-Fired Griddle</b>	\$1,000	50%
ESB-FSEGRI-0002	<b>ENERGY STAR® Electric-Fired Griddle</b>	\$500	50%
<b>Large Vat Fryers</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul>			

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<b>Incentive per unit</b>			
ESB-FSELVF-0001	<b>ENERGY STAR® Gas-Fired Large Vat Fryer</b>	\$750	50%
ESB-FSELVF-0002	<b>ENERGY STAR® Electric-Fired Large Vat Fryer</b>	\$750	50%
<b>Standard Vat Fryers</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul>			
<b>Incentive per unit</b>			
ESB-FSESVF-0001	<b>ENERGY STAR® Gas-Fired Standard Vat Fryer</b>	\$750	50%
ESB-FSESVF-0002	<b>ENERGY STAR® Electric-Fired Large Vat Fryer</b>	\$200	50%
<b>Steam Cooker</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul>			
<b>Incentive per unit</b>			
ESB-FSESTC-0001	<b>ENERGY STAR® Gas-Fired Steam Cooker</b>	\$1,000	50%
ESB-FSESTC-0002	<b>ENERGY STAR® Electric-Fired Steam Cooker</b>	\$1,000	50%
<b>Hot Food Holding Cabinet</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul>			
<b>Incentive per unit</b>			
ESB-FSEHFH-0001	<b>ENERGY STAR® Hot Food Holding Cabinet</b> <ul style="list-style-type: none"> <li>• Full Size</li> </ul>	\$1,000	50%
ESB-FSEHFH-0002	<b>ENERGY STAR® Hot Food Holding Cabinet</b> <ul style="list-style-type: none"> <li>• ¾ Size</li> </ul>	\$500	50%
ESB-FSEHFH-0003	<b>ENERGY STAR® Hot Food Holding Cabinet</b> <ul style="list-style-type: none"> <li>• ½ Size</li> </ul>	\$500	50%
<b>High Temperature Dishwasher</b> <ul style="list-style-type: none"> <li>• Specification sheet to be provided.</li> <li>• ENERGY STAR® certification required.</li> <li>• Eligible for new construction buildings.</li> </ul>			
<b>Incentive per unit</b>			



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Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
ESB-FSEDWH-0001	<b>ENERGY STAR® Dishwasher – High Temperature – Under Counter</b>	\$1,000	50%
ESB-FSEDWH-0002	<b>ENERGY STAR® Dishwasher – High Temperature – Stationary Single Tank Door</b>	\$2,000	50%
ESB-FSEDWH-0003	<b>ENERGY STAR® Dishwasher – High Temperature – Single Tank Conveyor</b>	\$3,500	50%
ESB-FSEDWH-0004	<b>ENERGY STAR® Dishwasher – High Temperature – Multi-Tank Conveyor</b>	\$7,000	50%
<b>Demand Control Kitchen Ventilation</b> <ul style="list-style-type: none"> <li>• New installation or replacement of constant volume ventilation hoods are eligible.</li> <li>• Intended for commercial food preparation or processing.</li> </ul> <p style="text-align: right;"><b>Incentive per unit</b></p>			
ESB-FSEDCK-0001	<b>Demand Control Kitchen Ventilation</b> <ul style="list-style-type: none"> <li>• Hood Fan under 5,000 CFM</li> </ul>	\$1,000	50%
ESB-FSEDCK-0002	<b>Demand Control Kitchen Ventilation</b> <ul style="list-style-type: none"> <li>• Hood Fan between 5,001-10,000 CFM</li> </ul>	\$2,000	50%
ESB-FSEDCK-0003	<b>Demand Control Kitchen Ventilation</b> <ul style="list-style-type: none"> <li>• Hood Fan between 10,001-15,000 CFM</li> </ul>	\$5,500	50%



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## SOLAR AIR HEATING (Updated May 25, 2021)

Measure Code	Measure and Minimum Eligibility	Incentive Value	Maximum % of Eligible Expense
<p><b>Solar Pre-Heating of Intake Air</b></p> <ul style="list-style-type: none"> <li>• Technology must have SRCC Performance Data Sheet (SRCC OG-100 Certificate).</li> <li>• Technology must be installed on south-facing wall.</li> <li>• Azimuth of the technology should not deviate more than 110<sup>o</sup> off from true south.</li> <li>• Make-up air unit must be natural-gas fired.</li> <li>• Technology installed must be whole system (include collectors, controls and connections).</li> <li>• Collectors must be certified by the SRCC.</li> <li>• Collectors must have a minimum ten year manufacturer’s warranty.</li> <li>• Other system components must have a minimum one year manufacturer’s warranty.</li> <li>• Technology installation must come with a minimum of one year workmanship warranty that covers installation.</li> <li>• At the post-project stage, the following must be provided:               <ul style="list-style-type: none"> <li>○ Photographs of the collectors and system installed.</li> <li>○ Manufacturer’s commissioning report.</li> </ul> </li> <li>• Specification sheet to be provided.</li> <li>• Eligible for new construction buildings.</li> </ul> <p style="text-align: right;"><b>Incentive per square foot installed</b></p>			
ESB-SOLAIR-0001	<b>Solar Pre-Heating of Intake Air</b>	\$10	50%



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