

# EmPOWER Grant Eligible Equipment Types



Hawai'i Energy

Equipment types on this list are eligible for the EmPOWER Grant. Equipment must meet Hawai'i Energy's minimum efficiency and other requirements for the specified equipment type as listed here. Refer to equipment specification sheets to find the relevant requirements. Specification sheets may be found on vendor websites or provided by the equipment vendor or [Clean Energy Ally](#) (CEA) contractor.

Work with your CEA to find eligible equipment. If you or your CEA have any questions, please reach out to Chester Carson at [HE-Grants@Leidos.com](mailto:HE-Grants@Leidos.com) or your Energy Advisor.

Equipment must be purchased on or after September 1, 2021 and installed by June 1, 2022 to be eligible for the EmPOWER grant. Equipment may be purchased after grant awards are announced.

## Ineligible Equipment

- Equipment types that are not on this list
- Equipment that does not qualify for a Hawai'i Energy incentive
- Used equipment
- Gas-powered equipment
- Items purchased before September 1, 2021
- Electric vehicle charging stations
- Custom equipment

## Appliances

| Equipment Type             | Requirements   |
|----------------------------|--|
| Vending Machine Controller | Vending machine must be refrigerated and/or employ an active lamp. |

## Building Envelope

| Equipment Type | Requirements  |
|----------------|---|
| Window Film    | Windows must be facing east, west, or south. Must have a solar heat gain coefficient of 0.435 or less. Film must have a minimum five-year manufacturer's warranty and one-year installer's warranty. Windows may be clear or factory tinted, single or double pane, but must not have reflective glass. Windows significantly shaded by buildings, trees, awnings, etc. are not eligible. |

## Commercial Kitchen Equipment

| Equipment Type              | Requirements  |
|-----------------------------|---|
| Combination Oven - Electric | <p>Must be ENERGY STAR certified. Must be a food-grade commercial combination oven as defined in the ENERGY STAR Version 2.0 specification.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>   |
| Commercial Fryer - Electric | <p>Must be ENERGY STAR certified. Electric open deep-fat fryers, including standard fry pot sizes (<math>\geq 12</math>" and 18" wide) and large vat fryers (18" to 24" wide). Countertop and floor type models are eligible.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p> |

| Equipment Type                | Requirements   |
|-------------------------------|--|
| Commercial Ice Machine        | <p>Must be ENERGY STAR certified. Air-cooled batch-type and continuous-type (i.e. flake and nugget) ice makers are eligible. Designs include ice-making head (IMH), self-contained (SCU), and remote condensing units (RCU).</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>   |
| Convection Oven - Electric    | <p>Must be ENERGY STAR certified. Food-grade commercial convection ovens as defined in the ENERGY STAR 2.0 specification. This includes half and full-size electric convection ovens.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>  |
| Demand Controlled Ventilation | <p>The control system must be used in conjunction with variable speed fan motor controls. All motors must meet NEMA Premium Efficiency standards and be UL Approved. Temperature and optical sensors must have the ability to sense and ramp up or down the ventilation rate based on the presence of temperature, smoke or steam from cooking activity. Temperature and infrared cooking sensors must have the ability to measure temperature at the cooking surface to ramp ventilation up or down based on when cooking starts.</p> |
| Electric Griddle              | <p>Must be ENERGY STAR certified. Single and double-sided electric models that are thermostatically controlled are eligible.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>   |
| Hot Food Holding Cabinet      | <p>Must be ENERGY STAR certified. Must have glass or solid door cabinets (fully enclosed compartment with one or more doors).</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>  |
| Low-Flow Spray Nozzle         | <p>Must be within the maximum permitted flow rates (gpm) as follows:<br/> ≤ 5 ozf with max. flow rate of 1.00<br/> &gt; 5 ozf and ≤ 8 ozf with max. flow rate of 1.20<br/> &gt; 8 ozf with max. flow rate of 1.28</p>  |
| Reach-In Freezer              | <p>Must be ENERGY STAR certified. Solid door, glass door, and mixed solid/glass door freezers are eligible.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>  |
| Reach-In Refrigerator         | <p>Must be ENERGY STAR certified. Solid door, glass door, and mixed solid/glass door refrigerators are eligible.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>   |
| Steam Cooker                  | <p>Must be ENERGY STAR certified. Electric steam cooker models may include countertop, wall-mounted, floor-mounted and floor-mounted on a stand, pedestal, or cabinet-style base.</p> <p>Refer to this <a href="#">ENERGY STAR</a> list of models that are certified. Search the model number to see if your unit is certified.</p>  |

## HVAC

| Equipment Type   | Requirements  |
|--|---|
| Air-Source Heat Pump   | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 65,000 ; 15.4 SEER<br>65,000 ≤ BTU < 135,000; 12.1 EER; 13.4 IEER<br>135,000 ≤ BTU < 240,000; 11.7 EER; 12.8 IEER<br>BTU ≥ 240,000; 10.5 EER; 11.7 IEER           |
| Air-Source Package/Split AC or Heat Pump                               | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 65,000 ; 15.4 SEER<br>65,000 ≤ BTU < 135,000; 12.3 EER; 14.2 IEER<br>135,000 ≤ BTU < 240,000; 12.1 EER; 13.6 IEER<br>240,000 ≤ BTU < 760,000; 11.0 EER; 12.8 IEER |
| Inverter Variable Refrigerant Flow (IVRF) - Heat Pump                  | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 65,000 ; 15.4 SEER<br>65,000 ≤ BTU < 135,000; 12.1 EER; 13.4 IEER<br>135,000 ≤ BTU < 240,000; 11.7 EER; 12.8 IEER<br>BTU ≥ 240,000; 10.5 EER; 11.7 IEER           |
| Inverter Variable Refrigerant Flow (IVRF) - Package/Split AC           | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 65,000 ; 15.4 SEER<br>65,000 ≤ BTU < 135,000; 12.3 EER; 13.2 IEER<br>135,000 ≤ BTU < 240,000; 12.1 EER; 13.6 IEER<br>240,000 ≤ BTU < 760,000; 11.0 EER; 12.8 IEER |
| PTAC/PTHP  | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Requirements are size dependent. Contact Hawai'i Energy to qualify units.  |
| Variable Frequency Drives (VFDs) for Chiller and Condenser Water Pumps | Existing equipment must not have a working VFD. VFDs must actively control and vary the pump speed.   |
| Variable Frequency Drives (VFDs) for HVAC Fans                         | Existing equipment must not have a working VFD. VFDs must actively control and vary the pump speed. New construction fans greater than 10HP are not eligible.   |
| Vertical AC/Heat Pump  | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 240,000 ; 11.0 EER  |
| Water-Source Heat Pump   | Search model numbers in the <a href="#">AHRI Directory</a> for tested capacity and efficiency ratings. Must meet minimum efficiency requirements based on size as follows:<br>BTU < 17,000 ; 13.4 EER<br>17,000 ≤ BTU < 135,000; 14.3   |
| Window AC - Variable Speed Compressor/Dual Inverter                    | Must meet minimum efficiency requirements based on size as follows:<br>8,000 ≤ BTU < 14,000; 13.8 CEER<br>14,000 ≤ BTU < 28,000; 14.5 CEER<br><br>Refer to this <a href="#">ENERGY STAR</a> list of variable speed compressor room air conditioner models that may be eligible.   |

## Lighting

| Equipment Type         | Requirements   |
|------------------------|--|
| Fluorescent De-lamping | Process must include removal of all disconnected ballasts, lamps, and lamp holders (tombstones) from fixture.  |
| Most fixture types     | Must be ENERGY STAR certified or Design Lights Consortium (DLC) listed. These certifications are typically noted on the specification sheet. Model numbers can be searched on the <a href="#">ENERGY STAR</a> and <a href="#">Design Lights Consortium (DLC)</a> websites. |
| Occupancy Sensors      | All types are eligible.  |

## Pumps and Motors

| Equipment Type   | Requirements   |
|--|--|
| Domestic Water Pump/Booster Pump                         | The new booster pump system's total horsepower must be equal or less than that of the existing system. The system horsepower reduction must be between 0 to 129 HP. The proposed boost pump system must be a more efficient design than the existing system. All pump motors must meet CEE Premium Efficiency standards. New construction projects are not eligible. |
| Electronically Commutated Motors (ECM) on Fan Coil Units | ECM must be coupled with integrated controllers. New construction projects and retrofits from standard efficiency shaded pole motors to ECM in fan coil units are eligible.  |
| Premium Efficiency Motors                                | Must be a new motor installation; used or rebuilt motors are not eligible. Motors must meet CEE Premium Efficiency Standards. Contact Hawai'i Energy for minimum efficiency requirements table.  |
| Variable Frequency Drives (VFD) for Pool Pumps           | VFDs installed on a water feature, spa pool, or Jacuzzi pumps, above-ground pool, pond, pool-cleaner/booster do not qualify. Existing equipment must not have a working VFD. VFDs must actively control and vary the pump speed. All pumps and motors must be new. 3 HP or less pump limit. New pump or motor must be operated with a qualifying controller.         |

## Refrigeration

| Equipment Type   | Requirements   |
|--|--|
| Electronically Commutated Motors (ECM) in Commercial Refrigeration | ECM must be coupled with integrated controllers. Retrofits from standard efficiency shaded pole motors to ECM in existing refrigerated cases up to 1HP may qualify. Complete walk-in refrigerators and freezers manufactured after January 1, 2009 do not qualify. |
| Evaporator Fan Motor Controls                                      | Must be installed in an existing walk-in cooler/freezer or refrigerated warehouse. Must control synchronous or brushless DC motor. Controls must cycle or reduce fan air flow.   |
| Floating Head Pressure Controls                                    | Must be installed in existing equipment. Compressor rating must be less than or equal to 10 HP. Must control synchronous or brushless DC motor. Controls must cycle or reduce fan air flow.  |
| High Efficiency Evaporators  | Retrofit only. Must have electronically commutated motor (ECM) and integrated motor controls at minimum. Defrost optimization and electronic expansion valve are desirable.  |

| Equipment Type  | Requirements   |
|---|--|
| Refrigerated Case Anti-Sweat Heater Controls                | Controls must be installed on all doors of an existing refrigerator or freezer. Complete walk-in refrigerators/freezers manufactured after January 1, 2009 do not qualify.   |
| Refrigerated Case Doors                                     | Retrofit to existing, open low- or medium-temperature refrigerated cases. Doors must have double- or triple-pane, non-heated, insulated glass. Must include added end cap filler or full end replacement to enclose the ends of the cases. If door lighting exists, must be integrated LED lighting. |
| Refrigerated Case Lighting - 4-, 5-, or 6-ft. Retrofit Kits | Applies to vertical reach-in refrigerated case lamps and kits.   |
| Refrigerated Case Night Covers                              | None.  |

## Water Heating

| Equipment Type                | Requirements   |
|-------------------------------|--|
| Commercial Solar Water Heater | Must comply with Solar Rating and Certification Corporation (SRCC) standards.  |
| Heat Pump Water Heater        | Must be replacement of an electric resistance or heat pump water heater. For new systems between 5 to 11.25 tons, the COP must be at least 3.3. For new systems greater than 11.25 tons, the COP must be at least 3.2. |