



Refrigeration Incentive Measures

Commercial & Industrial Trade Ally Forums

Spring 2024

A close-up photograph of a hand holding a black pen, writing in a notebook. The notebook is open, and the pen is positioned over the lines of the page. The background is blurred, showing a wooden surface.

Agenda

- Refrigeration equipment incentives
 - Current incentives - areas of potential
 - Upcoming incentives
 - Industrial opportunities
- Developing new measures
 - Working with distributors and trade allies
- Feedback/Q&A
 - What are you seeing in the market?
 - What incentives would you like to see?

Current Refrigeration Incentives



Current Refrigeration-Related Measures

- Commercial reach-in refrigerators and freezers
- Efficient evaporator fan motors (existing walk-in & reach-in refrigerators)
- Antisweat heater controls
- Strip curtains
- Door retrofits for existing freezers or refrigerated cases
- New refrigerated cases with doors ($< 32^{\circ}\text{F}$, $\geq 32^{\circ}\text{F}$)



Current Refrigeration-Related Measures

- Measures for rack refrigeration systems
 - VFDs for condenser fans
 - Add floating head pressure control
 - Add floating suction pressure control
 - Add combined floating head and suction pressure control
- Eligibility criteria can be found in Energy Trust Insider
 - Visit insider.energytrust.org
 - Choose 'Forms' under Resources and select Existing Buildings.
 - [For Oregon](#)
 - [For SW Washington](#)
- Ask for help from your Trade Ally Coordinator
 - Project eligibility
 - Application process

Upcoming Refrigeration Incentives

Upcoming Refrigeration-Related Measures

- **Advanced controls for walk-in coolers and freezers**
 - Adds a controller with advanced learning capabilities which optimizes compressor and evaporator fan run time and the number of times a unit activates defrost
 - Can be retrofitted to existing and new walk-in coolers and freezers
 - Resolves issues such as frost/ice buildup inside walk-ins
- **High-speed doors for refrigerated spaces**
 - Provide sufficient barrier to minimize infiltration of outside air and moisture
 - Remain open for an optimized amount of time to allow passage while minimizing infiltration
 - Use sensors and/or manual controls to open doors
 - Applicable to grocery stores, restaurants, hotels, warehouse locations such as Costco, and small meat and produce storage facilities



Collaborating with Distributors and Trade Allies in Developing New Measures

Story of a new measure:

Advanced controls for walk-in coolers and freezers

- Measure development team knew about the technology, but needed more details
 - What products/brands are available in the market?
 - What are the distribution channels?
 - What is the typical inventory for OR and SW WA?
 - What contractors/trade allies are currently working with this technology?
 - What are the estimated costs of installation?
 - What are the other considerations?



Story of a new measure:

Advanced controls for walk-in coolers and freezers

- The measure development team connected with a distributor and a trade ally to learn more about the technology
 - What are its essential features?
 - Will it meet eligibility requirements?
 - What are the installed costs?
 - What is the prevalence of types of defrost in existing walk-in units
 - How do installations differ for new walk-ins?
 - What size ranges do contractors typically see?
 - Could this product work for walk-in freezers/coolers found in a place like Costco?
 - What types of lighting controls are typically found in walk-ins?



Industrial Incentive Review

Industry & Ag:

- When is my project *industrial*?
 - Business that processes, treats, assembles, mines, produces, repackages, bottles for outside distribution, grows something or has a cold storage distribution center.
- Calculated and custom projects
 - Compressed air
 - Refrigeration
 - HVAC
 - Dust collection, VFDs, pumps & fans
 - Even more... If it saves energy, we can determine if the project is cost effective

\$0.45/kWh, up to 90% of project cost

\$5.00/therm, up to 90% of project cost



Industry & Ag:

- Bring the project to us, or we can help identify opportunities
- Connect with us:
 - Kelson Redding / 503.442.0656 / kredding@energy350.com
 - Adam Murillo / 619.754.5538 / amurillo@burchenergy.com
 - Dave Morris / 541.292.4775 / dave@rhtenergy.com (Southern OR)
 - Brian Schultz / 503.706.5457 / bschultz@energy350.com (Central OR)
 - Whitney Rideout / 503.807.0398 / whitney@skygardensdesign.com



Your Suggestions



Example: High-speed doors for walk-in coolers & freezer spaces

- Developing this measure in 2024 to be available in Q1 2025
- Trade ally input will help us maximize eligibility for both new and existing customers
- Examples of useful input include:
 - *Installed cost
 - Installation differences between existing and new walk-ins
 - Size range of walk-ins on which these doors are installed
 - Type of facilities using these doors

Suggestions and/or recommendations

- What new refrigeration-related equipment/technologies are you seeing in the market?
- What refrigeration-related equipment/technologies would you like to see incentivized?
- How would you like to see the program expand/modify eligibility criteria for existing or new measures?



Q & A

Thank you!

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