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## BECOME A WISER ENERGY MISER!

CERTs and EnergyMisers, LLC VendingMiser Bulk-Buy Program

### What is the CERTs VendingMiser Bulk Buy Program?

CERTs has teamed up with EnergyMisers, LLC to offer a special low price on VendingMisers, an energy and cost saving device.

From February 19, 2010 to May 1, 2010, EnergyMisers, LLC is offering a special, low, bulk rate for all contracts statewide.

Sign up with CERTs to purchase a number of VendingMisers at a discounted price!

To sign up, visit the [CERTs VendingMiser Campaign](#) webpage or email Joel and Michelle at [vendingmiser@cleanenergyresourceteams.org](mailto:vendingmiser@cleanenergyresourceteams.org)

In addition, your utility may offer a \$50-75 rebate for each unit purchased ([check for your utility here](#)).

### OFFICIAL CAMPAIGN OVERVIEW

Between now and May 1<sup>st</sup>, you and your organization or business can sign up to save approximately \$130 a year on energy costs for each vending machine by participating in a statewide VendingMiser Bulk-Buy Program offered by CERTs and EnergyMisers, LLC.

### What is a VendingMiser?

A VendingMiser is a simple little device that lowers the energy use of your beverage vending machine *without* affecting its performance. The average beverage vending machine uses 7-13 kWh per day, and costs around \$300 in electricity per year. A VendingMiser can cut your machine's energy consumption by 46%, saving around \$130 per machine each year.

Normally, a VendingMiser costs \$179 and has a payback of 16 months. If you order through the CERTs and EnergyMisers, LLC VendingMiser Bulk-Buy Program, you can recoup your costs even faster. Several utilities also offer rebates on VendingMiser purchases. The VendingMisers are manufactured by USA Technologies.

### Who are we working with?

**EnergyMisers, LLC** specializes in energy and resource conservation solutions for business and institutional customers.

[www.energymisers.biz](http://www.energymisers.biz)



**Energy Smart** helps organizations identify energy efficiency and conservation opportunities and get connected to the resources and information they need to make energy improvements.

[www.mnenergysmart.com](http://www.mnenergysmart.com)



### How does it work?

A VendingMiser has two parts to it: a motion sensor and the VendingMiser. The vending machine is plugged into the VendingMiser, which is attached to a wall and plugged into an outlet. The motion sensor is plugged into the VendingMiser.

The VendingMiser is equipped with an occupancy sensor and a temperature monitor (internal and external). These two components work together to lower energy consumption while ensuring that the products stay





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cold and the machine stays on when occupants are in the surrounding area. When the surrounding area is unoccupied for 15 minutes, the VendingMiser will turn off the machine for 1-3 hours. It will turn on if someone enters the area or if the products need to be cooled.

The VendingMiser will not shut off the compressor if it is running, but it will also ensure that the compressor runs only as necessary to keep products cold. This process reduces the number of compressor cycles, reducing maintenance costs, and extending the life of the vending machine.

You can be sure:

- The VendingMiser will not affect the temperature or the advertisement of your products.
- The VendingMiser will adjust compressor cycles based on the ambient temperature of the room to regulate the machine's internal temperature.
- National vending machine companies have approved the use of VendingMisers on their machines.
- You will save money from lower energy costs, maintenance costs, and replacement vending machine costs.

## How much can I save?

	Without a VendingMiser	With a VendingMiser
<b>Electricity Use per year</b> (Based on 10kWh/day, and a VendingMiser reduction of 45%.)	3,650 kWh	2,008 kWh
<b>CO2 emissions per year</b> (Based on MN Data of 1.81 lbs/kWh.)	6,607 lbs (3.0 US Tons)	3,934 lbs (1.8 US Tons)
<b>Cost of VendingMiser</b> (Without including utility rebate. See Buyer's Guide for more information on pricing.)	--	\$179*
<b>Cost over 52 weeks</b> (Based on \$0.08/kWh.)	\$292/year	\$161/year
<b>Savings per year</b> (Energy cost without VendingMiser minus energy cost with VendingMiser)	<b>\$0 savings/year</b>	<b>\$131 savings/year</b>
<b>Cost of Installation</b> (Installation labor is minimal; takes 5-10 minutes to install a VendingMiser, no technical knowledge necessary.)	--	(low cost)
<b>Payback</b> (Not including installation costs; Cost of VendingMiser/savings per year. Your payback period will be <i>even shorter</i> if your electricity costs are higher and if your utility offers you a rebate.)	--	16.3 months

**\*VendingMiser Price:** The normal price for a VendingMiser is \$179. CERTs expects to easily meet the quantity requirements for the price of \$164 per VendingMisers (and \$156 for VendingMisers placed on adjacent vending machines, see Buyer's Guide for more details.) Shipping will be approximately \$3 per VendingMiser, depending on quantity. Remember: Check to see if your utility offers a rebate! [Check for your utility here.](#)



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## The Step-by-Step: How to join the VendingMiser Bulk-Buy Program

### 1) **Talk with your school, organization or business about VendingMisers!**

It is important to talk with your organization about the benefits of VendingMisers. It also helps to talk to your vending machine contractor so that they understand that the VendingMiser will not affect their sales or advertisements. Delivery personnel should be informed as well.

Check your vending machines to be sure their circuits are not overloaded. Talk with CERTs or EnergyMisers, LLC if you have more than one vending machine plugged into a single outlet. We want to be sure the VendingMisers work at their optimal level for you. For more information on VendingMisers and your vending operations, see the Buyer's Guide at <http://vendingmiser.mncerts.org>.

### 2) **Contact CERTs or sign up online!**

CERTs is managing all purchases related to the bulk-buy program. CERTs will gather information on your business or organization, including a billing and shipping address, and a purchase order number to expedite the contracting process with EnergyMisers, LLC.

To sign up, visit the comprehensive CERTs VendingMiser Campaign webpage at <http://vendingmiser.mncerts.org>, or email Joel and Michelle at [VendingMiser@cleanenergyresourceteams.org](mailto:VendingMiser@cleanenergyresourceteams.org)

### 3) **Invite others to join in the bulk buy!**

The more purchases made through this program the lower the price and the greater the energy savings! Take advantage of this unique opportunity and talk to others in your social and professional networks about the energy and cost savings associated with VendingMisers.

### 4) **Complete your contract with EnergyMisers, LLC—before May 1, 2010!**

After May 1, 2010, CERTs will close its purchasing list, and EnergyMisers, LLC will work with you to complete your purchase.

In May, EnergyMisers, LLC will verify your interest and send out an invoice for your purchase. VendingMisers will be sent to your shipping address directly from USA Technologies distribution.

### 5) **Tell your story!**

CERTs would love to hear back about your experience. Whether installation was incredibly easy, the Vendor VendingMisers started an energy campaign at your school, organization or business, or you noticed a change in your energy bill, we want to hear about it. Leave us a note at the [CERTs VendingMiser Campaign: Stories!](#)

## Contact Us

For questions regarding the bulk-buy program and signing-up, please contact Joel and Michelle at CERTs: [VendingMiser@cleanenergyresourceteams.org](mailto:VendingMiser@cleanenergyresourceteams.org).

For questions about EnergyMisers, LLC or the USA Technologies VendingMiser, you may contact Bill Bieganek with EnergyMisers, LLC at [bill@energymisers.biz](mailto:bill@energymisers.biz).



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## BECOME A WISER ENERGY MISER!

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### What do VendingMisers look like?

The VendingMiser is a small gray box with the white adhesive that attaches to the back of the machine at the top.



Each stand-alone or group of machines will use a VendingMiser that is equipped with a motion sensor. The sensor is attached to a bracket that extends over the top of the machine.



### A BUYER'S GUIDE TO VENDINGMISERS

**A VendingMiser is a small device that makes your vending machines operate 46% more efficiently, saving approximately \$130 a year on each machine in energy costs! This document will help you determine which models of the cold-drink VendingMisers you will need to purchase to achieve your energy savings.**

#### Get to know your vending machines!

We recommend doing a walking inventory of your vending operations to become familiar with how your vending operations are situated. Below is a list of things to consider as you do this walking inventory. See the calculating form below to understand why this is important.

- How many vending machines do you have?
- How many cold-drink vending machines do you have?
- How many locations with adjacent-standing cold-drink vending machines are there?
- Is there space above at least one of the cold-drink vending machines (14 inches)?
- Do you have staff help to move machines? (You will need to access the area behind the machine for installation.)

#### VendingMiser models

By walking through the simple questionnaire below, you can determine exactly what you need to order. There are three different models that are eligible for the bulk-buy.

- **VM 170 VendingMiser for Cold Beverages, indoor version, easy Installation with sensor:** Each stand-alone or set of adjacent cold-drink vending machines will need at least one (1) VM170 (if you have 14 inches of space, if not see VM150). This model includes the sensor and stand pictured above.
- **VM 171 VendingMiser for Cold Beverages, indoor version, easy installation w/repeater cable:** For adjacent machines, you can use this model with the repeater cable to hook up VendingMiser to the single sensor.
- **VM 150 VendingMiser for Cold Beverages, indoor version, with manual wall-mounting sensor:** For machines that do not have the 14 inch clearance for the sensor and stand (VM 170), you can order the VM 150 and place the sensor manually wherever it is convenient.

You can combine the VM 171 with the repeater cable with either VM 170 or VM 150. You must have at least one VM 170 or VM 150 for each adjacently-standing group of vending machines.



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## Calculating form

To determine your quantities and costs for VendingMisers simply fill out blanks A, B, and C below if you are working within the PDF. If you are filling this out yourself, do the simple calculations yourself. Discount price of \$164/unit used below.

### THE BASICS

How many cold drink vending machines do you have? A. \_\_\_\_\_

In how many locations are these vending machines? B. \_\_\_\_\_

Do you have any machines without 14 inches of space above the machine? At how many locations are there *no* cold drink vending machines *with* 14 inches of space above them? Each location needs at least one cold drink vending machine with space above it. C. \_\_\_\_\_

### CALCULATION RESULTS

Number of VendingMisers w/ sensors (VM170) = B. – C. \_\_\_\_\_

Number of VendingMisers w/ Repeater cords (VM171) = A. – B. \_\_\_\_\_

Number of VendingMisers w/ sensor wall mount (VM150) = C. \_\_\_\_\_

**Total number of VendingMisers (all products count toward the bulk buy)** \_\_\_\_\_

## How much do they cost?

The chart below will help you estimate the cost of your VendingMiser purchase.

Item	Quantity	Price/item	Discount price/item (25+)	Discount price/item (500+)	Total
VM 170	_____ x	\$179.00	\$164.00	\$149.00	+ _____
VM 171	_____ x	\$171.00	\$156.00	\$141.00	+ _____
VM150	_____ x	\$179.00	\$164.00	\$149.00	+ _____
					<b>Subtotal</b> = _____
Shipping	_____ x	Approx. \$3.00			+ _____
					<b>TOTAL</b> = _____



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In addition, your utility may offer a \$50-75 rebate for each unit purchased ([check for your utility here](#)).

### FREQUENTLY ASKED QUESTIONS

- [If the VendingMiser turns my machines off, won't my drinks get warm? How does it work?](#)
- [Should I start with just a few VendingMisers and see how they work?](#)
- [I have drink machines adjacent to one another. Do I need sensors for all my machines?](#)
- [How do you install a VendingMiser?](#)
- [I have drink machines outside, and other types of vending machines, too. Will this VendingMiser program cover those, too?](#)
- [Will my vending machine company let me do this?](#)

#### If the VendingMiser turns my machines off, won't my drinks get warm? How does it work?

Using a Passive Infrared (PIR) occupancy sensor, VendingMiser will automatically shut down the controlled vending machine when the area around it has been vacant for 15 minutes. However, VendingMiser will periodically re-power the machine automatically to ensure that the vended product stays cold. In addition, VendingMiser contains a current sensor which determines if the vending machine's compressor is operating and will delay power-down of the vending machine until the compressor has completed its cooling cycle.

#### Should I start with just a few VendingMisers and see how they work?

The energy savings from a VendingMisers have been tested and verified across the country. As such, CERTs recommends that you take advantage of this bulk-buy opportunity and purchase VendingMisers for all your machines. If you would like copies of additional studies (beyond those included on our [CERTs VendingMiser Campaign webpage](#)) please contact CERTs directly. We are happy to provide you with additional detail and documentation.

#### I have drink machines adjacent to one another. Do I need sensors for all my machines?

No. When machines are close together, you only need a single sensor. EnergyMisers LLC suggests using a sensor on one machine, and connecting the other VendingMisers to that sensor using a repeater cable (essentially a telephone cord). This setup allows the machines to work together and staggers turn-on times to prevent circuit overloads.



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## How do you install a VendingMiser?

The VendingMiser is very easy to install. First, you will adhere the VendingMiser to the back of the vending machine with adhesive and Velcro, included with your VendingMiser. Then, plug the vending machine power cord into the VendingMiser, and plug the VendingMiser's power cord into the wall outlet. If you are installing a secondary VendingMiser with a repeater cable, plug the repeater cable into the primary VendingMiser. The VendingMiser should begin operating immediately. The most difficult part of installation is moving the machine out from the wall to access the back, but the average person should be able to move the machine just enough to get behind it. Most have said it takes less than 3 minutes to install a VendingMiser. For full instructions, see "VM170/VM171 EZ Installation Instructions" on the [CERTs VendingMiser Campaign webpage](#).

## I have drink machines outside, and other types of vending machines, too. Will this VendingMiser program cover those, too?

EnergyMisers, LLC sells numerous types of VendingMisers for any type of machine. The EnergyMisers, LLC and CERTs VendingMiser Bulk-Buy Program is only coordinating purchases of VendingMisers for indoor, cold-drink machines at this time. Consider talking with EnergyMisers, LLC about your other machines. It might be a very labor-efficient choice to install VendingMisers on all vending machines while you are doing the work on the indoor, cold-drink machines.

## I lease my vending machine. Will my vending machine company let me do this?

Yes, they should. The VendingMiser is an external device, which does not tamper with the vending machine equipment. PepsiCo and Coca-Cola have approved the application of VendingMisers on their machines. It may be important, however, to notify delivery staff or post information signs about VendingMisers so they are not mistakenly removed or tampered with. (CERTs has designed signs for this purpose on our [CERTs VendingMiser Campaign webpage](#).) Keep in mind that you are the one paying your energy bills and should be free to make choices that are more energy and cost efficient.

## Contact Us

For additional questions regarding the bulk-buy program and signing up, please contact Joel and Michelle at CERTs: [vendingmiser@cleanenergyresourceteams.org](mailto:vendingmiser@cleanenergyresourceteams.org).

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