

The Future of FinAnswer Express: Program Changes & Updates

Presented by Bryan Haney

February 4, 2010
Energy Efficiency Alliance Workshop

Track 4: Beyond Fundamentals: HVAC, Motors and Other



Introduction

- Evolution of the program
- Identify reasons for program updates
- Near-term changes proposed

History of the FinAnswer Express Program

- Program est. in Utah in 2001
 - ▶ Measures included lighting, premium motors, and HVAC
 - ▶ Retrofit Only
- Program revised in 2007
 - ▶ Added incentives for New Construction projects
 - ▶ Revised eligibility criteria and incentive amounts
 - ▶ Added additional measures (i.e. chillers)
- Changes being considered in Utah for 2010

What Prompts Program Changes?

- State & Federal Energy Codes (mandated standards)
 - ▶ Equipment Efficiency Standards
 - ▶ EISA 2007
- Voluntary high-efficiency standards
 - ▶ ENERGY STAR
 - ▶ Consortium for Energy Efficiency
- Changes in Technology/Availability of Products
- Saturation of the Market

What parts of Program can change?

- Measure eligibility criteria
 - ▶ Example – higher efficiency requirements for HVAC
- Customer eligibility criteria (infrequent)
 - ▶ Example – new customer class added
- Incentive amounts
 - ▶ Example – raise incentive
- Available measures
 - ▶ Example – addition of chillers to program

Recent Events Prompting Near-Term Changes

– Federal Efficiency Standards

▶ CFR Title 10

- Solid Door-Refrigerators & Freezers
- Commercial AC and HP Equipment (65,000 Btu – 760,000 btu)

▶ EISA 2007

- NEMA Premium Motors
- Pulse-Start Metal Halide

– ENERGY STAR Criteria

- Programmable Thermostats

Near-term Proposed Changes

Proposed Effective Date: May 2010

HVAC Eligibility Criteria & Incentives

Equipment Type	Size Category	Sub-Category	\$50/ton	\$75/ton	\$100/ton
Unitary Commercial Air Conditioners, Air-Cooled (Cooling Mode)	< 65, 000 Btu/hr (single phase)	Split system and single package	15.0 SEER and 12.5 EER	--	--
	< 65, 000 Btu/hr (three phase)	Split system and single package	13.0 SEER and 11.6 EER	14.0 SEER and 11.6 EER	15.0 SEER and 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	11.0 EER and 11.4 IPLV	11.5 EER and 11.9 IPLV	12.0 EER and 12.4 IPLV
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	10.8 EER and 11.2 IPLV	11.5 EER and 11.9 IPLV	12.0 EER and 12.4 IPLV
	≥ 240,000 Btu/hr and < 760,000 Btu/hr	Split system and single package	10.0 EER and 10.4 IPLV	10.5 EER and 10.9 IPLV	10.8 EER and 12.0 IPLV
	≥ 760,000 Btu/hr	Split system and single package	--	9.7 EER and 11.0 IPLV	10.2 EER and 11.0 IPLV

Pulse Start Metal Halide

- Eligibility Criteria changing for New Construction
- Current Requirements:

High Intensity Discharge Upgrades (based on lamp wattages)	≤ 100 W ceramic metal halide	\$20
	> 100 W ceramic metal halide	\$40
	≥ 125 W pulse start metal halide	\$30

- Proposed Requirements:
 - ▶ Only pulse start metal halide luminaires > 500W will remain eligible for incentives
 - ▶ Incentive remains the same

NEMA Premium Motors

- Expand Eligibility Criteria to include 200 – 500 HP
- Incentives will be available for motors purchased before 12/19/2010. Incentives will no longer be offered for Premium Motors 1-500 HP motors purchased on or after 12/19/2010.
- Incentive proposed for qualifying “Green Motor” rewinds

Solid-Door Refrigerators & Freezers

Measure Description	Efficiency Tier	Minimum Efficiency Requirements (Maximum kWh/day)	Incentives
Solid Door Refrigerator ≤ 30 Cubic Ft. (V)			\$ 30/unit
Solid Door Refrigerator 31-60 Cubic Ft. (V)	Tier 1	$0.1 * \text{Volume} + 2.04$	\$ 40/unit
Solid Door Refrigerator ≥ 61 Cubic Ft. (V)			\$ 50/unit
Solid Door Refrigerator ≤ 30 Cubic Ft. (V)	Tier 2	$0.06 * \text{Volume} + 1.22$	\$ 125/unit
Solid Door Refrigerator 31-60 Cubic Ft. (V)			\$ 150/unit
Solid Door Refrigerator ≥ 61 Cubic Ft. (V)			\$ 175/unit
Solid Door Freezer ≤ 30 Cubic Ft. (V)			\$ 30/unit
Solid Door Freezer 31-60 Cubic Ft. (V)	Tier 1	$0.4 * \text{Volume} + 1.38$	\$ 40/unit
Solid Door Freezer ≥ 61 Cubic Ft. (V)			\$ 50/unit
Solid Door Freezer ≤ 30 Cubic Ft. (V)	Tier 2	$0.28 * \text{Volume} + 0.97$	\$ 150/unit
Solid Door Freezer 31-60 Cubic Ft. (V)			\$ 175/unit
Solid Door Freezer ≥ 61 Cubic Ft. (V)			\$ 200/unit

Programmable Thermostats

- ENERGY STAR standard for programmable thermostats has suspended as of Dec. 31, 2009
- Incentive for installation of ENERGY STAR programmable thermostat will no longer be offered

Future Events that may Prompt Changes

- Changes to State of Utah Energy Code (IECC 2009)
- Changes to Efficiency Rating Standards
 - ▶ AHRI Standard 340/360 – IEER Ratings
- Readiness of New Measures
- Other Unknown
 - ▶ Federal Legislation
 - ▶ ENERGY STAR
 - ▶ New Technologies

Other Measures

- FinAnswer Express includes a “Custom” Incentive for other measures
 - ▶ Pre-Purchase agreement required
 - ▶ Incentive of \$0.08/kWh saved, 50% cost cap
- Calculator Tools used for Savings/Incentive
 - ▶ Indirect/Direct Evaporative Cooling
 - ▶ Milk Pre-Cooler
 - ▶ Compressor VFD (< 75 HP)
 - ▶ Window Films
 - ▶ LED Message Center Sign
 - ▶ Chillers (Space Cooling)

Wrap-Up

- Program evolves over time
- You are partners, key component of change process
 - ▶ New Products? – Tell Us
 - ▶ Provide feedback on program
 - Incentive Levels
 - What works/what doesn't
 - ▶ Keep informed
 - Work closely with Trade Ally Coordinators
 - Updates distributed in bi-monthly newsletters
 - Join the Energy Efficiency Alliance – you are the first to know!

Questions & Contact Information

rockymountainpower.net/wattsmart

Contact your Trade Ally Coordinator:

Lighting

Mark Clary

801-233-0882

HVAC

Bart DeGiorgio

801-639-5613

Motors & Other Technology

Barry Pomeroy

801-639-5610

