

Changing Times for Commercial Refrigeration

Jim Barry
True Food Service Equipment, Inc

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Three Government Agencies Involved

- Energy Star
- Department of Energy
- EPA
 - Elimination of R134A January 1, 2019
 - R404 January 1 2020

TRUE
HYDROCARBON

HYDROCARBON REFRIGERANT

THE FUTURE, NOW.



Global Warming Potential (GWP) is the relative measure of how much heat a greenhouse gas traps in the atmosphere. It compares the amount of heat trapped by a certain mass of the gas in question to the amount of heat trapped by a similar mass of carbon dioxide.

LOW GWP

REFRIGERANT

ALTERNATIVES

REFRIGERANT	GWP	ODP
R404a	3922	0
R134a	1340	0
R290 PROPANE	3	0
R600a* ISOBUTANE	3	0
R744 CO ₂	1	0

* R600a SNAP approval for commercial application in process

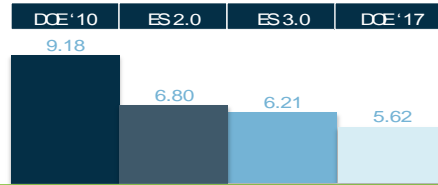


TRUE HYDROCARBON

R290 AS A SOLUTION

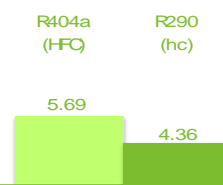
WHY HYDROCARBON? | Better Refrigerant

MAX ENERGY ALLOWABLE KWH/DAY



-23% TOTAL REDUCTION IN ENERGY CONSUMPTION

TRUE'S UNIT KWH/DAY

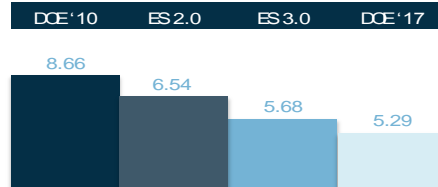


\$49 TOTAL YEARLY SAVINGS



T-23F

MAX ENERGY ALLOWABLE KWH/DAY



-29% TOTAL REDUCTION IN ENERGY CONSUMPTION

TRUE'S UNIT KWH/DAY



\$65 TOTAL YEARLY SAVINGS



GM-49



Incentives Make Energy Star Affordable!



- Energy Star Floor Fryer – \$400 Incentive
 - *Pitco VF Fryer: \$1500 Sale Price - \$400 Incentive = \$1100 for an efficient fryer!*
- Energy Star Holding Cabinet – \$1000 Incentive
 - *Metro Cabinet: \$2600 Sale Price - \$1000 Incentive = \$1600 for an efficient cabinet!*
- Energy Star Ventless Dish Machine – \$700 Incentive
 - *CMA Dish Machine:*

\$10,000 Sale Price - \$700 Incentive - \$1500 Condensate Hood = \$7800 for an efficient ventless dish machine! That's \$800 less than a traditional upright dish machine!

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Ameren Illinois Commercial Kitchen Incentives

Cash incentives are available for a variety of commercial kitchen projects, including:

- ENERGY STAR®-certified kitchen equipment upgrades
- Water heaters
- Solid or glass door freezers
- Lighting upgrades
- Free pre-rinse spray nozzle

Visit: actonenergy.com/commercial-kitchens-incentives



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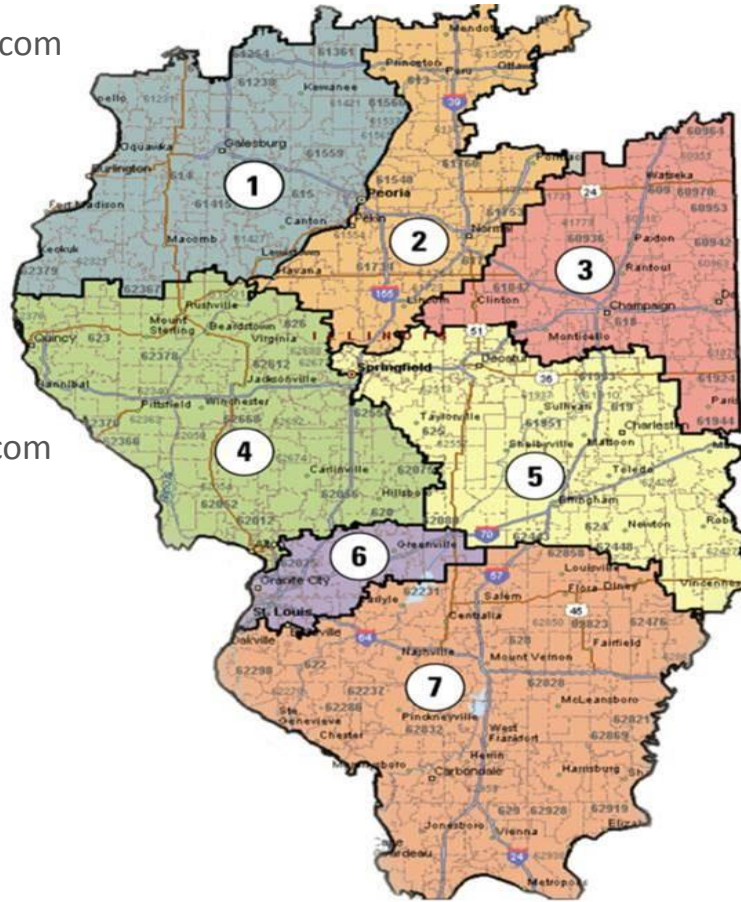
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Questions?

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