

## **ACCELERATE AMERICA AWARDS**





- Marc Chasserot's statement about Accelerate America
- Sixteen issues and counting
- Breaking down barriers
- Five awards
- Award criteria





# ACCELERATE AMERICA AWARD FOOD RETAIL





- An inspirational presentation at FMI Energy in 2010.
- Sobeys makes transcritical CO<sub>2</sub> its standard.
- 80+ transcritical stores, new and retrofit.
- 15-20 transcritical stores added annually.
- No more phase outs set for life (Yves Hugron







- 8% to 10% lower energy costs
- First costs the same or lower than HFCs
- Mostly in Quebec, but all across Canada
- Use of SEI Ian Crookston





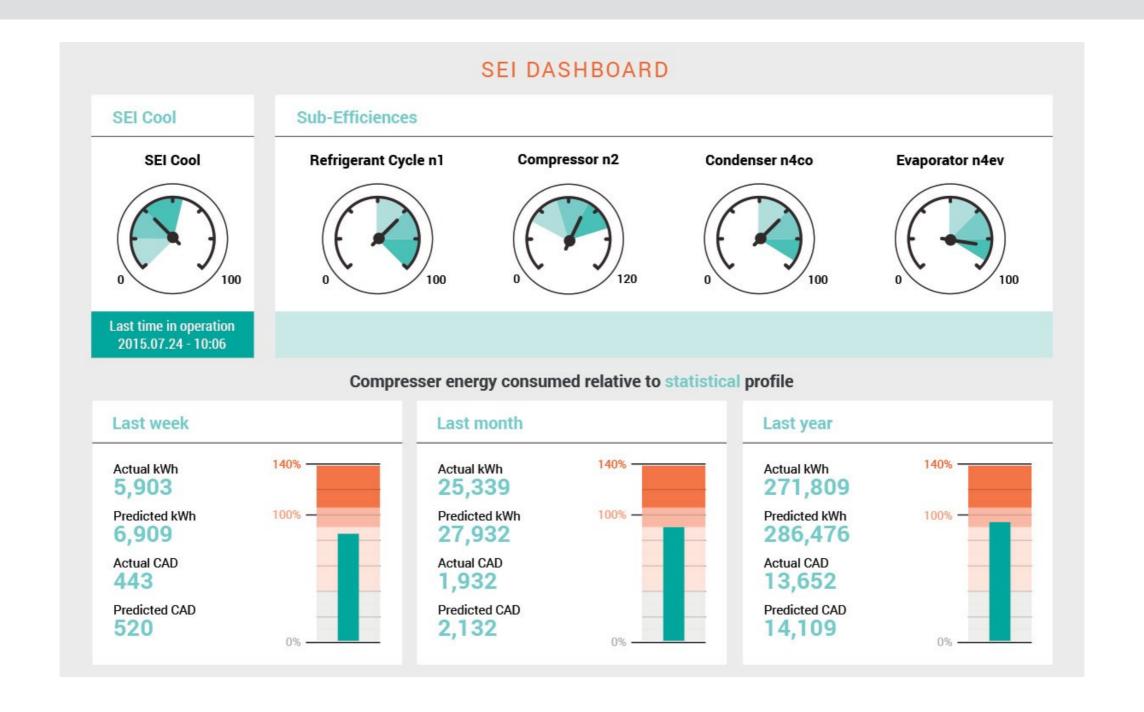
## FOOD RETAIL - SOBEYS



CO2 transcritical installations throughout Canada



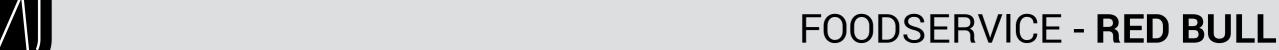
### FOOD RETAIL - SOBEYS



Using System Efficiency Index



# ACCELERATE AMERICA AWARD FOODSERVICE



- - In 2008, Red Bull decision to deploy hydrocarbon ECO-Cooler beverage merchandisers.
  - In 2011 Red Bull joined Refrigerants, Naturally!
  - ECO-Cooler = 45% less energy than conventional HFC refrigerators.
  - Only as much energy as a single 100-watt light bulb.
  - These coolers are saving retailer REAL MONEY! – Paige Dunn



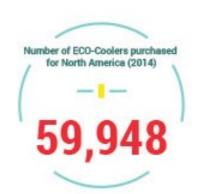


### FOODSERVICE - RED BULL

- In 2014, 65% of Red Bull's fleet use hydrocarbons,
- ECO-Cooler = Global Standard
- Last year, 500,000 hydrocarbon coolers installed worldwide.
- Training mandate, rendering it "non-issue."
- Successful petition of EPA to approve R600a for cooler













# ACCELERATE AMERICA AWARD INDUSTRIAL REFRIGERATION



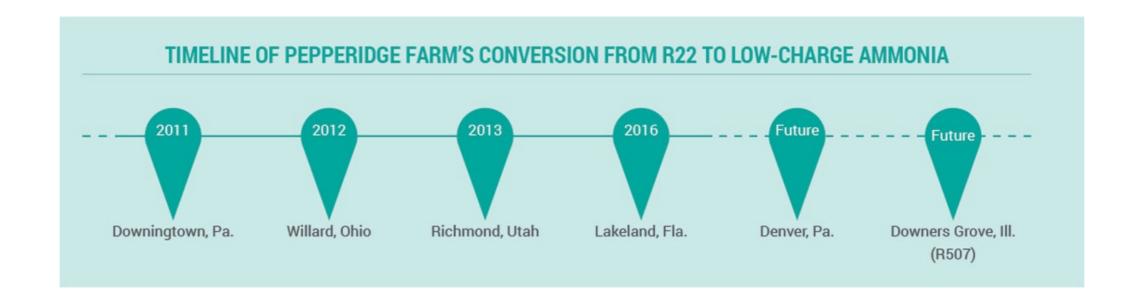
### INDUSTRIAL REFRIGERATION - CAMPBELL SOUP

- Bob Czarnecki pioneers use of low-charge ammonia in the late 1980s.
- Now Bing Cheng is carrying the torch.
- Replacing large-charge ammonia systems at thermal plants with low-charge ammonia/glycol
- Replacing R22 at Pepperidge Farm plants with similar systems.





#### INDUSTRIAL REFRIGERATION - CAMPBELL SOUP



- -- At Richmond, Utah, plant, ammonia charge is only 0.9 lbs./ton.
  - --Ammonia packages have been found to be more energy efficient than the R22 systems they replaced.
    - -- Membership in Consumer Goods Forum



# ACCELERATE AMERICA AWARD INNOVATION OF THE YEAR





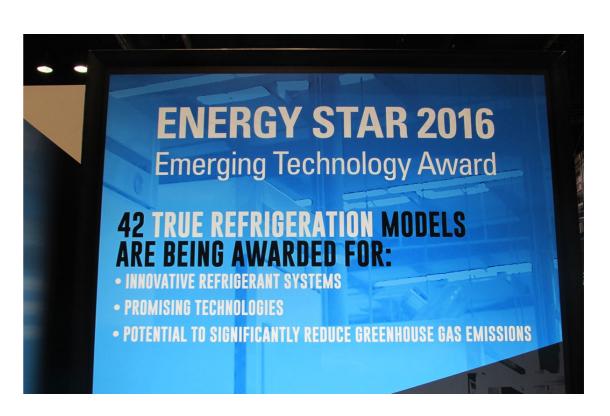
- Reading the handwriting on the wall: DOE 2017, EPA 2019/2020.
- True leads the way toward selfcontained propane refrigeration merchandisers and coolers.
- Dropping HFC models.
- Others following suit.
- EPA's 2016 Energy Star
   Emerging Technology Award for
   42 hydrocarbon units. Steve
   Trulaske and Kirsten Hesla, EP





### INNOVATION OF THE YEAR - TRUE

 42 propane units, by far the largest number of pieces of equipment one company has ever had recognized by the EPA's Energy Star program.







#### INNOVATION OF THE YEAR - TRUE

- EPA required 5% higher efficiency
- True's units are on average 25% to 30% more efficient.
- Comparable in cost to the HFC models.
- For grocery chains, convenience stores, discounters, dollar stores, restaurant chains and beverage brands.
- A GAME-CHANGER







# ACCELERATE AMERICA AWARD PERSON OF THE YEAR



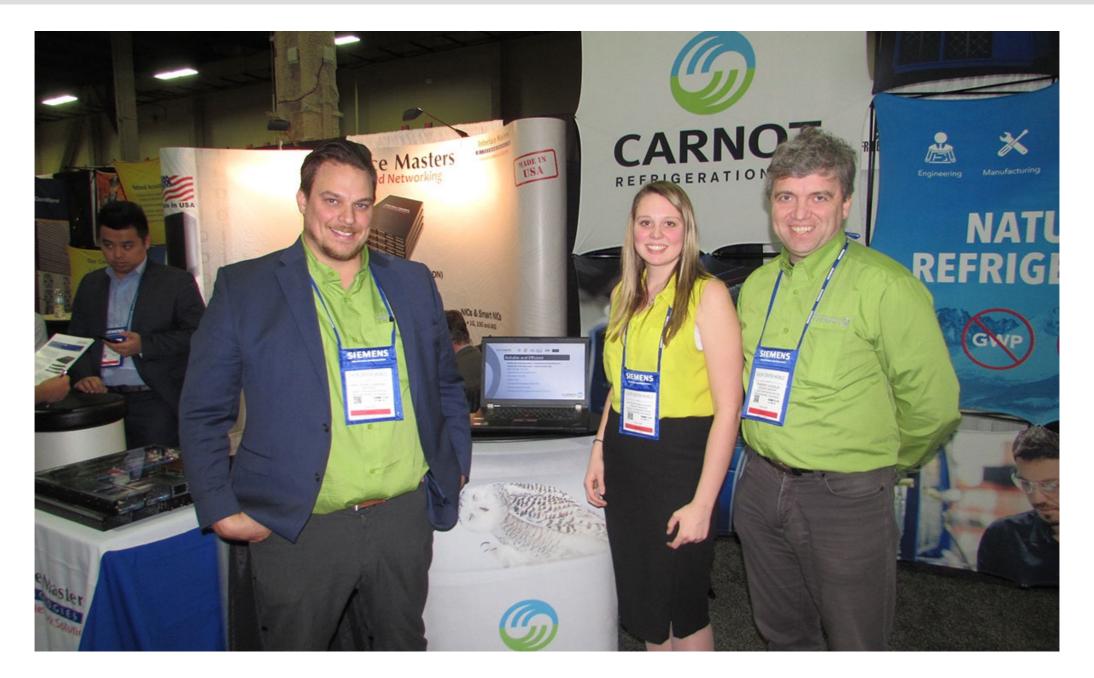
### PERSON OF THE YEAR - MARC-ANDRE LESMERISES, CARNOT

- Sobeys, the beginning of a beautiful relationship
- Supplying more than 50 of Sobeys' 80+ CO<sub>2</sub> transcritical stores.
- First U.S. transcritical store at Hannaford.
- Reacting to the European market.
- CO<sub>2</sub> for supermarkets, cold storage, food processing, ice rinks, and data centers.





#### PERSON OF THE YEAR - MARC-ANDRE LESMERISES, CARNOT



- Someone who made a huge difference.
  The courage to be first and commit to CO<sub>2</sub>.
  Opening up the marketplace.
  A CO<sub>2</sub> visionary.



Congratulations to the winners!