

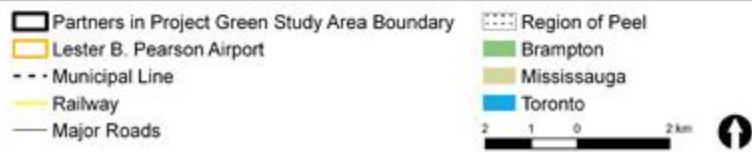
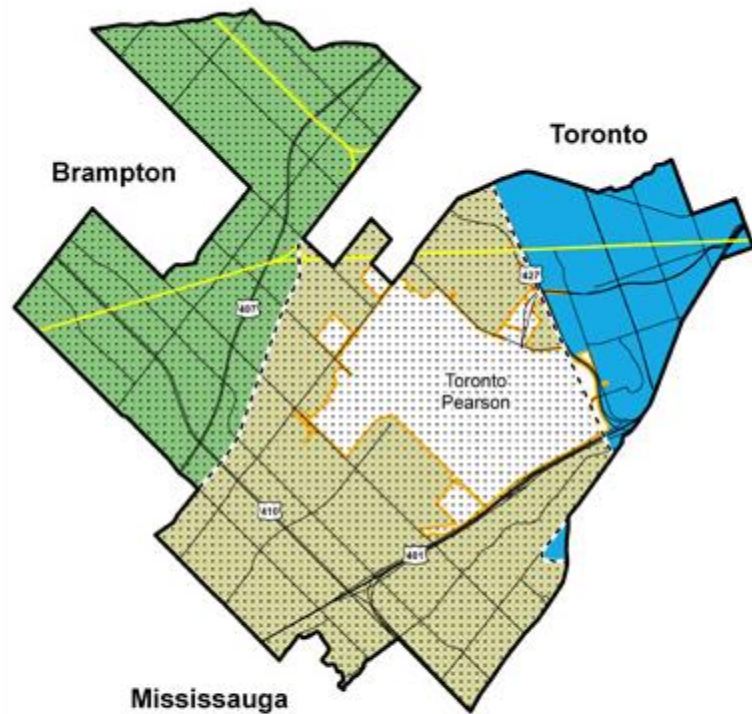
taste of success



# Molson Toronto



## Greening the bottom-line in the Pearson Eco-Business Zone



**Opportunities to gain a competitive advantage through sustainable business practices are more attainable than you might think.**

**Partners in Project Green is a growing community of businesses working together to green their bottom line by creating an internationally-recognized 'eco-business zone' around Toronto Pearson.**

# *Waste to Value*



Renewable Sustainable and profitable Solution

Turn our waste water into bio gas

Turn our spent grain into bio gas

Reduce water/sewer use

Green renewable power

Reduce our footprint

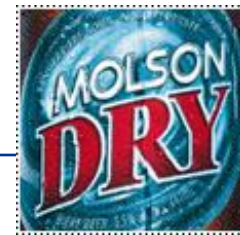
Yes a Carbon Neutral Brewery is possible



vancouver 2010  
OFFICIAL SUPPLIER

## 4 Strategic Threads

- **Establish an « Energy efficiency » culture**
- **Performance indicators, monitoring and tracking**
- **Process improvement**
- **Capex projects and New Technologies**



# 2009 top 6 Capital list



- 1. warehouse fans (de-stratification)**
  - **Capital Expenditure to Reduce energy use by 98,000 m<sup>3</sup>/year cost savings \$39,209. -less cost to operate fans \$3,555/year (net savings \$35,654 -total incentive for Enbridge \$9,802 -Cost less incentive \$111,198 -simple payback \$111,198/\$35,654=3.1 years**
- 2. packaging lighting upgrade**
  - **Project cost \$200,000 less rebate \$40,000 (\$160,000) annual savings \$68,000**
  - **\$160,000/\$68,000 2.5 years**
- 3. 3 stage centrifugal Air Compressor and dryer (audit completed, moisture audit planned)**
  - **Project cost \$400,000 less rebate \$30,000 (\$370,000) annual savings \$150,000 2.4 years payback**
- 4. Install ammonia energy control system savings Est. \$353,000/yr second quote almost complete...we plan to lease this system. I would est. cost to be \$500,000 if we completed as a project.**
- 6. Thermosyphon cooling for ammonia compressors (CO<sub>2</sub> liquifiers)**
  - **Cost \$120,000 annual savings \$60,000 2 year payback**
- 7. Insulation improvements**
  - **A. Bare lines cost \$22,000 savings \$24,000 payback 11 months**
  - **B. insultech removeable blanket insulation cost \$10,000 savings \$24,000 year 5 months**



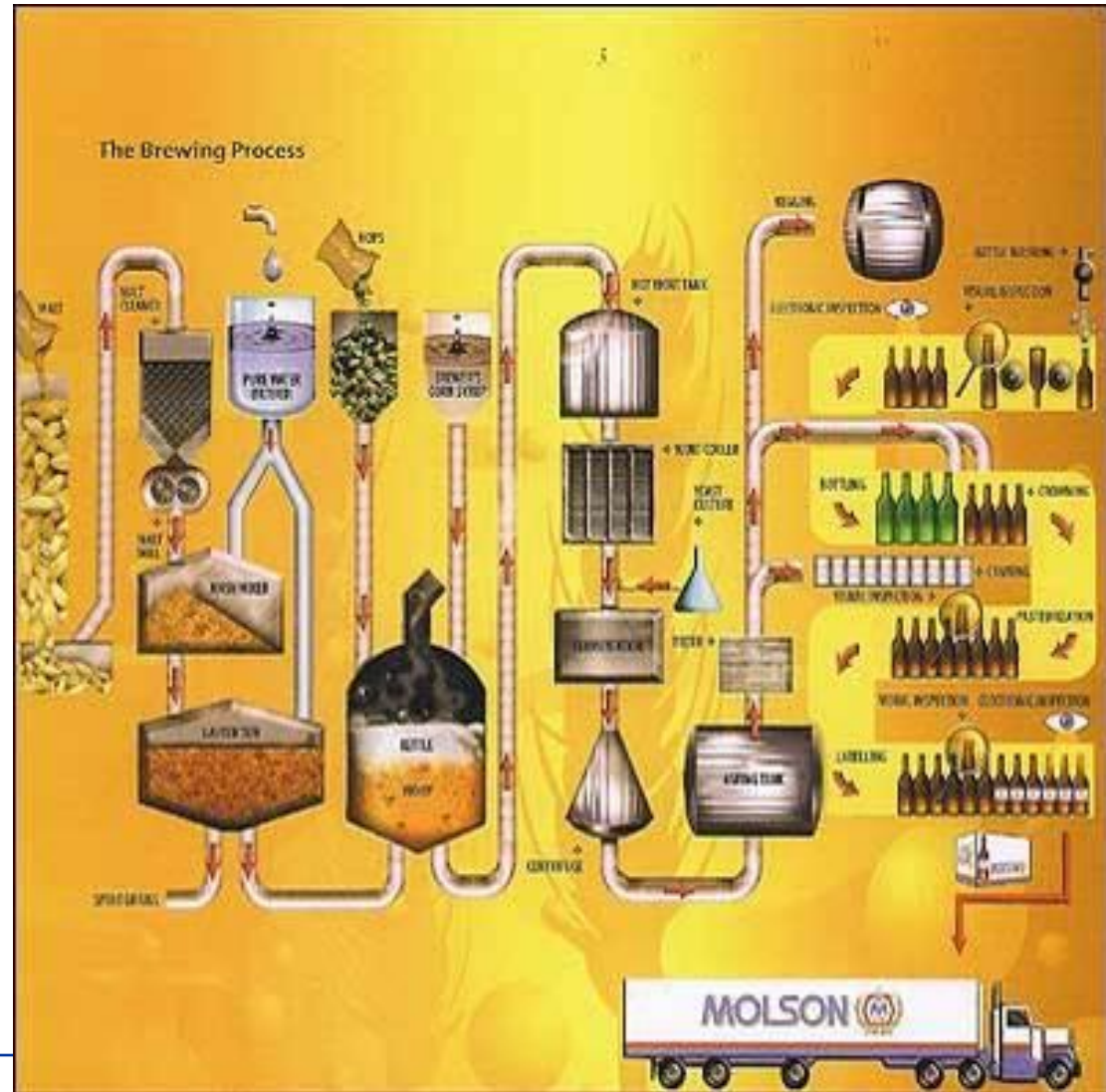
# “Prioritizing Energy Efficiency Projects Ahead of BIO Gas Installation”

- “what is the real requirement” after we reduce?
- PI study
- Energy team and what is being done to reduce energy and water use.
- Projects “don’t do them twice”

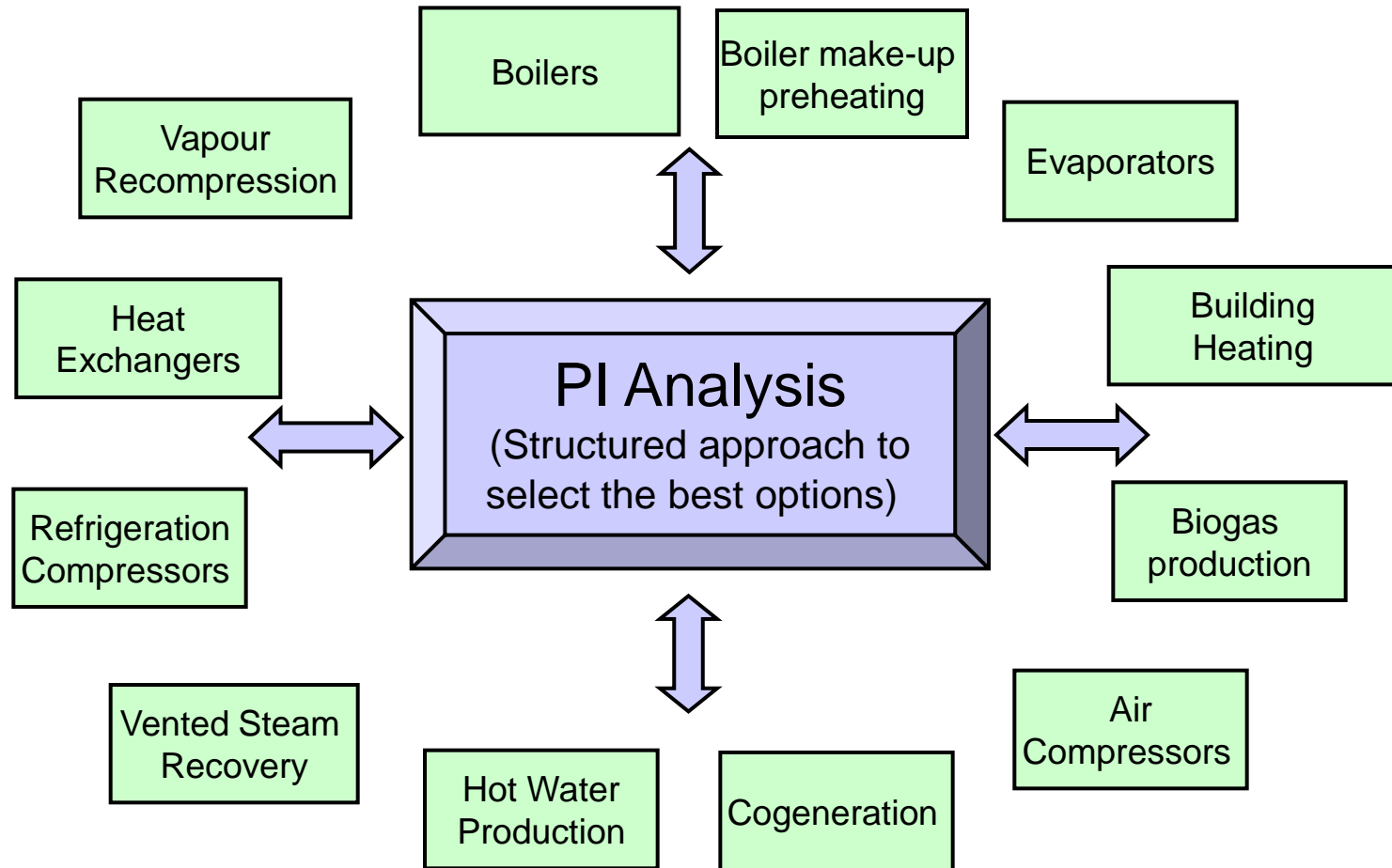
# PI Analysis and CANDET



- A site-wide analysis that looks at the **entire process**, and the **interactions** between its different parts, rather than at individual operations
- A **systematic approach** to identify opportunities in industrial processes
- **Complements** other energy efficiency strategies (process-specific audits, process control, M&T, etc.)



# What is Process Integration?



# Energy council all Plants



## Mission

- To develop a culture of responsible energy management by educating, involving and motivating our employees.

## Vision

- We are recognized as a global leader for our energy & water conservation results and innovations.

# PEOPLE

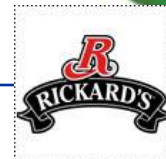
- Revamp Energy Team (Utility Council team guide lines)
- Training for energy team started more set up for May 13th
- Participated in Earth Hour 2009
- Energy Week April 19-25 (tree planting 25<sup>th</sup>)
- Power house and brew house team In TO star
- T5 WCM team for water reduction
- Brewing team CIP water/chemical
- Molson CIPEC leader

• CIPEC (Canadian Industrial Program for Energy Conservation)

# Energy Week



<http://blog.molson.com/community/>

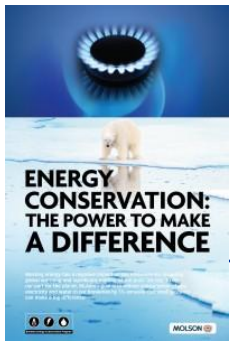
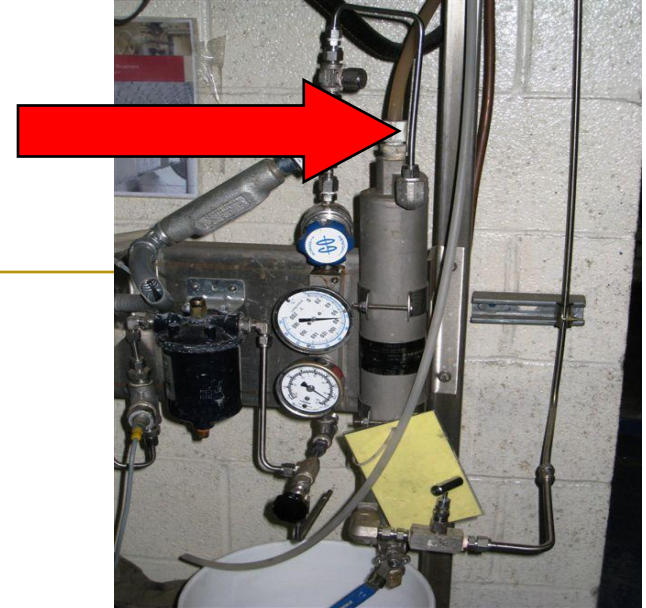


# POWER HOUSE WATER SAVINGS

16.3 liters/min

8,569,664 liters of water/year (\$14,250) is now recovered from Nexguard control system....It is now used for cooling water sump make up.

Doug Gow and DS Tran  
**WAY TO GO GUYS**



Also in  
TO star and Our Brew

# RO Project

Water/Energy/Chemicals/Safety/Ergonomics 5 wins



*Combined Yearly Savings:= \$75,000+  
(natural gas 447,443 mcf)  
(6 million gallons water)*



imagination at work

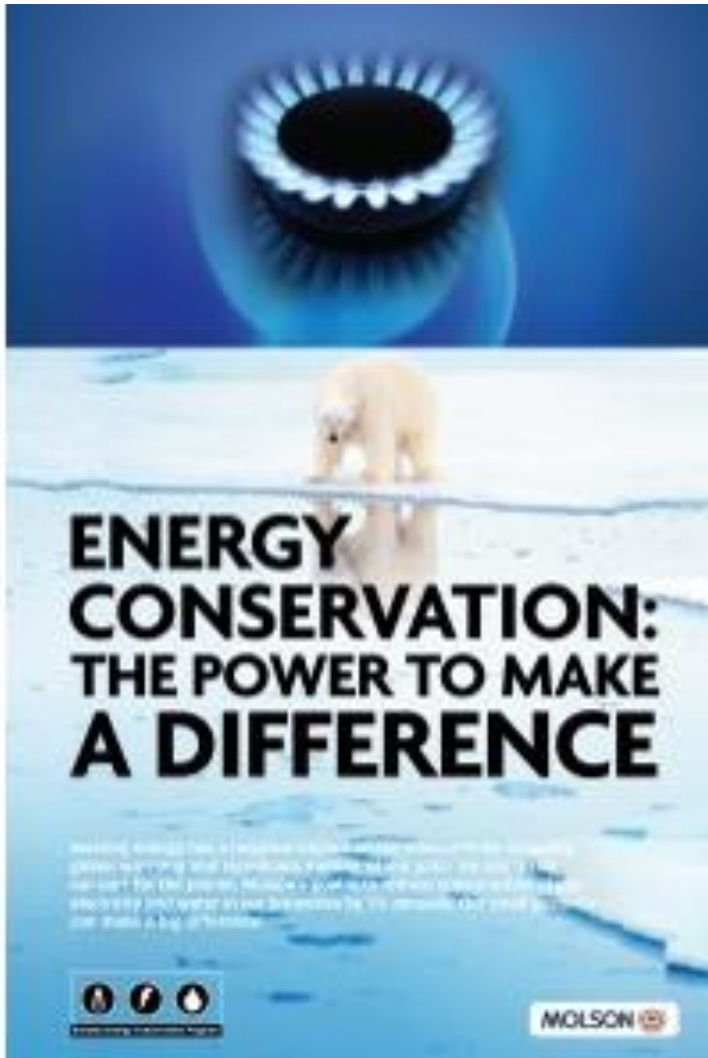


WORLDWIDE PARTNER

# THE POWER TO MAKE A DIFFERENCE



Energy week  
kick off campaign

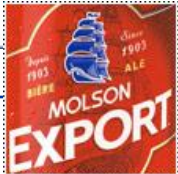


**THE POWER TO MAKE A DIFFERENCE**

 **MOLSON** 

Brewery Energy Conservation Program

	OBJECTIVES	RESULTS	VARIATION	VARIATION % YEAR TO DATE
<b>GAS</b>	 <b>117</b> MJ/hl	<b>97</b> MJ/hl	<b>20</b> MJ/hl	<b>TBD</b> %
<b>ELECTRICITY</b>	 <b>31.6</b> MJ/hl	<b>27.9</b> MJ/hl	<b>3.7</b> MJ/hl	<b>TBD</b> %
<b>WATER</b>	 <b>5.90</b> hl/hl	<b>5.19</b> hl/hl	<b>0.71</b> hl/hl	<b>TBD</b> %





# Wrap-up: what will we all gain together?

- We'll save our natural resources for generations to come.
- We can start to reverse the effects of environmental impact such as global warming.
- We can create a better world for our children.
- We all have the power to make a difference.

