

Western New York Sustainable Business Roundtable

Creating an environmentally and economically resilient Buffalo-Niagara

MATERIALITY

Measure What Matters

12.3.14

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Measure What Matters

- WHY? Metrics embed sustainability into planning, decision making, and culture
- Entity specific: What do your stakeholders care most about?
- Based on quantitative and qualitative factors
- Be prepared to educate and collaborate with your colleagues
- Start with baseline and set improvement targets
 - ➤ What levels can we achieve while growing our business?
 - ➤ What will the projects involved cost us?
 - > How quickly can we achieve the goals?
 - ➤ How will others perceive the goals?
- Awareness of emerging metrics to consider
 - > Absolute
 - > Intensity
- Frame of reference
 - ➤ Where do we stand relative to our competitors?
 - > Look at competitors, customers and similar companies (i.e. size, revenue, location, industry)
 - > Benchmark data becoming easier to collect thanks to the internet and growing trend towards corporate reporting

SMARTT metrics

- Specific
- Measurable
- Actionable
- Relevant
- Timely
- Transparent

Metrics to consider in support of WNY-Sustainable Business Roundtable Pledge

We commit to becoming a thriving and resilient business by establishing and implementing a sustainability plan that:

- reduces waste and pollution

Reduce waste to landfill by 50% in 2015, compared to 2014 baseline Adopt green cleaning practices

- protects our waterways

Gallons of water saved per year

- optimizes use of energy and materials

Track kwh saved monthly per unit produced Incorporate sustainability criteria into procurement policy

- invests in our communities

Measure volunteer hours for company employees each year

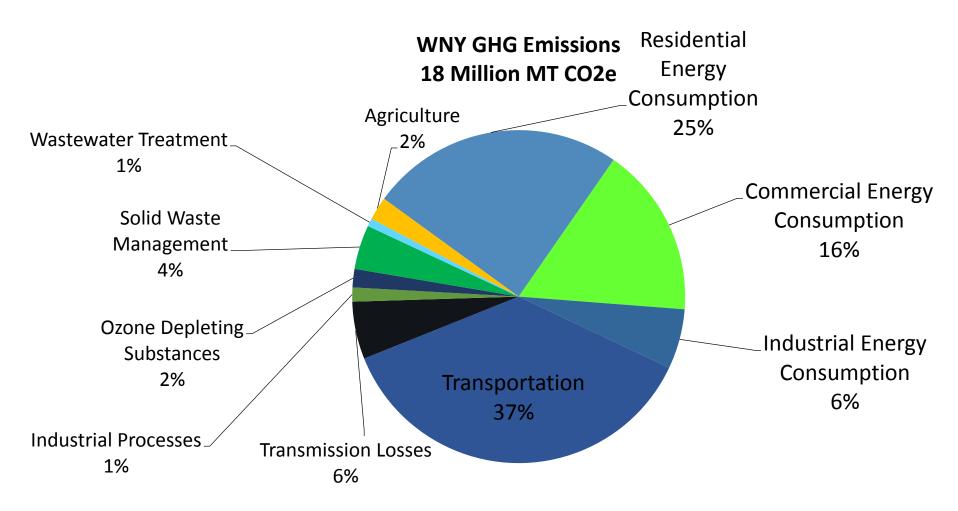
We will accomplish this in a transparent and measurable way that, collectively, with the efforts of other WNY organizations, reduces the severity of global climate change.

Materiality Exercise @ Rich Products

- As a frozen food manufacturer, we suspected energy was a significant part of Rich's environmental footprint.
- Energy audit of Rich's US manufacturing network revealed that 81% of Rich's energy costs were from electricity.
- How can we improve Energy Efficiency?
 - > Gathered fact-based information to establish baselines for each facility
 - > Collaborated with plant associates on opportunities for improvement
 - > Estimated costs, ROI, and resources to implement the ideas
 - > Included this as part of our strategic business planning process
- This put us in a better position to prioritize, fund, and sequence projects across the business.
- As a result, 100+ energy projects have been completed since 2010!

Graphics are helpful in conveying detailed info

WNY Regional GHG Inventory



Does not include Electricity Generation or Forest/urban tree sinks

First Step: Understanding current energy usage

2012 Energy Consumption / Cost

2012 Energy Consumption

Electricity Cost = \$20,983,649

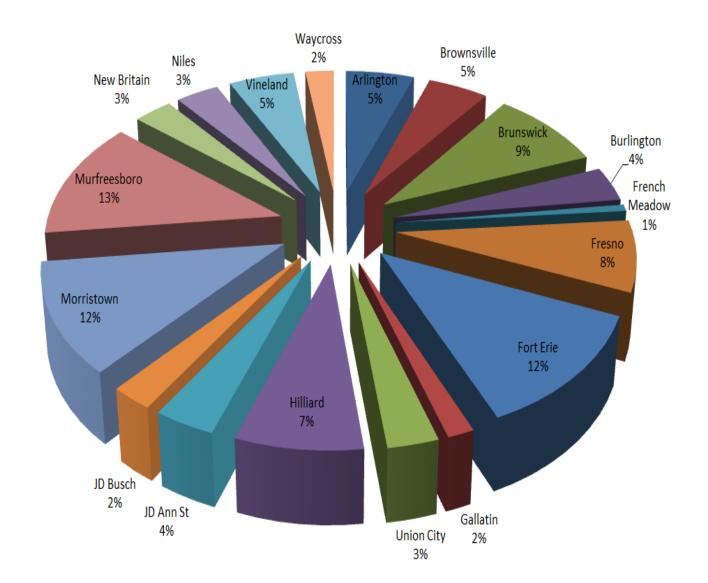
Natural Gas Cost = \$5,675,095

TOTAL ENERGY COST = \$26,658,744

COMPARE WITH INDUSTRY DATA

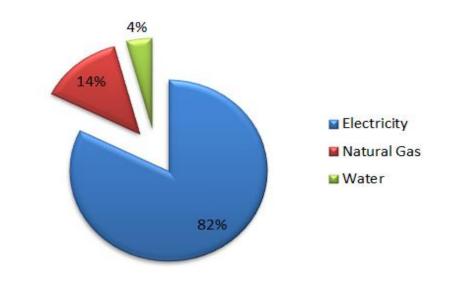
- 1. Electricity is 83% of our total energy cost.
- E&W combined was 1.6% of net sales. Most companies are <5% energy:revenue ratio.
- 3. Gas = \$0.60/therm; Electricity = \$0.08/kwh
- 4. Energy Indicator national average food industry = 1.84 (1.68 for bakeries and 2.27 for seafood). Increased from 0.78 (2002) to 1.84 (2006).
- 5. Food industry average: 47% of energy expense on electricity. We spend 81% on electricity (due to frozen food environment)

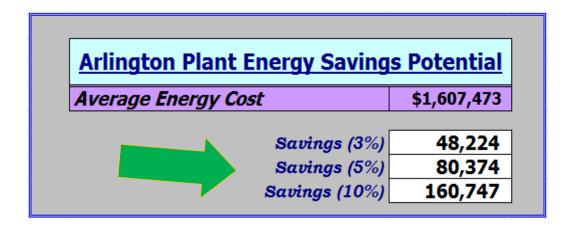
Electricity Cost



Second Step: Calculate potential savings & ROI on projects to achieve target

Arlington Plant: Energy Consumption (2012)





Metrics: Energy

☐ Baseline @ each facility ☐ Intensity ☐ KWH per lb of product manufactured ☐ KWH per case of product manufactured ☐ Total Usage ☐ Electricity ■ Natural Gas ☐ Track Cost Savings; report @ monthly "E&W deep dives" ☐ Convert to C02e to quantify GHG emission reduction

Enablers:

- ✓ Automated Energy Management System
- ✓ Targets & reporting built into business planning process (ROCS)

Share Success Stories: Internally & Externally

Refrigerated Energy Management System

Union City, CA



- EMS projects utilize technology to track, collect and analyze energy data
- Information used to identify and target opportunities
- Drives efficiency of refrigeration system based on production schedule, equipment load and demand
- In Union City, automated REMS now controls the engine room (compressors and condensers), spiral freezers, holding freezer, dock, yeast cooler, HVAC and exhaust units
- Look closely at exact refrigeration temperatures / energy needs relative to quantity of product in refrigeration unit
- Manually or automatically shut down motors and machines during downtime in order to reduce energy usage

Include TRENDS in sustainability plan updates &

Determine potential impact to your business

11.11.14 Historic Climate Change Deal

- U.S. President Barack Obama and Chinese President Xi Jinping announced both countries will curb their greenhouse gas emissions over the next two decades.
- United States pledged to cut its 2005 level of carbon emissions by 26-28% before the year 2025.
- China would peak its carbon emissions by 2030 and will also aim to get 20% of its energy from zero-carbon emission sources by the same year.