dear zcob,

It is our pleasure to present the first ever Planet Zing annual report. Our committee has been hard at work this year – working together to learn and share our best practices with each other and as champions for zero waste and sustainability within our individual businesses.

Our members developed and completed a lean passport, developing a deeper understanding of the 8 wastes and how to continuously improve. Our goal was to understand how these lean principles overlapped with our existing ideas of zero waste and environmental sustainability and to be able to put these lean principles into practice in our businesses. We will continue this learning in the upcoming fiscal year, putting our efforts into the BLC process and sharing our passport with other staff within our businesses and across the ZCoB.

Information collection is an important aspect of our open book management and also our commitment to continuous improvement. To that end, we’ve continued our collection of information about greenhouse gas usage across the ZCoB. You will see this information presented in this report for each business and ZCoB-wide as a percent of total sales. Our efforts are having an impact! ZCoB wide, our use of greenhouse gases as decreased as a percent of total sales from last year. Keep up the good work!

Please enjoy reading about all of our prouds and accomplishments - from our committee and for each of our businesses.

Sincerely,

planet zing

Rodger, Andrew, Lisa, Tara, Craig, Betsy, Roxanne, Jen, Zach, Tom, Jenny, and Kyle

many thanks to Ashley Brink from the Deli for making the amazing greenhouse gas charts
Committee Vision

Zingerman’s Community of Businesses is committed to improving its environmental impact by applying the principles of sustainability and Lean in the pursuit of eliminating waste.

To this end, Planet Zingerman's will:
• Facilitate realization of the ZCoB 2020 environmental Stewardship Vision
• Build our organizational capacity through collaborative and responsive partnerships with partners, staff and satellite Planet working groups or representatives in each business
• Nurture, advise and document ‘‘the development of creative solutions to improve our environmental impact—throughout the ZCoB, from the smallest steps to larger initiatives
• Develop, gather and report metrics that track 1) progress in specific areas of action towards zero waste 2) overall environmental impacts of doing business.
• Motivate and educate ZCoB staff and the wider community by reporting ZCoB successes actively and often, sharing best practices, and developing recipes and curriculum on Zero Waste

Planet Zingerman's believes that learning to grow our businesses within the natural capacity of our environment will prepare the ZCoB for a long and prosperous future, provide meaningful service to our community, and make us smarter, stronger and happier. It is our mission to facilitate this work.

2015-2016 committee zap goals

BECOME LEAN STEWARDS
• committee members learn more about lean principles
• hold a learning demonstration of lean as a zing 100

MEASURING AND REPORTING GREEN
• every department/business has a line related to zero waste on their DOR board
• track individual goals/objectives and share throughout the zcob to promote inter-business learning
• PZ has a regular presence at PG meetings
• develop an annual report for the zcob

GROWING GREEN STAFF (the people)
• engage and educate staff about green initiatives
• support the start of at least 1 more Planet Satellite committee
• orient and educate new employees about zero waste goals
in sept 2015, we asked staff how personally committed they were in their workplace to helping planet zing achieve our vision we got a zxi score of 46

highlights

• created a lean passport for committee members that included classes, reading, and a tour of Mail Order
• committee members completed the passport
• committee members help departments/businesses select key measures related to zero waste that are linked to business ZAP goals
• committee members learned about the 8 wastes and identified examples of waste in their businesses and documented how these wastes could be or had been improved
• worked with D4P and got some lean/sustainability questions on the Feelin Groovy survey with the goal of raising awareness in the organization about the 8 wastes. Committee members spent time with the survey responses and created a list of actionables.
• held a lean learning demonstration for the ZCoB at the ZAP kickoff in April
• committee members helped their businesses create zero waste key measures on DOR boards and regularly tracked and reported them back to Planet Zing
• Zero waste business goals/objectives were recorded in the Planet Zing google doc and progress was tracked by committee throughout the year
• best practices/challenges were shared with the committee
• greenhouse gas spreadsheet is updated regularly throughout year and shared with PG
• committee members supported and promoted alternative forms of commuting within their businesses, including being champions for the GetDowntown program’s Commuter Challenge
2014-2015 Energy Percentage of Total Sales

1.02% of Sales

- Natural Gas
- Propane
- Gas
- Electricity

2015-2016 Energy Percentage of Total Sales

.90% of Sales

- Natural Gas
- Propane
- Gas
- Electricity


2014-2015 Fossil Fuel Cost
2015-2016 Fossil Fuel Cost
Highlights

- 20,000+ pounds of local produce (including 10,000 pounds of sauerkraut)
- turned 6363 unsold bagels into over 1400 pounds of bagel chips and $14,138 in retail sales
- Planet Deli learns lean
- Planet deli started 5 BLCs focused waste reduction
- hosted a dinner for 50 people to discuss sustainably raised beef
- designed and sold approximately 450 reusable, canvas yellow bags
- countless lean improvements around deli
- conducted a recycling audit
- participated in city workgroup to expand compost options and provided public testimony to City Council and Environmental Commission
- switched to metal sample spoons for retail and gelato – saving over 200,000+ plastic spoons from the landfill
- explored reusable or compostable products for many disposable items
- planet deli newsletter and new t-shirts
- Rodger talks at city forum at downtown library about sustainability
- corned beef and sandwich bread kata teams
2014-2015 Energy Percentage of Total Sales

- 0.86% of Sales

2015-2016 Energy Percentage of Total Sales

- 0.78% of Sales


- Natural Gas
- Propane
- Gas
- Electricity

2014-2015 Fossil Fuel Cost

2015-2016 Fossil Fuel Cost
**Highlights**

- Power study and recommendations for improvements
- New transformer installed
- New lighting system in front and back of buildings
- Tom hired Teri as a lean apprentice
- Multiple kata groups in service center and warehouse
- More staff involved with lean/kata tours & conferences
- New signage for waste in breakroom
- Improved recycling during holiday season & year-round
- More/bigger/better garden plus a 2020 vision
- Improved compost system for the garden including jazz pack waste
- Green notes published monthly
- New rain garden installed & Tara is master rain gardener trained
- Over $1170 in total savings to EM program from ZMO Gardens

- Planet Zing is looking for a new rep from ZMO to replace an outgoing member!

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**ZMO Garden Production This Fiscal Year**

<table>
<thead>
<tr>
<th>Vegetable</th>
<th>Weight (lbs)</th>
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<tbody>
<tr>
<td>Asparagus</td>
<td>12.23</td>
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<tr>
<td>Peppers</td>
<td>11.96</td>
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<tr>
<td>Broccoli</td>
<td>15.30</td>
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<tr>
<td>Root Vegetables</td>
<td>17.81</td>
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<tr>
<td>Garlic</td>
<td>24.50</td>
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<tr>
<td>Squash &amp; Cucumbers</td>
<td>24.64</td>
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<tr>
<td>Greens</td>
<td>18.55</td>
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<tr>
<td>Tomatoes</td>
<td>198.72</td>
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<tr>
<td>Herbs</td>
<td>16.44</td>
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</table>

**Total:** 340.10 lbs.
2014-2015 Energy Percentage of Total Sales

- Natural Gas: .37% of Sales
- Propane: .40% of Sales
- Gas: .40% of Sales
- Electricity: .37% of Sales


- Natural Gas
- Propane
- Gas
- Electricity

2014-2015 Fossil Fuel Cost
- Aug: $0.00
- Sept: $1,750.00
- Oct: $3,500.00
- Nov: $5,250.00
- Dec: $7,000.00

2015-2016 Fossil Fuel Cost
- Jan: $7,000.00
- Feb: $5,250.00
- Mar: $3,500.00
- Apr: $1,750.00
- May: $0.00
- Jun: $1,750.00
- Jul: $3,500.00
(Image of a chart showing progress through the fiscal year with highlights listed alongside)

**Highlights**

- **Improved waste system:** Color-coded bins in multiple waste stations for production and retail, all with compost, recycling, and landfill containers. All clearly labeled, and have pictured examples on the signs!
- **Half of waste now composted:** Paper towels, wasted cheese, other organic waste.
- **Writing and re-writing SOPs!**
- **Lean steward:** Roxanne finished the lean passport and working with Tom and Teri on lean improvements in all departments.
- **New delivery vehicle - C.O.W! (Creamery On Wheels):** Great service to customers, product and staff.
- **In-house label printing:** Lowers inventory, lowers time between ordering and receiving labels (less than one hour vs. 3-4 weeks), reduces total number of labels needed on each product, and allows us to make new labels with lower upfront cost (no die cuts).
- **HACCP documentation:** Working on certification!
- **Lowered disposable waste:** Using metal spoons for staff tasting.
- **Innumerable improvements to come:** In the long awaited build-out!
2014-2015 Energy Percentage of Total Sales

1.42% of Sales

- Natural Gas
- Electricity

2015-2016 Energy Percentage of Total Sales

1.22% of Sales

- Natural Gas
- Electricity


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<td>$2,000.00</td>
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<td>Jun</td>
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<tr>
<td>Jul</td>
<td>$6,000.00</td>
<td>$6,500.00</td>
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- 2014-2015 Fossil Fuel Cost
- 2015-2016 Fossil Fuel Cost
• new rack washing system individually washes the 550 – 700 racks we need every day. Holiday rack needs can exceed 900 clean racks.
• new rack tracking system allows us to track specific racks to specific locations
• Jen became a conservation steward through MSU extension
• reducing food waste in Bakeshop & overall Bakehouse wide composting efforts
• drivers bringing back plastic wrap 30% to guarantee recycling, without jeopardizing food safety & great service.
• improved recycling bins, sorting, education
• new cement ramps in truck bays eases the delivery department's physical effort in loading & unloading
• creating new SOPs and improving existing SOPs

• Candy follows similar systems for trash, recycling and compost collection within the Bakehouse
• Planet Zing is looking for a rep from Candy!

recent new packaging for the chocolate covered coffee beans upcycles burlap coffee sacks

2014-2015 Energy Percentage of Total Sales:
- Natural Gas: 1.94% of Sales
- Propane: of Sales
- Gas: of Sales
- Electricity: of Sales

2015-2016 Energy Percentage of Total Sales:
- Natural Gas: 1.63% of Sales
- Propane: of Sales
- Gas: of Sales
- Electricity: of Sales

*Total Bakehouse and Candy Sales
buckets of coffee grounds sent to ZMO for garden compost

highlights

• clear signage posted around café for compost, recycling, and landfill
• rolled out compostable paper cups for ZCoB and outside wholesale
• installed dual-flush toilet in guest bathroom for water savings
• partnered with ZMO to divert a portion of our coffee grounds to their gardens

• Planet Zing is looking for a new rep from the Coffee Company to replace an outgoing member!

2014-2015 Energy Percentage of Total Sales: 97% of Sales

2015-2016 Energy Percentage of Total Sales: 74% of Sales

Natural Gas, Propane, Gas, Electricity

2014-2015 Fossil Fuel Cost

2015-2016 Fossil Fuel Cost
 highlights

- recycling and compost improvements including compost tracking on the DOR
- new compost/recycling/landfill signage for many ZCoB businesses
- lean learning for staff such as improving project management in M&G
- LED lighting in warehouse
- improved HVAC system
- explored ways to reduce the number unused newsletters
- proposal from SRI Energy for solar installations across ZCoB

2014-2015 Energy Percentage of Total Sales

.66% of Sales

2015-2016 Energy Percentage of Total Sales

.56% of Sales

<table>
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<tr>
<th>Month</th>
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<th>Gas</th>
<th>Electricity</th>
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<tr>
<td>Feb</td>
<td>$1,900.00</td>
<td>$1,425.00</td>
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<tr>
<td>Mar</td>
<td>$1,425.00</td>
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<td>$500.00</td>
<td>$1,000.00</td>
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<tr>
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<td>$1,900.00</td>
<td>$1,425.00</td>
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<tr>
<td>May</td>
<td>$1,425.00</td>
<td>$1,900.00</td>
<td>$500.00</td>
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<td>Jun</td>
<td>$1,900.00</td>
<td>$1,425.00</td>
<td>$500.00</td>
<td>$1,000.00</td>
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<tr>
<td>Jul</td>
<td>$1,425.00</td>
<td>$1,900.00</td>
<td>$500.00</td>
<td>$1,000.00</td>
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2014-2015 Fossil Fuel Cost

2015-2016 Fossil Fuel Cost
• tracked usage on DOR board of copier paper usage and identified opportunities to print and copy less
• in the second year of tracking paper usage, found that paper usage correlates with sales (bigger sales months = more paper usage)
• Planet Zing is looking for a rep from ZingTrain!

- 2014-2015 Energy Percentage of Total Sales: 0.37% of Sales
  - Natural Gas
  - Electricity

- 2015-2016 Energy Percentage of Total Sales: 0.33% of Sales
  - Natural Gas
  - Electricity

2014-2015 Fossil Fuel Cost
- Jan: $600.00
- Feb: $800.00
- Mar: $400.00
- Apr: $200.00
- May: $800.00
- Jun: $600.00

2015-2016 Fossil Fuel Cost
- Jan: $800.00
- Feb: $800.00
- Mar: $600.00
- Apr: $400.00
- May: $800.00
- Jun: $600.00

2014-2015 vs 2015-2016 Energy Percentage of Total Sales:
- Natural Gas:
  - 2014-2015: 0.37%
  - 2015-2016: 0.33%
- Electricity:
  - 2014-2015: 0.33%
  - 2015-2016: 0.37%
• Planet Zing is looking for a rep from Cornman Farms!
2014-2015 Energy Percentage of Total Sales

- 2.5% of Sales

2015-2016 Energy Percentage of Total Sales

- 2.62% of Sales


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<td>Jun</td>
<td>$2,100.00</td>
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<tr>
<td>Jul</td>
<td>$2,200.00</td>
<td>$2,300.00</td>
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</table>
• major equipment upgrades to increase energy efficiency
• compost taken to Cornman Farms
• Cornman Farms grows food for the restaurant!

• Planet Zing is looking for a rep from the Roadhouse!

2014-2015 Energy Percentage of Total Sales

1.5% of Sales

Natural Gas
Electricity

2015-2016 Energy Percentage of Total Sales

1.33% of Sales

Natural Gas
Electricity

2014-2015 Fossil Fuel Cost
2015-2016 Fossil Fuel Cost
highlights

• composting all of the Roadhouse kitchen scraps combining with animal bedding for soil fertility. Diverts tons of waste from the waste stream every year
• use drip irrigation for watering
• cover cropping in the fall so no soil is left bare and we’re therefore capturing and holding the nutrients in the soil rather than letting them run off with rain (many nutrients are water soluble and will leach from the soil and pollute rivers, lakes, and wells.
• make our own compost tea with added sea nutrients for extra fertility during flowering and fruit ripening (no synthetic nitrogen, etc)

• Planet Zing is looking for a rep from the Roadhouse Operations!

- **2014-2015 Energy Percentage of Total Sales**: 7.6% of Sales
  - Natural Gas
  - Electricity

- **2015-2016 Energy Percentage of Total Sales**: 1.54% of Sales
  - Natural Gas
  - Electricity

**Cornman Farms Fossil Fuel Cost Comparison for 2014-2015 & 2015-2016**

- **Natural Gas**
- **Electricity**

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<tbody>
<tr>
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