



Commit. Act. Impact.



COMMIT. ACT. IMPACT.

Climate Collaborative Commitment Areas



Integrate carbon farming
into the agricultural
supply chains



Increase energy
efficiency



Reduce food-waste in
the supply chain



Remove commodity-
driven deforestation
from supply chains



Responsible
engagement in
climate policy



Reduce the climate
impact of packaging



Commit to 100%
renewable power



Reduce short-lived
climate pollutant
emissions



Reduce climate
impacts of
transportation

How many companies have committed?

225+

Companies
Committing to Action

800+

Commitments

How many companies have committed?

Justin's



gaia
HERBS

225+

Companies
Committing to Action

800+

Commitments



Community
FOOD CO OP



Veritable
Vegetable



REBBL

seventh
generation



Independent
Natural Food
Retailers
Association



MegaFood
Fresh From Farm To Tablet™

nutiva
NURTURE VITALITY™



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Tell your story!



"The business community must lead the way toward climate change solutions. Our investment in solar power for our bakery is an example of a win-win for sustainability and the bottom line, and we hope our positive experience can help other businesses head down a similar path."

AARON ANKER
CHIEF GRANOLA OFFICER
GRANDYOATS



2018 Tracking Progress

This short survey enables us to track and share the impact that companies are having as they work toward implementing their climate commitments.

- One response is needed per company
- You only need to provide information for the commitments your company has made
- No measurement or metrics reporting is required, and we have kept the update as short as possible to remove any reporting burden on your end



Climate Collaborative 2018 Tracking Progress Update

9. What other commitments have you made? Please select one at a time.

- | | |
|-----------------------------------------|--------------------------------------------|
| <input type="radio"/> Agriculture | <input type="radio"/> Policy Engagement |
| <input type="radio"/> Energy Efficiency | <input type="radio"/> Renewable Energy |
| <input type="radio"/> Food Waste | <input type="radio"/> SLCPs |
| <input type="radio"/> Forests | <input type="radio"/> Transportation |
| <input type="radio"/> Packaging | <input type="radio"/> No other commitments |

PREV

NEXT

What are the questions we ask?

- **Has your company started implementing the commitment?**
 - We have made the commitment but have not yet determined how we will approach implementation.
 - We have made the commitment and are in the midst of planning how we will take steps to implement it.
 - We have completed the planning process and have begun taking steps on implementation.
 - We have made good progress on implementing the commitment.
 - We have taken robust steps to implement the commitment and are seeing results.
- **Are you quantifying the emissions reductions from these actions?**
 - Yes
 - No
 - If yes, please describe measurement and progress: _____
- **[Optional]: Please provide any further details on progress against this commitment, especially as it relates to emissions reductions and/or finding business value through your climate action.**

Other questions:

- **Is filling out the survey required?** All committed companies that made commitments before January 1, 2018 are expected to provide a short annual update on their progress.
- **What if we haven't made any progress yet?** Let us know where you are in your journey to implement commitments, even if it's just planning. You'll be able to provide context and information on any challenges to implementation you're encountering, from resource barriers to financial constraints and more.

The Climate Impact Reporting Journey

Digging Deeper into Climate Metrics

30. April. 2018



- The Journey
- Metrics Types & Reporting Examples
- Reporting Examples and Tips
- Tools & Calculators



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Trade Association
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ABOUT SFTA



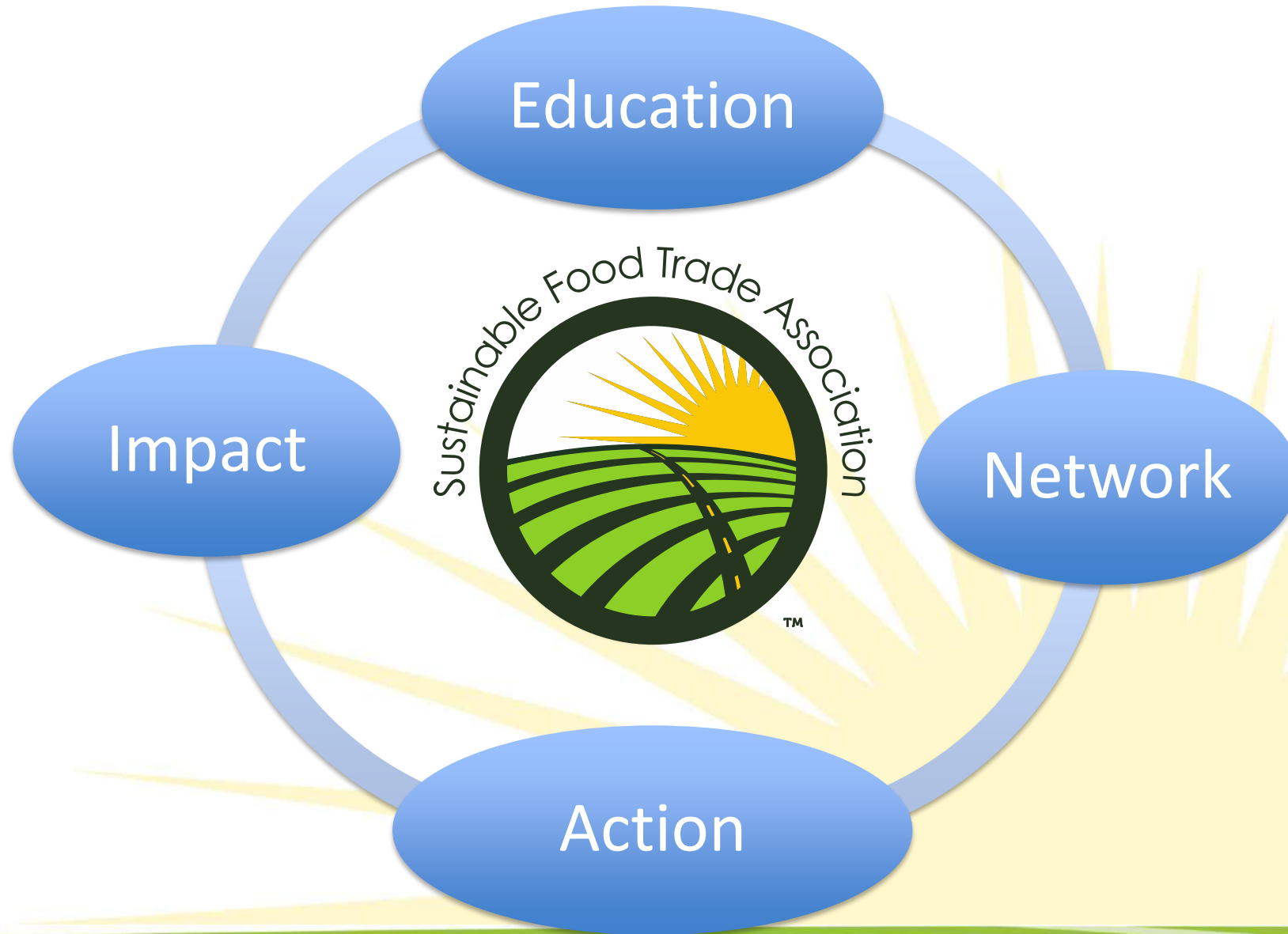
Mission

Build the capacity of the organic food trade to transition to sustainable business models.





About SFTA



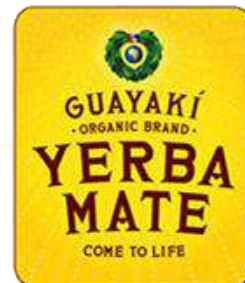


THANK YOU to our SPONSORS!!

Annie's



Stonyfield
ORGANIC

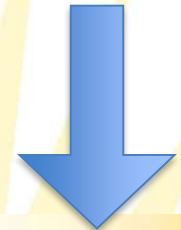


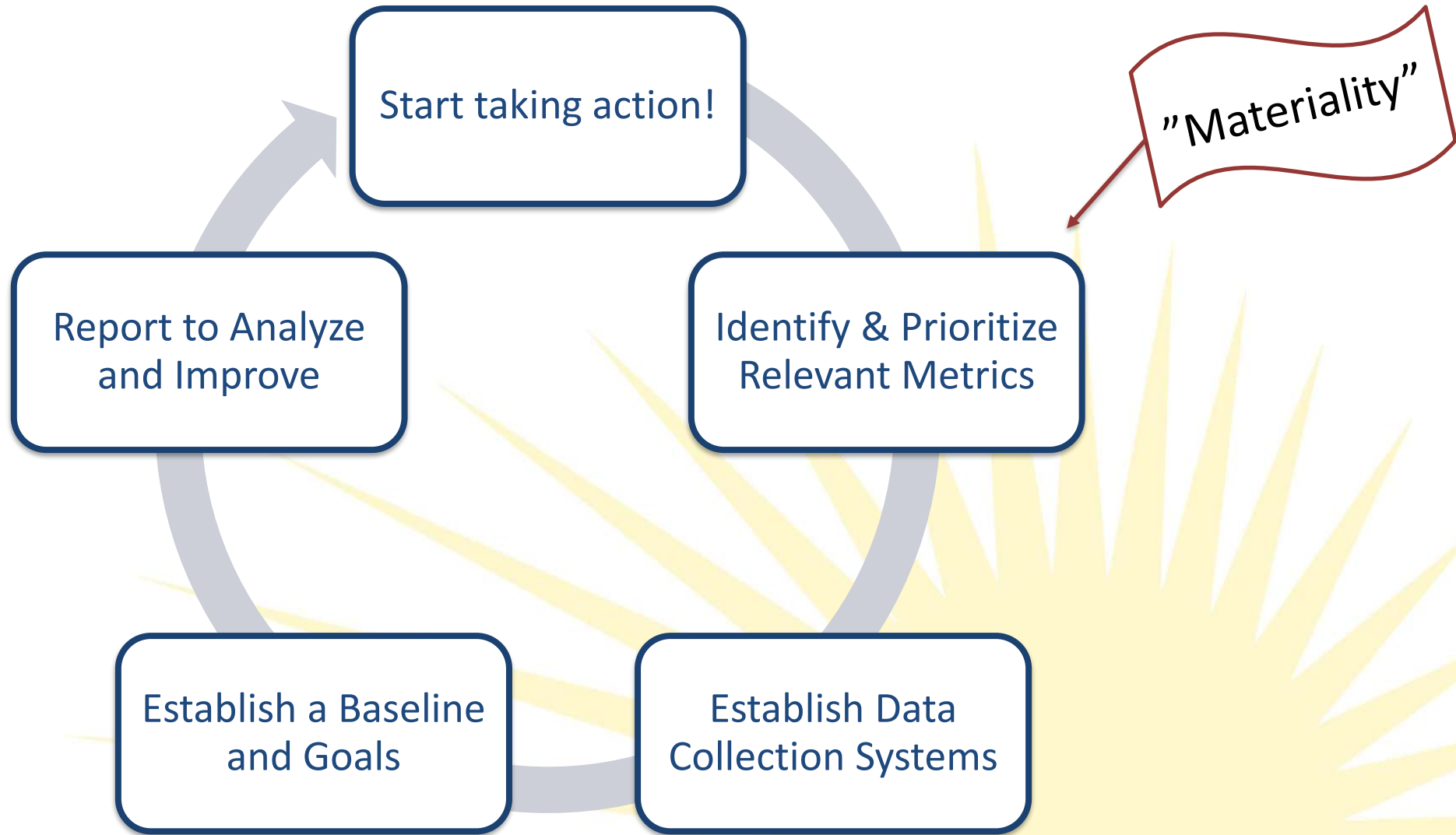


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THE JOURNEY









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METRICS TYPES & REPORTING EXAMPLES



Metrics Types

Reduced GHG
Emissions

Qualitative

Tactical

Normalized

Reduced GHG Emissions

Focus on describing the efforts a company is making to mitigate climate change, rather than the numbers or quantified results. Examples include:

- *Goals:* Goals you may have set around climate.
- *Policies:* Overarching guidance for employee and company practices
- *Best Practices:* Actual programs in play or actions being taken. “Walking the Talk”
- *Climate Events/Initiatives:* Participation or leadership in climate events, and/or company initiatives that are focused on raising awareness or results around climate.

PROS

- Focus on descriptions
- Less emphasis on quantified analysis
- Great way to begin reporting
- Stories that connect to consumers

Tactical

CONS

- Harder to “prove” impact
- Open to greenwashing allegations
- More difficult to catalyze action to the next step

Normalized

Qualitative



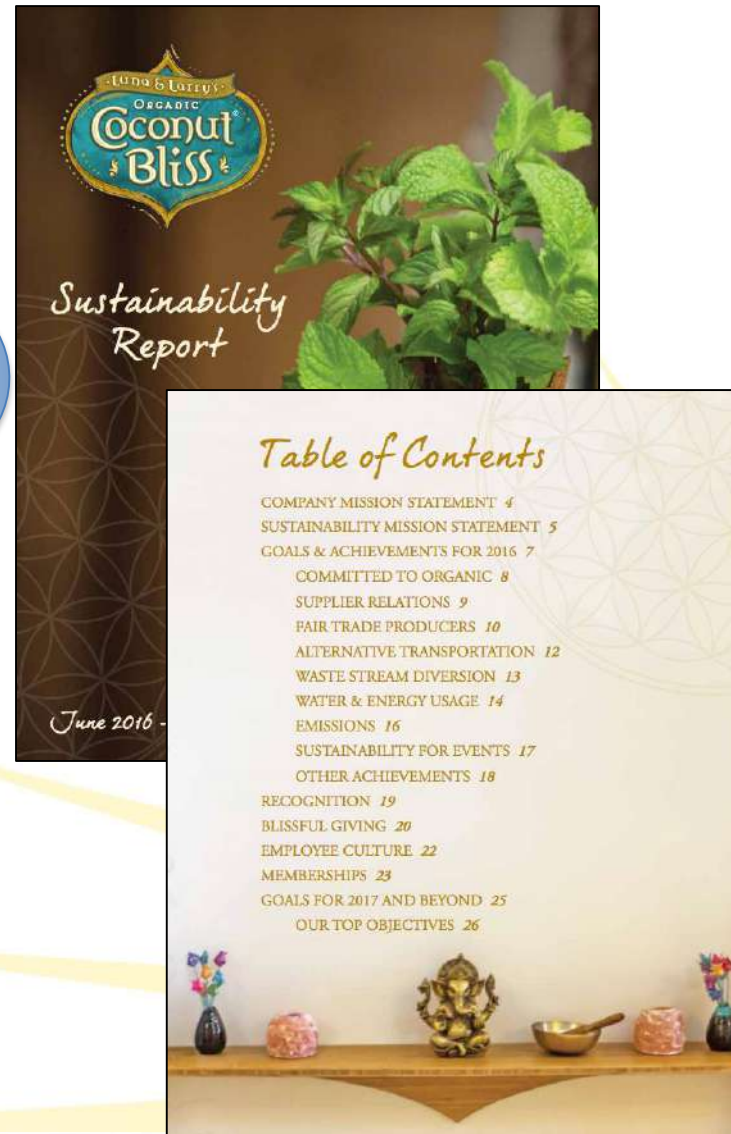
Table of Contents

- THE BEGINNING OF BLISS 4
- BLISS TODAY 5
- WHY WE DO IT 6
- RECOGNITION 7
- INGREDIENT SOURCING 8
- BLISSFUL GIVING 12
- BLISS HQ 13
- BLISSFUL CULTURE 14
- BLISS PRODUCTION 15
- SUSTAINABILITY MISSION STATEMENT 16

Company Mission Statement:
We create blissful experiences through exceptionally delicious, organic, plant-based desserts that our customers can trust. We embody transparency, integrity, and respect for our employees and our business partners. We are an example of how business can be abundant, inspiring and kind to the Earth and all beings.



Qualitative



Tactical



Describes results of tactical measures taken to reduce emissions, such as:

- *Pounds*: packaging/waste reduction
- *Gallons*: water, gasoline
- *Energy Units*: kWh, BTUs
- *Dollars*: climate education efforts, organic products
- *Percentages*: % of employees participating in alternative commuting program

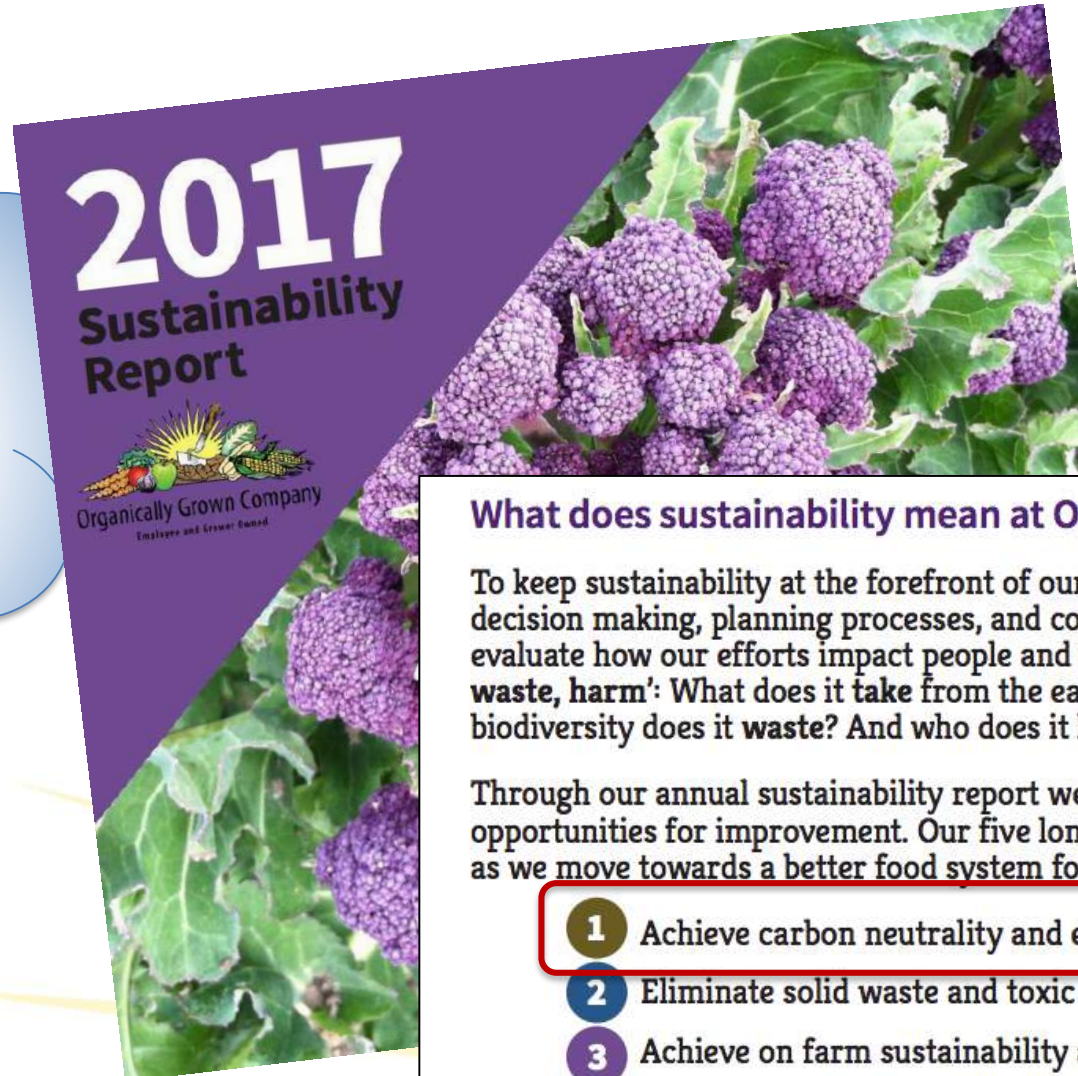
PROS

- Real-time improvements
- Clear correlation to goals
- Can sound impressive
- Tactile nature resonates with stakeholders

CONS

- How does this translate to climate impact?
- Missing the forest through the trees?
- Greenwashing?

Tactical



What does sustainability mean at Organically Grown Company?

To keep sustainability at the forefront of our work we use a science-based framework in our decision making, planning processes, and conduct of our business. Everyone at OGC is trained to evaluate how our efforts impact people and the planet through the Natural Step model **'take, make, waste, harm'**: What does it **take** from the earth? What does it **make** that will be left behind? What biodiversity does it **waste**? And who does it **harm** in its development?

Through our annual sustainability report we have the opportunity to review our successes and opportunities for improvement. Our five long-term sustainability goals give us targets to strive for as we move towards a better food system for people and the planet:

- 1 Achieve carbon neutrality and eliminate fossil fuel use
- 2 Eliminate solid waste and toxic substances
- 3 Achieve on farm sustainability and small/medium farm viability
- 4 Foster a healthy and fulfilling workplace
- 5 Build customer and broader community awareness and support for a healthy and sustainable food system

Tactical



GOAL 1 Achieve carbon neutrality and

We seek fossil fuel alternatives, fleet efficiencies, alternative transportation methods and energy efficiencies. We were awarded the Western Region Sustainable Private/Small Fleet Award at the 2017 Green Transportation Summit for our efforts.

 **6.23** AVG MPG
An incremental increase from 6.20 MPG in 2016



SMART Commute Program and Commuter Cars

To reduce the "carbon footprint" of daily commuting, coworkers are reimbursed for utilizing alternative transport to work. In 2016, we also purchased two fuel-efficient (41.2 mpg) commuter cars to reduce fuel consumption and mileage reimbursements costs. At the end of 2017, the cars had been used an average of 3,551 miles per month resulting in an estimated savings of over \$13,000.



B-line delivered **301 tons** of produce for OGC in Portland by cargo trike, avoiding driving 3,241 miles with our trucks, **eliminating 9,771 lbs of CO₂ emissions**



Our fleet has been **100% Clean-Air Certified** under the Federal Diesel Emissions Reduction Act since 2014

Our Fleet



36 Trailers • 27 Tractors • 6 Box Trucks • 4 Cargo Vans

Driving Fuller Trucks

We strive to keep our trucks full by coordinating backhauls with outside vendors, which helps us leverage our fuel/energy use. The organic industry is fast growing and dynamic; as a result we sometimes experience small changes in our account and vendor relationships that will impact our sustainability data. For example, a slight drop in cases shipped per mile in 2017 to 2.41 from 2.79 in 2016. Cases backhauled also went down slightly from 867,353 cases to 749,851 primarily because of changes in strategies of two of our larger scale growers.

Attendee Poll

Tactical



Reduce food-waste in
the supply chain

Which tactical measure might be most appropriate for
the Food Waste commitment?

- a) Total pounds of inventory reduced at source
- b) Pounds of waste diverted from the landfill
- c) Pounds of compost created from food waste
- d) All of the above



Commit to 100%
renewable power

Which tactical measure might be most appropriate for
the Renewable Energy commitment?

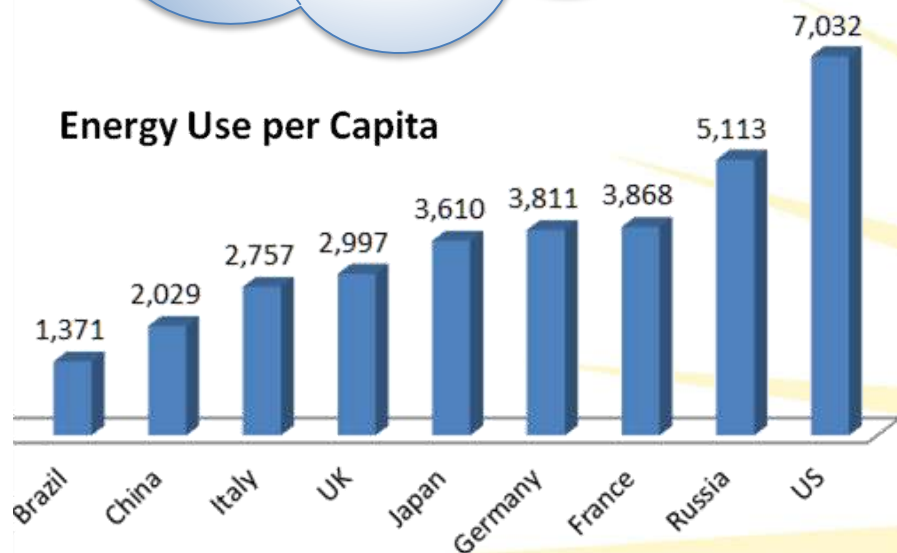
- a) Total Reduction of BTU used
- b) % of Energy generated by on-site solar panels
- c) Total pounds sold per kWh
- d) Total reduction of products manufactured

Intensity

“Normalizing” climate measures can help create “apples to apples” comparisons between companies in a similar sector, or to reflect improvements in climate management, despite an increase in absolute growth which could increase overall emissions. Examples include:

- *Tons of CO₂ per pound of product made*
- *Pounds of product made per kWh consumed*
- *Pounds of gasoline used per pound of product delivered*

Energy Use per Capita



PROS

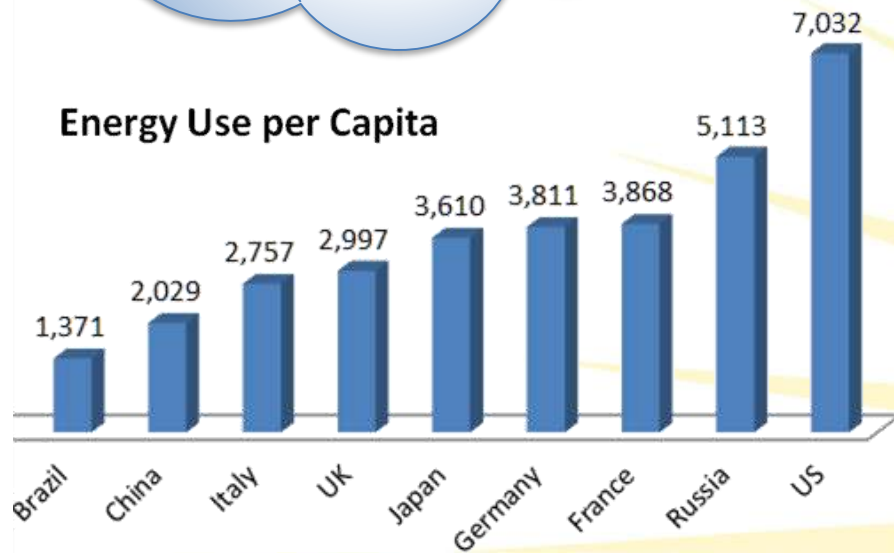
- Can track improvement despite absolute growth
- Help peers benchmark performance

CONS

- Context-based; can be misleading
- Can be difficult to isolate cause of improvements
- Risks greenwashing claims

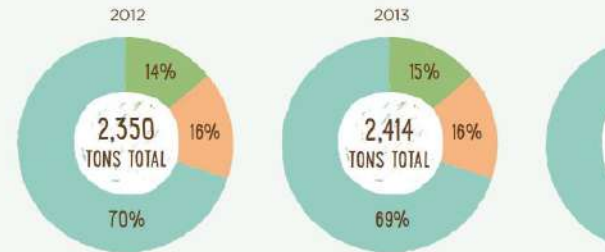
Intensity

Energy Use per Capita



GREENHOUSE GAS EMISSIONS

Our Carbon Footprint



We track our greenhouse gas emissions through the three standard Greenhouse Gas Protocol categories:



Scope 1:

Natural gas and direct mobile source emissions

In 2014, we saw a slight increase in our Scope 1 emissions. This was mainly because of our increased production, which necessitated more equipment washes that require natural gas to heat the wash water. The increase in production also meant more shipments to our warehouse and therefore a greater use of diesel fuel.



Scope 2:

Emissions from electricity and indirect mobile source emissions

Our moderate increase in Scope 2 emissions was the result of equipment upgrades and energy efficiency projects resulting from the Track & Tune program (read about it on page 13), which helped us keep our energy use in check despite production increases.



Scope 3:

Emissions from other sources

We increased our employment last year to deliver more of our popular Commune we had and 13.0 and any

ENERGY CONSERVATION

In 2013 we tackled an ambitious energy conservation project with the help of our local utility and Bonneville Power Administration's Track & Tune program. We spent an entire year closely tracking the energy use at our Springfield non-dairy frozen dessert plant. Using that data, we spent 2014 making a number of changes.

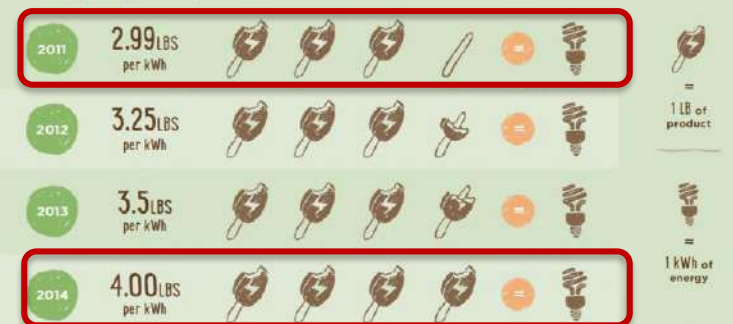
Our energy usage only increased by 10%, despite a production increase of 25%.

The amount of product we were able to produce per kilowatt hour improved considerably, as did our love for our awesome neighbors at the Bonneville Power Administration whose program helped make this happen.

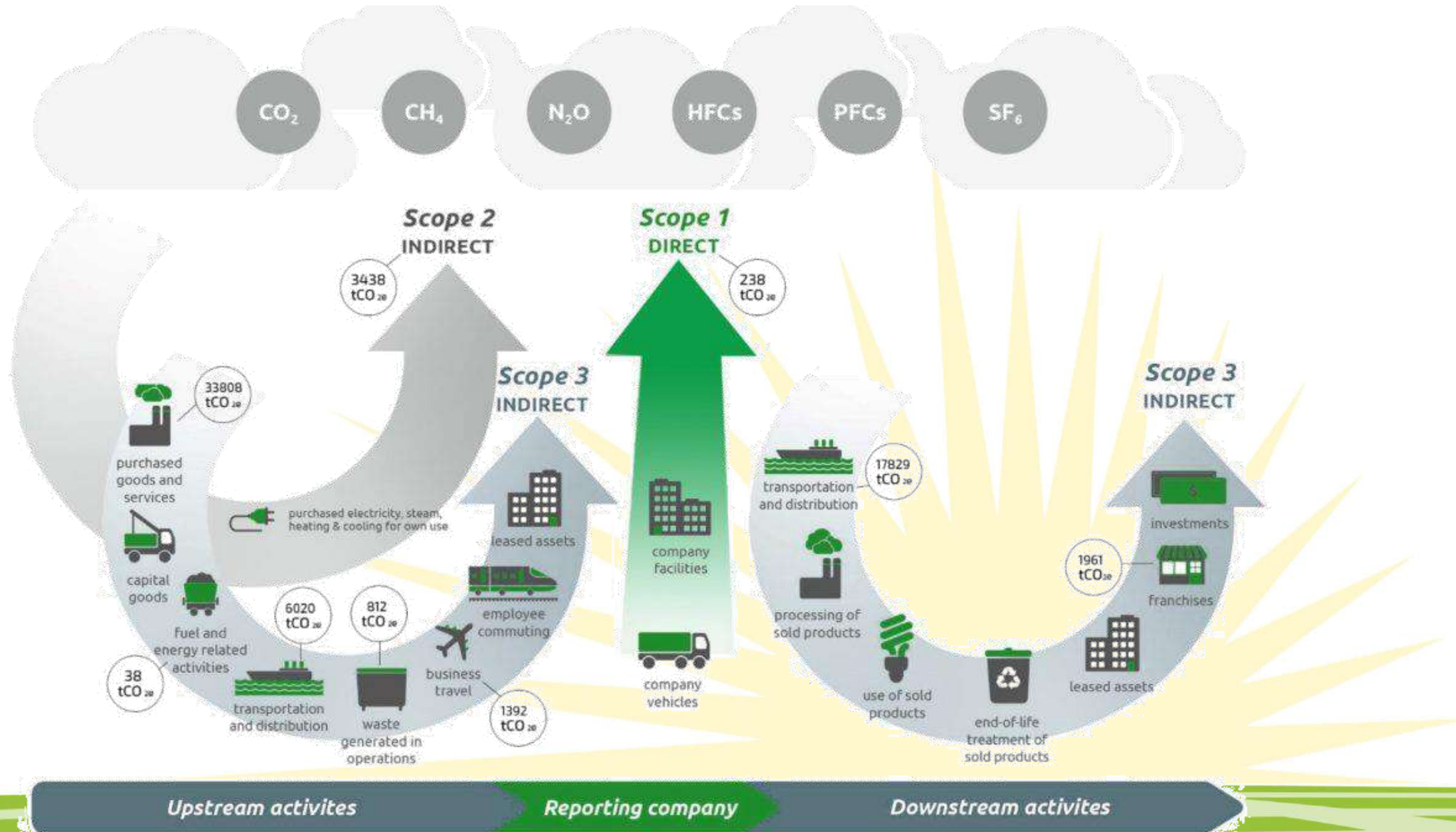
Energy Usage (kWh)



Energy Efficiency at Our Frozen Dessert Plant



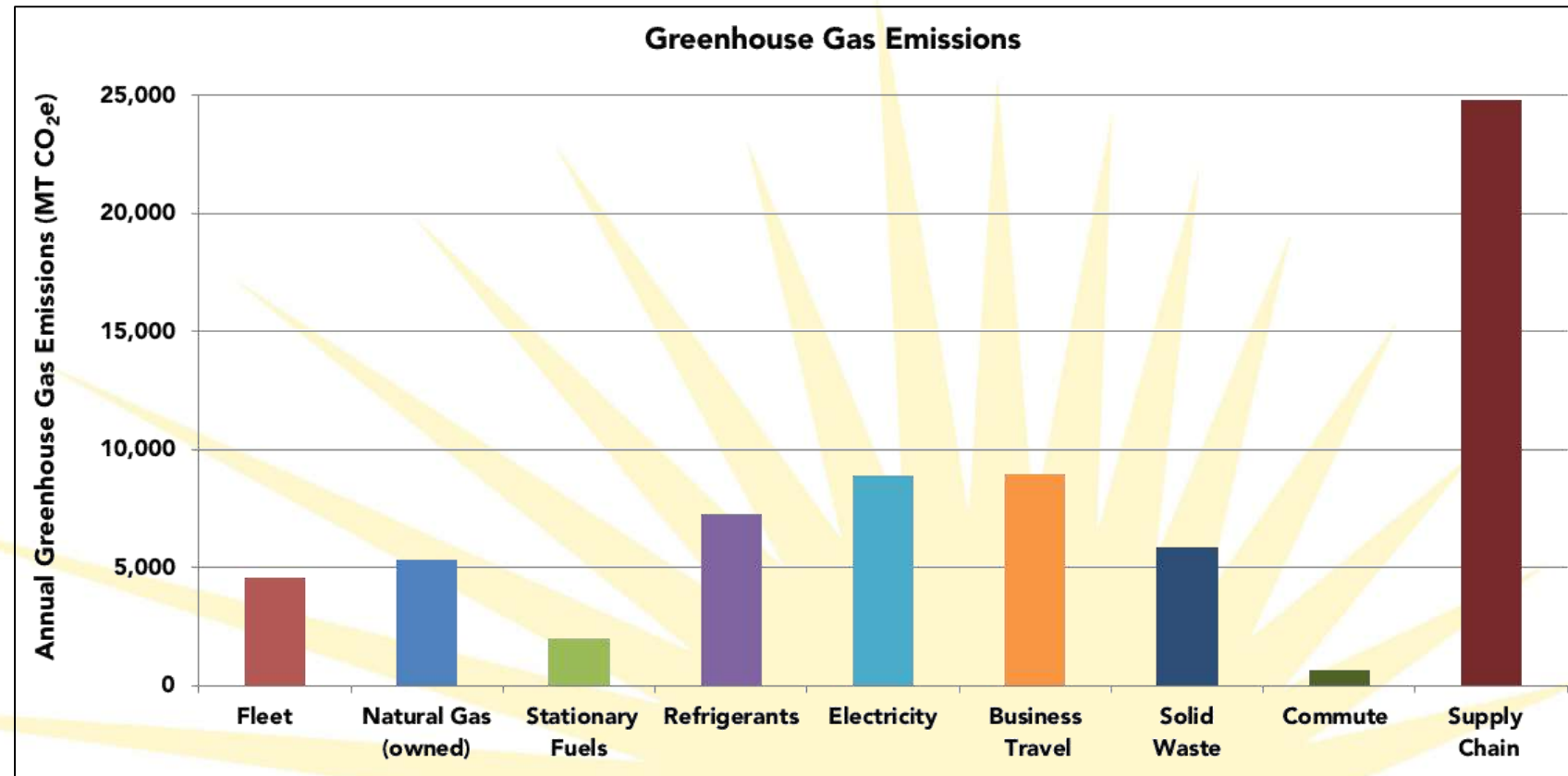
Metrics Types: Scopes 1, 2, & 3



Attendee Poll

Which Scope category
(1, 2, or 3) includes:

1. Electricity?
2. Business Travel?
3. Refrigerants?



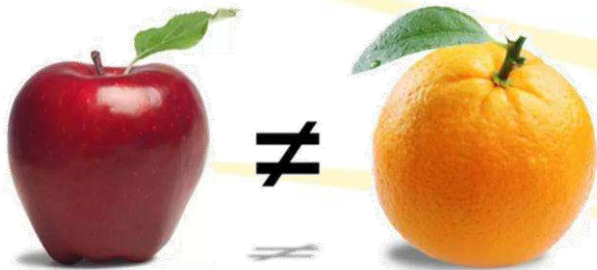
Context is Everything

[“Why Sustainability Metrics Fail to Measure Achievement, and How to Fix Them”](#)

- Green Biz, September 21, 2016

Intensity Metrics

- Outsourcing
- Economies of Scale
- Change in Product Mix



[News Release](#)



Bacardi Limited Pioneers Groundbreaking “BEST” Method

Innovative System Combines Science and Accounting to Track Sustainability Progress

Hamilton, Bermuda, March 6, 2014 – Bacardi Limited today announced that it has pioneered a new auditing method that accurately measures performance and progress against key environmental sustainability objectives. Called BEST – Bacardi Environmental Sustainability Tracking – the new system represents an innovative best practice in assessing a variety of metrics typically included in sustainability initiatives.

Critical Context Can Include:

- Percentages
- Benchmarking to Peers
- Transparency in Methodology



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TOOLS & CALCULATORS





- State of Sustainability &/or Climate Action Assessment
- Climate Metrics Guide & Metrics Inventory
- Sustainability Reporting Framework
- Opportunity Analysis and Resource Support (OARS)

Additional Reporting Formats



Global Reporting Initiative (GRI): The [GRI standards](#) address a multitude of potential social and environmental sustainability reporting areas, including emissions. These can be read to help identify best practices in climate mitigation efforts and measuring.



CDP: Not-for-profit that runs the global system for investors, companies, and governments to manage environmental impacts. [Climate Change, Supply Chain, Water, and Forests questionnaires](#) contain a variety of metrics and questions to consider.



1. **EPA – [Simplified GHG Emissions Calculator](#)**: simplified calculation tool to help small business and low emitter organizations estimate and inventory annual GHG emissions.
2. **Greenhouse Gas Protocol – [Calculation Tools \(all Scopes\)](#)**: These tools enable companies to develop comprehensive and reliable inventories of their GHG emissions.
3. **CalRecycle – [Commercial Climate Calculator](#)**: helps businesses assess the financial, climate, and environmental benefits of reducing waste generation and recycling their discarded materials.
4. **EPA – [Waste Reduction Model \(WARM\) Tool](#)**: helps track and report on GHG emissions of baseline and alternative waste management practices: source reduction, recycling, anaerobic digestion, combustion, composting and landfilling.
5. **Cool Farm Alliance – [Cool Farm Tool](#)**: Online greenhouse gas, water, & biodiversity calculator for farmers
6. **CO State University/USDA – [COMET Farm Tool](#)**: A farm and ranch carbon and greenhouse gas accounting system that can compare current practices to projected practices to compare environmental impacts.



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THANK YOU!

For more information:

Lisa Spicka

Associate Director

Sustainable Food Trade Association

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Make it Relatable





Transparency & Trends

- Contextualizes results
- Helps turn data into knowledge
- Critical to identify what does/doesn't work



Data vs. Stories

- Highlight your Best Stories & Practices
- Balance of narrative and visuals
- Transparency in results!



DISTRIBUTION

Transportation is an area we can directly control as a company, as we own and operate our fleet of distribution trucks. 65% of our products are transported on our own fleet, and the remaining 35% are picked up by less than truck load (LTL) shippers, or by our customers in the Factory Store.



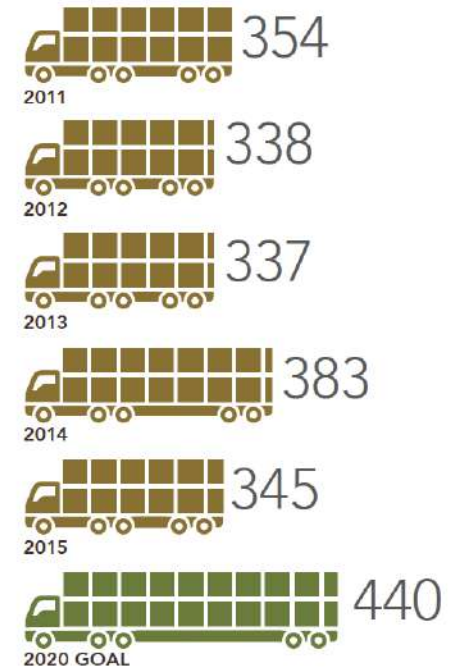
8

Sneak Peak: in March 2016 we added a truck with CNG dual fuel technology to our fleet; this truck is expected to get over 7.5 mpg and emit up to 40% less greenhouse gasses than our regular 20% biodiesel trucks.

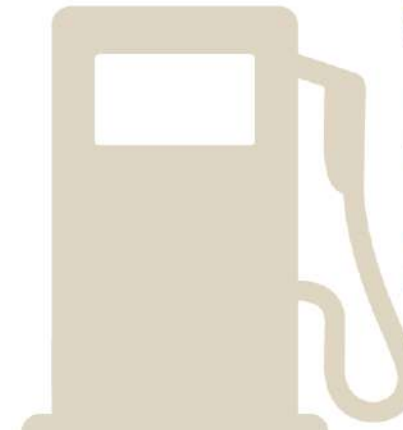
In 2015, GloryBee:

- Continued using onboard recording devices to better measure efficiency.
- Held two sustainable driver trainings, and developed an efficient truck driver incentive.
- Delivered 61,676 pounds by bike, an increase of **14%** over 2014.
- Continued to use **100%** of routes for haul backs.
- We had an average of **6.56 mpg** in 2015.

POUNDS OF PRODUCT PER GALLON



In 2015 our fuel efficiency (pounds carried per gallon) decreased, because our trucks traveled the same distance and used about the same amount of fuel per mile, but carried less weight on average than previous years. To improve our fleet efficiency we are adding more efficient trucks to our fleet, and implementing a sustainable driver incentive.

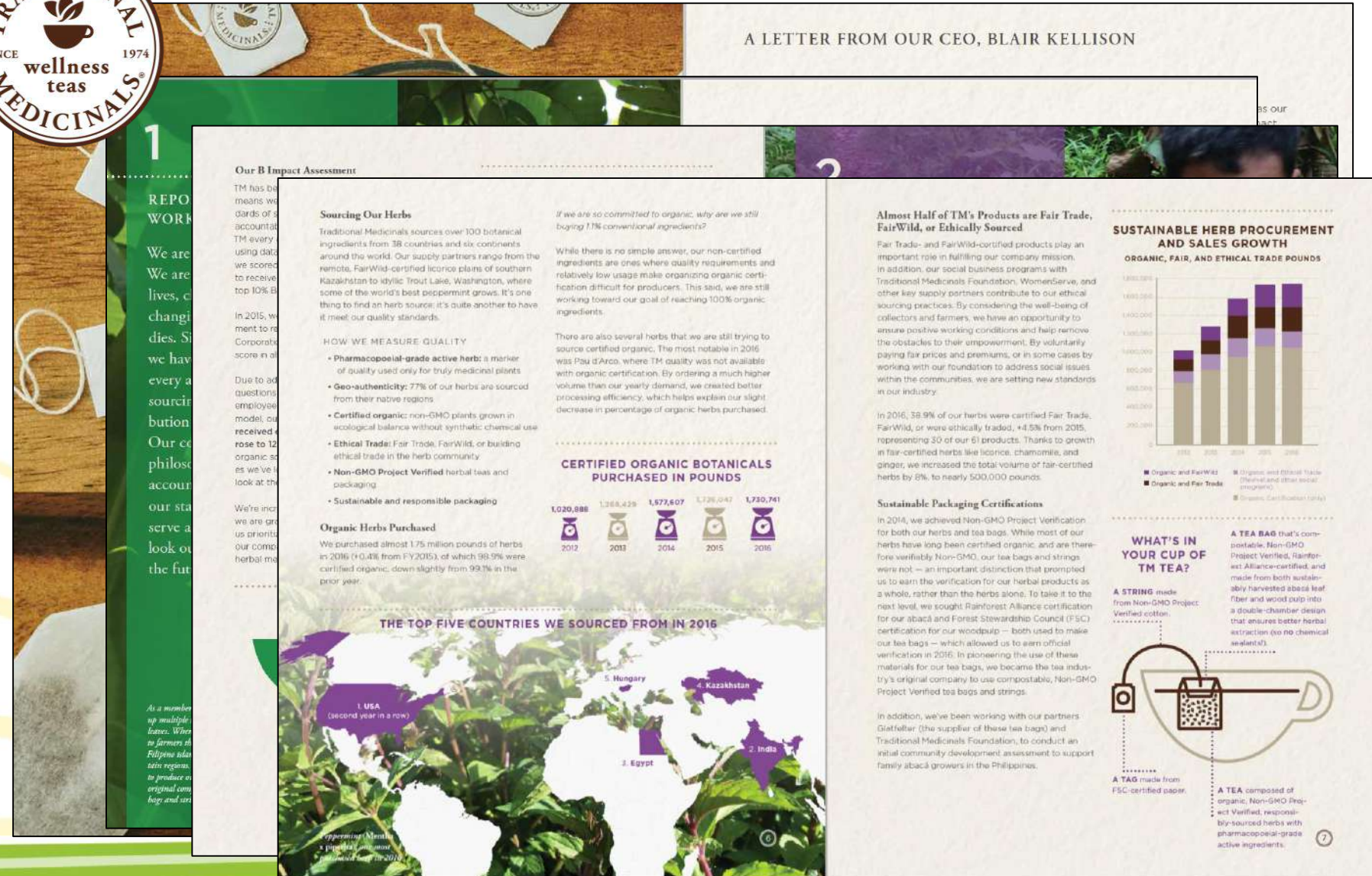




Sustainability Program & Reporting Tips...

Make it Your Own

- Pick most relevant metrics
- Blend with your brand story
- Be creative
- It is a PROCESS!



CLIMATE EMISSIONS: SCOPE 1 & 2 and the BACK YARD

A fun climate action journey with Straus Family Creamery



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NOURISHING FARMS, FOOD, PEOPLE & EARTH

DRIVEN BY OUR MISSION

[LEARN MORE](#)



CLIMATE ACCOUNTING

Profile – History - Context





COMPANY PROFILE

- Owned 100% by Albert & Jean Straus
 - First organic dairyman in the West
- Operating since 1994
- Creamery in Marshall, CA (Marin)
- Logistics in Petaluma, CA (Sonoma)
- First 100% Organic creamery in US
- Largely West Coast regional footprint
- 30-mile milk sourcing footprint
- Present in most dairy categories
 - milk (cream-top in returnable glass)
 - yogurt
 - ice cream
 - butter
 - sour cream
- Farmer-first business model
- Social-mission based
- Always Organic
- High quality milk supply
- *Delicious*, minimally-processed, products
- Everything is made in-house (no co-packing)



CLIMATE ACCOUNTING TIMELINE

2010: First reported on scope 1 & 2 climate emissions via Sustainable Food Trade Association (SFTA). Now in 8th year of tracking scope 1 & 2 emissions.

2016: Started accounting for all scope 1 & 2 in-house.*

2017: Climate Collaborative Commitments.

- Active commitment projects in agriculture, energy efficiency, renewable energy, policy, food-waste, short-live climate pollutants, transportation, and packaging

2018: Started 2-year project to assess dairy farm emissions (primary scope 3) using COMET-Tool.



5 KEY CLIMATE IMPACT FACTORS

1. SFC has two facilities that are only 20 miles apart.
2. Local transport is in-house (between independent dairies & creamery & warehouse).
3. All dairies are located within 30 miles of creamery.
4. Dairy product manufacturing requires a lot of process heat.
5. Electricity sourcing is controlled by climate-friendly local government agencies.



CLIMATE ACCOUNTING

Starting Tips – Tracking - Monitoring





JOSEPH'S TIPS TO CONSISTENT MEASUREMENT OF SCOPES 1 & 2

- 1. Get Familiar:** Understand scope categories...later on...de-educate yourself.
- 2. Get Educated:** Take a course in climate math or accounting. (It helps).
- 3. Track GHG's In-House:** If feasible (will depend on size of business).
- 4. Budget Time:** This is an accounting practice. It takes a level of rigor.
- 5. Analyze the Data:** DO NOT report for reporting sake. Understand the scale, breadth, seasonality, complexity, and interplay of your emissions.
- 6. Share Your Work:** Join SFTA or a like-organization that will help you improve the quality of your tracking and reporting.
- 7. Report Results:** Consistent reporting gives life and meaning to the data.



Diesel - gallons purchased										Diesel Emissions (MT CO2e)										Non-vehicle diesel-gallons purchased										per ton milk processed										Diesel Emissions (MT CO2e)										Unloaded Gas- gallons purchased										per ton milk processed										Propane - gallons purchased										Propane Emissions (MT CO2e)										Water - gallons fresh water										Water Emissions (MT CO2e)										Electric - kWh used (Petats)										Total SFC Electricity										per ton milk										Electric Emissions (MT CO2e)										Natural Gas - Petroleum										Natural Gas per ton milk										Natural Gas Emissions (MT CO2e)										Mbu/Milk Ton (S&P&D)										Bu/Milk Ton (Business-wide)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
1,850	1,860	1,870	1,880	1,890	1,900	1,910	1,920	1,930	1,940	1,950	1,960	1,970	1,980	1,990	2,000	2,010	2,020	2,030	2,040	2,050	2,060	2,070	2,080	2,090	2,100	2,110	2,120	2,130	2,140	2,150	2,160	2,170	2,180	2,190	2,200	2,210	2,220	2,230	2,240	2,250	2,260	2,270	2,280	2,290	2,300	2,310	2,320	2,330	2,340	2,350	2,360	2,370	2,380	2,390	2,400	2,410	2,420	2,430	2,440	2,450	2,460	2,470	2,480	2,490	2,500	2,510	2,520	2,530	2,540	2,550	2,560	2,570	2,580	2,590	2,600	2,610	2,620	2,630	2,640	2,650	2,660	2,670	2,680	2,690	2,700	2,710	2,720	2,730	2,740	2,750	2,760	2,770	2,780	2,790	2,800	2,810	2,820	2,830	2,840	2,850	2,860	2,870	2,880	2,890	2,900	2,910	2,920	2,930	2,940	2,950	2,960	2,970	2,980	2,990	3,000	3,010	3,020	3,030	3,040	3,050	3,060	3,070	3,080	3,090	3,100	3,110	3,120	3,130	3,140	3,150	3,160	3,170	3,180	3,190	3,200	3,210	3,220	3,230	3,240	3,250	3,260	3,270	3,280	3,290	3,300	3,310	3,320	3,330	3,340	3,350	3,360	3,370	3,380	3,390	3,400	3,410	3,420	3,430	3,440	3,450	3,460	3,470	3,480	3,490	3,500	3,510	3,520	3,530	3,540	3,550	3,560	3,570	3,580	3,590	3,600	3,610	3,620	3,630	3,640	3,650	3,660	3,670	3,680	3,690	3,700	3,710	3,720	3,730	3,740	3,750	3,760	3,770	3,780	3,790	3,800	3,810	3,820	3,830	3,840	3,850	3,860	3,870	3,880	3,890	3,900	3,910	3,920	3,930	3,940	3,950	3,960	3,970	3,980	3,990	4,000	4,010	4,020	4,030	4,040	4,050	4,060	4,070	4,080	4,090	4,100	4,110	4,120	4,130	4,140	4,150	4,160	4,170	4,180	4,190	4,200	4,210	4,220	4,230	4,240	4,250	4,260	4,270	4,280	4,290	4,300	4,310	4,320	4,330	4,340	4,350	4,360	4,370	4,380	4,390	4,400	4,410	4,420	4,430	4,440	4,450	4,460	4,470	4,480	4,490	4,500	4,510	4,520	4,530	4,540	4,550	4,560	4,570	4,580	4,590	4,600	4,610	4,620	4,630	4,640	4,650	4,660	4,670	4,680	4,690	4,700	4,710	4,720	4,730	4,740	4,750	4,760	4,770	4,780	4,790	4,800	4,810	4,820	4,830	4,840	4,850	4,860	4,870	4,880	4,890	4,900	4,910	4,920	4,930	4,940	4,950	4,960	4,970	4,980	4,990	5,000	5,010	5,020	5,030	5,040	5,050	5,060	5,070	5,080	5,090	5,100	5,110	5,120	5,130	5,140	5,150	5,160	5,170	5,180	5,190	5,200	5,210	5,220	5,230	5,240	5,250	5,260	5,270	5,280	5,290	5,300	5,310	5,320	5,330	5,340	5,350	5,360	5,370	5,380	5,390	5,400	5,410	5,420	5,430	5,440	5,450	5,460	5,470	5,480	5,490	5,500	5,510	5,520	5,530	5,540	5,550	5,560	5,570	5,580	5,590	5,600	5,610	5,620	5,630	5,640	5,650	5,660	5,670	5,680	5,690	5,700	5,710	5,720	5,730	5,740	5,750	5,760	5,770	5,780	5,790	5,800	5,810	5,820	5,830	5,840	5,850	5,860	5,870	5,880	5,890	5,900	5,910	5,920	5,930	5,940	5,950	5,960	5,970	5,980	5,990	6,000	6,010	6,020	6,030	6,040	6,050	6,060	6,070	6,080	6,090	6,100	6,110	6,120	6,130	6,140	6,150	6,160	6,170	6,180	6,190	6,200	6,210	6,220	6,230	6,240	6,250	6,260	6,270	6,280	6,290	6,300	6,310	6,320	6,330	6,340	6,350	6,360	6,370	6,380	6,390	6,400	6,410	6,420	6,430	6,440	6,450	6,460	6,470	6,480	6,490	6,500	6,510	6,520	6,530	6,540	6,550	6,560	6,570	6,580	6,590	6,600	6,610	6,620	6,630	6,640	6,650	6,660	6,670	6,680	6,690	6,700	6,710	6,720	6,730	6,740	6,750	6,760	6,770	6,780	6,790	6,800	6,810	6,820	6,830	6,840	6,850	6,860	6,870	6,880	6,890	6,900	6,910	6,920	6,930	6,940	6,950	6,960	6,970	6,980	6,990	7,000	7,010	7,020	7,030	7,040	7,050	7,060	7,070	7,080	7,090	7,100	7,110	7,120	7,130	7,140	7,150	7,160	7,170	7,180	7,190	7,200	7,210	7,220	7,230	7,240	7,250	7,260	7,270	7,280	7,290	7,300	7,310	7,320	7,330	7,340	7,350	7,360	7,370	7,380	7,390	7,400	7,410	7,420	7,430	7,440	7,450	7,460	7,470	7,480	7,490	7,500	7,510	7,520	7,530	7,540	7,550	7,560	7,570	7,580	7,590	7,600	7,610	7,620	7,630	7,640	7,650	7,660	7,670	7,680	7,690	7,700	7,710	7,720	7,730	7,740	7,750	7,760	7,770	7,780	7,790	7,800	7,810	7,820	7,830	7,840	7,850	7,860	7,870	7,880	7,890	7,900	7,910	7,920	7,930	7,940	7,950	7,960	7,970	7,980	7,990	8,000	8,010	8,020	8,030	8,040	8,050	8,060	8,070	8,080	8,090	8,100	8,110	8,120	8,130	8,140	8,150	8,160	8,170	8,180	8,190	8,200	8,210	8,220	8,230	8,240	8,250	8,260	8,270	8,280	8,290	8,300	8,310	8,320	8,330	8,340	8,350	8,360	8,370	8,380	8,390	8,400	8,410	8,420	8,430	8,440	8,450	8,460	8,470	8,480	8,490	8,500	8,510	8,520	8,530	8,540	8,550	8,560	8,570	8,580	8,590	8,600	8,610	8,620	8,630	8,640	8,650	8,660	8,670	8,680	8,690	8,700	8,710	8,720	8,730	8,740	8,750	8,760	8,770	8,780	8,790	8,800	8,810	8,820	8,830	8,840	8,850	8,860	8,870	8,880	8,890	8,900	8,910	8,920	8,930	8,940	8,950	8,960	8,970	8,980	8,990	9,000	9,010	9,020	9,030	9,040	9,050	9,060	9,070	9,080	9,090	9,100	9,110	9,120	9,130	9,140	9,150	9,160	9,170	9,180	9,190	9,200	9,210	9,220	9,230	9,240	9,250	9,260	9,270	9,280	9,290	9,300	9,310	9,320	9,330	9,340	9,350	9,360	9,370	9,380	9,390	9,400	9,410	9,420	9,430	9,440	9,450	9,460	9,470	9,480	9,490	9,500	9,510	9,520	9,530	9,540	9,550	9,560	9,570	9,580	9,590	9,600	9,610	9,620	9,630	9,640	9,650	9,660	9,670	9,680	9,690	9,700	9,710	9,720	9,730	9,740	9,750	9,760	9,770	9,780	9,790	9,800	9,810	9,820	9,830	9,840	9,850	9,860	9,870	9,880	9,890	9,900	9,910	9,920	9,930	9,940	9,950	9,960	9,970	9,980	9,990	10,000	10,010	10,020	10,030	10,040	10,050	10,060	10,070	10,080	10,090	10,100	10,110	10,120	10,130	10,140	10,150	10,160	10,170	10,180	10,190	10,200	10,210	10,220	10,230	10,240	10,250	10,260	10,270	10,280	10,290	10,300	10,310	10,320	10,330	10,340	10,350	10,360	10,370	10,380	10,390	10,400	10,410	10,420	10,430	10,440	10,450	10,460	10,470	10,480	10,490	10,500	10,510	10,520	10,530	10,540	10,550	10,560	10,570	10,580	10,590	10,600	10,610	10,620	10,630	10,640	10,650	10,660	10,670	10,680	10,690	10,700	10,710	10,720	10,730	10,740	10,750	10,760	10,770	10,780	10,790	10,800	10,810	10,820	10,830	10,840	10,850	10,860	10,870	10,880	10,890	10,900	10,910	10,920	10,930	10,940	10,950	10,960	10,970	10,980	10,990	11,000	11,010	11,020	11,030	11,040	11,050	11,060	11,070	11,080	11,090	11,100	11,110	11,120	11,130	11,140	11,150	11,160	11,170	11,180	11,190	11,200	11,210	11,220	11,230	11,240	11,250	11,260	11,270	11,280	11,290	11,300	11,310	11,320	11,330	11,340	11,350	11,360	11,370	11,380	11,390	11,400	11,410	11,420	11,430	11,440	11,450	11,460	11,470	11,480	1



110.7

114.18

116.19

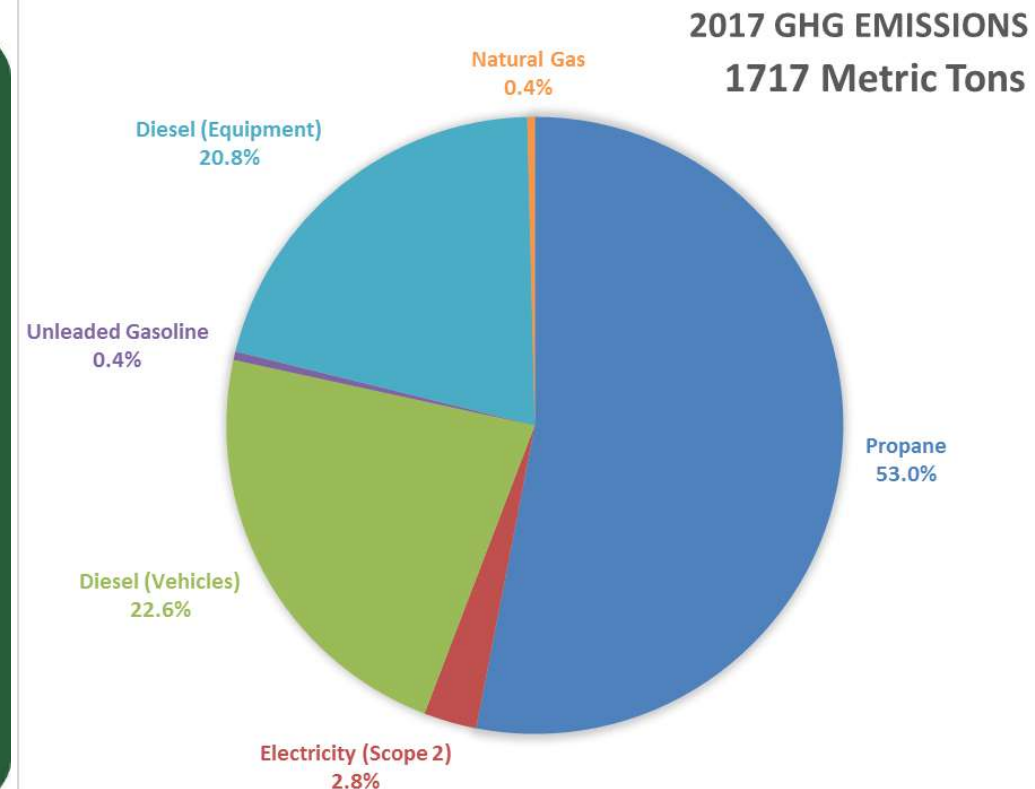
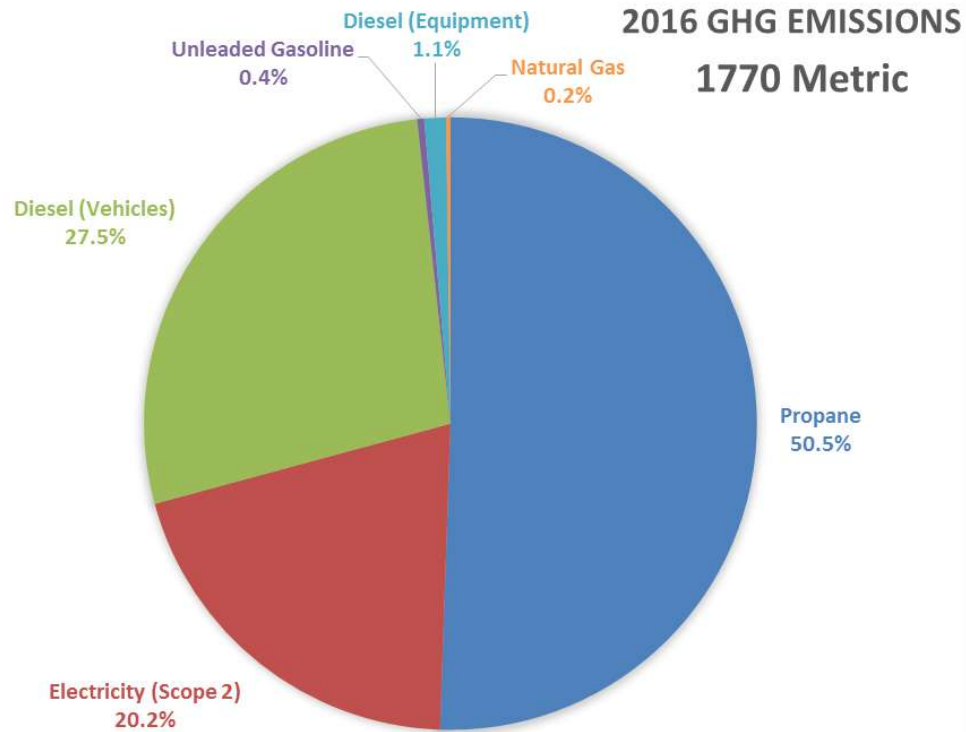
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CLIMATE ACCOUNTING

Reduction Highlight



Zeroing Out Scope 2 (almost)



**Take Advantage of Climate Emission Reduction Opportunities.
Measurement Will Help Make the Case...and...Tell the Story.**

CLIMATE ACCOUNTING

Educating & Reporting



CONTEXT IS IMPORTANT

- Provides reality check
- Focuses priorities
- Impacts overall strategy

STRAUS FAMILY CREAMERY 2017 GHG EMISSIONS IN CONTEXT



0.0017 MtCO₂e

Total SFC Emissions in 2017
0.000004% of 2016 CA Emissions

*Includes SFC Scope 1 and 2 GHG emissions, but does not account for Scope 3 Emissions.



427 MtCO₂e

Total California
Emissions in 2016
6.8% of USA Emissions



6,319 MtCO₂e

Total USA
Emissions in 2016
13.3% of Global Emissions



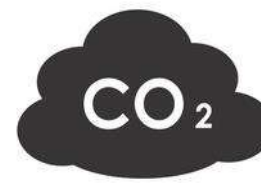
47,350 MtCO₂e

Total Global
Emissions in 2016

Mt= Million Tonnes
CO₂e= Carbon Dioxide Equivalent

CATEGORICAL EMISSIONS

- What categories are of greatest impact?
- What categories have the lowest hanging fruit?
- How can you utilize this to inform investment priorities?



STRAUS FAMILY CREAMERY 2017 GHG EMISSIONS



Scope 1: 97.2%

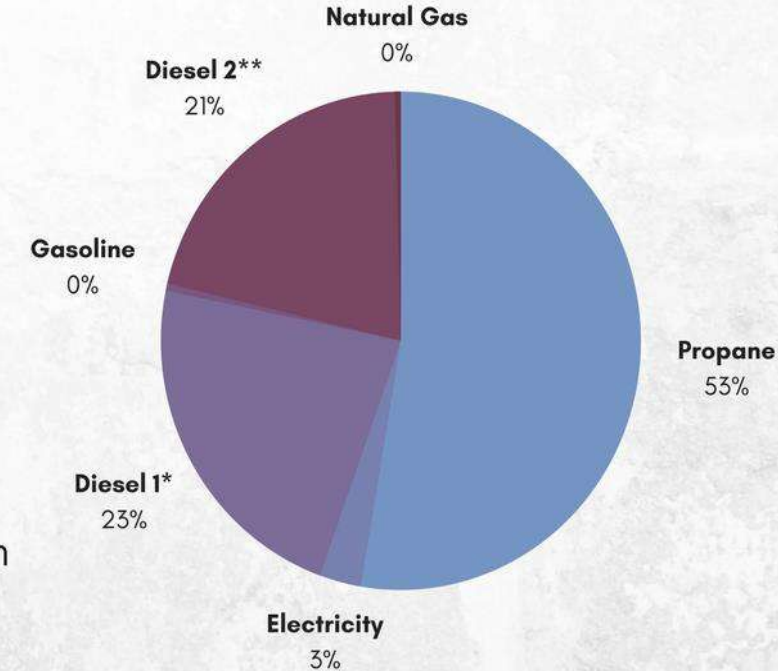
Direct emissions from sources directly owned or controlled by SFC.

Scope 2: 2.8%

Indirect emissions from the consumption of purchased energy generated upstream from SFC.

Scope 3: Not Reported

Indirect emissions that are a consequence of the operations of SFC, but are not directly owned or controlled by SFC.



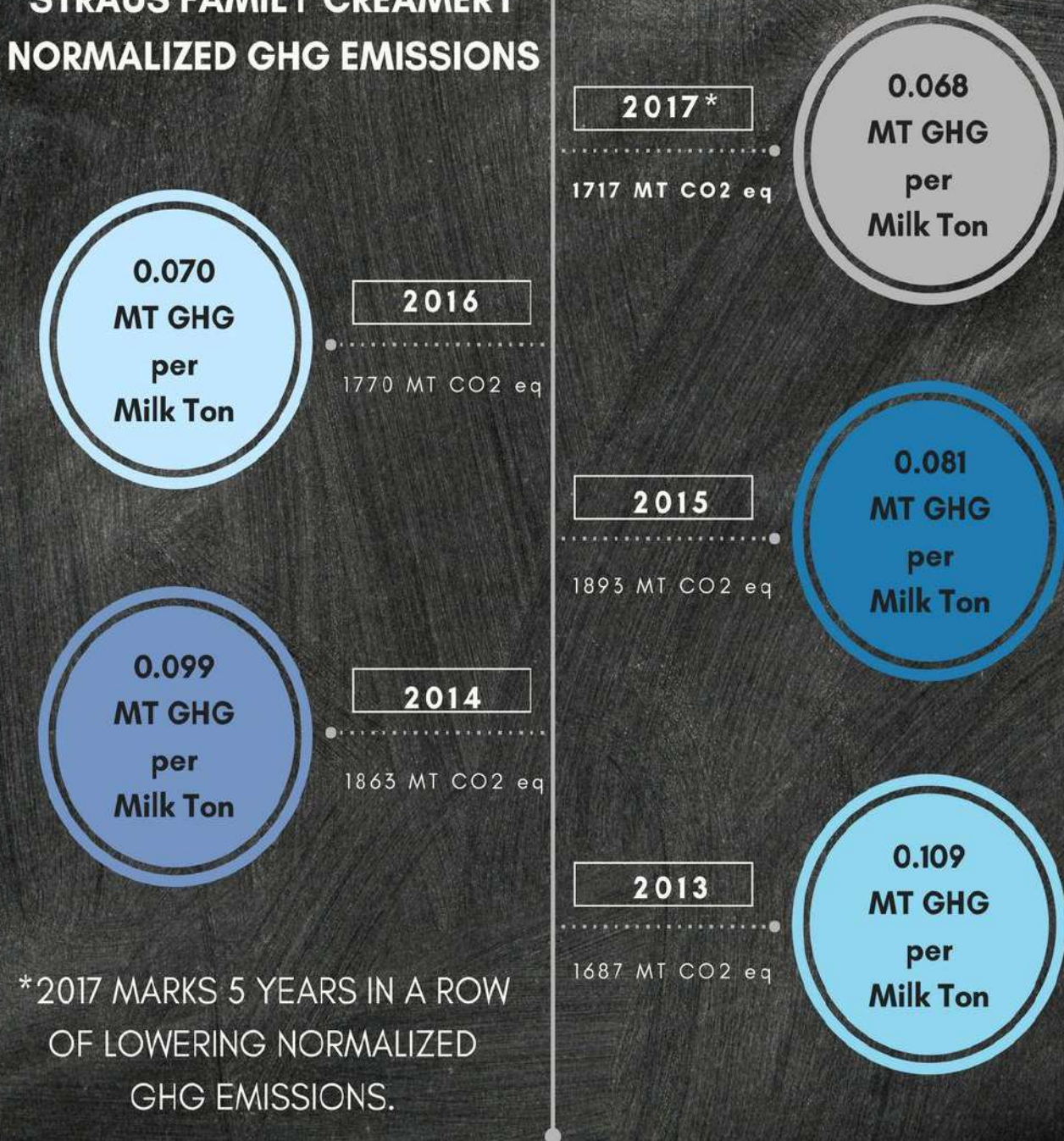
*Diesel consumed by our transportation vehicle fleet.

**Diesel consumed at the Creamery location.

NORMALIZED EMISSIONS

- Measuring efficiency.
- Informs a more accurate multi-year comparison.
- Can boost moral on climate action.
- But...DO NOT forget that our real goal is reducing absolute emissions.

STRAUS FAMILY CREAMERY NORMALIZED GHG EMISSIONS



BENCHMARKED EMISSIONS

- Get outside of your house.
- Are you actually doing an OK job at controlling emissions?
- Creates healthy competition.
- May help inform when you can/should really focus elsewhere, like Scope 3 (Don't scrape an empty bowl).

GHG EMISSIONS FOR FLUID MILK: PROCESSING EMISSIONS

- PURCHASED ENERGY
- ON-SITE FUEL COMBUSTION
- REFRIGERANT LEAKAGE

NATIONAL
AVERAGE
EST. 2012

**2696 MT
CO₂E***

THE AVERAGE OF 50
MILK PROCESSING
PLANTS IN THE US.

STRAUS FAMILY
CREAMERY
IN 2017

**1319 MT
CO₂E**

51% BELOW THE
INDUSTRY CLIMATE
EMISSIONS BENCHMARK.

* NUMBER NORMALIZED TO REFLECT
SFC'S 2017 PRODUCTION



STOP

CLIMATE ACCOUNTING

Forget the Scopes. Operationalized Emissions.



**We've covered the house (1&2).
Now don't forget the backyard (Operational 3)**





A few notes on improving your emissions strategy.

- 1. Standardized climate accounting is necessary.**
- 2. But...you don't need to act on climate within that framework.**
- 3. Most businesses have tremendous control over certain Scope 3 items.**
- 4. You should consider treating these the same as Scope 1 & 2.**
- 5. To name a few (FYI - most of these have readily available climate measuring tools):**
 - 1. Water Conveyance.**
 - 2. Employee Commute.**
 - 3. Business Travel.**
 - 4. 3rd Party Trucking.**
 - 5. Waste Management.**
 - 6. Waste Water.**
 - 7. Sourcing (localization)**
 - 8. Packaging**

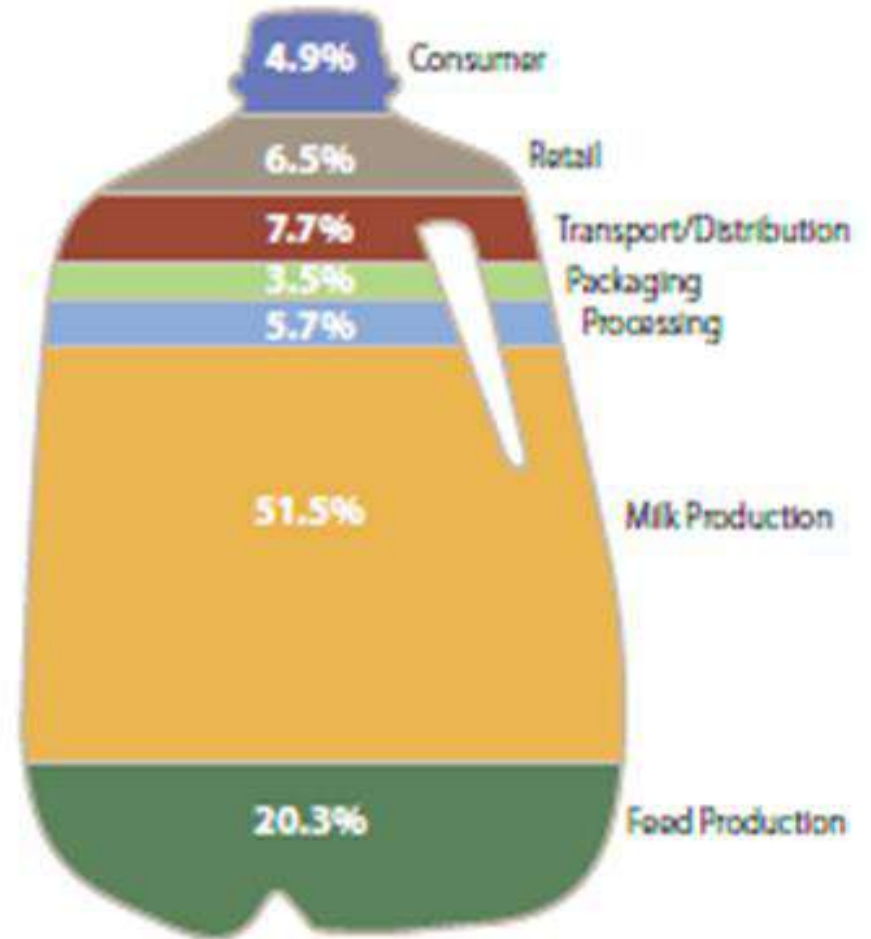




18 Metric Tons CO₂e Avoided

- Don't neglect the realities of your direct supply chain.
- One project on a dairy farm is equivalent to offsetting all the Scope 1 & 2 emissions of our business.
- 14% of global emissions come from livestock agriculture.
- For the climate, the single most important thing we can do is to help model and champion a low-carbon, environmentally friendly dairy system.

U.S. Fluid Milk Carbon Footprint



Greenhouse Gas Emissions for
U.S. Fluid Milk: Contribution
by Supply Chain

COMET-Farm



Thank You!



Joseph Button
Sustainability Director
joseph@strausmilk.com



Commit. Act. Impact.



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a project of

