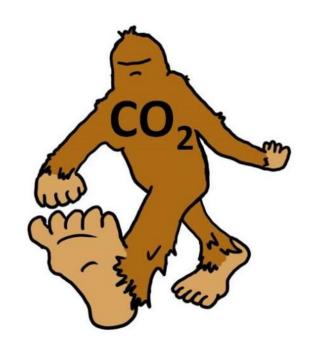
Taming Bigfoot



A Carbon Footprint Reduction Competition to engage the community and accelerate Jefferson County's progress toward reducing CO₂ emissions



JeffersonCAN.org

Climate Action Now



Brought to you by....



Polly Thurston
Dick Stockment
Mike Kaill
Cindy Jayne

Laura Tucker
David Wilkinson
Julia Cochrane
Bob Bindschadler

Climate Action Outreach Group

Background



- Climate Action Committee created to implement the Jefferson County / Port Townsend Climate Action Plan; adopted in 2011
- County goal is 80% reduction in carbon emissions from 1990 levels by calendar year 2050
- Climate Action Outreach Group formed in 2013
- Presented lectures
 - "Who Left the Freezer Door Open?"; Nov. 2014
 - "Reasons for Hope"; Feb. 2015
- Discovered the public (you) is asking
 - "what can/should I do?"
 - "will my actions really make a difference?



Endorsers

- Jefferson County Board of Commissioners
- Port Townsend City Council
- Jefferson County Public Utility District
- Jefferson County Public Health
- Climate Action Committee

JeffersonCAN.org
Climate Action Now

- QUUF Green Sanctuary Committee
- Local 20/20





What Will Be Covered

Who

What

When

Where

Why

How

Our Goals



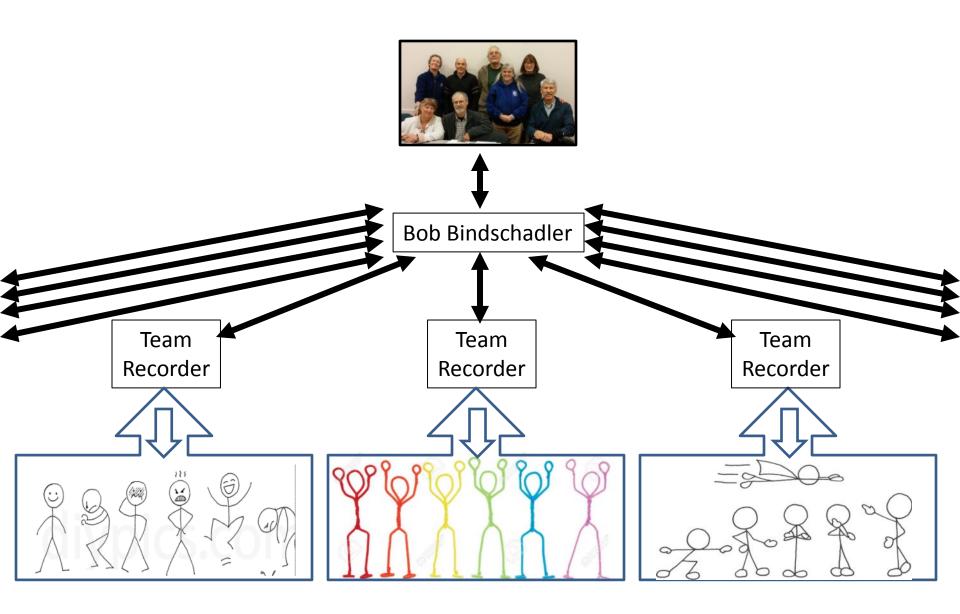
- Communicate the relative effectiveness of various emissionreducing actions to help individuals make their best personal decisions
- Illustrate the many trade-offs that must be considered in formulating a broad emission-reduction strategy;
- Encourage everyone to have fun;
- Emphasize that the public, agencies and businesses are all partners in the collective need to reduce our total carbon footprint rapidly;
 - We are all hitched to the same wagon because a sustainable environment is a common good
 - Heightened awareness better prepares all parties to contribute effectively, collectively and cooperatively,
- Generate momentum to accelerate the county's achieving its eventual goal in carbon emission reduction, hopefully well before 2050.

Teams

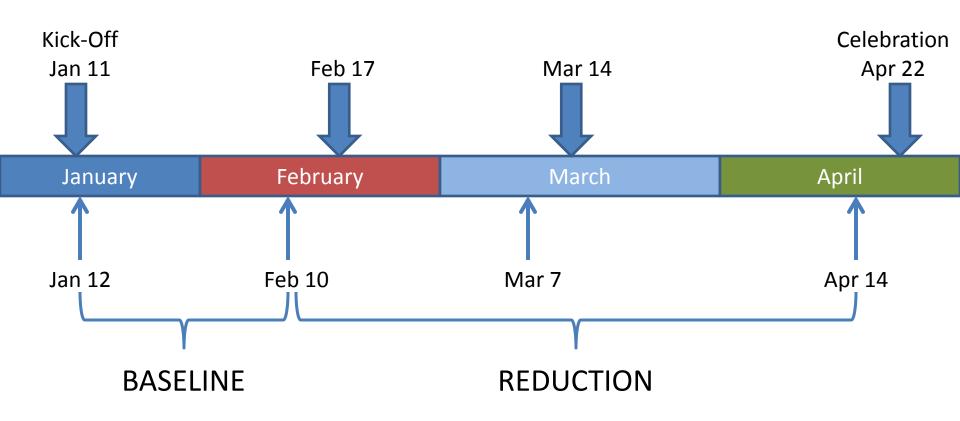
Team Name	Organization	Contact	
Jefferson County	Jefferson County	Laura Tucker	
Kale Krushers	Co-Op	Kenna Eaton	
St. Paul's Pandas	St. Paul's Church	Val Johnstone	
Gray Wolves	none	Bill Ferguson	
Snow Leopards	none	Judy Alexander	
Team WSU	WSU	Kate Dean	
ET	Local 20/20 Energy/TLAB	Peter Lauritzen	
Tufted Puffins	QUUF	Paul Loubere	
Starfish	QUUF	David Covert	
Newts	QUUF	Rick Doherty	
Songdogs	QUUF	Rick Cote	
Honey Bees	QUUF	Kees Kolff	
4-H PT STEM Club	4-H PT STEM Club	Ella Ashford	
Chums	Jefferson Land Trust	Erik Kingfisher	
Hellbender	none	Ben Bauermeister	
Team JCS	Jefferson Community School	Gary Perless	

http://www.L2020.org/climate-action/bigfoot

Communication



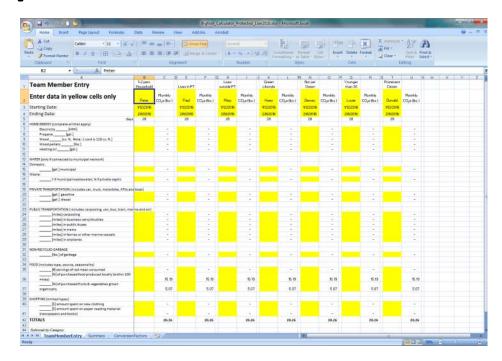
4 Meetings



2 Phases

Taming Bigfoot Carbon Footprint Calculator

- Customized for Jefferson County
- Indicative, not comprehensive
- Includes major sectors:
 - Home
 - Energy use
 - Water/waste water
 - Garbage
 - Transportation
 - Private
 - Public/shared
 - Food
 - Shopping



Recording & Reporting

Meter readings: for Initial Reading: Final Reading: Add to below: Wood or wood Weight of garb: Spent on clotl Food purchased source Daily activity	pellets used age bag taken out hes or reading ma d: organic or local	t eterial	Gallor Miles train,	ns of gas/dies carpooled or ferry, plane	el purchased traveled in bus, aten each day
Final Reading: Add to below: Wood or wood Weight of garb: \$ spent on cloti Food purchased source	age bag taken out hes or reading ma d: organic or local	terial	 Miles train, 	carpooled or ferry, plane	traveled in bus,
Add to below: Wood or wood Weight of garb: \$ spent on cloti Food purchased source	age bag taken out hes or reading ma d: organic or local	terial	 Miles train, 	carpooled or ferry, plane	traveled in bus,
Wood or wood Weight of garb: \$ spent on clotl Food purchased source Daily activity	age bag taken out hes or reading ma d: organic or local	terial	 Miles train, 	carpooled or ferry, plane	traveled in bus,
Weight of garb: \$ spent on clot! Food purchased source Daily activity	age bag taken out hes or reading ma d: organic or local	terial	 Miles train, 	carpooled or ferry, plane	traveled in bus,
\$ spent on cloti Food purchased source Daily activity	hes or reading ma d: organic or local	terial	train,	ferry, plane	
Food purchased source Daily activity	d: organic or local				aten each day
source Daily activity		-	Servir	ngs of meat ea	aten each day
Daily activity					
	12	13	14	15	16
	READ METERS				
17 18	19	20	21	22	23
17	13	20		122	25
24 25	26	27	28	29	30
24 25	26	27	28	29	30
31 FEBRUAR 1	Y 2	3	4	5	6
-					
7 8	9	10 -FILL OUT DATA SHEET			
		AND			

Endi	ing Date:
MAI	KE SURE THAT ENTERED QUANTITIES REFLECT USE BY ONE INDIVIDUAL
HON	IE ENERGY (complete all that apply):
	Electricity [kWh]
	Propane (or LPG) [gal.]
	Wood [cu. ft; Note: 1 cord is 128 cu. ft.]
	Wood pellets [lbs.]
	Heating oil [gal.]
	(ER (only if connected to municipal networks)
Dom	estic Supply:
	[gal.] municipal
Wast	tewater:
	[Y/N] connected to municipal sewer
PERS	ONAL TRANSPORTATION (includes car, truck, motorbike, ATVs and boat)
	[gal.] gasoline
	[gal.] diesel
	[Alternative: provide make/model/year of each vehicle and miles driven]
PUBI	LIC/SHARED TRANSPORTATION (includes carpooling, van, bus, train, marine and air)
	[miles] carpooling; only "your" share: i.e., divide miles travelled by the number of
	occupants
	[miles] in business vans/shuttles; only "your" share: i.e., divide miles travelled by the
	number of occupants
	[miles] in public buses
	[miles] in trains
	[miles] in ferries or other marine vessels
	[miles] in airplanes
NON	-RECYCLED GARBAGE
	[lbs.] of garbage
FOO	D (includes type, source)
	[#] main-entrée (4 oz. or more) servings of store-purchased meat (e.g., beef, lamb,
	pork) consumed
	[%] of purchased food produced locally (i.e., within 100 miles)
	[%] of purchased fruits & vegetables grown organically
SHO	PPING (includes source, type)
	[\$] amount spent on new clothing
	[\$] amount spent on paper reading material (newspapers and books)

Tally Sheet (optional)

Data Reporting Sheet (required)

Recording & Reporting

Meter re Initial Rea Final Rea Add to bel • Wo • We • \$ sy • Foo	January 12 adings: for ele ading: ding: ow: ood or wood pel eight pent od p	- February	ane, heating oil	and/or wat	s of gas/diese		fc	or	b	Starting Date: Ending Date: Ending Date: MAKE SURE THAT ENTERED QUANTITIES REFLECT USE BY ONE INDIVIDUAL HOME ENERGY (complete all that apply):
17	a	IVa	ail	al	ble	e c	or	1 t	h	e website of hiles travelled by the
17	25	V a	ail	al	29	e (or 	n t	:h	
							or	n t	:h	e website

Tally Sheet (optional)

Data Reporting Sheet (required)

Data Reporting Sheet (1)

Data Sheet for Taming Bigfoot CO₂e Emissions Calculator

Starting Date: Ending Date:
MAKE SURE THAT ENTERED QUANTITIES REFLECT USE BY ONE INDIVIDUAL
HOME ENERGY (complete all that apply): Electricity [kWh] Propane (or LPG) [gal.] Wood [cu. ft; Note: 1 cord is 128 cu. ft.] Wood pellets [lbs.] Heating oil [gal.]
WATER (only if connected to municipal networks) Domestic Supply: [gal.] municipal Wastewater:
[Y/N] connected to municipal sewer
PERSONAL TRANSPORTATION (includes car, truck, motorbike, ATVs and boat) [gal.] gasoline [gal.] diesel [Alternative: provide make/model/year of each vehicle and miles driven]



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IPUD > Pay Your Bill Online

Pay Your Bill Online

Online bill payment and cuss mer usage data will be offered through SmartHub starting November 9, 2015,

Please note that the processing of your payment may take five to seven business days to show activity on your account. We do not submit account information on weekends or holidays.

If you are having difficulty setting up your account or making a payment, contact us.

Quick Links

Pay Your Bill Online Payment Options Service Requests Billing Policies

PUD Billing Statement

Report Outage





Log Out | Home | Help | Pay Now » | F

Report An Outage

Billing & Payments ▼ My Usage ▼ Have a Question? Get Help. » Home My Profile ▼ Notifications -**Contact Us** Quick Links View and Manage My Usage Communication / Alerts I want to... We've improved your usage management tools! Welcome to SmartHub 01/11/2016 · Pay My Bill **Key Features** Thank you for checking us out on the web! SmartHub free mobile apps are · Manage My Registered available for download Analyze and understand usage trends to Accounts find ways to cut back. View Billing History Create and track a monthly budget to avoid View Usage unexpected high utility bills. View Outages Set a point or range in time to compare · Get Help differences in usage. And much more.

Start Now »

Check out all the great My Usage feature!

Available on the App Store

App Store

Android APP ON Google play

Outage Map

Account Overview Pay all outstanding balances »



Log Out Home Help

Pay Now »

Report An Outage

Home Billing & Payments → My Profile → My Usage → Notifications → Contact Us Have a Question? Get Help. »

My Usage

Usage Explorer

Average Usage

Usage Comparison

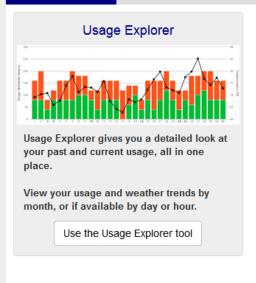
Usage Management

My Usage

This My Usage section provides several tools for you to analyze your past and current usage, as well as plan and conserve in the future. Compare your use and costs, set markers to monitor changes in your usage over periods of time, and get energy saving tips. Click the tabs below to learn more about these tools.

Analyze Your Usage

Explore Usage Management

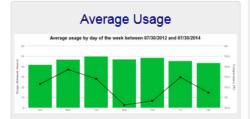




Usage Comparison lets you compare two bills worth of usage history side by side.

View the differences between this month last year, or other combinations to see how your bill varies each month.

Use the Usage Comparison tool



Average Usage shows you what your typical or average usage is for your selected time period.

For example, see your average usage on each day of the week (such as Tuesdays), over the course of a year. Or see your typical usage in each hour of the day over the course of 2 weeks. Discover when you can save the most on your utility bill.

Use the Average Usage tool







FYI: must click on a month to get this daily record

Data Reporting Sheet (1)

Data Sheet for Taming Bigfoot CO₂e Emissions Calculator

Starting Date: Ending Date:
MAKE SURE THAT ENTERED QUANTITIES REFLECT USE BY ONE INDIVIDUAL
HOME ENERGY (complete all that apply): Electricity [kWh] Propane (or LPG) [gal.] Wood [cu. ft; Note: 1 cord is 128 cu. ft.] Wood pellets [lbs.] Heating oil [gal.]
WATER (only if connected to municipal networks) Domestic Supply: [gal.] municipal
Wastewater:[Y/N] connected to municipal sewer
PERSONAL TRANSPORTATION (includes car, truck, motorbike, ATVs and boat) [gal.] gasoline [gal.] diesel [Alternative: provide make/model/year of each vehicle and miles driven]

Data Reporting Sheet (2)

PUBLIC/SHARED TRANSPORTATION (includes carpooling, van, bus, train, marine and air)
[miles] carpooling; only "your" share: i.e., divide miles travelled by the number of
occupants
[miles] in business vans/shuttles; only "your" share: i.e., divide miles travelled by the
number of occupants
[miles] in public buses
[miles] in trains
[miles] in ferries or other marine vessels
[miles] in airplanes
NON-RECYCLED GARBAGE
[lbs.] of garbage
FOOD (includes type, source)
[#] main-entrée (4 oz. or more) servings of store-purchased meat (e.g., beef, lamb,
pork) consumed
[%] of purchased food produced locally (i.e., within 100 miles)
[%] of purchased fruits & vegetables grown organically
SHOPPING (includes source, type)
[\$] amount spent on new clothing
[\$] amount spent on paper reading material (newspapers and books)
MAKE SLIDE THAT ENTEDED OLIANTITIES DECLECT LISE BY ONLY ONE INDIVIDUAL

Recording & Reporting

Period	: January 12	- February	10, 2016			
	readings: for el	ectricity, propa	ne, heating oil	and/or wa	iter	
	eading:					
Final Re	eading:					
Add to b	elow:					
	Vood or wood pe	llets used		 Gallor 	ns of gas/dies	el purchased
	Veight of garbage					traveled in bus,
	spent on clothes	_			ferry, plane	
	ood purchased: o	organic or local	-	 Servir 	ngs of meat ea	iten each day
S	ource					
D-:l	atuta.					
Daily a	JANUARY	12	13	14	15	16
	SAITOART	READ METERS	15	-	13	10
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	FEBRUARY	2	3	4	5	6
	1					
7	8	9	10 -FILL OUT			
			DATA SHEET AND			
				1	1	1
			SUBMIT TO			

Ending Date:	-
MAKE SURE THAT ENTERED	QUANTITIES REFLECT USE BY ONE INDIVIDUAL
Propane (or LPG) Wood Wood pellets	[kWh]
WATER (only if connected to n Domestic Supply:[gal.] municip Wastewater:	,
[gal.] gasolin [gal.] diesel [Alternative: provide n	I (includes car, truck, motorbike, ATVs and boat) ie make/model/year of each vehicle and miles driven] ATION (includes carpooling, van, bus, train, marine and air)
occupants [miles] in bus number of occupants [miles] in pub [miles] in trai	ins ries or other marine vessels
NON-RECYCLED GARBAGE [lbs.] of garba	age
pork) consumed [%] of purcha	rée (4 oz. or more) servings of store-purchased meat (e.g., beef, lamb, used food produced locally (i.e., within 100 miles) used fruits & vegetables grown organically
SHOPPING (includes source, ty	ype) pent on new clothing

Tally Sheet (optional)

Data Reporting Sheet (required)

Tally Sheet (1)

Use this page to get to	ack of your activities throu	gh the month-long pe	eriod.
Period: January	12 - February 10, 20	16	
Meter readings: fo Initial Reading:	electricity, propane, heati	ing oil and/or water	
Final Reading:			

Tally Sheet (2)

Add to below:

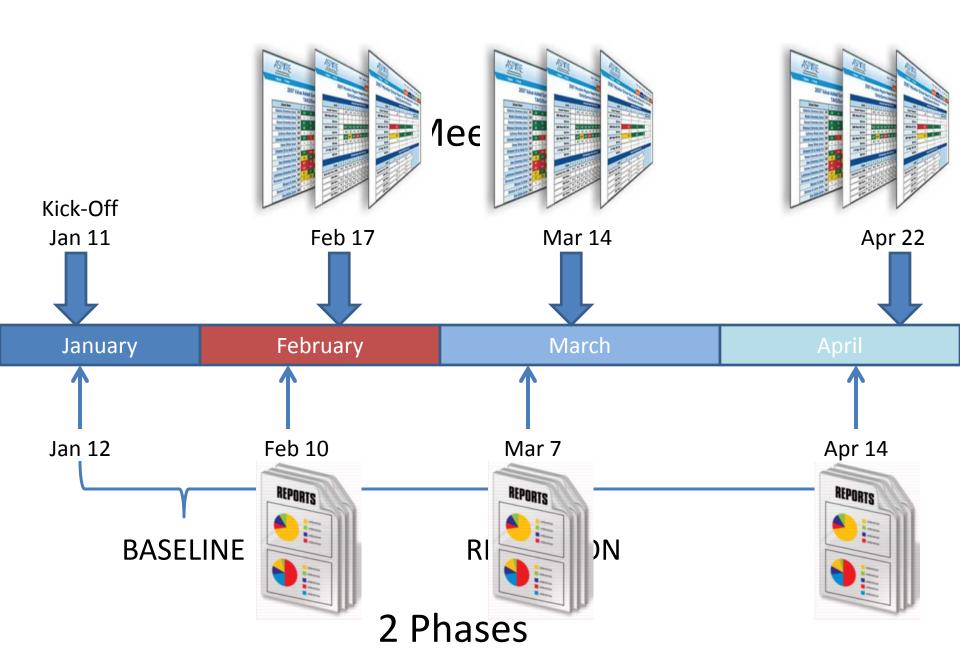
- Wood or wood pellets used
- Weight of garbage bag taken out
- \$ spent on clothes or reading material
- Food purchased: organic or localsource

- Gallons of gas/diesel purchased
- Miles carpooled or traveled in bus, train, ferry, plane
- Servings of meat eaten each day

Daily activity

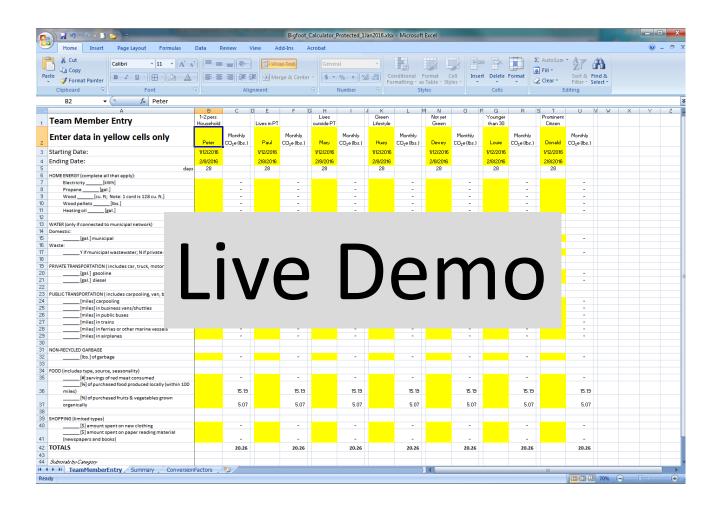
	JANUARY	12 READ METERS	13	14	15	16
17	18	19	20	21	22	23

7	8	9	10 -FILL OUT
			DATA SHEET
			AND
			SUBMIT TO
			TEAM
			RECORDER



http://www.L2020.org/climate-action/bigfoot

Team Recording





- Have nearly 100 prizes donated by 40 sponsors
- Our distribution is designed to guarantee lots of winners
- Grouped into team and individual categories
 - but no team can win more than one team prize package

Four Prize Categories

- Overall (across all sectors)
- Home sector (energy, water, garbage)
- Transportation sector (private and shared)
- Food/Shopping sector

Two Methods of
Determining
Greatest Carbon
Footprint Reduction

- Absolute reduction in lbs. of CO₂ from baseline
- Percent reduction from baseline

12 Team Prize Packages (7 items each)

Absolute Reduction:

- 1st Overall
- 2nd Overall
- 3rd Overall
- 1st Home sector
- 1st Transportation sector
- 1st Food/Shopping sector

Percentage Reduction:

- 1st Overall
- 2nd Overall
- 3rd Overall
- 1st Home sector
- 1st Transportation sector
- 1st Food/Shopping sector

Remember, no one team can win more than one team prize

14 Individual Prizes (1 item each)

Absolute Reduction:	Percentage Reduction:	<u>Team Role</u>
 1st Overall 	 1st Overall 	1-2 person household
 1st Overall 	 1st Overall 	Lives in Port Townsend
 1st Overall 	 1st Overall 	Lives outside Port Townsend
 1st Overall 	 1st Overall 	Lives green lifestyle
 1st Overall 	 1st Overall 	Not yet green lifestyle
 1st Overall 	 1st Overall 	Younger than 30
 1st Overall 	 1st Overall 	Prominent citizen

Special Individual Prize!

To the person with the lowest carbon footprint during the competition phase (no baseline)



Taming Bigfoot Champion

Sample Prize Packages

- Assortment
 - Composter
 - Solar Siteevaluation
 - -2 bottles of wine
 - -2 theater tickets
 - Bike tune-up

- Bundle
 - Spring CSApackage (weekly delivery of organically grown foods)

Ready to get Started?

Here are some things to jumpstart your team:



- JeffersonCAN.org
 - sections on energy efficiency, food choices, transportation, etc.
 - ideas on additions can be emailed to info@jeffersoncan.org
- Kill—A-Watt Meters (courtesy of Jeff Co PUD and L20/20 Energy Action!)
 - Each team gets one to use during the competition
 - Use to measure how much power is being used by appliances
- Facebook.com/tamingbigfoot
 - Suggestions will be posted
 - Weekly challenges might appear
- L2020.org/announcements
 - Yet more suggestions
- Compare notes and share ideas among your team!

'Like' our Facebook Page!



Questions?



http://www.L2020.org/climate-action/bigfoot