Annual Sustainability Report



2015 Report

| Verified By | Kayli Anderson |
|-------------|-----------------------------|
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| Completed | 12/4/2016 |



Executive Summary

Eagle Wing Tours is a carbon neutral whale watching company based in Victoria, BC, offering adventure tours around Southern Vancouver Island. Their scope includes emissions and activities for one small office/reception space at Fisherman's Wharf and four boats. 2015 marks the sixth year that they have measured, reported and offset their carbon footprint.

Near the end of 2014, a new boat - 4 Ever Wild - was added to the company's fleet. The boat uses roughly the same amount of fuel as their 12-passenger boat, but can seat up to 50 guests, making each Eagle Wing trip much more efficient.

Company Information

| Company Name | Eagle Wing Tours | | |
|----------------------|--|-------------------------|----------------|
| Contact Information | Brett Soberg | info@eaglewingtours.com | (250) 384-8008 |
| Company Description | One office/reception building, four boats, three company vehicles. | | |
| Reporting Period | December 1st, 2014 - Nov | rember 30th, 2015 | |
| Inventory Boundary | Scope 1 (Direct Emissions) - Gasoline, Diesel/Marine Diesel (Fuel for 4 boats + company vehicles) Scope 2 (Indirect Emissions from Purchased Electricity) - Purchased Electricity (BC Hydro) Scope 3 (Indirect Emissions from Other Sources) - Water, Waste, Stationary, Paper Products, Company Travel, Shipping, Service Calls, Staff Commuting | | |
| Primary Measurement | Carbon Dioxide Equivaler | nt (CO₂e) | |
| Reporting Guidelines | Aligned with those defined in The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition (The GHG Protocol, www.ghgprotocol.org) . Emissions factors reviewed & approved by Offsetters. | | |



Carbon Footprint (Summary)

Eagle Wing Tours 2015 Report



Total emissions: **731.1** tCO₂e

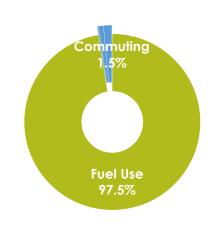
Offset cost: \$14,621

By adding a fuel-efficient catamaran boat to their fleet, Eagle Wing Tours has reduced emissions per passenger by 39% while the total carbon footprint increased by 14.4%. Congratulations on minimizing the carbon impact of the wildlife tours!

Carbon Footprint (By Activity)

Emissions by Activity (tCO₂e)





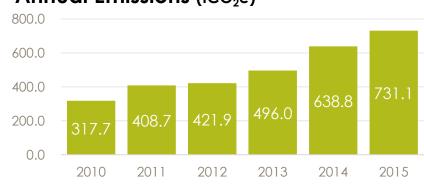
Scope 1

Scope 2

Scope 3

Carbon Footprint (Historical)

Annual Emissions (†CO2e)



| | tCO₂e | Change since Baseline | |
|------|----------|-----------------------|---------|
| | Per Year | tCO₂e | Percent |
| 2010 | 317.7 | | |
| 2011 | 408.7 | 91.0 | 28.7% |
| 2012 | 421.9 | 104.2 | 32.8% |
| 2013 | 496.0 | 178.4 | 56.1% |
| 2014 | 638.8 | 321.1 | 101.1% |
| 2015 | 731.1 | 413.4 | 130.1% |

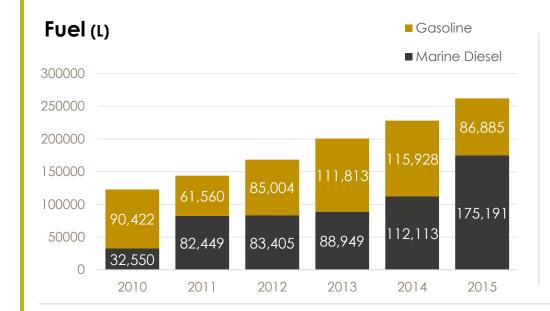








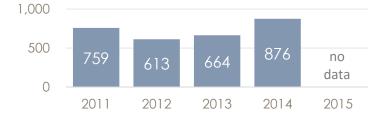
FUEL



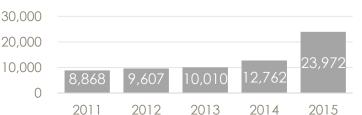
Analysis

Fuel use continues to increase as Eagle Wing expands and conducts more tours. The new catamaran, 4 Ever Wild, runs on marine diesel (with a lower emissions factor than gasoline) and carries 50 passengers-resulting in a 39% drop in emissions per passenger. Fuel use is expected to increase as business grows, with a focus on minimizing emissions per passenger.

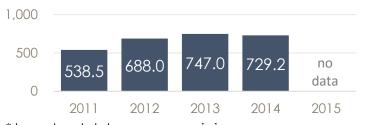
Total Trips



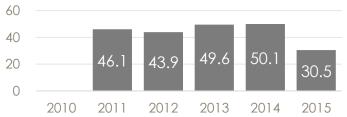
Total Passengers



kgCO₂e/Trip*



kgCO₂e/Passenger*



* based on total company emissions

Change since 2014

| 2015 KPI's | All boats | Amount | Percent |
|-----------------------|-----------|---------|---------|
| Total 2015 Passengers | 23,972 | 11,210 | 47% |
| Total 2015 Trips | no data | no data | no data |
| kgCO₂e/Passenger | | | |

Litres / trip no data

tCO₂e 712.5

% of Total 97.5%



Electricity

Electricity (kWh) 10,000



Analysis

Eagle Wing's electricity is estimated based on square footage, since it is not metered separately from other tenants at Fisherman's Wharf. While usage changes will not be reflected in this report, the company has made efforts to minimize use, including turning off equipment at night and reducing phantom loads.

* Note: Eagle Wing's electricity has no associated carbon emissions, since it is purchased through Bullfrog Power

kWh /

18

tCO₂e

N/A

% of Total

N/A



8.0 Houses

Water



Analysis

Minimal water is used on site. It is measured based on square footage, and is not metered separately from surrounding businesses. As such, changes in use will not be seen.

 m^3 / ft^2

0.2

tCO₂e

0.04

% of Total

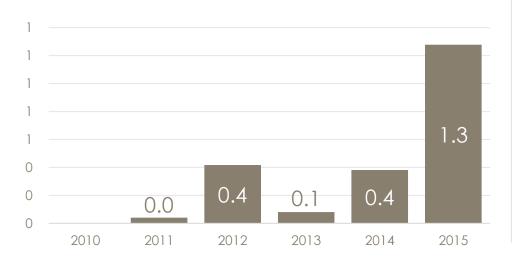
0.0%



501 Baths (50gal)

Service Calls

Emissions (tCO2e)



Analysis

Service calls account for 0.2% of Eagle Wing's total carbon footprint. They include the many trips made by Eagle Wing staff and mechanics to the docking station in Sidney, BC, where the boats are serviced. In 2015, one mechanic was commuting from Sooke to Sidney which increased emissions slightly (0.4 to 1.3 tCO₂e).

Visits / Day

2.7

tCO₂e

1.3

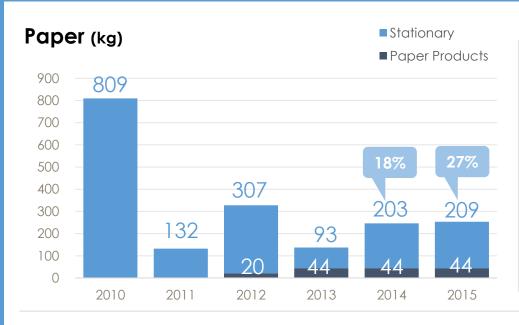
% of Total

0.2%



0.3

Paper



Analysis

Paper includes waivers, brochures, toilet paper and coffee cups (for hot chocolate on cold or late-night trips). Paper use has remained fairly consistent while the number of passengers has increased 47%. Electronic waivers keep paper use low. Percentage of post consumer recycled content increased to 27% from 18%.

* Eagle Wing Tours uses FSC Certified paper for their brochures.

Treeless Content 27%

tCO₂e

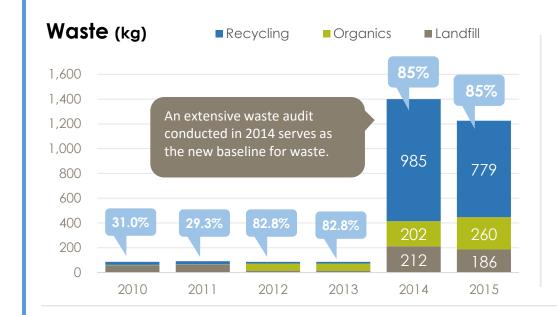
0.6

% of Total 0.1%



4.9Trees / Year

Waste



Analysis

Eagle Wing Tours began collecting food scraps at Fisherman's Wharf in 2012 and has been advocating for the service to be included in the lease ever since. In 2015, a comprehensive waste management program was implemented thanks to their efforts. Waste diversion over the last two years has remained steady at 85%.

kg / Day

3.4

tCO₂e

0.1

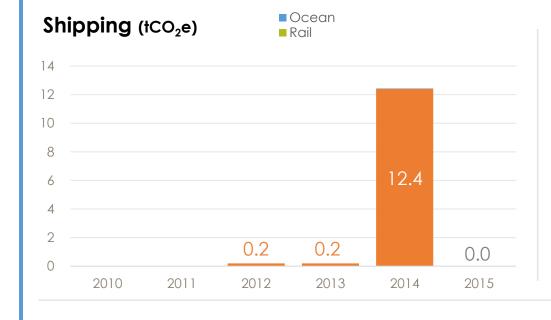
% of Total

0.0%



84.8%Diversion Rate

Shipping



Analysis

In 2014, parts were shipped for the new boat by air. In 2015, an outboard motor and propellers were shipped locally by ground resulting in 0.002 tCO₂e.

kgCO₂e / km

0.0

tCO₂e

0.0

% of Total

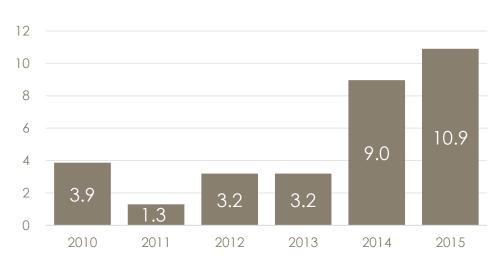
0.0%



O.O

Commuting

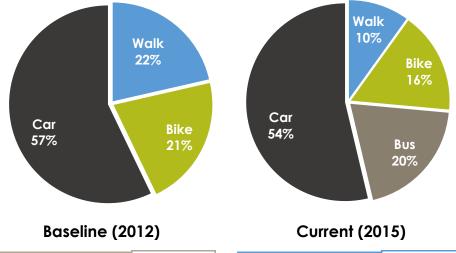
Emissions (tCO2e)



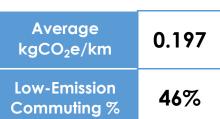
Analysis

As Eagle Wing Tours continues to grow, adding larger boats and more tours, total number of staff/shifts has increased. This has resulted in a rise in associated staff commuting emissions. Staff commuting only accounts for 1.5% of EWT's total carbon footprint but is the second largest source of emissions followed by travel at 0.8%.

Commuting Percentages by Method per Day



| Average kgCO ₂ e/km | 0.238 |
|-----------------------------------|-------|
| Low-Emission Commuting % | 43% |



Analysis (Breakdown)

Total number of staff commuting by sustainable means (biking, walking or bussing) has increased from 43% to 46%!

The most common reasons staff cited as keeping them from walking, biking or bussing more often were...

- 1) Long work days on the ocean,
- 2) Excessive distance,
- 3) Personal Safety concerns.

Eagle Wing Tours can continue to encourage staff to bike, walk or bus by providing incentives.

tCO₂e / FTE 0.419

tCO₂e 10.9

% of Total 1.5%

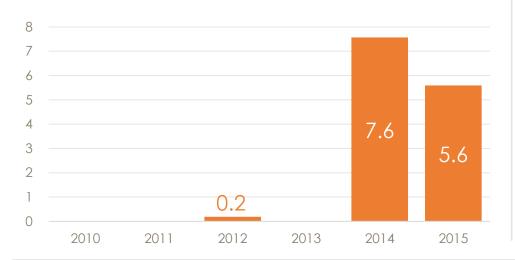


2.9Cars / Year

^{*} The staff commuting survey was conducted in the winter months when staff numbers are low and extrapolated for summer staff.

Travel

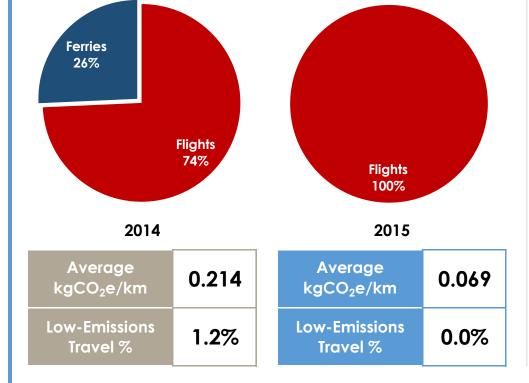
Emissions (†CO2e)



Analysis

As part of general operations, Eagle Wing Tours does not conduct much business travel. However, several trips were made in 2014 and 2015 to research, view and purchase the new boats.

Travel Percentages by Number of Trips



Analysis (Breakdown)

No ferry trips were made in 2015 and fewer flights were taken than in 2014. Travel accounts for 0.8% of Eagle Wing's total carbon footprint at 5.6 tCO₂e. Continuing to limit travel will keep emissions low.

tCO₂e / 0.215

tCO₂e

5.6

% of Total

0.8%



1.5
Cars / Year

Carbon Reduction Strategy

Over the last five years, Eagle Wing Tours has made significant efforts to reduce their environmental impact while successfully growing their business. By targeting fuel efficiency in their boats, they have been able to cut the emissions per passenger by 39% since 2014 and expect to see further reductions in 2016.

Eagle Wing has begun sharing information about their carbon footprint with passengers. They educate their guests about the impact of each trip, and how it affects the wildlife and ecosystems they are viewing. By focusing on reducing emissions and impact, they have become award-winning leaders in the eco-tourism industry on Vancouver Island.

In 2016, Eagle Wing Tours will be launching the Wild For Whales Foundation to continue their efforts in advocating for and protecting the marine wildlife in the Salish Sea.

Achievements

CLIMATE ACTION

- Carbon Neutral for six years
- Switched to Bullfrog Power
- Reduce emissions per passenger by 39%

CONSERVATION

- Introduced \$2 wildlife fee (Industry first!)
- 1% For the Planet members
- Founding members of ViSTA
- Coordinated World Oceans Day

AWARDS

- 2014 Sustainable Tourism Business Award TIAC
- 2014 CRD EcoStar, Environmental Leadership
- 2013 Tourism VI Sustainable Business Award
- Green Tourism Canada GOLD 2013

Moving Forward

- Launch the Wild For Whales Foundation
- Replace Goldwing motors with larger, more efficient motors
- Researching opportunities to convert motors to biodiesel, hybrid and/or electric

Information on Inventory Uncertainty

* Electricity and Water use are estimates based on billing and square footage, as Eagle Wing is not independently metered for these utilities.

Emissions References

- 1. 2014 B.C. Best Practices Methodology for Quantifying Greenhouse Gas Emissions http://www2.gov.bc.ca/assets/gov/environment/climate-change/policy-legislation-and-responses/carbon-neutral-government/measure-page/2014 be best practices methodology for quantifying greenhouse gas emissions.pdf
- 2. Environment Canada's National Inventory Report (1990-2012)
 - Part 2 http://publications.gc.ca/collections/collection-2014/ec/En81-4-2012-2-eng.pdf
 - Part 3 http://publications.gc.ca/collections/collection 2014/ec/En81-4-2012-3-eng.pdf
- 3. Department for Environment, Food & Rural Affairs (UK) Carbon Factors http://www.ukconversionfactorscarbonsmart.co.uk/
- 4. Intergovernmental Panel on Climate Change (Global Warming Potentials) http://www.ipcc.ch/publications and data/ar4/wg1/en/ch2s2-10-2.html

All emissions factors are reviewed and approved by Offsetters (www.offsetters.ca) on an annual basis.

Glossary of Terms

| Term | Description |
|--------------------|---|
| CFL | Compact Fluorescent Light |
| GHG | Greenhouse Gas (emissions): Atmospheric gasses contributing to the greenhouse gas effect, including Carbon Dioxide (CO ₂), Methane (CH4), Nitrous Oxide (N2O), etc. |
| GJ | Gigajoule : Unit of natural gas equal to 38.26 L or 26.137 m ³ |
| HVAC | Heating, Ventilation & Air Conditioning |
| KPI | Key Performance Indicators (Highlights) |
| kWh | Kilowatt-Hour: Common unit for measuring electrical consumption |
| LED | Light Emitting Diode: A form of highly efficient lighting technology |
| m ³ | Cubic Meter: Unit of measurement equal to 1,000 Litres |
| PCR% | Post-Consumer Recycled Content (as a percentage) |
| psg-km | Passenger-Kilometer: Unit separating total emissions between passengers per km |
| Ream | Standard unit of paper measurement equal to 500 sheets (with 10 reams in one box) |
| T12/T8/T5 | Models of common fluorescent tube lighting |
| tCO ₂ e | Tonnes of Carbon Dioxide Equivalent: GHGs have different warming potentials, measured collectively as CO ₂ equivalent (hence "e") |
| t-km | Tonne-kilometer: A unit of measurement used in shipping |

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