Fishing Industry Emissions Calculator

This document may be used to collect data for buildings, vehicles, vessels or aircraft and air-travel. The first section contains general notes on each type of asset and the second contains tables to enter the data on.

If you are part of a large organisation and would like to save some time, send this document to a representative from each building or vessel etc. Ask them to fill it out and send it back to you.

Buildings

Remember to consider each building in the business. To get a comprehensive figure it may be easier to assess your operations by looking at buildings under the following categories:

- Offices - or room in your house you use as an office (as a proportion of the whole building).
- Cool stores/refrigeration facility.
- Land-based holding facilities for live product.
- Maintenance workshops - including general maintenance, vehicle, vessel and aircraft maintenance.

Remember to include the energy used for any laundry or cleaning associated with these buildings.

Vessels

You can calculate the emissions for each of your vessels individually or you can group them together. Remember to consider each vessel in the business. Include main boats and ancillary vessels such as tenders, dories etc.

Also include any vessel-associated generators. Remember to include the energy used for any laundry or cleaning.

Vehicles

Remember to consider all vehicles in the business. Include office cars, company cars, trucks, tractors, work-utes and hire cars used on work trips. Remember to include the energy used for any cleaning.

Aircraft and Air Travel

If you are a fisher who owns or charters aircraft, answer these questions for all aircraft in the business. Include maintenance flights and journeys for management and staff. Remember to include the energy used for any cleaning. You may need to contact the charter operator to establish these figures.

For businesses who wish to calculate the CO2-e for travel or freight on commercial airlines please note the following: The AGO has published CO2-e factors which relate directly to the type of fuel used by an aircraft and therefore we need to know the amount of fuel used per flight to make accurate calculations. This is relatively easy for owner operators or charter flights.

Many commercial airlines have carbon offset programs associated with their websites as the airline knows the average fuel usage per passenger or per unit of freight on each flight leg. This calculator does not calculate CO2-e per passenger for a given flight. A tool which does perform these calculations can be found at http://www.carbonplanet.com/shop/flight_emissions_calculator. Fishers visiting this site should be aware that the information contained within it, is not endorsed, sponsored or checked by the GBRMPA. To use data associated with the Flight Emissions Calculator, is done so at the operators own risk.

Data Collection Tables

ELECTRICITY (kWh) **Add up all the monthly or quarterly electricity bills for each building**	**Name of asset**		**Name of asset**		**Name of asset**	
	Quantity	**Cost**	**Quantity**	**Cost**	**Quantity**	**Cost**
% of total which is Green Power						

Note: If you share the building with other users, input figures which directly relate to your business only. If the electricity bills are looked after by the landlord or body corporate, ask them how much power you were billed for in the last year. This may involve calculating how much your business used according to the floor space you occupy. Check your bills to see if you purchase Green Power.

Renewable Energy (kWh) **Is there a solar PV, wind, or hydro power system connected to the asset? How much power is produced?**	**Name of asset**	**Name of asset**	**Name of asset**
	Quantity	**Quantity**	**Quantity**

Note: This does not refer to solar hot water systems.

FUEL (L) TRANSPORT **How much fuel does this asset use?**	**Fuel Type**	**Name of asset**		**Name of asset**		**Name of asset**	
		Quantity		**Quantity**		**Quantity**	
		Day / Week / Month	**Year**	**Day / Week / Month**	**Year**	**Day / Week / Month**	**Year**
	Diesel						
	Bio-Diesel						
	Petrol						
	LPG						

Note: Use fuel bills or usage figures per day, week or month, to estimate the yearly consumption.

FUEL (L) GENERATOR **Is a generator used in association with this asset?**	**Fuel Type**	**Name of asset**		**Name of asset**		**Name of asset**	
		Quantity		**Quantity**		**Quantity**	
		Day / Week / Month	**Year**	**Day / Week / Month**	**Year**	**Day / Week / Month**	**Year**
	Diesel						
	Bio-Diesel						
	Petrol						

Note: Using fuel bills or usage figures per day, week or month, calculate the yearly consumption of the generator.

LPG (kg) **Cooking and Heating** **How much LPG is used for cooking or water heating?**	**Name of asset**		**Name of asset**		**Name of asset**	
	Quantity		**Quantity**		**Quantity**	
	Day / Week / Month	**Year**	**Day / Week / Month**	**Year**	**Day / Week / Month**	**Year**

Note: Calculate how many gas bottles are used in a typical year by the size of the bottles used.

WASTE (kg) Amount thrown out or recycled. See note below for waste description.	Waste Type	Name of asset		Name of asset		Name of asset	
		Quantity		Quantity		Quantity	
		Day / Week	Total Kg per Year	Day / Week	Total Kg per Year	Day / Week	Total Kg per Year
	Municipal						
	Paper and Cardboard						
	Glass, Plastic and Metal						
	Food						
	Garden						
	Mixed						

Note: If all your waste is removed to landfill - weigh the waste produced in a typical day or week and estimate the weight per year. This total is entered under 'Municipal Waste'.

If you recycle some of your waste or have previously calculated your waste stream - weigh the waste of each type produced in a typical day or week and calculate the weight per year. The weight of the waste remaining after recyclable materials have been removed is entered under 'Mixed Waste'.

FUEL (L) AVIATION See notes at top for explanation	Fuel Type	Name of asset		Name of asset		Name of asset	
		Quantity		Quantity		Quantity	
		Day / Week / Month	Year	Day / Week / Month	Year	Day / Week / Month	Year
	AVTUR						
	AVGAS						

AIR TRAVEL (Km) Staff and air freight See notes at top for explanation		Destinations	Distance (Km)	Times per year	Total Distance	TOTAL Km per YEAR

Note: This section is voluntary only and not directly calculated by the Fishing Industry Emissions Calculator.