

Why should we try to reduce our output of blue barrels?

The Carbon Cycle is a natural process where carbon is released and stored in various forms on earth. Carbon Dioxide (CO₂) is the form of carbon in the atmosphere that we breathe everyday. It is important for life as we know it to exist. For millennia it has existed in a delicate natural balance. What is unnatural is the massive release of CO₂ that has occurred since the industrial revolution due to the burning of the carbon stored in fossil fuels. This massive excess of CO₂ in the atmosphere has disrupted the balance as it is accumulating more quickly than it can be stored on earth's surface by the natural cycle. It acts as a greenhouse gas which is warming global temperatures and changing weather patterns around the world.



Want to know more about how you can work to reduce the amount of greenhouse gas emissions your daily routine puts into the atmosphere? Contact us at:

The Reduce the Juice Project
First Mono Place, 367006 Mono Centre
Road
Mono Centre, ON L9W 2Y8

Sponsors:



Fairfield Group



Westside Secondary School
Orangeville District Secondary School



What is a Reduce the Juice Blue Barrel???



www.reducethejuice.ca



0.4kg
= Carbon
Dioxide

Where does the Carbon Dioxide come from?

The average Canadian produces 24 tonnes of carbon dioxide per year which amounts to 600 000 barrels!!! At Reduce the Juice we are asking you to reduce your electricity use by 5% which is equivalent to reducing your carbon dioxide emissions by 2500 barrels (or one tonne) if the electricity was generated by coal power plants.



= 1 kWh produced by a coal power plant



= 1 kWh produced by natural gas

0!

= 1 kWh produced by a renewable energy source (wind, solar)



= 1 litre of gasoline burned by a car

- 60,316,040,000,000 = The number of barrels of CO₂ humans around the world put into the atmosphere each year
- 1,168,057,500,000 = The number of barrels of CO₂ Canadians put into the atmosphere each year
- 1,680,000,000 = The number of barrels of CO₂ people from Orangeville put into the atmosphere each year

What do they Represent?

A blue barrel is simply a 50 gallon rain barrel similar to the ones found on many of the farms across Dufferin county. But we at Reduce the Juice have given these barrels a new meaning. Carbon dioxide (CO₂) -the most important gas contributing to global warming- is invisible. We use our blue barrels to show people just how much carbon dioxide they produce in their day-to-day lives and more importantly how much they can stop from going into the atmosphere by conserving energy.



It is amazing how many blue barrels you can save by making smart choices in your day to day life!

It all adds up!!! Check out these unbelievable blue barrel facts

The number of barrels of CO₂ you can save in a year by switching 3 of your light bulbs to CFL's = **739**

The number of barrels of CO₂ you can save in a year by upgrading a 15 year old fridge to an energy star model = **1510**

There are so many easy ways to Reduce your Juice and the number of blue barrels of CO₂ your actions put up into the atmosphere. Talk to the Reduce the Juice team about different ways you can do your part to stop global warming!

