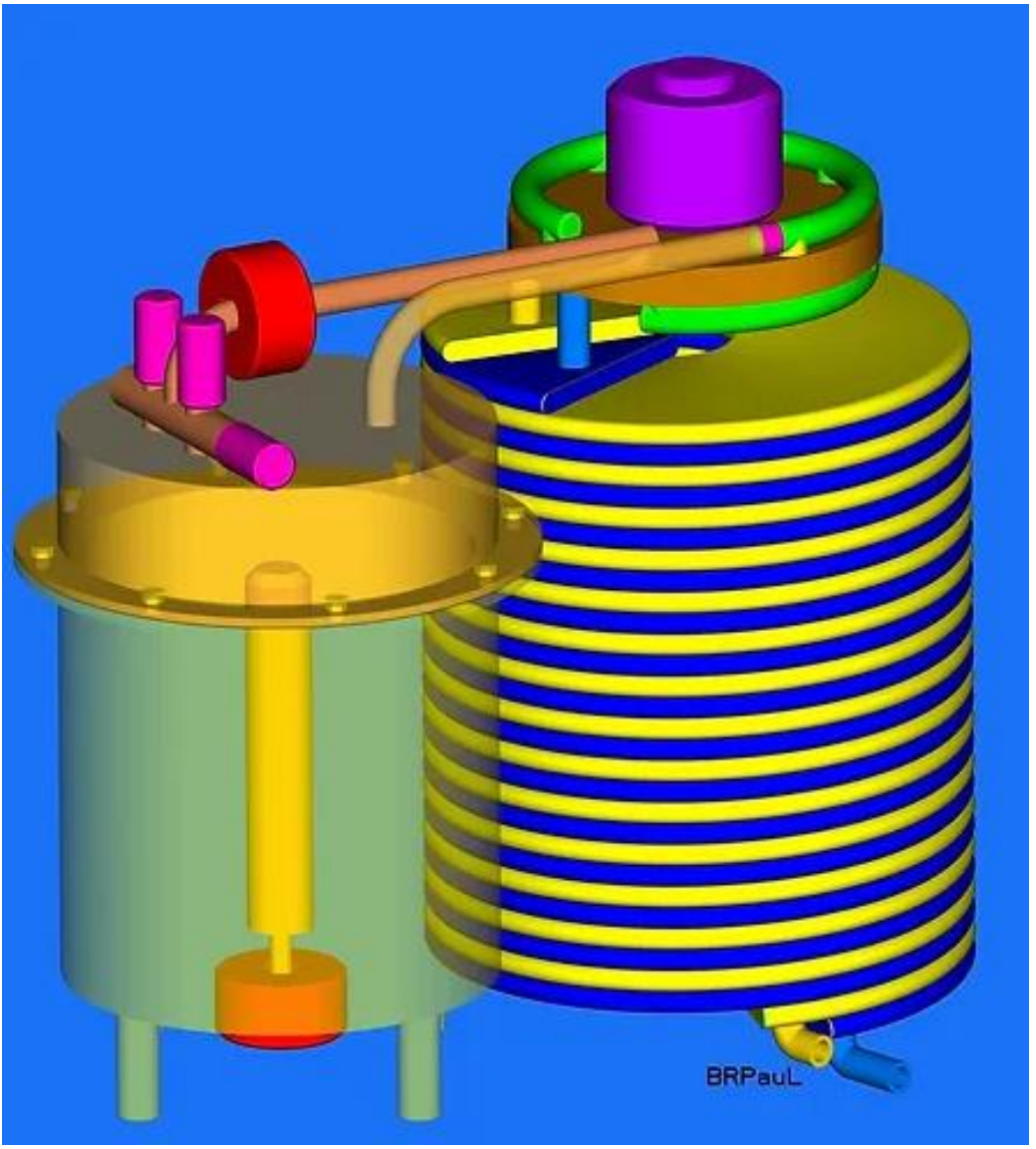
Control Burn



#ControlBurn

By Buddy Paul

Just released " Control Burn" Will Help Reduce U.S. Carbon Footprint.

This Control Burn's release large amounts of Fresh clean Water, and Scientists say, "they produce enough electrical energy to satisfy the charging stations needs of all Electrical Vehicle".

Not to be confused with control burns conducted by the Forest Service. This Control Burn is the burning of (Carbon Dioxide) in today's atmosphere. The compound that is perceived to be the cause of Global Warming.

If we implement this practice and convenience congress this procedure will reduce CO2 emissions to the 2035 projected level be accomplished by 2029.

Carbon Dioxide at the levels before the industrial revolution will be seen around the world by 2028. Managing the levels to keep the CO2 at an ideal condition will become the environmental justice goal.

Plants need the correct CO2 level to accommodate their growth. Enacting a Burn Control to reduce the amount of Co2 in the atmosphere left Uncontrol the Burn will have a destructive effect.

Completely understood needs to be realized so we can avoid a global Freeze instead of Warming. Other life in the Ocean require huge amount of CO2 for their way of life.

The Control Burn of the CO2 in a Control Captive Condition will become very lucrative for the proprietary identity. Before long the amount of free CO2 will be

depleted to a point where it will not support plant, and ocean life and reversal of normal global temperatures begin to fall.

The best thing other than providing a means for keeping universal climate under control is the production of plenty of clean new water and fuel in the form of graphite(Solid Carbon).

This abundant amount of graphite will become the fuel source for the second phase of the Control Burn process.

With the amount of CO2 depleted from the atmosphere the environment justice will be addition of CO2 to the atmosphere.

The huge amount of Solid Carbon that was liberated for today's high levels CO2 atmospheric will become a fuel source for hundreds of years. To help maintain Air stability.

The return remarks from the XPRIZE, Elon Musk 100M Carbon Removal to my submission from Pollution Control was enlightening.

First reply from judge one of not understanding the approach to pollution control CO2 emission, was perceived I did not convey my message. I now believe the depth of submission was not read in its entirety but only the form and not the addition supporting documents of hydrogen generation books along with the capture process detailed within.

The second judge who response did comprehend the process of CO2 breakdown with the Bosh reaction but missed the real benefit of the process. It was conveyed to me of a problem that we had when I was with NASA. The problem for NASA that was pointed out was the key to the perishability of the pollution control system.

The problem of contamination of carbon a herring to steal was a problem if the results was looking for is the production of oxygen for astronauts. The solution of removing Carbon from the air is a plus in the bosh reaction.

Not winning one of $1m of the incentive was disheartening although it became a beneficial find allowing further development without capital investment. Realizing that the grand prize of $50m would not be enough to fulfil the total capital requirement.

Investment of $B and more importantly human involvement and understand is the real goal.

$m investment would only produce a small protype in global view. $B investment would facilitate a working solution and produce a $T profit per year for humanity.

The natural way of rain, cool air and high pressure creates rain drops and they fall from the sky. Use this natural means and CO2 will form rain drops and precipitate from the atmosphere.

The pressure and temperature is greater than it takes for water rain. The temperature and pressure required for CO2 to rain is quite possible with off the shelf commercial products. That is compressors and refrigerators.

With good flow design the capture and release of atmospheric air can be profitable with $1.5 per ton of CO2 capture and release.

The $1.5 per ton is based on industrial sale of electrical current at $.05 per kilowatt. If sold to individuals who charged their electrical vehicles or powered their house profit per ton will be $9.00.

Today there is 7.8 Gigatons of CO2 in the air, recommended we reduce content by ½ to get back to pre-industrial levels of CO2. A removal of 3.9 Gigatons of CO2 required.

At a residential profit margin of $35,100,000,000, that is $35 Billon could be realized. Just for the removal of CO2 itself.

$35B for just the first step now let's figure the profit for changing the liquid CO2 into Graphite and water. Solid carbon produced from the 3.9 Gigatons CO2 is 2.1 Gigatons of Graphite.

New Water produced 2.0 Gigatons from Control Burn of 3.9 Gigatons of CO2.

Sale of new water, $350B plus sale of Graphite $2.1T, that is $2.45 Trillion for the two items. Now let's add in the profit from electrical generation.

$35B seems small compared to the value of the $2.5T for the two products produced. The bigger number is the energy profit from re-combustion of the solid carbon. $25T. That is near the amount of our national dept of today of $31Trilloin.

The one who invested in the equipment to capture the CO2 form the atmosphere now has a revolving door with a huge profit margin. Like rain, that evaporates back into the atmosphere then rains again so will CO2.

This is large investment for the average person so it will take a very wealthy identity such a government or company. Some countries are doing something similar now. Maybe we need to investigate this instead of driving the train in the other direction.

The easy of getting hydrocarbon from the earth will continue for many years to come. Not to say this is bad but it does have a place in an overall balance.

Until the cost of extracting and bringing this product to market it will be a way of life. Eventually cost will drive this process from burning it for fuel to a more technical product.

The amount of carbon dioxide levels have made life possible on earth for both plants and animals. It is necessary and we can control the levels to facilitate ideal conditions. But we do need a Game Plan which accounts for all needs.

Matter cannot be created or destroyed by ordinary means. We can change the form of the elements that has been here for millions of years with our current technology.

We do have an abundant of CO2 in today's atmosphere. This abundant amount can be precipitated out refined down to the base elements of Carbon and Oxygen. This process if done correctly can be beneficial.

We have the technology to take this raw carbon and manufacture any type of Hydrocarbon such as high Octane Gasoline.

The ideal way to mitigate the huge amount of carbon captured form bringing the total high level CO2 of today's atmosphere to an environmental level is Control Burn.

Suppling raw material for other carbon use in various products is a viable options also.

Uncontrol Burn using atmospheric air creates a "Nitrogen Contamination" effect. One of the effects is generation Nitric oxide that gets released back into the atmosphere. Other detrimental environmental may also occur.

Control Burn in a captive environment with the two known elements produce a predict molecule formation with maximum energy output.

The two elements that feed the reaction "Control Burn" are Carbon and Oxygen. The output is unlimited amount of energy and CO2.

This CO2 in a controlled captive environment, pure in form that can be fed into a bosh reactor.

This Control Burn of the burnt hydrocarbon of the past makes for an everlasting supply of renewable energy source.

Unlike Nuclear fuel that has a long life of energy production, it is finite. Then you have a storage issue of the spent fuel. Not to mention the involvement of mining and refining the fuel enrichment procedure.

Whereas lowering the concentration of today's CO2 levels in the atmosphere and ascertaining ample supply combustible fuel is like killing two birds with one stone. Not actually killing the birds with windmills.

Renewable, recycle endless supply of electrical energy to charge EV's, power trains and drive a new industrial revolution for generations to come.

Burn the Graphite, in a captured containment generating electricity, refine the captured CO2 in a Bosh reactor back to Graphite, burn again and repeat. An endless operation.

Recapping the game plan in two stages. Step 1, bring the total level of CO2 concentration aggressively down by the year 2028. Step 2, set up a global maintenance recapture program as required for future generations.

Key points is in the two steps:

1. ***Capture ambient air leaden with excessive CO2. Do this with self-generating compressing and heat transfer technology with electrical generating benefit.***
2. ***Ensuring the huge amount of Carbon that was captured in step 1 is put to good use as a renewable global lifetime energy source.***

After capture of this huge amount of carbon, the equipment aggressively used can be retrofitted to maintain the ideal of CO2 levels.

The explanation of a renewable power source is hard to convey in a way that makes it clear to everyone. Carbon that was once used for the one time use in the industrial revolution and the current means of today's major transportation system will become the heart of our next

generation power grid. This energy will not only drive our new line of fad EVs charging system but power all elements of our lifestyle energy requirements.

The re burn of the carbon that was used decades ago as a power source is now captured and is the fuel in the New "Control Burn" process that does not release its base elements back into the atmosphere. It is a captive system that change the state of the carbon from CO2 back into the graphite state and then again back into the state of CO2.

In both case of transformation from one state to another other an energy exothermic occurs. This energy out is released in the Control Burn as electrical current.

The element of Carbon does not every go away it only pick up another element Oxygen and makes CO2. Now add the element Hydrogen and the Oxygen goes away and base element Carbon is back again.

We get 394 kJ/mol of energy released from Graphite when burned. For Hydrogen 286 kJ/mol.

Energy for Graphite 33 MJ/kg, Hydrogen 142 MJ/kg.

Carbon gives 33,000 MJ/Ton energy that equals 9,166 Kilowatt hrs.

Reference electrolysis 9 MWh makes .25 Tons Hydrogen and 1.83 tons of Oxygen.

Go figure.

C=12, O=16 x 2(32) =CO2=44

C=1 Ton, O=2.7 Tons = 3.7 CO2

Req'd O 2.7-1.83= (.87 Ton O)

Hydrogen gives 142,000 MJ/Ton

X .25 = 35,500 MJ = 9.8 MWh

1.83 + 1.99 = 3.82 – 2.7 = 1.1 Tons O

The Control Burn of 1 Ton of Carbon captured from the atmosphere will surrender 9 Megawatts hours of clean energy back to the grid.

This is the second time that this carbon was incinerated, in a control environment. Other than the electrical current generated back to the grid, the extra Oxygen from the electrolysis can be sold which will compound the original profit margin.

With the Captive Oxygen Fuel Reactor (COFR) ™ recycle of the graphite(renewable energy) in a Control Burn the exhaust of pure Carbon Dioxide (CO_2) is contained for future reburn.

The extra Oxygen produced by the Pulsar™ electrolyzer not only provides oxygen required for the Ton of re-burn graphite provides the required Hydrogen to reduce the captured CO_2 back to Water and Graphite.

It appears we are developing a pattern here. Burning Graphite making electricity and CO_2. Then burning CO_2 to make electricity and Graphite. Endless loop of electrical generation. I see.

Hydrogen required to reduce CO2 back to Graphite is part of the complete equation. Water, H2O requires 2 atoms of Hydrogen (H) for ever atom of Oxygen (O) in CO2. The complete Bosh reaction.

One ton of graphite produces 3.7 tons of CO2 so 2.7 Tons is Oxygen.

O=16, H=1 x 2 so 2H req'd for each O, atomically speaking.

$$Eq = 1 \div 16 \times 2 = .125 \times 2.7 = .3375$$

1/3 Ton of Hydrogen is required to reduce the Oxygen from the CO2 created from 1 Ton of Control Burn of Graphite.

Hydrogeneration of .25 Tons from the Control Burn of graphite and .27 Tons of Hydrogen from Hydrogen Control Burn gives a surplus of .19 Tons of Hydrogen surplus.

This Hydrogen along with the extra Oxygen produced previous sequence we now have enough to pay off the National Debt.

We have a huge amount of graphite we pulled from the air that can satisfy our renewable energy base for eons.

More than 35B tons a year will need to be sequestered in future to maintain the ideal level; with time this amount will drop off if Control Burn is implemented.

With government assistance and recognition this is a sound solution the rate of CO2 reduction can be achieved in less than the suggested date of 2028.

Concerned ecological groups can also facilitate this operation with active participation with hands on involvement and verbal proliferation.

Investors with a vision of normal way of life and disruptive technology making existing products more profitable should step up.

Control Burn by Buddy Paul

Retired NASA Engineer & Inventor, Qualified Team Leader E Musk CO2 Capture Pollution Controls Team and their Game Plan.

Books and Art by Buddy Paul at ***ArtbyBRPauL.com***

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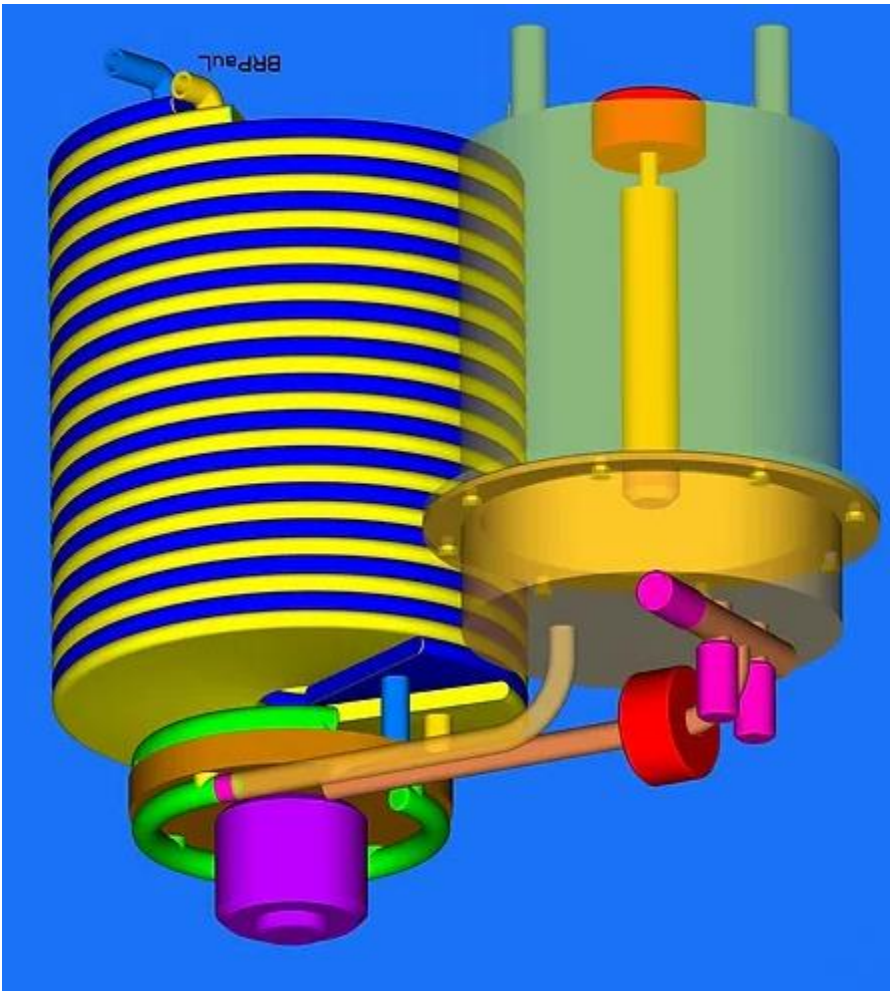

Not upside down!