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INTRODUCTION

The Air 4 Life Foundation [A4LF] is a Non-Profit Organization envisioned by the adoption of a comprehensive approach to the protection of our world, by ensuring the children of today have access to a basic Education as a Right to Life that is necessary for the future survival of Humanity for tomorrow...functioning in the following capacities:

1. Ensure every child between the ages of 5 - 14 years have a chance to attend a school.
2. Train teachers to be educators, exposing them to professional development programs.
3. Reduce illiteracy by promoting awareness and understanding of the importance of protecting the environment, to better combat climate change.
4. Implementation of innovative methods to remove Ozone Damaging Chemicals from the atmosphere caused by outdated Plant Processes in the Manufacturing, Lumber and Mining Sectors.

A4LF intends to reduce the Carbon Footprints left by various Manufacturing, Lumber and Mining Enterprises, by acquiring the Land Rights for these former operations, where they have been abandoned and initiate afforestation efforts by the planting of fruit trees. Also, the revitalization of former coconut, cocoa, coffee, tea, cashew, breadfruit, banana, plantain, and other abandoned plantations worldwide, will greatly assist in the reduction of our Carbon footprint globally. The revitalization program will also be instrumental in sustaining the local population, by providing a source of income, employment, food, and education. Plantations along with primary schools will be developed and constructed, to foster sustainability for this global initiative.

The Carbon Credits which will be generated through these efforts, including the Reforestation Programs, can further be traded to offending industries, as Green Credits with stipulations for the implementation of current worldwide Environmental Protocols and Emission Control Pollution Standards. Additionally, in areas where forest fires have destroyed millions of acres globally. The Air 4 Life Foundation will partner with local Governments to aid in their Reforestation projects.

A4LF will also rely on Smart Contracts and Blockchain technology to give a layer of transparency and accountability to this initiative. The improving of the Global Air Quality, by directly seeking to repair the damage to the Ozone Layer with Ozone generation modules, while continually increasing the affordability, and accessibility of breathable Oxygen as a standard inclusion necessary in all First Aid Kits, that will be donated to schools and homes in developing countries. This will be seen as a first response in the sustainment of life, where Oxygen is needed or required to aid with the care of the elderly, or anyone experiencing an emergency dealing with respiratory difficulties, needing immediate administration of Oxygen. This should now be able to be accomplished, whilst the patient is still awaiting the arrival of first responders, or transportation to a medical facility.

By actively seeking to provide an easily accessible avenue, to an emergency Oxygen source to the global community, A4LF will function in this capacity to greatly reduce the mortality rates in developing countries and here in the USA, by providing free Oxygen generating First Aid Kits equip with Narcan kits.

One of A4LF's mission, would also be to secure a moratorium on the World Market Price for Medical Oxygen which has tripled in the last year due to the high Covid -19 demands. This will further aid in ensuring the affordability of breathable Oxygen in sufficient quantities and quality. A 'Right' that must be guaranteed and protected for all humanity, not only for those with the financial means.

Finally, the Air 4 Life Foundation will provide one other service to Society, by operating with an open-door policy for the rehabilitation of former persons who were once incarcerated, integrating them into A4LF's labor force, based on their various levels of expertise and skills. This will also reduce the overall operating cost for most projects. The fostering of working relationship with Governments to draw on their penial populations who may be eligible for participation in Work Release Program, but lack willing employers to hire selectees, would not only assist participants but also their families .Our vision is to secure a better tomorrow by educating all of the Worlds' Children today, with the understanding that environmental conservation provides clean air, and a sustainable world, with affordable breathable Oxygen as -A Right to Life for future generations.

In summary, the Air 4 Life Foundation (A4LF) is a legally registered non-profit. The global initiatives are mainly focus on the development of an array of innovative programs to drastically reduce illiteracy of kids, and the reducing of Carbon footprint activities that promotes climate change. This will all be carried out in conjunction with our focus, of providing free First-Aid Kits with breathable Oxygen. All by utilizing Smart Contracts with their underlying blockchain technology, bringing transparency and accountability to all. A4LF will also rely on other innovations to ensure the success of its mission.

OUR MISSION

The vision of Air 4 Life Foundation (A4LF) is to ensure a sustainable future by the eradication of illiteracy of the world's children, while combating climate change and providing actual lifesaving First Aid kits with Oxygen. Also, the implementation of effective mechanisms to enhance Carbon sequestration and the removal of harmful pollutants from the environment.

A4LF will also be actively advocating for the international community to adopt "BitCa\$h" as a Global Digital Currency, for facilitating swift and secure payments globally. The foundation intends to be fully functional for seamless integration for the usage of this secure global currency as the method of payment for salaries and the means to transmit funding for various projects globally. This will better ensure that funds disbursed are used specifically for the purpose that they were intended and manage from a smart phone, with no need for the usual delays and fees associated with traditional Centralized Banking Systems. This is the "Future of Money," which has been specifically tailored for use by non-profits and the global problem of accountability when funding projects.

The Air 4 Life Foundation (A4LF) seeks to be completely self-sufficient in the future, funding its own environmental programs, whilst rewarding its donors, all using funds generated from various fundraising activities supported by Web 3.0 Smart Contracts and its underlying technology. A4LF view Blockchain technology as the future because, it brings the world together, by helping to create a unified, and efficient global economy with one central global digital currency not issued by any single government or central bank. This can all be accomplished while still protecting the environment and constructing schools, staff by properly educated teachers.

Unfortunately, a lot of blockchain technology still relies heavily on Carbon emitting energy sources such as those used in the validation process for nodes, at each block height as in the mining operations for Bitcoin and Ethereum in its Proof of Work consensus modules.

BITCA\$H is in beta testing with early-stage development feasibility study, for an intended use of being, the first green blockchain endeavoring, to be a carbon negative ecosystem. This will be the first where usage by consumers and merchants will directly benefit a worldwide humanitarian effort, that grants incentives for utilizing BITCA\$H as a method of payment.

The utilization of BitCa\$h as a global digital currency, as being the most secure and efficient means to facilitate currency transaction and Commerce globally.

Air 4 Life Foundation intends to ensure the Global Air Quality is protected from further pollution, by reducing the Carbon Footprints left by various Manufacturing, Lumber and Mining Enterprises worldwide. The foundation will assist in reducing the mortality rates in developing countries and here at home, by providing free First response kits with breathable Oxygen, where most needed in the fight against the Covid - to 19 Pandemic. Also, A4LF intend to secure a moratorium on the World Market Price for Oxygen. A4LF will be operating with an open-door policy for the rehabilitation of

veterans suffering from PTSD, even if they may have fallen from Glory in the eyes of their family and society. The general mission is to work alongside former inmates who may be integrated into A4LF's labor force, to help accomplish its mission of eliminating illiteracy, while protecting the future of the Earth for Humanity.

Environmental efforts and conservationist methods have always been that of Academia, with their scientific approaches, to a problem which really is a job for the people who already choose to dedicate a part of their life in selfless service of others, by once being part of various Armed Forces worldwide. A4LF will now unite them by using Blockchain Technology for one of their greatest missions...The Preservation of Planet Earth by eradicating illiteracy.

The effects of global warming have rapidly emerged during the last century with noticeable devastation, frequent Tsunami's, super cyclones/hurricanes, tornadoes, mega earthquakes, wildfires, including disappearing glaciers, rising ocean levels, increasing ocean acidity, wide extinction, rapidly elevating carbon dioxide and methane levels. This deterioration of the natural environment is mostly accelerated, by commercial interests' who ignore ecological concerns. The implementation of activities to support afforestation, reforestation, and overall environmental protection is the only way to reverse this situation. Carbon sequestration involves naturally capturing atmospheric carbon dioxide (CO_2) back into the earth to slow or reverse CO_2 pollution and mitigate climate change. This process offers incredible hope in the war against global warming because trees, mangroves, corals, and other natural structures sequester carbon all the time. However, humanity has destroyed many of these valuable ecosystems, and the rate of destruction has increased dramatically during last century.

The A4LF and humanity must initiate carbon sequestration projects now. We cannot continue with a vague future conceptual 'plan, of good intentions. We need adequate financing and support, which will play an essential role in supporting the Carbon sequestration processes, combat air pollution, and secure breathable "AIR 4 LIFE". People worldwide are searching for new ways to contribute to the war on global warming, slowing the ongoing climate change, and improving conservation efforts.

It is the traditional norm that the fight against global warming should be left up to large bureaucratic institutions and governments, which have little to show in the way of results for all their spending... This job is for warriors, led by people of action, not bureaucrats. The environment should not be left as a burden upon the shoulders of the donor community to guarantee its survival nor too any one government.

We must seek to institute proactive methods to sustain the natural environment for our survival and the future of our children, which starts with their literacy. The current carbon-based revenue systems and taxes on polluters must be more stringently enforced if we intend to leave a legacy beyond the 21st century. The need for innovative financing seems to have found its niche in the burgeoning cryptocurrency market that allows institutional and private donors to make wholesome donations to

make wholesome donations to fight against environmental issues like, global warming, air pollution and the reduction of our Carbon footprints.

The framework of innovative financing and our capacity to achieve grassroots-level action has inspired Air 4 Life Foundation (A4LF) to utilize blockchain technology, in its fight to gain sufficient funding, to engage the enemy which have caused devastating effects on Earth's Environment. Through strategic partnerships, academic backing, and a strong budding cryptocurrency community, we plan to significantly change the Earth's landscape by providing , breathable Oxygen without the traditional Carbon footprint associated with its production. Thereby aiding carbon sequestration in coordination with international aid organizations and the public. A4LF overall goals include enhancing worldwide tree cover, better marine management, lobbying for more meaningful legal controls and providing free counseling for, Trauma Regression and PTSD.

The existing attitudes towards climate change must be first adjusted because it really affects everyone, not only activist. The mega corporations and sustainable subsistence communities across the planet will all be affected if the overall temperature of the planet were to steadily increase by more than 1.5 degrees each year from here onwards.

Therefore, it is no surprise that more people are starting to take the troubles of climate change seriously and are already adapting some type of measure, by altering their lifestyle to reduce their carbon footprints. These efforts should be one concentrated effort, with a new radically disruptive approach. There is no longer room for debate, nor questions and answers symposiums. The issue has been debated long enough, that it is time for action, which has prompted many people to bring these issues to their circle such as, their family members, friends, neighbors, and co-workers — to do the same...

Global Warming and Formation of Air 4 Life Foundation (A4LF)

A positive outcome can be expected when more people turn to experts, trusted sources, and fact-based studies and implement conservation methods in their everyday lives, doing their part to minimizing their carbon footprints, and reducing greenhouse gas (GHG) emissions.

The effects of global warming appear everywhere, including rising ocean levels, acid rain, sudden and unpredictable weather extremes, as well as the most powerful cyclones and hurricanes ever experienced. We cannot take these effects lightly; they deserve enhanced public attention, and most importantly, action.

The impact of global warming affects current society and will only be compounded upon future generations if nothing gets done. Some efforts to combat global warming and climate change have been initiated, but the majority either think it is somebody else's problem to solve or simply claim they will do something later, or it is simply political propaganda, meanwhile pollution continues to increase at alarming rates, hitting record highs.

Unfortunately, it has been far too little, and if humanity waits much longer, it will be far too late. Lack of action on climate change is often attributed to a lack of necessary total funding and funds being entrapped in bureaucratic processes and not reaching projects promptly. We need new and innovative financing to support strategies that combat carbon emission build-up. This includes funding projects directly and developing innovative funding mechanisms. The emerging cryptocurrency market is an effective international currency system that can help to combat these funding issues and help aid in the sequestration processes to combat global warming, whilst actively bringing free breathable Eco-friendly Oxygen to the masses.

Addressing these climatic challenges is why Air 4 Life Foundation (A4LF) was founded. The road is straightforward, to accomplish our mission, there must be a Symbiotic Synergy formed by, utilizing strategic partnerships, academic backing, technical knowledge, utilizing Smart Chain Contracts and Blockchain technology market trends worldwide. As a unified community will be better equipped to fight against Climatic Change, through carbon sequestration projects around the world. A4LF goals include all forms of afforestation and reforestation to reclaim devastated areas in both aquatic and terra-firma environments, along with advocating for the imposing of more legislative controls to preserve the marine ecosystems. A4LF intends to work with discerning private donors, non-governmental organizations, and governments worldwide to support the war against Climatic Change and Pollution.

Insights on Global Warming, Climate Change, and Carbon Sequestration

It is unanimous amongst the scientific community that human activities are contributing towards damaging Earth's climate. Globally, experts are conducting studies that continuously find more evidence connecting extreme climate change to humanity's increasing usage of fossil fuels and industrial development. While helping humankind in many ways, these industrial practices have done so at the expense of drastically increasing carbon dioxide and other greenhouse gases in the environment. This has resulted in progressively higher air and sea temperatures.

If left unresolved for much longer, the negative impact on Earth's ecosystems will become irreversible. Almost two hundred nations have signed the Paris Climate Agreement, a commitment to limit Earth's temperature from rising by 2°C this century. Experts believe that even surpassing 1.5°C could be a point of no return for our environment. Unfortunately, Earth has already warmed by 1.2°C and is not showing any signs of slowing down. Less than 20% of the emissions created during the last year were offset. Reducing our emissions as a species is of paramount importance before it is too late. Carbon reduction and sequestration are critical if we are to have any hope of reversing these harmful effects.

Since the beginning of the Industrial Revolution, humans have been rapidly changing the balance of gases in the atmosphere. The burning of fossil fuels, like coal and oil, releases carbon dioxide (CO₂) and other greenhouse gasses. CO₂ is the most common greenhouse gas. Atmospheric CO₂ amounted to about 280 parts per million (ppm) before the Industrial Revolution. As of 2017, carbon dioxide levels in the atmosphere were at 406.5 ppm (406.5 molecules of CO₂ in the air per every million air molecules), their highest levels in mankind's history (Source: United States National Aeronautical and Space Administration). In 2021, it exceeded 417 ppm and is in a continuous upward trend. CO₂ levels have not been this high since the Pliocene epoch, which occurred between 3-5 million years ago. While carbon dioxide is the notorious villain of climate change, methane is actually a much more potent greenhouse gas.

ABSTRACT

The world does not pump out as much of it and its warming effect does not last as long, but molecule-for-molecule it traps 84 times more heat during the first two decades. That fact provides the foundation for an unusual idea proposed in a [paper released](#) in Nature Sustainability today: By developing systems to capture a few billion tons of methane from the atmosphere, we could reduce short-term warming much more than we would by removing far more carbon dioxide. Methane removal would buy us considerable time to address the [larger] problem of carbon dioxide emissions,” says Rob Jackson, a professor of earth system science at Stanford and lead author of the paper.

It is [not the first time](#) the idea has been floated. But Jackson and his coauthors took a closer look at what the climate benefits would be and how it could be done. Specifically, they proposed using zeolites, a class of minerals with very tiny pores, which are commonly used as industrial catalysts.

Most scientific models now show that the world will need to remove vast amounts of carbon dioxide to prevent sailing past dangerous warming thresholds, given how much has already been emitted and how little has been done to shift away from fossil fuels. A handful of startups are actively building prototypes and plants that can do this, including Clime works, Global Thermostat, and Carbon Engineering (see “[Startups looking to suck CO2 from the air are suddenly luring big bucks](#)”).

But while it would be necessary to remove hundreds of billions of metric tons of carbon dioxide to return to preindustrial levels, you would only need to eliminate 3.2 billion tons of methane to get back to earlier levels of that gas.

Doing so would reverse one-sixth of the total warming effect of all greenhouse's gases in the atmosphere, the study found.

Crucially, this all assumes that the methane would be converted into carbon dioxide and released again, by heating the trapped molecules. In other words, merely turning one greenhouse gas into another one would still provide incredibly significant reductions in warming. The captured methane could be stored and converted into other products as well, but that would add a lot of cost and complexity to the process.

To be sure, removing methane is a trickier task than capturing carbon dioxide, mainly because it's far more dilute in the atmosphere. While removing CO2 means plucking one molecule from among some 2,400 others in the air, capturing methane means snatching one nested amid more than 500,000.

But the authors suggest it could be done, in one scenario, by using giant electric fans to suck air into tumbling chambers, where powdered zeolites would cling to methane molecules.

While it is likely to cost more than carbon capture on a per-ton basis, “it could yield greater

climate and economic value because of methane's greater potency as a greenhouse gas," the authors note. Scaling up industrial operations of this sort would certainly require government mandates or a much higher price on carbon emissions and offsets than exist in most markets today.

While there are some significant uncertainties here, the authors say the potential payoff warrants a substantial research effort to explore the possibilities further.

As with carbon dioxide, it would be far easier and cheaper to prevent emissions of the methane in the first place than to remove it after the fact.

"It's like a drop of ink," Jackson says. "If you can catch it before it goes into the water, it's a lot easier to remove than once it's spread throughout."

Agriculture and livestock are the largest sources of anthropogenic methane emissions, accounting for around [200 million tons](#) annually. There have been efforts to cut these emissions from areas like rice cultivation, burping livestock, and animal manure by changing [when fields are drained](#), adjusting what animals eat, and incorporating [the use of biodigesters](#), respectively (see "[Seaweed could make cows burp less methane and cut their carbon hoofprint](#)"). But none of these have proved to be complete solutions to date.

Meanwhile, oil and gas companies release some 100 million tons of methane per year through pipeline leaks and flaring at oil and gas sites, and [have resisted](#) efforts to tighten regulations.

Jackson says that while methane removal makes the most sense as an early tool, it could also play a role in the long term as well, by cleaning up the methane emissions we can't, or opt not to, eliminate.

Source MIT Journal on Climate Change

Global warming does not just imply the warming of the planet, which is part of the reason why “climate change” has become the more commonly accepted term among researchers and policymakers. The overall increasing global temperature can impose devastating and often irreversible environmental damage on ecosystems, both to fauna, flora, and marine ecosystems.

There are diverse ways of observing the effects of Global Warming, which includes melting ice caps, sea level increase, loss of marine life, depletion of aquatic food chains, acid rain, weather extremes, devastating cyclones, and other devastating climatic changes. Furthermore, the planet is experiencing rapid desertification, severe impacts observed on photosynthesis and food yield forms, and the rapid annihilation of natural ecosystems.

Salient features of information are listed below:

- The average global temperature has been rising since 1880.
- The minimum expanse of Arctic summer sea ice has declined 13.3% per decade since the 1980s.
- Land ice has declined at the poles by 286 giga-tons a year since 2002.
- Global sea levels have risen 7 inches (176 millimeters) in the past century, directly threatening low-lying countries such as the Maldives and the Netherlands.
- Solving climate change will require significant shifts in energy production, from fossil fuels to less carbon-intensive renewable sources.

Air 4 Life Zero Carbon Footprint Mode

CO₂ makes its way into the atmosphere through a variety of routes. Burning fossil fuels releases CO₂ and is by far the largest source of these emissions. According to the EPA's 2015 report, fossil fuel combustion (including electricity generation) in the United States alone released over 5.5 billion tons (5 billion metric tons) of CO₂ into the atmosphere. Other processes, such as non-energy use of fuels, iron and steel production, cement production, and waste incineration, boost the total annual CO₂ release in the USA to almost

The world populations are releasing increasing amounts of CO₂ every year. Deforestation is also a significant contributor to excessive CO₂ in the atmosphere. It is the second largest anthropogenic (human-made) source of CO₂. When trees are logged or burnt, they release the carbon they have stored due to photosynthesis. According to the 2010 Global Forest Resources Assessment, deforestation releases nearly a billion tons of carbon into the atmosphere per year. Protecting forests is a solution to stop rising greenhouse gas emissions since forests remove CO₂ from the atmosphere. Managing sustainable forestry is critical to reducing emissions and maintaining a 1.5°C world. Tropical forests are significantly impacted by these commercial logging operations, as they account for more than 60% of the forest loss in Latin America and Southeast Asia, which normally is a permanent loss since these forests never gets replanted.

Animal husbandry is also a significant contributor to climate change, generating more greenhouse gas emissions (CO₂, methane, and nitrous oxide) than, those combined for all modes of transportation utilized by mankind (land, water, and air). The Food and Agricultural Organization (FAO) estimates that animal husband is responsible for 14% of all greenhouse gases emissions. However, these estimates are calculated on such assumptions as the long half-life for methane. It does not account for the negative opportunity cost of removing forests, which act as carbon sinks, grazing land, and producing animal feed.

According to The World Watch Institute, animal agriculture generates 51% of greenhouse gas emissions. Methane generated from livestock production is 70 times more impactful than CO₂ emissions on global warming. Nitrous oxide emissions arise from the vast amounts of fertilizer used to grow genetically engineered crops such as corn and soy, fed to animals raised in concentrated animal feeding operations (CAFOs). Nitrous oxide pollution is even worse than methane and is 200 times more damaging per ton than CO₂. Animal agriculture is a leading cause of deforestation and species extinction. Nearly 80% of all agricultural land are utilized for grazing and growing animal feed.

The Earth is amid the sixth mass extinction of life. Scientists estimate that between 150-200 species of plant, insect, bird, and mammal become extinct every 24 hours. This is 1,000 times the natural or background rate of extinction and is more significant than anything the world has ever experienced before. Also, animal agriculture is also the number one reasons for dead zones found in our oceans, as fertilizers eventually get into our inland waterways, and eventually flows into the sea, thereby damaging the marine environment.

A4LF Marine Environment Impact

The most immediate impacts of global warming are normally first experienced within the marine ecosystems, where the Ocean acts as a Carbon sink, absorbing dissolved CO₂. While this Carbon sink is not bad for the atmosphere, increased amounts of CO₂ may have disastrous effects on the marine ecosystem. When CO₂ reacts with seawater, it causes a decline in pH, known as ocean acidification. Increased acidity eats away at the calcium carbonate shells and skeletons that many ocean organisms depend on for survival. These include shellfish, pteropods, and corals. Coral reefs are home to at least a quarter of the entire biodiversity of the Oceans.

Coral Reefs serve as an essential habitat to as many as 3 million species, including more than 25% of all marine fish species. Species feed, reproduce, shelter, and survive in the vast 3-dimensional framework offered by coral reefs. The combined pressures of increasing acidity and global warming has caused many coral reefs to become nothing more than eroded rock structures.

Additionally, millions of tons of plastic pollutants are dumped into our seas every year. A large quantity of these breaks down into microplastics, where humans consume these contaminated seafoods, we ultimately ingest many chemicals which they carry, such as neurotoxins, endocrine disruptors, and carcinogens. The exposure to these chemicals greatly increases the risk of cancer, hormone interference, and congenital disabilities

Outlook on Global Warming and Climate Change Issues

A growing number of business leaders, government officials, and private citizens are concerned about the worldwide implications of global warming and are proposing steps to reverse the trend. The majority will argue, that “the Earth will heal itself,” the natural processes for removing the volume of CO₂ introduced by humans from the atmosphere would take hundreds of thousands, if not millions of years. Earth’s self-recovery will not occur quickly enough to preserve our civilization as we know it.

There is no question that global warming needs to be restrained and reversed not by the next ten (10) years but right now. The vast amounts of public funds and effort expended since the Earth Summit in Rio de Janeiro has not achieved the desired result which is proportional to the amount expended.

The work over last 30 years has been led by the United Nations Organization (UN), the World Bank (WB), the Asian Development Bank (ADB), the African Development Bank (AfDB) along with others, yet the war on global warming is yet to be won or showed evidence of slowing down. Nothing scheduled within the near future seems to offer much reassurance which may tip the balance in favor of slowing down carbon emissions and the ever-growing hole in the Ozone Layer at both poles. Looking at all the available evidence, we can make two deductions:

- The rate at which global warming occurs due to anthropogenic and other factors is far greater than human efforts to combat the problem.
- The funds and resources spent to avert emissions buildup and promote carbon sequestration do not reach grassroots levels sufficiently or promptly enough to show results.

A close examination of these two factors reveals that the current status quo may have influenced both aspects to some extent, where the current rate of global warming is mainly unaffected today due to the inefficiencies inherent in various institutional complexities. Hence, the need for the A4LF Carbon free, direct approach as an alternative to yearly summits and quarterly Bureaucratic agendas with their failed policies and ultimatums which are never enforced.

Air 4 Life Foundation has researched an outstanding technological prototype design to reduce CO₂ production and buildup through chemical means. This ‘Carbon Reduction method was conceptualized by the thermodynamic reaction utilized in Absorption refrigeration plant process.

This system is both practical and efficient since widespread adoption will inherently reduce huge volumes of CO₂, which would have been normally released into the atmosphere during the manufacturing of steel and aluminum cylinders, that are used in the manufacture and storage of Oxygen.

The level of CO₂ being released by these manufacturing processes are so overwhelming that no

mechanical system known to man can be employed to sequester sufficiently large enough volumes to drastically reduced this overall figure. In this context, a systematically grown tree canopy is critical for sequestering carbon adequately, in the long run, when balanced or aided by a properly planned Marine Management application, which will ensure the success of any tree-growing initiative.

Oceans naturally absorb CO₂ through acid rain and dissolved CO₂. However, the management towards marine carbon sequestration might be out of reach for most people and institutions, but not for the A4LF, where it was recognized early in the project that, Ocean and Marine management must be an essential component of any proper carbon sequestration proposal for it to be successful.

Therefore, this became the basis of A4LF operating module Aquatic and Marine optimization, since 70% of the Earth Surface is covered by water, thus simple math indicates that a water-based solution has a two thirds better probability of success than any reliance on only terra-firma approach.

The reaching of net negative zero emissions consists of reducing and removing carbon emissions, in large enough quantities, so that there is no increased in the overall rate at which carbon dioxide is added, where there's an increase release of Oxygen into the atmosphere, which is inversely proportional to the volume of Carbon Dioxide produced or released into the atmosphere.

Methods Of Approaching Solution

The growing of tree canopies is a long-term initiative that will ultimately help save the Earth, by sequestering carbon through afforestation or reforestation. This method is commonly thought of as:

- Inexpensive (cost-efficient)
- Clean (also provides other ecosystem services)
- Proven (many countries have the legacy of tree growing)
- Effective (can see immediate results in a short amount of time)
- Efficient (less resource and energy consumption)
- Sustainable (can be incorporated in a multi-functional forest providing timber production and other benefits for local communities)
- Economical (can provide economic incentives for sustainable forest management).

Trees absorb CO₂ from the atmosphere through photosynthesis and use light energy to run enzyme-catalyzed reactions. Cellulose production consumes most of the carbon absorbed by trees, but some CO₂ gets released into the air through respiration. The absorbed carbon forms above-ground biomass stem wood, branches, leaves, and roots. Carbon accumulated in leaves is released back to the atmosphere after a relatively short period when the fallen leaves decompose.

However, carbon in wood is stored for many years, depending on time-dependent factors such as tree species, growing conditions, forest management, and various uncertain occurrences such as forest fires or diseases. 50% of dry wood is formed from carbon. A widely held assumption is that forests approach carbon saturation at maturity and that when trees reach this pinnacle level, they stop sequestering carbon. With a continuous cover, forests could act as long-term storage of carbon. Whenever trees die, carbon remains stored in the soil, acting as a long-term carbon sink.

The Cooperation with various NGOs, Environmental Agencies for Climate Change, and other similar partnership organizations worldwide, will help the Air 4 Life Foundation (A4LF) achieve its mission with maximum exposure and the greatest result. The deployment of this module will bring visible results almost instantaneously, where regular updates will be posted via the website or YouTube channel of all the projects undertaken. A4LF will tackle climate change on a global scale with like-minded action groups around the world.

Tree Planting and Monitoring will ensure that there is a long-term benefit to the Earth's Climate, which will not affect the native flora and fauna, by A4LF adhering to- the existing biodiversity with trees such as: PEPPER • TEA • JACKFRUIT • SOURSOU • BREADFRUIT • BANANA • PLANTAIN • MANGO • COCONUT • RUBBER • CINNAMON • COCOA • NUTMEG • CASHEW.

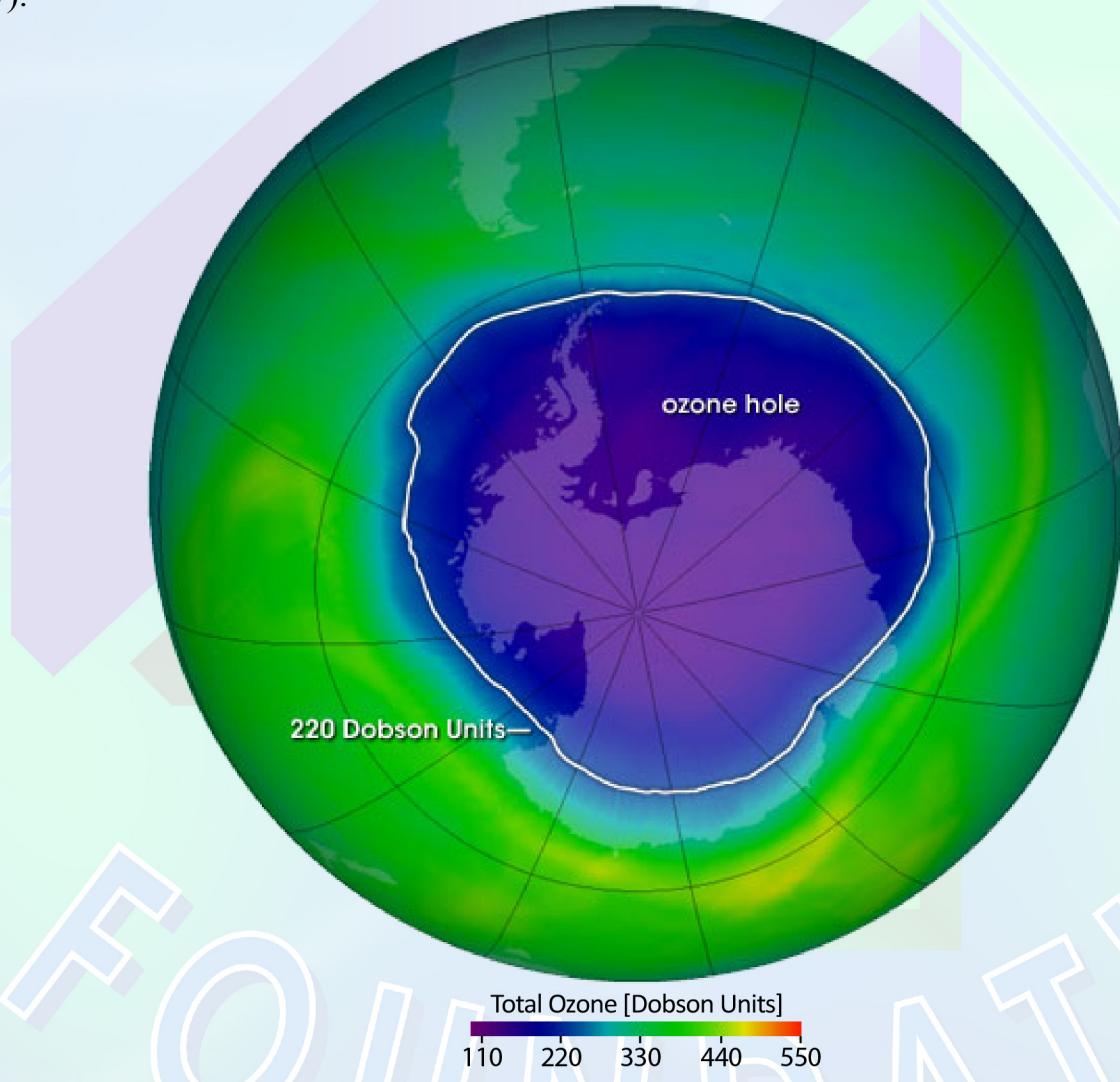
The CO₂ absorption rates of the trees to be planted will bring great benefits for future generations, but A4LF intends to increase the overall chances of success, by actively seeking to repair the Ozone Layer while the World tries to reduce its Carbon Footprint. This new radical approach is based on the acronym "KISS" a long-standing principle in the Armed Forces, which stands for 'Keep It Simple Stupid'. We plan to repair the hole in the Ozone layer with Ozone generating devices that have already been tested and utilized in the sterilization and purification of our water treatment facilities, commercial air quality and in the food processing industries in recent years. Once the replication of this model is adopted in many other countries humanity will be actively replenishing and repairing the ozone layer...

The future is not guaranteed, but by working together and making significant contributions that will aid in securing it for future generations, can be better accomplished by helping fund the Air 4 Life Foundation with your participation. This will help to build and deploy the first Airborne Ozone Generator, powered by fuel cells using reclaimed Methane and Hydrogen. A4LF intends to deploy ten (10) units over the South Pole each with a generating capacity of 300,000 cubic grams per hour, and five (5) over the North Pole, where the hole in the ozone is much smaller. The greater the generation capabilities of each module, multiplied by its active life span in Orbit (which we estimate to be 1- 3 years) the greater the impact will be in successfully repairing and replenishing the Ozone Layer.

The issue that Air 4 Life have with the present approach to combat climate change, is that a lot of talk globally of what is needed to be implemented and how best to accomplish plan directives, but there is no direct systematic approach which has been initiated to combat the issues of the ever-widening ozone layer holes that have consistently appeared over both the North and South poles annually.

What is the Ozone Hole?

The ozone hole is not technically a “hole” where no ozone is present, but is actually a region of exceptionally depleted ozone in the stratosphere over the Antarctic which happens at the beginning of Southern Hemisphere spring (August–October). Satellite instruments provide us with daily images of ozone over the Antarctic region. The ozone hole image below shows the very low values (blue and purple colored area) centered over Antarctica on 4 October 2004. From the historical record we know that total column ozone values of less than 220 Dobson Units were not observed prior to 1979. From an aircraft field mission over Antarctica. It's also known, that a total column ozone level of less than 220 Dobson Units is a result of catalyzed ozone loss from chlorine and bromine compounds. For these reasons, we use 220 Dobson Units as the boundary of the region representing ozone loss. Using the daily snapshots of total column ozone, we can calculate the area on the Earth that is enclosed by a line with values of 220 Dobson Units (the white line in the figure below).



The ozone hole is the region over Antarctica with total ozone of 220 Dobson Units or lower. This map shows the ozone hole on October 4, 2004. The data were acquired by the [Ozone Monitoring Instrument](#) on NASA's [Aura](#) satellite.

Chlorofluorocarbons and ozone

Many people have heard that the ozone hole is caused by chemicals called CFCs, short for chlorofluorocarbons. CFCs escape into the atmosphere from refrigeration and propellant devices and processes. In the lower atmosphere, they are so stable that they persist for years, even decades. This long lifetime allows some of the CFCs to eventually reach the stratosphere. In the stratosphere, ultraviolet light breaks the bond holding chlorine atoms (Cl) to the CFC molecule. A free chlorine atom goes on to participate in a series of chemical reactions that both destroy ozone and return the free chlorine atom to the atmosphere unchanged, where it can destroy more and more ozone molecules. For those who know the story of CFCs and ozone, that is the part of the tale that is probably familiar.

The part of the story that fewer people know is that while the chlorine atoms freed from CFCs do ultimately destroy ozone, the destruction doesn't happen immediately. Most of the roaming chlorine that gets separated from CFCs, actually becomes part of two chemicals that—under normal atmospheric conditions—are so stable that scientists consider them to be long-term reservoirs for chlorine. So how does the chlorine get out of the reservoir each spring?

Polar stratospheric clouds (PSCs) and ozone

Under normal atmospheric conditions, the two chemicals that store most atmospheric chlorine (hydrochloric acid, and chlorine nitrate) are stable. But in the long months of polar darkness over Antarctica in the winter, atmospheric conditions are unusual. An endlessly circling whirlpool of stratospheric winds called the polar vortex isolates the air in the center. Because it is completely dark, the air in the vortex gets so cold that clouds form, even though the Antarctic air is extremely thin and dry. Chemical reactions take place that could not take place anywhere else in the atmosphere. These unusual reactions can occur only on the surface of polar stratospheric cloud particles, which may be water, ice, or nitric acid, depending on the temperature.



The frozen crystals that make up polar stratospheric clouds provide a surface for the reactions that free chlorine atoms in the Antarctic stratosphere.

These reactions convert the inactive chlorine reservoir chemicals into more active forms, especially chlorine gas (Cl_2). When the sunlight returns to the South Pole in October, UV light rapidly breaks the bond between the two chlorine atoms, releasing free chlorine into the stratosphere, where it takes part in reactions that destroy ozone molecules while regenerating the chlorine (known as a catalytic reaction). A catalytic reaction allows a single chlorine atom to destroy thousands of ozone molecules. Bromine is involved in a second catalytic reaction with chlorine that contributes a large fraction of ozone loss. The ozone hole grows throughout the early spring until temperatures warm and the polar vortex weakens, ending the isolation of the air in the polar vortex. As air from the surrounding latitudes mixes into the polar region, the ozone-destroying forms of chlorine disperse. The ozone layer stabilizes until the following spring.

The A4LF will also be actively seeking to develop and deploy chemical scrubbers which will neutralize and remove a large portion of the Chlorine and Bromine from the atmosphere found at both poles. The result of this will be instantaneous and can be tracked via a live feed from Orbiting satellites. The second phase of the project is to then replace the sequestered Chlorine and Bromine gases with Ozone, generated by utilizing the Ozone Generation modules. The next and final phase will be development and implementation of mobile units to aid in the removal of Carbon and Methane gases from the atmosphere.

FUNDING

The Foundation will be funded by the innovative use of your contributions, along with global participation in various Smart contracts and Blockchain Technology applications. The logic and parameters made this all possible were conceptualized using a visionary approach, where it was thought best that a philanthropic anonymous donation of BitCa\$h to A4LF treasury was this best means to introduce this new Global Digital Currency to the world. These donors also decided that this was the most transparent way to relinquish any control or manipulation to BitCa\$h while still giving financial support towards a humanitarian cause.

This Global Digital Currency will be the tokenization of all cash back rewards earned when using the COMMERJA X-\$WApp, and your direct donations to the Air 4 Life Foundation on its website. BitCa\$h is unlike any other digital currency tendered into circulation by other nations or those by the major world powers, where China has already launched its own version of the Digital Yuan or e-CNY. The concept that made BitCa\$h so unique from any other Digital Currency is that it is truly powered by a free accessible medium, which all of humanity has an equal Right to utilize unrestricted. BitCa\$h is the only Global Digital Currency back by your free Rights to Air. This has all been made possible by developing the concept into a working protocol by experts in the Blockchain field, supported by an equally talented group of programmers and engineers from a major tech firm in the heart of India.

Humanity must acquire an even greater desire to stop the continued destruction of our world as we know it. The brilliance of what has been achieved by empowering the global community to contribute to its very own Global Digital Currency, which has no governmental control and floats between a baseline and a upper ceiling autonomously, with no manipulations from any human interference, can now be implemented. The future success and adoption of this Global Digital Currency can only be accomplished with the participation and contributions of you as a Global community, by downloading the Commerja X- \$WApp and complete their regular purchases while using the App.

The widespread usage and adoption of BitCa\$h as your global digital currency will be equally supported by our motivated benefactors drive to save and preserve our planet for future generations, by further donating 50% of all commission back into the Air 4 Life Foundation treasury in support of the stability of BitCa\$h and your generosity.

This generosity will be further rewarded by the issuing of the first virtual currency that has been labeled the "Future of Money" which has the added security, that you will never lose your wallet. The Donors' have developed the ultimate functionalities that can be achieved by any digital currency, all to better ensure that the Air 4 Life Foundation speedily achieve the desired funding to accomplish its overall mission. The ensuring of the Right to Life and Literacy, by improving humanity's understanding and interaction amongst each other, on all levels of society, and how that interaction relates to our environment and the quality of life which accompanies such an understanding, that we are only one species, which have this One World to call own home.

Therefore we must protect it as one unified global community in a symbiotic relationship in order to preserve our mutual existence.

Air 4 Life Foundation sees this as a special privilege and a great honor to be able to introduce to the Global Community, this once in a lifetime opportunity to disrupt history by getting in on this groundbreaking event dubbed," The New Future of Money. "BitCa\$h, is a fully Decentralized Digital Currency forged by the practical necessity for a secure global currency, which is simple to use across all social classes, within all communities, and across all borders.

BitCa\$h automatically disburses bonus payments, in the form of dividends in Digital/Crypto Currency monthly. So, support your global community, by simply downloading the COMMERAJA-X \$WApp, register, and become an active participant in preserving humanity. This is truly the first and totally free, Decentralizes Automatous Global Humanitarian Organization (DAGHO). Your membership in which, is automatic, from your very first purchase using X-\$WApp or by direct contributions on the website of www.air4lifefoundation.org. Also, you will immediately start earning **BITCA\$H and Recreate History.**

Also, all holders will enjoy various other rewards, but not limited to a special giveaway of one (1) million BITCOIN, version 3.O...to the first million users of X-\$Wapp who have achieved an equivalent of \$500 USD in BitCa\$h and held it for 90 days or more.