



## Executive Summary

AGEN Environmental Corporation (“AGEN”) was formed in 2018 as a Delaware registered company whose mission is advocating for a cleaner and healthier planet by producing nutritious agriculture and **GREEN** energy for today and tomorrow.

AGEN is so focused on Agriculture and Energy that our name is made up of the first two letters of the words: **A**griculture **E**nergy: **AGEN**.

### **The Problem**

Over the last century many societies have faced the challenge of not having enough clean water and nutritious food to support their growing population, but more recently landfills and many dumps have caused serious health conditions among the local people and have increased harmful pollution to the land, water, and air.

Today we are more reliant on energy than ever before, and our consumption of energy and electricity is growing exponentially. The other serious event we all are witnessing is the increased sizes of landfills, illegal dumps and poor managed collection practices that cause serious harm to many communities. Developing nations are facing an even more dire situation when it comes to their energy needs and are experiencing the crippling environmental and human health effects from the growing amount of improperly managed waste.

### **AGEN's Solution**

AGEN's **"Healthy Agriculture and Clean Energy Initiative"** will address the negative particulars of municipal waste and landfills, to provide a profitable and sustainable green solution. AGEN will be safely processing and transforming the waste materials into electricity, heat, nutritious food, animal feed, fertilizers, clean water, and clean **GREEN Hydrogen Fuel**. **AGEN could provide these products at below market rates!**



The Goal of AGEN's Healthy Agriculture and Clean Energy Initiative is to improve the health of our planet and its population by using our advanced technology's by improving the trash collection management systems. AGEN will construct an advanced processing facility for the transformation of MSW, biomass waste, waste oils, sewage, tires, and food waste. AGEN's Healthy Agriculture and Clean Energy Initiative will help reverse many of the negative effects caused by poor management of MSW/trash on land, air, and water supplies. Resulting in the higher living standards of local inhabitants while protecting the environment and preserving eco-tourism.

The benefits of AGEN's Healthy Agriculture and Clean Energy Initiative are numerous. First, the initiative will produce a processing plant that will transform the MSW landfill into commercially valuable products like; electricity, fertilizers, food, water, and animal feed as well as Green Energy (Electricity & Hydrogen) that will benefit the local economy and create economic opportunities.

We all are witnessing that many governments and industries are trying to make rapid changes to the reduction of Greenhouse Emissions and polluting soot particulates by adapting electric and hydrogen fuel cell vehicles. Both electric and hydrogen technologies offer exceptionally clean and are less costly to operate. Hydrogen fuel cell vehicles and trucks need affordable hydrogen while Electric powered vehicles (EV's) need affordable electricity; both of which AGEN could provide at below market rates!

AGEN's special designed biomass waste to energy power-plant platform will supply the needed heat and electricity for the processing facility as well as a network of on-site greenhouses. AGEN's greenhouses will absorb the CO<sub>2</sub> emissions while growing fruits and vegetables thereby allowing us to market the fact that we are carbon neutral as well as providing nutritious food to local markets. Any extra electricity could be supplied back to the local grid.

AGEN's Healthy Agriculture and Clean Energy Initiative with our proprietary processes and patented equipment is structured to have an ROI under 5 years. AGEN will produce a regular supply of high-quality animal feed, water, and organic fertilizers as well as green energy (Electricity & Hydrogen) to sustain the local economy of developing countries at a fraction of the normal market cost.

AGEN's Waste Management and Processing Facility will be one of the most advanced and efficient Bio-mass Waste Energy Processing Facility in The Dominican Republic since we do not use or rely on fossil fuels for the safe transformation of the MSW /landfill into commercially viable goods. AGEN's waste management and processing facility will produce up to 6 tons per hour of dry animal feed with 15-25% protein content as well as the production of organic liquid and dry bulk fertilizers at an approximately rate of one ton per hour.

In the future, any excess electricity produced by AGEN not being utilized for our processing facility and our greenhouse operations, would be funneled into the production of ultra-pure **GREEN hydrogen**. AGEN could produce about 300kg of green hydrogen per day to the local community and potentially a fleet of Green Energy vehicles.

**The bottom line:** Short ROI, great profits, and the ability to be replicated AGEN's Initiative worldwide!

## Products & Services

### 1. Animal Feed Production:

AGEN's system is designed to produce about 6 tons per hour of 15-25% protein rich dry animal feed for dairy cows, cattle, goats, sheep, pigs, chickens, and horses to a variety of off-takers. AGEN's high-quality animal feed will offset what The Dominican Republic presently needs import which is over 1,120,000 tons annually or about 180 million dollars (USD).

### 2. Fertilizer Production & Soil Restoration:

AGEN's proprietary processes will produce high quality organic and mineral-rich fertilizer and soil restoration from selected mix of Biomass waste, wood, organic aggregate material and nitrates that include activated carbon and Biochar. AGEN's organic fertilizer and soil restoration products will assist the local growers to improving their crops' yields and nutritional values as well as offset what The Dominican Republic annually needs import which is over 300 million dollars.

### 3. Greenhouse Leases and Food Sales :

To start, AGEN will utilize a 35' x 200' greenhouse to help capture and reduce the processing facility's CO<sub>2</sub> emissions to a near zero levels. In addition, the greenhouse operations would generate another source of income for AGEN. AGEN could either lease the greenhouses to local businesses or we grow and sell the agricultural products that are produced directly to farmers and/or florists.

### 4. Tipping Fees and Contracts

AGEN will receive tipping fees and /or contractual income for receiving most destined landfill materials as many landfills do not like taking certain type of waste because of health issues to local environment and inhabitants. AGEN's solution to disposal problem of materials like: plastics, (bags, water, laundry and milk bottles) waste oils, (cooking oils and auto/truck oils) and other waste, (railroad ties, large tree trunks and tires-both car and trucks) is to thermally destroy them and use the intense heat to produce electricity for the AGEN's facility.

### 5. Bottled Water:

AGEN plans to have 3 large deep-water wells on the property along with an advanced water filtration system, we could potentially produce about ten thousand gallons per day (30,000 liters) of clean drinking water that can be sold locally.

### 6. Hydrogen Production:

AGEN has the potential to produce more than 300kg of hydrogen fuel per day that would be made from a renewable source and waste which allows it to be labeled as "**GREEN Hydrogen**". The hydrogen that AGEN's produces will be sold locally to support the evolving green economy as well as provide for cars and trucks with no emission fuel cell for CO<sub>2</sub> reductions.

### 7. Plant Duplication:

Endless opportunities for AGEN's "Healthy Agriculture and Clean Energy Initiative.

## AGEN's Technical Advantages

AGEN's diverse team is comprised of over a dozen seasoned business owners, inventors, patent, and proprietary process holders. We have agreed to work as one company to produce very profitable results. Members of AGEN's Team have made advances in the fields of energy, agriculture and chemical sciences and include PhD's, PE's, Master's degrees in Science, MBA's, Engineers, Business Entrepreneurs who are recognized for patents, registered processes in profitable businesses, production manufacturing operations, service industries and sales and marketing.

### Eric T. LaVoie -- AGEN's President and Founder.

Eric has Bachelor of Science degrees in, Industrial Engineering, Water Wastewater, and a Facilities Maintenance Associates Degree. Eric's 30-years of troubleshooting skills and his ability to think outside the box enables him to solve many complex problems quickly. Eric has been granted two US patents in the field of Combustion Technologies for his advanced group of multi-fuel-burners with improved thermal combustion efficiencies that resulted in cleaner and fewer emissions. Eric's true combustion accomplishment is the very clean burning and efficient combustion of hard to burn bio-waste materials/liquids and materials. Eric's systems have been witnessed by the chief scientist at Lockheed Martin, Dominion Electric Power, and the University of Connecticut, not to mention 3 national independent labs as well as the US Department of Defense.

In addition to Eric's formal education, Eric has great insight and practical experience which allowed him to start Five successful business from scratch. Eric thrives in the manufacturing arena and has been very successful in various roles: Chief Engineer, Plant Manager, and Operations Manager.

Eric form Energy Efficiency Solutions LLC in 2008 where he designed and manufactured several oil burners with unique features such as “burners with multiple nozzles, multi-fuels; with modulating burner control technology and was granted US Patents-8,052,418 for “The Burner Booster” and US Patent -8,672,672 for “The Phoenix Combustion Burner System” (Oxygenation Fuel System). Eric's patents and advancements in combustion technology allow him to burn a wide range of commercial and Bio-waste oils which produced less Carbon Dioxide per BTU than that of natural gas.

Most Recently, Eric was hired by FEED Back Earth, in Grafton, MA. as the Plant Manager and was charged with setting up and managing a more efficient “Food Waste to Animal Feed Plant”. Eric and the team guided the progress through all the phases of the setup and took the production plant from launch to a profitable production operation in less than Six months.

**David Nudelman** -- AGEN's Executive Vice President

David has a Bachelor of Science in Business and Marketing Degree with a Minor in Communication. In addition to his formal education, David has over 30 years of experience with high-tech companies in various marketing roles including sales, sale management product planning and product training and has been instrumental with the introduction of many new products and technologies.

David's strengths include marketing, product management, sales, and sales training as well as establishing and maintaining distribution networks which include the hiring and management of both a direct and in direct sales force. David is very detail and goal orientated and his nature combined with his communication skills, allow him to quickly develop a rapport with others. Dave and Eric LaVoie have worked for over the past 15 years.

**Kenneth U. Borneman** -- AGEN's Vice President of Power-Plant Operations.

Ken has both a Mechanical Engineering and Master's in Business Administration degree as well as over 30 years' experience running 4 other power-plants and a proven track record in alternative biomass and waste to energy power plant development, engineering, and operations.

Ken is a Maine resident and most recently was the Power Plant Manager at the Livermore Falls, ME; Biomass Powerplant. Ken has been successful at all four power-plants by instituting a series of modifications to lower emissions and improve efficiencies thus making the businesses more profitable.

Ken's expertise comes from working with renewable electric power generating industry development for twenty-five years. Ken has the experience and expertise to meet the ever-changing needs of today's green power development and emerging renewable markets both in the USA and globally.

**Richard J. Romanek Jr.** --AGEN's Chief Systems Operations Engineer

Rick was born in Illinois, and then attended school at California Polytechnic Institute Pomona, where he studied Civil & Mechanical Engineering. During this time, he also studied Computer Science, Electrical Engineering and Software programming including machine language programming. During his college years he worked on many commercial equipment installation projects from concept to installation. His many responsibilities included Project Management, Customer Relations, Sales and Support, Hardware troubleshooting, New Hardware Acquisitions, Software Beta Testing, and Field Systems Set-Up.



After college Rick moved to Florida and began working for a National Engineering/Manufacturing firm, North American Engineering, Inc. where he was able to demonstrate his mechanical and electrical background, project management experience to advance computer automation advancements. Ricks leadership allowed him to prove his value in upper management, project management & logistics. He advanced in a short time to oversee all work in the electrical and mechanical departments. Rick is seasoned in exporting equipment overseas, and dealing with many different nationalities, banks, and governmental agencies in the following countries: Canada, Taiwan, China, Thailand, South Korea, Philippines, and Cambodia.

Rick started Phoenix Engineering & Logistics, Inc and provided 90% of its equipment to the United States Government, of which he learned the inner workings of Government Procurement Contracting. Currently he works for Phoenix Engineering & Logistics, Inc. as a consultant, engineer and project coordinator. His main duties are to assist Phoenix Engineering & Logistics, Inc’s clients in project design, coordination, plant builds, vendor management, and to draw on his vast experience to help his clients get the best value for their money spent.

Rick has overseen the installation of several advanced Food *Waste-to-Animal Feed* systems globally where he holds a patent on one of his systems he’s designed.

AGEN will transform the Bio-Waste, Plastics, and Municipal Waste from landfills into “*Green Energy*” as well as organic fertilizer and soil restoration products to support the local economy.



I look forward to our future discussions.

*Eric T. LaVoie*

Sincerely,

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President / Founder

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