

“Serving Off-Grid energy and water harvesting solutions.”  
“The future belongs to those who believe in the beauty of their dreams.”

### The main Purpose(s) of our organization (Castor Air 2 Electricity & Water Solutions Inc)

- Promotion of environmental protection by means of implementation of renewable energy technologies (using wind, solar, hydro, biomass, stored thermal energy, isothermal energy, etc), water harvesting technologies and energy savings technologies. R&D of environmental protection products to combat climate change.
- Promotion, creation and implementation of ecologically clean and safe technologies for renewable, off-grid microgrid technology utilization, water harvesting technology, and energy savings technology for all scientific applications and apparatuses, including electric vehicles and handheld power. R&D of environmental protection products to combat climate change.
- Conduction of renewable energy resources (RES) assessments, water harvesting assessments, microgrid assessments, off-grid assessments, pre-feasibility and feasibility studies to demonstrate ecological, environmental, and social benefits of RES utilization for public and commercial needs. R&D of environmental protection products to combat climate change.
- Consolidation efforts of the public, politicians, state structures, agents, scientists, businessmen, etc. Education and/or education of R&D of environmental protection products to combat climate change.
- Dissemination of knowledge to the public on renewable energy and water resource conservation. Education and/or education of R&D of environmental protection products to combat climate change.
- Promotion of environmental protection by means of purchasing and/or renovating homes for low income families and/or impoverished global citizens/families in order to implement renewable energy resources (RES), off-grid RES technologies, water harvesting technologies, and energy savings technologies. Providing energy-efficient housing for low-income people that will combat the effects of climate change.

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### Mission Statement

Castor Air 2 Electricity & Water Solutions, Inc., a 501c3 nonprofit, researches, educates on, develops and implements scalable, renewable-based, off-grid, energy generator and storage microgrid that can convert surrounding resources like air into storable high density pressure in order to combat climate change, develop the community into a self-sustaining eco-system, create job opportunities, and empower communities to control their own utility services, particularly since there are no black-owned utility service provider.

Our nonprofit would be responsible for the capital-intensive and community development aspects of the work (including manufacturing, job development, clinical testing and R&D), take philanthropic contributions to donate the product to the poorest communities through NGO partners, and build a community-based eco-system around which we could help promote better sustainability practices, through things beyond the technology, like education. To generate revenue, we can license the technology to establish a paid royalty stream for every product manufactured or sold by the licensee as well.

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Because of the benefits of deregulation, our nonprofit will also work with either existing utility service providers and/or establish our own community-owned and operated utility service to become energy and water service providers for communities of color and the World.

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### The main Program of the organization

Manipulating the storable high-density power of air, Castor Air 2 Electricity & Water Solutions, Inc., a 501c3 nonprofit, researches, educates on, develops and implements scalable, renewable-based, off-grid, energy generator and storage microgrid that can convert surrounding resources like air into storable high density pressure. The onsite pressure works with generators to harvest energy even in covered locations. As a low cost CHP alternative, storing air allows for the conversion of air into stored pressure and condensation to occur, where water molecules in the air collect in the tank, enabling the system to double as an onsite water harvester to provide cheaper, cleaner, high density access to resources for impoverished communities and urban development housing programs in order to combat high prices and climate change.

The dream of no longer relying on central power, blackouts, attacks on fuel supply runs, harmful emissions, and high utility costs is here since our patent-pending, Air-to-Electricity & Water Microgrid allows access to 24/7 uninterruptible, hurricane-proof water & power for scalable applications. Let us provide you access to uninterruptible, individualized power and water needs using our cheaper alternative to limited, hurricane-prone, centralized combustible power.

With our microgrid technology, we can work with the African-American community to provide our own access to either personal or regional-based utility services, where high density energy and water is generated, accumulated and sold onsite using our energy and water harvesting technology. The storable, high-density Power of 24/7-accessible Air can both energize and hydrate your entire World.

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### Unique Value Proposition

Our patent-pending, off-grid electricity scalable renewable energy-based microgrid, namely our Air-to-Electricity & Water Microgrid, to harness (generate) and store grid-free, high density energy onsite that can be accessible 24/7. Manipulating the storable high-density power of air, our nonprofit (Castor Air 2 Electricity & Water Solutions, INC.), in tandem with the forprofit (Monkeytech International LLC) developed a scalable, renewable based, off-grid, energy generator and storage microgrid for onsite, covered location powering that doubles as a water harvester. The dream of no longer relying on central power, blackouts, attacks on fuel supply runs, harmful emissions, and high utility costs is here since our patent-pending, Air-to-Electricity & Water Microgrid allows access to 24/7 uninterruptible, hurricane-proof water & power for scalable applications. We can provide your individualized power and water needs with a cheaper alternative to limited, hurricane-prone, centralized combustible power. In summation, with storable air, we can provide safe, long-lasting, high density energy both when and where no other energy system can.

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### Funding Strategy

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Customers include hurricane disaster relief areas (Cuba, Puerto Rico, Florida, and Texas), FEMA, Urban Housing Authority, homeowners, impoverished countries and/or global citizens, low income families, and Military. To reach customers on a global stage without reliable power, our 501c3-pending nonprofit will be responsible for manufacturing, clinical testing and R&D, take philanthropic contributions to donate the product to the poorest communities through NGO partners, and build an ecosystem around which we could help promote better sustainability practices through education and licensing the technology.

Targeted customers will come from areas that are inaccessible to oil or gas lines, particularly the Mid-West. We will also work within areas affected by high frequent hurricanes and other natural disasters to supplement needed onsite, high density energy. As climate change increases, so does the increase in hurricane power and frequency that knock down centralized power systems for weeks that global societies have come to depend on. As energy vendors, we can set the new standard for hurricane-proof energy systems.

Another strategy is to work with impoverished countries across the globe that currently lack the power infrastructure to support their growing population. Globally, in developing countries, only 75% of citizens have access to power. Even for the wealthy, the limited supply makes it availability unreliable and frequent power outages are a reality for residents. According to the African Development Bank, of the 1.2 billion world citizens who live in the dark, around 550 million live in Africa. Only 42% of its citizens have access to electricity.

Our final strategy is to fundraise using crowdfunding platforms to raise the capital necessary to complete our objectives, which includes the research and development of scalable models for multiple applications, including handheld power in impoverished countries or Military campaigns (70W 140Wh), small residential power (1kW 2kWh), moderate home power or onboard electric vehicle power (5kW 10kWh), large residential power (10kW 20kWh), or regional power (100MW+) to provide onsite access to onsite water and grid-free high density energy, both day and night, whenever or wherever you need it, regardless of landscape, hurricane-prone areas or other weather conditions.

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**Board of Directors:**

	NAME	BUSINESS ADDRESS
President:	Varnell Castor	70 Cottage Street Chelsea, MA 02150
Treasurer:	Waleska Vazquez	138 Newland Street Malden, MA 02148
Secretary:	Suzi Peters	49 Lincoln Street Malden, MA 02148

The following short Bios outline the experience and support of each current Board of Directors:

Founder and President of the nonprofit, Castor Air 2 Electricity & Water Solutions Inc, Mr. Varnell M. Castor leads the administrative support team and oversees the goal to increase existing performance capacity of off-grid renewable

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microgrids by commercializing his existing patent-pending model in order to provide direct leasing for utility services. As a turnkey innovator, Mr. Castor has over 7 years of experience in the renewable energy sector, particularly research and development in microgrids, particularly onsite energy harvesting and onsite water harvesting microgrid technologies. He has 7 years of experience in the for-profit sector as well, particularly in Monkeytech International LLC, a for-profit that also focuses on the sales of microgrid technologies. As CEO, he executed investment of seed funding financing into project, oversaw usage of project funds, and orchestrated projects. As Scientific Researcher, he researched for 7+ years the fundamentals and applications of project in its entirety, obtained secondary opinions by Physicists and other experts in the field, developed utility – functionality and design – of project, registered provisional patent application with USPTO, registered US Utility patent application with USPTO, registered PCT Utility patent application with USPTO, and worked with strategic partners to optimize the company cleantech project. Mr. Castor is devoted to all aspects of the company and mission, from management to product research and development activities.

Varnell Castor has the leadership experience, management skillset, and hands-on electrical and mechanical engineering background to lead product development and oversee its tech-to-market transition. Mr. Castor completed the design and construction of the microgrid, gaining on-hand experience in fabricating parts, developing energy systems, and commercializing to scale up using both a tech for-profit business for sales and revenue and a tech nonprofit business to access donations, special grants and philanthropic contributions to better the World. He has completed the design of multiple inventions, ranging from Military Warfighter to renewable energy applications. He has over 6 years of experience in the patent practices and services and has overseen 10+ patent applications.

Mr. Castor earned a Bachelor's Degree in Philosophy from the University of Massachusetts Boston and Associates in Liberal Arts from the North Shore Community College. After completing his studies, he has honed the 8 years of managerial experience under his belt to coordinate a team of experts whose goal is to make energy more accessible. He is very passionate about technology, the environment and chess, particularly since winning his first chess tournament at Saint Rose Elementary School in Chelsea, Massachusetts at the age of 13, and currently resides there with his two children and Siberian Husky puppy.

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Our Treasurer, Waleska Vazquez, is an administrative support professional offering versatile office management skills and proficiency in Microsoft Office programs. She is a strong planner and problem solver who readily adapts to change, works independently and exceeds expectations since she is able to juggle multiple priorities and meet tight deadlines without compromising quality.

Miss. Vazquez has served as an Office Manager, a Client Service Professional, and a District Bookkeeper from 1999 to Present at H& R Block in Malden, Massachusetts. She has handled multifaceted clerical tasks (e.g., data entry, filing, records management) as the Office Manager. She has maintained database and ensured the office run as the company wants it, which allowed her to quickly become a trusted Office Manager known for “can-do” attitude, flexibility and high-quality work.

As a bookkeeper, she supported H&R Block online application, on-line banking, H&R star web application, PeopleSoft, and balance 14 office daily end of day. Miss. Vazquez balanced Bank statements, managed timesheets, approved payroll and account for payroll check and make sure they got to the offices on time. She was also responsible for Hire/Rehire/Transfer administration for employees and well as an avid role in supporting District/Assistant District Managers.

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As Secretary, Suzi Peters contributes to the team over 15 years of experience in Nonprofit administrative support experience. Her contributions include working for Housing Families, Inc. where she fiercely advocated for homeless families and got them placed in permanent safe low income housing. Miss. Peters continues to volunteer for Aserela,

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a small Non-profit organization that aims to build schools in war devastated parts of Southern Sudan and promote hope, self-reliance, and access to education. Suzi is very passionate about creating a better future for all.

Miss Peters is currently employed as CHII Program Coordinator at CRI, a nonprofit which is administered through the Department of Public Health. In her role, she assists HIV positive clients enroll in affordable comprehensive health insurance. She also participates in outreach, education, and training of health care providers, Case Managers, and consumers in program features, application, and enrollment process, as well as on changes in health insurance landscape. Suzi is a strong advocate for targeted minority groups as well as homeless families across Massachusetts.