



NUENERGY TECHNOLOGIES™

## EXECUTIVE SUMMARY

### 2013 and Beyond

**NuEnergy Technologies is a Clean Energy and High Efficiency Product Developer, and Systems Integrator**

#### OVERVIEW

NuEnergy Technologies (NuET) is engaged in the development, production, marketing and deployment of renewable energy systems that enable a socially responsible, healthy, and prosperous environment, and improve the quality of life.

*NuET's Products Division* is a developer and manufacturer of several proprietary sustainable energy systems. These include an innovative frictionless **magnetic levitation wind turbine** which produces electricity from the kinetic energy sourced by the wind and without the use of gears; **alkaline hydrogen fuel cell systems** for residential and transportation applications; **low income housing made from recycled steel**. These can be deployed for remote locations devastated by natural disasters like those affected by hurricane Katrina and the earthquake in Haiti; **non-battery-based flywheel energy storage systems**; **electric drive and sustainable energy propulsion systems** for advanced rail vehicle transportation; and **thermal (heat-based) electric generators (TEG)**.

*NuET's Services Division* is a provider of a broad range of “green energy” consulting services and feasibility studies to companies that currently have or desire to start renewable energy projects. Our Leadership in Energy and Environmental Design (LEED) accredited Director of Sustainability Projects and Energy Management Division oversees the integration of municipal **Waste-to-Energy Systems, Water Decontamination & Desalinization, LED lighting, Variable Frequency Drives for HVAC**, and other complementary **Energy Management technologies**. We also provide added value to manufacturing companies such as Statim Technologies and Apollo Energy Systems. We are able to optimize these companies' products by performing value engineering services such as **3D Solid Modeling, Finite Element Analysis, Prototype Testing**, etc. We are currently working with Statim Technology, as Co-Patent Holder, to develop our Mark III Boundary Layer Turbine (BLT), which was originally conceived and produced by Nikola Tesla. With Apollo Energy Systems we have been working on the development of a Tri-Polar Cobalt Lead battery. We received a grant from a NASA affiliate (SATOP) for the development of our Mark III BLT. This grant paid for the engineering design support services from Clarkson University (Potsdam, NY). We also submitted a Grant Application to ARPA-E for \$4 million to fund the development of our above noted battery, which exceeds the efficiency of Lithium-Ion. More details on all the above noted are available by visiting our website at: [www.nuenergytech.com](http://www.nuenergytech.com).

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### PRODUCT DEVELOPMENT

NuET's products provide a new global business model that makes renewable energy far more affordable to the consumer, and far more cost-effective and easier to deploy throughout the known and currently used distribution channels.

A primary problem is that the core technologies and product manufacturing of current wind, solar and energy storage systems have inherently high production costs that result in extraordinarily high end-user costs, despite local and federal incentives. As well, current solar and wind energy technologies are known to be inefficient in the production of energy. For example, today's horizontal axis wind turbines (HAWT) are expensive to produce and deploy, require a high average annual wind speed, kill migratory birds and bats, are very loud, and throw off oil and ice. Another serious problem which is gaining more notice and recognition is Wind Turbine Syndrome. Wind Farms using HAWT are becoming subject to DOD/DOE review and may require obtaining authorization due to air column turbulence. Most recently a large Wind Farm project in Oregon became stalled due to such pending NORAD review. Our MagLev vertical axis wind turbines avoid these serious issues.

Today's photovoltaic panels are costly to produce and extremely inefficient in converting light to electricity. Today's batteries are toxic, cannot hold much of a load, are bulky, have a short lifespan, and present a **Waste-Management Problem**.

NuET's MagLev-Wind Turbine, our "KINMO" Flywheel Storage System", our "Energy Transfer System for the rail Transit Industry", and our "Thermal Electric Generator" (TEG), solves these previously noted serious industry problems. We do not believe that there is any one "silver bullet" product or company, which will solve our energy problems. However, we intend to be part of the solution.

### SERVICES AND CONSULTING

Because our proprietary products require funding for advanced development with processes like Finite Element Analysis, before we can produce prototypes, we address near-term revenue constraints for NuET's product development and production with a broad range of consulting services and existing sustainable products which we add value to. These near-term deliverables consist of project evaluation, funding analysis, grant finding, project planning, asset transactions, project and operational management, power supply procurement, power supply planning, and project development, including feasibility studies and independent engineering. An example of this is the Product Development Engineering Contract we entered into with Statim Technologies. This represents over one million dollars in potential revenue to NuET over a 12 month period. NuET is providing engineering technical support services for a patent pending Boundary Layer Turbine. Similarly, another Engineering Services contract for approximately \$1 million over an 11 month period is with Apollo Energy systems, to provide support services in the development of patented high efficiency Cobalt/Lead batteries. In both of these Engineering Services Contracts we have an option to integrate these products with our own proprietary systems.



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LED Lighting, Variable Frequency Drives and Solar Thermal Panels, are examples of products that have a proven record of successfully reducing energy use in buildings by 70% or more. Their reliability, high efficacy, ease of installation and short investment payback time, put these products at the forefront of our energy independence goal by reducing the use of fossil fuel generated electricity - today. Our Energy Management division is continuously researching and testing new products, to evaluate their energy conservation potential, ease of implementation and use, reliability and compliance with industry standards. Through our accredited staff we support the use of the LEED Green Building Rating System, by identifying and implementing practical and measurable sustainable design, construction, operations and maintenance solutions for buildings and neighborhoods.

### GRANTS AND REVENUE GENERATION

Federal and State renewable energy grant opportunities provide unique financial support and significant long-term funding opportunities for the development and deployment of NuET's prototypes.

### BUSINESS STRATEGY

NuEnergy is seeking to raise \$2.5 million in capital in its first round of private funding. Our plan for the use of these funds is guided by two goals:

**1. To commercialize the technologies in our pipeline according to the technologies' time-to-market requirements as follows:**

**A. MAGLEV-WIND TURBINE (A few of our 10 kW units have been sold):**

We could be producing in-house and delivering the MagLev-Wind Turbine within 3 to 6 months. These turbines have already been commercialized, and support for the licensed manufacturing to NuET is available. We already sold and shipped one of these turbines to Chile. All of the alpha prototype and wind tunnel testing has been completed, and units have been installed and are working in various locations.

Once NuET starts production, we believe our MagLev-Wind Turbine can open up the market for wind turbine usage by over 30%. The MagLev-Wind Turbine solution can work in areas with only 3 mph winds, as opposed to the current limitation of 5 mph winds for other competitive suppliers. Additionally, wind farms developed using the MagLev-Wind Turbine do not produce the previously noted Wind Turbine Syndrome and require half as much land to produce the same amount of power, thereby reducing the required capital investment.

**B. HYDROGEN FUEL CELL SYSTEMS (A few of these units have been sold and are in operation):** Our Alkaline Fuel Cells called "Independent Power Systems" are ready for market. However, we would be working with the University of South Florida and others on providing a water-based electrolyzer and not a hydrocarbon based source for hydrogen production. Testing of various designs is currently being carried out.



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- C. STEEL LOW-INCOME HOUSING AND CARGO-STRUCTURE (Thousands of these prefab steel structures installed throughout the world. Please see: [www.dgdbuildings.com](http://www.dgdbuildings.com)): NuET can produce and deliver these units rather quickly. The model houses from our strategic partner, Dannas Green Dot Buildings A/S are available, the architectural design staff and Project Engineers are in place, the materials for interiors is available, and the sheet metal fabrication shop is set up to start cutting from our design drawings tomorrow. These units when designed for both low income and high income residential designs are optimized with our “EcoLuz” LEDs, PV, and Wind Turbines thereby making them self-sustainable.
- D. KINMO (Flywheel technology has been used for many energy storage applications in many places): Any implementation of the MagLev-Wind and Cargo-Structure with an Empowerment Center using Steel/Cargo-Structure will require energy storage. NuEnergy intends to use its KINMO technology, wherever it can, as the renewable energy storage technology of choice, instead of traditional batteries. Certainly the KINMO may cost more initially than batteries but it pays itself off many times over during its 20+ years projected life. There is also no toxic waste management to consider. Therefore, NuEnergy plans to aggressively market its KINMO technology. NuET intends to bring its experience in using KINMO, where appropriate, into its wind and habitat energy storage designs and installations.
- E. ENERGY TRANSFER SYSTEM (ETS) (WITHIN 24 MONTHS): NuET’s ETS technology is expected to be commercialized within 2 years. The DOE-funded Phase I, proof of concept, was **successfully completed** with the University of Central Florida’s Solar Energy Center. NuEnergy is a co-patent holder. NuEnergy’s ETS solution can be used to retrofit existing trains and other people-mover transport systems with renewable energy sources. There is currently no other product like this on the market.
- F. THERMAL ELECTRIC GENERATOR (TEG) ALSO KNOWN AS HEATSEEKER<sup>3</sup> (WITHIN 12 MONTHS): NuET recently was selected as a WINNER by the University of Central Florida’s **2013 MegaWatt Ventures Competition**. We will be competing for the Grand Prize of \$100,000 for the continued product development and commercialization of our TEG System. The presentation which will back up our Statement of Work will be done at the Museum of Science and Industry (MOSI). in Tampa, on the 24<sup>th</sup> of September. Please visit: [www.Basecamp.com](http://www.Basecamp.com) for more information. NuEnergy believes that HeatSeeker<sup>3</sup> will generate energy at a cost as low as \$0.50 per watt and with an output efficiency exceeding 50%. This system is being compared to “competitive” sustainable technologies, which produce energy in the \$1 to \$4-per watt range and with efficiencies of approximately only 18%. We are capable of these reductions through the introduction of innovative and cutting edge materials, e.g., graphene, vanadium, beryllium, et al.
- TEG provides a much more cost-effective solution for solar farms, thereby reducing the capital investment. NuEnergy is also intending to integrate this technology with its mobile Waste to Energy System, called B.R.A.V.O. (Bio-Energy Refinery with Acoustic Variable Options). Our B.R.A.V.O. units can also be deployed as sea-borne mobile installation on ships. This may present the solution for the ballast waste water treatment and replacement.



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### 2. NuET intends to leverage a portion of the billions of dollars in government stimulus funding directed towards renewable energy projects in order to help achieve the commercialization for our products.

- A. There are billions of dollars in grants and other government opportunities available for developing renewable energy technologies, as well as providing demonstration projects of these technologies. NuEnergy can obtain some portion of this funding directly from the U.S. government, as well as in partnership with other firms.
- B. NuEnergy believes that the use of this government funding to commercialize its technologies provides a stable and predictable platform for our continued growth, and a strong return on investment for our shareholders as well. However, we are NOT completely dependent on this “soft” money for our growth. NuEnergy has various projects with signed contracts and the revenues from these projects may be used for the development of these technologies and the continued respective growth of our company.

#### USE OF PROCEEDS

- NuEnergy plans to use the \$2.5 Million over the next two years to accomplish the following milestones:

- **Year 1&2**

- Market the MagLev-Wind Turbine internationally and create personnel support infrastructure as needed to handle a growing customer base.
- Submit over \$100 Million worth of government grants and target to win \$20 Million in funding to further support the demonstration of MagLev-Wind Turbine, the development of HeatSeeker<sup>3</sup>; \$25 Million in grant funding applications has been recently submitted.

Our proposals are both solicited and unsolicited, e.g., a proposal will be submitted to NASA/DOD/DOE for alkaline fuel cell (FC) based self-sufficient regenerative FC.

- Complete 3-5 wind farm demonstration projects with the MagLev-Wind Turbine, using government or state funding. NuET has also already received requests for two wind-farms using standard turbines of 1& 2 MWs. One of these projects is in Costa Rica and the other one is in Africa. NuET has received an Engagement Letter from the owners to develop the Wind Farm project in Costa Rica and Ghana, Africa.
- Complete 5-10 low income steel housing, the MagLev-Wind Turbine, and our Hydrogen Power Model II Fuel Cells system, using government or private funding foundations. Requests for three Empowerment Center projects and two Sustainable City projects, with a value exceeding \$300 million have already been received.
- Generate \$150,000-\$200,000 in consulting services from the Phase II DOE Grant on developing the Energy Transfer System. This work is being done with the University of South Florida (USF) and the Florida Solar Energy Center (FSEC), which is part of the University of Central Florida.
- Broadly, market and sell our Waste-to-Energy solutions in the U.S. and Latin American markets, where there is a growing demand.



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- Be awarded 2 large wind farm projects using the MagLev units or other OEM's megawatt units
- Develop residential MagLev-Wind Turbine programs
- Complete the development of our proprietary Thermal Electric Generator.
- Submit over \$150 Million worth of government grants and win \$30 Million in funding to support the demonstration of MagLev-Wind Turbine and demonstration of TEG and other technologies.
  - Achieve financial break-even based on revenues earned from government grants, as well as revenues from sales of MagLev-Wind Turbines, Low Income Steel housing/Cargo-Structures, and our Energy Management and Sustainable Systems Division.
- Complete 3-5 solar farm demonstration projects with HeatSeeker<sup>3</sup>.
- Complete 15-20 Low Income Housing residential projects
- Complete DOE Phase II prototype on the Energy Transfer System (ET), which means ET is then ready for commercialization
  
- **Year 3**
- Win 10 large solar farm opportunities using HeatSeeker<sup>3</sup>
- Develop residential solar program for HeatSeeker<sup>3</sup> & Hydrogen Power Fuel Cell System
- Complete commercialization of ET for the renewable energy retrofit program for trains and other people-mover transport vehicles around the world.

### WHAT MAKES NUENERGY TECHNOLOGIES UNIQUE?

1. The company owns intellectual properties in a revolutionary thermal electric generator (heat-based generation of electricity), which significantly cuts end-user solar energy systems costs and will provide substantial and on-going revenue potential to NuET through licensing agreements internationally.
2. The company co-owns intellectual properties in an innovative "Energy Exchanger" designed for monorails, light-rail and transit applications that significantly reduces energy costs for these industries.
3. The company owns intellectual property in the field of producing hydrogen fuel cells which will use water for the production of the hydrogen needed for recombination. This is believed to be the "Holy Grail" for the world-wide acceptance and usage of hydrogen fuel cells. Having to use a hydrocarbon or hydrocarbon based source to produce hydrogen is like having "today's solution" becoming tomorrow's problem. Here at NuET we believe that water is the true elixir of life and the key to the widespread use of hydrogen fuel cells.



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4. The company is the Co-Patent Holder on the MARK III Boundary Layer Turbine (BLT). This is a turbine which was originally designed by Nikola Tesla and from which NuEnergy, together with Statim Technologies, is making an amazing “Game Changing” technology. If you would like to watch the videos on our BLT, or visit our plant for an on-site demonstration, please call or send us an email requesting such a visit.
5. The company has negotiated a license to manufacture a technology breakthrough in vertical wind turbines, which uses magnetic levitation and is therefore frictionless and noiseless, with negligible frequency. This allows the installation of these units on roofs and in locations where wind turbines were not previously considered viable.
6. The CEO/CTO, Dr. Hector Guevara, has over 30 years of success in managing his own renewable energy and design/engineering firms. NuET grew out of his previous two successful companies, Hytech Industries, which he took public (OTC) in 2002, and Alternate Energy Industries. Dr. Guevara is well known as a visionary and innovative scientist, engineer and businessman, and a long-time leader in renewable energy solutions, as well as systems for the rail and transit industries. He installed the solar system in the White House in 1979. In the late 90’s his company, Hytech Industries Corp., worked with Bombardier and Alstom Transportation and produced the control cab cubicles for Amtrak’s high-speed rail cars and locomotives. In 2003 his company worked with the Army Corps of Engineers and was the prime contractor to build the control systems for a hydroelectric plant in Virginia. ABB Power Systems Group was a subcontractor to his company. In 2002 Dr. Hector Guevara was named The Hispanic Entrepreneur of the Year by New York State’s Department of Economic Development.
7. Dr. Guevara has an established prior-client base particularly in the transit industry; many of whom have purchased energy-saving systems, and, we believe, can be leveraged for more sales.
8. Both the CEO and the VP for Latin Markets speak fluent Spanish and have extensive contacts in Spain, Costa Rica, Mexico, Colombia, Ecuador, Panama, and other Latin countries. Recent mandates and developments from the Obama Administration are leading to the opening up of Cuba to U.S. markets and eventual disappearance of the trade embargo. This provides significant opportunities for our sales of consulting services to U.S. and international renewable-energy companies that want to do business in Cuba, Latin America, and other emerging markets. NuET has already signed up non-exclusive Representatives in: Africa, Brazil, Colombia, Costa Rica, Greece, Haiti, Israel, Mexico, Colombia, Ecuador, Nicaragua, Peru and Dominican Republic. NuET has also set up affiliated subsidiary companies in Colombia, Ecuador, and Mexico.
9. Our strategic alliances and experience in solar, wind, energy-storage and hydroelectric energy generation allow us to provide hybrid systems; thus, we cannot be pigeon-holed into any one technology. This is a direct value benefit to the consumer and, of course, our shareholders.



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**Douglas J. Tobin, PE, RA Senior NuEnergy Project Engineer**

President & CEO of **ARC International Associates Inc.**

Registered Architect

Professional Engineer

Brief Resume

**1.0 AREAS OF EXPERTISE**

- Project Director, Program Management, Construction Management
- Transportation Terminal Design and Planning
- Building Architecture, Electrical, Fire-Protection, HVAC, Structural Engineering
- Airport Master Planning & Design
- Cargo Handling Systems Design and Engineering
- Baggage Handling Systems Design and Engineering
- Concessions Master Planning & Design
- System and Building Interface Architecture and Engineering
- Cargo/Warehouse Facility and Material Handling Systems Architecture and Engineering

Projects include numerous Baggage, Cargo, and Material Handling Systems. Mr. Tobin has developed over US \$2.5 billion worth of projects within the U.S. and internationally on commercial and industrial projects.

**2.0 Architectural Registrations**

- Connecticut, Florida, Georgia, Kentucky, Illinois, Massachusetts, New Jersey, New York, Pennsylvania, Texas, Virginia

**3.0 Professional Engineer Registrations**

- Connecticut, Maine, New York, Pennsylvania, Vermont

**4.0 Professional Organizations**

- NCARB Registered Architect
- New York Society of Professional Engineers

**5.0 Education**

- New York Institute of Technology - Bachelor of Architecture (5-year)

Graduated - 1980 - Magna Cum Laude

- Norwalk State Technical College

Norwalk, Ct. - Associates Degree in Architectural Engineering (2-year)

Graduated – 1976 – Summa Cum Laude

**PLEASE LET US KNOW IF YOU WOULD LIKE TO RECEIVE CV's ON OTHER SENIOR EXECUTIVE OFFICERS OF NUENERGY TECHNOLOGIES. ALSO, IF YOU REQUEST A COPY OF OUR BUSINESS PLAN, YOU WILL RECEIVE A MUCH MORE DETAILED ANALYSIS OF COMPARATIVE COST, EFFICIENCIES, AND A BROAD GLOBAL MAP OF THE RENEWABLE ENERGY BUSINESS.**



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## TARGET MARKETS AND HUMANITARIAN OBJECTIVES

NuET's potential target customers include corporations that wish to become energy-efficient, government agencies (internationally), government prime contractors, utilities, non-profit organizations, land owners and developers, and any stakeholder that has the wherewithal, natural resources and desire to convert or upgrade their energy needs to clean, renewable technologies.

It is our mission to contribute to social and humanitarian projects that must be undertaken in order to clean up our planet, reduce our dependence on fossil fuels, and ensure a safer place for our children and grandchildren. This is our overriding goal. We are already engaged in several projects that directly relate the use of sustainable energy systems to helping emerging nations facilitate the critical tasks of feeding their people and ensuring their productivity. Our integrated panel of solutions for humanitarian projects includes water decontamination and desalinization systems.

Our humanitarian and energy independence goals are both achievable and prosperity inducing. Our pressing challenge is raising awareness and engaging able stakeholders who are motivated by leadership and responsibility.

*Please let us know if you are interested in knowing more about our technologies and receiving a copy of our Technologies Portfolio and Five Year Projection Plan. These technologies are proprietary; therefore we only ask that you please sign our simple Non-Disclosure Non-Circumvention Agreement (NDNCA). We will then gladly email a copy of our NDNCA. Immediately, upon your return of the signed NDNCA, we will release a copy of our detailed Technology Portfolio, White Papers, and Patents or their application. Also, please advise if you would like to receive a copy of our Business Plan Memorandum, which will include a listing of all our International Mfr. Representatives and Independent Agents and Private Placement Memorandum. As of Oct. 15<sup>th</sup>, 2012 we have already placed over \$500,000. NuEnergy, as of this noted date, has 48 private shareholders. We would like to have our \$2.5 Million Offering closed by September 30th, 2013. This document which you are reading is not an offer or a solicitation of our company's stock, which can only be done through the presentation of our Private Placement Memorandum (PPM) and other ancillary documents in observance of and compliance with our USA Securities and Exchange Commission laws.*

For the receipt of our PPM please,

### CONTACT

Dr. Hector M. Guevara

866-895-6838 X101 (NUET)

Mobile: 727.741.3569

[hguevara@nuenergytech.com](mailto:hguevara@nuenergytech.com)



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### **Safe Harbor Statement**

Matters discussed in this Executive Summary contain statements that look forward within the meaning of the Private Securities Litigation Reform Act of 1995. When used in this document, the words "anticipate," "believe," "estimate," "may," "intend," "expect" and similar expressions identify such statements that look forward. Actual results, performance or achievements could differ materially from those contemplated, expressed or implied by the statements that look forward contained herein, and while expected, there is no guarantee that we will attain the aforementioned anticipated developmental milestones. These statements that look forward are based largely on the expectations of the Company and are subject to a number of risks and uncertainties. These include, but are not limited to, risks and uncertainties associated with: the impact of economic, competitive and other factors affecting the Company and its operations, markets, product, and distributor performance, the impact on the national and local economies resulting from terrorist actions, and U.S. actions subsequently; and other factors detailed in reports filed by the Company.