

Phoenix Energy Systems, Inc. (PES)

About Phoenix - Phoenix Energy Systems, Inc. (PES) has been formed under Bahamian laws, with headquarters in Nassau, to act as a developer of energy and fuel related business ventures. Phoenix will package renewable and sustainable energy technologies to convert waste and low-cost feedstocks into non-dollar generated electricity and alternative fuels. As a Technology Neutral Development Company, PES will select and integrate "best available" technologies that are most appropriate within a given market. In this way, PES stays ahead of the rapidly changing landscape of new technologies in the Waste Management and Energy Fields.

PES will contract for all of the varied wastes in a given area for use as a feedstock, along with securing the land site, project financing and the customers for by-products created by the system, such as electricity, steam, hydrogen, liquid fuels, vitrified aggregates and metal ingots, to name a few.

It is the intention of PES to form as many local alliances as possible to keep this a Jamaican business venture and provide employment opportunities for the talented people of Jamaica. Indirectly, this will improve the economy and the sensitive ecosystem of the island.

Executive Profiles

Thomas L. Rich

Founder and Principal of Phoenix Energy Systems, Inc., Mr. Rich is an entrepreneur with work history that includes 40 years of worldwide experience as a management consultant to Fortune 100 corporations. He has developed entrepreneurial projects in agribusiness, waste management, real estate development and energy production. Mr. Rich holds an MA degree in International Studies from the University of California, Berkeley.

Randy L. Thomas

Mr. Thomas has over 30 years of experience in business development, management, marketing, and sales. He has held management positions at Fortune 500 and large privately-held corporations within the commercial nuclear and power generation industry. He has diverse knowledge of the operations, economics and applicational feasibility of various energy-related technologies. An entrepreneur by nature, Mr. Thomas has launched two successful businesses. Most recently, he founded and is President of Captive Energies, LLC, a project development company that collaborates with equipment manufacturers, engineering firms, alternative fuel markets, waste-remediation companies, property owners, financial consultants and enterprises that have the capacity to facilitate the development of viable and sustainable projects.

Elvira Calvo Kock

Elvira Calvo Kock, a U.S. citizen, is a specialist in international import and export, and has spent a great portion of her life in international trade, including the export of radioactive cobalt to the USA from her native Argentina. She has degrees from Argentine institutions, as well as from Columbia University, where she received a Masters in Psychology and International Relations.

Cormac Glynn

Cormac Glynn was awarded two Law Degrees from University College Dublin Ireland (UCD) in 1967 and (BCL) in 1968. He worked as an Attorney and Fundraiser in Ireland prior to immigrating to the USA in 1991, where he worked as a stockbroker and trader on Wall Street before eventually setting up his own business in Investor Relations.



Energy Systems Inc.

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**UTILIZING TOMORROW'S
TECHNOLOGIES TO SOLVE
TODAY'S WASTE PROBLEMS**

Creation of Downstream Markets

- ...Destroy All Wastes***
- ...Generate Clean Energy***
- ...Market Valuable By-Products***
- ...Improve Public Health***



Phoenix Energy Systems, Inc.: Developers of

The Plasma System Solution: A Thermal Conversion Technology The Ultimate and Complete Recycling System

Using a Plasma System returns complex waste components to their elemental atoms, producing a safer and cleaner world.

About The Plasma System

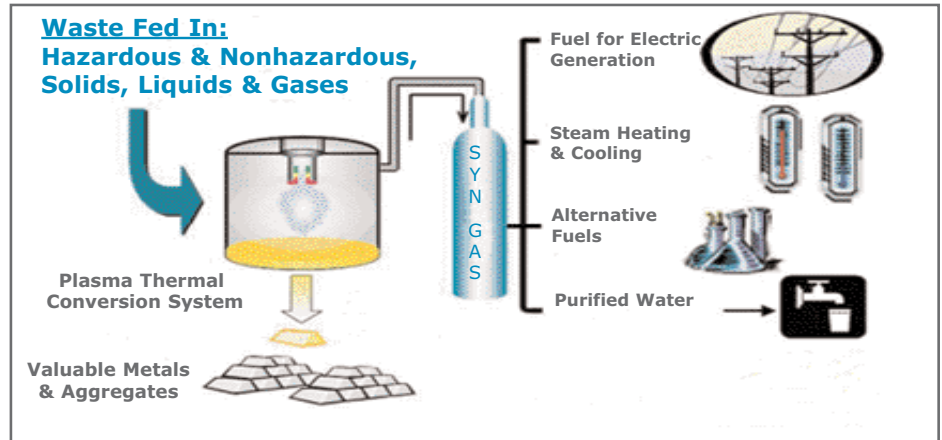
This System provides a total solution to the inherent problems of waste management. The system safely, efficiently and economically destroys wastes, no matter what form, and turns them into useful and valuable products. The Plasma System is not a combustion process but an electrical driven one that causes the molecular breakdown of matter. The energy that the waste is put under produces chemical decomposition or dissociation on a molecular scale until it reaches the level of the basic components (atoms). In doing so, the System protects the environment and helps to improve the public health and safety, vital to the ecosystem, the tourism industry and the economy of Jamaica.

Full-Circle Processing for a Cleaner and Safer Environment

The System achieves "closed-loop elemental recycling" to safely and irreversibly destroy all industrial and agricultural waste, which includes organics and inorganics, solids, liquids and gases, hazardous and non-hazardous industrial by-products and also items such as "e-waste", medical waste, chemical industry waste and other special wastes, while converting many of them into useful commodity products that can include metals and a synthesis-gas.

Converting Society's Waste to Valuable Resources

The Plasma System melts and recovers metals for the metallurgical industry, and other non-organics such as glass, dirt, rock, resulting in an obsidian-like, glassy silicate compound. The Obsidianite is a valuable commodity with applications in the construction, building products and abrasive industries.



Our Team

Our multidisciplinary team of environmental specialists covers all major environmental fields including:

- Risk Analysis
- Environmental Impact Studies
- Construction Feasibility Studies
- Environmental Compliance
- Waste Audits
- Waste Management Plans
- Site Deconstruction and Demolition
- Pollution Prevention
- Resource Recovery
- Health and Safety Plans for Plant Sites
- Health and Safety Audits
- Current Energy Efficiency Plans
- Sustainable Development



Benefits of the Program:

- *Improves local economy by expanding employment opportunities through development of new technology industries.*
- *Enhances local economy for agricultural and industrial products.*
- *Eliminates need for additional landfill capacity.*
- *Creates downstream industries.*
- *Cheaper electricity production.*
- *Water quality improvement.*
- *Potential improvement of public health and safety.*
- *Protection of the ecosystem.*
- *Enhancement of ecotourism industry with protection of marine life and coastal beaches.*

A Plasma Converter



**The
Elementary
Solution to
Waste Management**



Resource Recovery and Sustainable Energy Projects

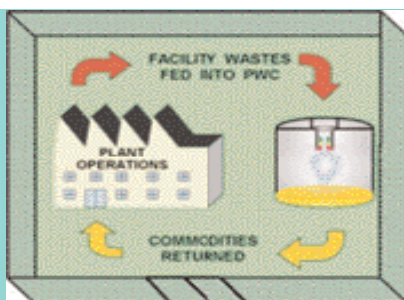
Advantages of Using a Plasma System

1. Can process **all waste** material, safely and economically, in any form:
 - **hazardous and nonhazardous wastes** - solids, liquids, sludges and gases
 - **medical wastes**
 - **industrial wastes including chemical solvents, greases, sludges, refinery by-products**
 - **sanitary wastes**
 - **tourism wastes**
 - **specialty wastes**
 - **electronic wastes**
2. Produces "green non-dollar generated electricity."
3. Provides **employment opportunities and training** of local populace in new technical skills.
4. "Closed-loop elemental recycling" system processes wastes safely and economically in a **non-combustion, no smoke stack process** without producing harmful, noxious emissions, effluents or residues.
5. Recycles wastes into **marketable commodities such as materials for building and highway constructions. Materials previously regarded as waste are recycled and processed as feedstock to produce these commodities.**

All wastes are safely and economically destroyed by the process, no matter how hazardous or toxic they may be.

6. Improves public health and safety.
 - **Reduction of indiscriminate burning of waste.**
 - **Reduction and elimination of untreated and non-sealed landfills**, thereby eradicating the harm that arises from incinerators and landfills.
 - **Potential reduction and elimination of endemic diseases** such as Dengue fever and malaria that arise from mosquito breeding sources in landfills.
7. Greatly **reduces cost and risks** associated with waste generation **producing positive cash flow and profits.**
8. **Meets and exceeds all U.S. EPA emission standards.**
9. Systems sized to convert **thousands of pounds to hundreds of tons** per day, based on available feedstock.
10. **System can be located** adjacent to existing landfill.
11. **Volumetric waste reduction** for most solid wastes is approximately 300 to 1.
12. **Combined Energy Efficiency** (energy input vs output) is greater than 85%.
13. **Recycling of landfills would reduce discharge of contaminants into the atmosphere and groundwater**, such as carbon dioxide, sulphides, pesticides.
14. **Mining of existing landfill sites** until fully emptied and **reclamation of landfill sites** producing green usage space.
15. Can **operate continuously** without many of the difficulties and costs that arise in other technologies when operated in the same manner.
16. Because the System is "**inherently safe**" being electrically driven, unlike incinerators, its operation can be stopped immediately by shutting off the electricity.
17. The system is **computer controlled, easy to use and operates at normal atmospheric pressure**, very safely and quietly.

Waste to Energy & Commodities



The Beauty of Change

