



Harnessing the Power of the Future, Today.

BLACK INVESTMENT GROUP HOLDINGS INTERNATIONAL, LTD.

PRESENTS

GHANA REGIONAL COMMUNITIES 2024 & BEYOND

***Award Winning Green and
Clean Energy Solutions***



Clean Energy

**Ghana Regional Communities
Representative**

Major Farouk / BIGHI

BIGEnergy Technologies

BIG Holdings International, Ltd.



CORPORATE DISTINCTION

Legacy

Legacy is the conscious choice to invest in solutions that make the world a better place for children we will never live to meet – but are still nonetheless responsible for.

BIG HOLDINGS INTERNATIONAL

- Dr. Bob Black of Black Investment Group Holdings International. Ltd. (BIGHI) is one of the leader in renewable energy scientific achievement for over 35 years and multiple patent holder partners;
- A successful business owner and leader of multiple ventures, partnerships and strategic alliances;
- A horizon market visionary, attuned to ‘tomorrow’s planetary needs and solution development;
- A humanitarian aimed at the restoration of people and their potential through new energy solutions;
- A university scholar dedicated to the dissemination and exchange of knowledge to usher in realization of the new energy economy.

Corporate Highlights

- A pipeline continuum of technologies with above standard energy savings and production output;
- Customized “solution portfolio” for every client; not one-size-fits all;
- Unmatched beginning-to-end service fulfillment network;
- A history of innovative achievement in scientific development and real-time commercialization;
- Growth strategy that harnesses the power of a global strategic alliance network;
- Corporate values that demand high standard ethics and integrity;
- A top-level management team and network of strategic partners.

DISCLAIMERS & ASSURANCES

All forward looking statements (may, will, expect, anticipate, plan or continue; or variations thereof) contained in this document are professionally formed views of BIGEnergy's management based on current industry best practices. As subjective statements, however, they are subject to change resulting from industry shifts and opportunities. Performance standards, therefore, may be subject to change based on shifts in these external dynamics.

Black Investment Group Holding Technologies assures that all of the information contained in this document is based on advanced best practices (research and knowledge development) across multiple sectors/markets of reference; including the energy, renewable energy, energy efficiency, sustainability, agriculture, and home energy management industries. This supporting wisdom assures work contracts, and supporting practices, are rooted in the highest standards of industry excellence. However, these assurances and representations can not be guaranteed to be produced within a specified period of time. bigholdings@gmail.com

Products

A world class menu of advanced clean energy and integrated green system solutions for corporate, public, municipal and residential sectors.

2. Services

Decades of acclaimed consulting services representative of advanced practice experts and leaders in sustainability and renewable energy.

TOTAL PORTFOLIO OF OPPORTUNITY

Harnessing the Power of the Future, Today.

3. Manufacturing Plants

The establishment of BIGEnergy Technologies manufacturing plants producing its clean energy and green solutions.

4. The Global Alliance

Access to BIGEnergy's ever expanding network of alliance partners, knowledge brokers, and horizon market product developers.



BIGE'S PRODUCT LINE

LEADING COST SAVING CHOICES

Integrated Energy-Saving, Conversion, Transfer and Storage Technologies

* Affordable Sustainable Housing * Integrated Solar * Wind * Waste to Energy (WTE) model * Energy Farming and Food Production * Water Purification * Recycling * Desalinization * Sustainable Communities * Global Knowledge Exchange and Connectivity

Impact : A BIG Culture for a BIG Generation



HEATSEEKER3 Solar Technology

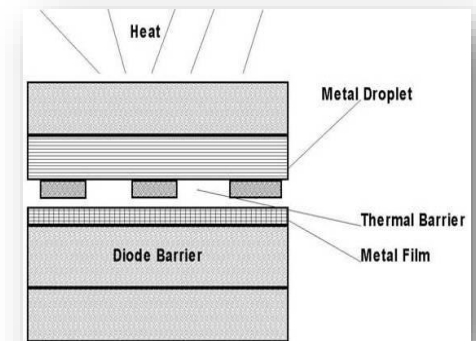
Converts thermal energy (heat) into electrical energy.

BIGEnergy recently was selected as a WINNER by the University of Central Florida's **2023 Mega Watt Ventures Competition.**

UNDER FINAL DEVELOPMENT FOR CERTIFICATION...

Commercial - Residential

- Heat Seeker3 will generate energy at a cost as low as \$0.50 per watt and with an output efficiency exceeding 50%; competitive technologies cost 1 to 4 and yield only an 18% efficiency.
- 57% minimum efficiency promises the most efficient solar system in the world.
- Up to 50% less the cost of standard high-end PV panels.
- Significantly cuts end-user energy use costs; increases savings.
- Maximum re-use of wasted heat.
- An exemplary solution for solar farms.
- Unlike traditional PV products that require light, Heatseeker³ can work in the light or dark, requiring only conductive, convective or radiant heat source.





BIGENERGY WTE GASIFICATION SYSTEM SOLUTIONS

Expertise

Quality of Life and Cost Savings.

- Partnerships with leading Central and Decentralized Gasification technology providers.
- Converting all types of waste materials to clean energy for over 3 decades.
- Successfully operating in high demand industrial applications on five continents converting over 10 million tons of biomass and other waste fuels to clean energy.
- Converts solid fuels to combustible gases that are used like natural gas to fire boilers, dryers, kilns, furnaces, thermal oxidizers, IC engines, Combustion Turbines and GTL applications.
- Available in a wide range of sizes to gasify from less than 1 ton to an average of 2,000 tons per day.
- Providing Central Gasification Plants to Energy Systems for all solid wastes.
- Incorporates the most appropriate proven cost effective technology solution available and capable of providing the maximum benefits to the local community and global environment.



Waste-To-Energy (WTE)

Worldwide, electricity demand is growing.

REMEMBERING RIVERTON CITY – KINGSTON –
BIGE is continuously researching next generation horizon technologies; enabling it to consistently be “readying” for next level science development

Options

BRAVO MOBILE UNITS: *Mobile, Modular, Super Affordable, Environmental Clean*
UNDER FINAL SUBSYSTEMS INTEGRATION AND DEVELOPMENT FOR CERTIFICATION.....

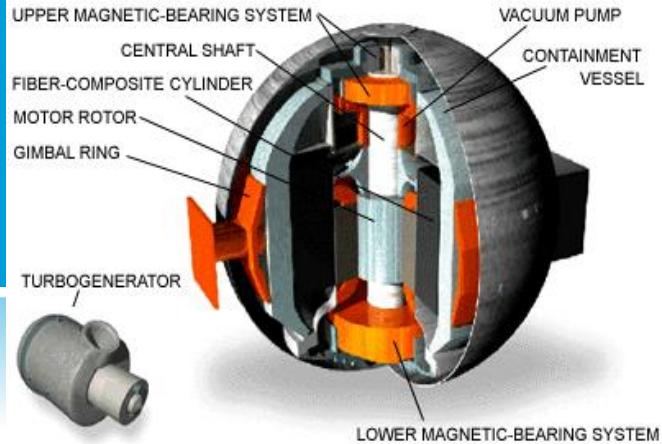
- Starting at 50 ton/day (4-12 MW/day) 1 ton waste = 300Liters of Syngas/day.
- Can put modular units together to unlimited outputs.
- Convert organic and inorganic waste ONSITE, drive to any waste location.
- Zero emissions, low operating cost and maintenance, power generation within 24hrs.

MINI GASIFICATION UNITS: *RESIDENTIAL/VILLAGE SIZE, SUPER-AFFORDABLE, CERTIFIED, MODULAR, MOBILE, CONVERTS ALL INORGANIC & ORGANIC WASTE*

- specially designed for hospitals, public buildings, ocean vessels, farms, industrial parks, pharmaceutical and chemical manufacturers
- No Prior waste separation is required
- converts 1 -5 tons per day into energy and biogas



Advanced Transportation



Sustainable Energy Saving Transportation Technologies to Meet Anticipated Growth

KINMO Flywheel Energy

- Flywheel energy storage systems act like a battery, guaranteeing a continual supply of electricity .
- Economically and Environmentally more efficient than regular batteries used for energy storage.
- Converts electrical energy into mechanical motion (Kinetic Energy) and then, if needed back into electrical energy again.

NuEnergy Technologies has 20+ yrs. designing, manufacturing and supplying Amtrak's new high speed control systems for their power cars & locomotives, and numerous other subsystems to the mass transportation rail industry...

THERMAL ELECTRIC GENERATORS

- Using KINMO to handle power leveling and storage applications.
- NuEnergy's patented Thermal Electric Generator captures waste heat from induction motors.
- TEG award winning technology, converts this heat into electricity at a high efficiency rate.

Boundary Layer Turbines, 20Mill MW Energy in 3m2 box



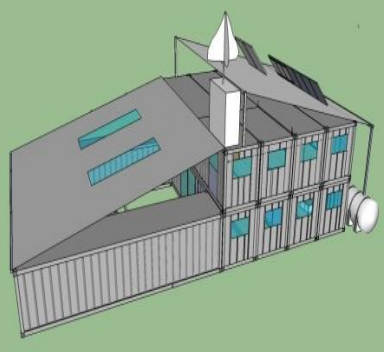


Maglev Wind Turbines

“looking to WIND for Renewable Energy”

- Maglev is from 2.5kw – 10kW PLUS Large custom-made sizes
- Maglev’s new & improved systems are 92.3% efficient, Certified and Approved by the US Dept of Energy.
- Maglev is short for “magnetically levitated,” meaning the design uses magnets to “float” or suspend system components
- VAWT = Vertical, frictionless levitated operation, requires no maintenance, is noiseless and wear-free.
- Generates Power at both high and low wind speeds
- Significant reduction in Costs from space saved, set up, no maintenance, and high efficiency

Revolutionary wind system that will change how people use wind



Sustainable Affordable Housing

Customized Response to Community Growth Needs

NuEnergy is involved in the supply and construction of sustainable homes worldwide, and is continuously expanding its menu of sustainable housing options.

* WATER * SEPTIC * WASTE*

* A Completely Sustainable Self-Sufficient Model

- ZERO CARBON FOOTPRINT - 100% environmentally safe & friendly
- Creatively-designed, single or community-centered healthy buildings!
- Designs are further optimized with “EcoLuz” LEDs, PV/TEG Solar, and Wind Turbines, WTE and Septic Conversion systems – Homes produce Energy and Biogas
- Much Stronger, Quieter, Sand and Dust Free Homes and facilities.
- Advanced construction materials, NO Mold, Bugs, Sand or Dust
- Speedy 48 hour construction, no skills, or training required
- Water, Storm, Hurricane and Flood Resistant
- METAL STRUCTURAL INSULATED PANELS, SIPs are made of two 26-gauge Zincalume plates with a polystyrene inner insulating core, all permanently bonded together by a heat treatment using a special high tech easy to use machine.





AQ3 Water System

New Water Desalination and Purification

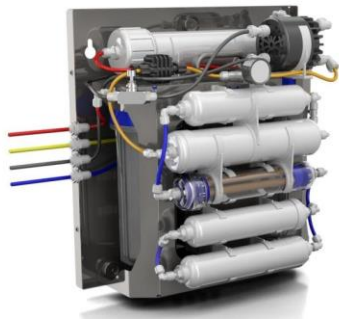
AFFORDABLE

**SOPHISTICATED
TECHNOLOGY**

HIGH SALINIATY

REMINERIALIZES

- AQ3 is a Toilet-To-Tap Technology designed by the Czech Space Research Center
- Recycles and Purifies any filthy water back to mineral-rich drinking water, again and again.
- low energy consumption - consumes only 10 to 30 W per day.
- The unit "turns off" automatically when "storage tanks" are filled
- Can operate at low voltage between 12-24 Volts
- **Energy from solar panels** optional
- For residential, village and industrial use of all kinds
- Desalinates





PURE



Cavitation Technology

UNDER INTEGRATION DEVELOPMENT WITH OUR OTHER PROPRIETARY SYSTEMS.....

- Cavitation integrated with our proprietary Hydrogen Excitation and Boundary Layer Turbine brings to market a new technology for a global change in water purification and power (electric) generation.
- Utilizes electromagnetic fields combined with laser beams to create and harness cavitation, waste-water, frac water, seawater- indeed all water.
- Processed through mobile machines; creates cavitation in a controlled environment, to harness and utilize the energy released to hyper-purify all high pressure steam passing through our boundary layer generator.
- We can desalinate, treat wastewater to potable, clean hydraulic fracturing recovered water to 100% pure H₂O **while** eliminating their water-related environmental concerns, and refine crude oil, just to name a few applications.
- Yield of 100% pure H₂O. Crude processed through the machine can be refined on-site to desired yield (diesel, gas, jet fuel, or upload power to grid, etc.),
- Energy used may be as little as 100kw / hour.
- The cost of using our Powerhouse Generator & Water Purification System to desalinate sea water is considerably less than other methods such as reverse osmosis, electrocoagulation, etc.

Food Security



- HYDROPONIC SYSTEMS for crop production.
- Placed in any climate.
- Develops into an energy/food/profit generating farm with short turnaround.
- Food and wealth generation farming *Jatropha Curcas*.
- Increasing local employment, industry and economy in a very short time.
- Can take any land in hot/dry climate and turn it into.
- Creates multiple secondary markets and inspires local entrepreneurship.

***WEALTH GENERATING ENERGY and
FOOD FARMING WILL STRENGTHEN
LOCAL ECONOMY BUILDING.***



Aquaponics is the answer for drought stricken environments. It's like the oasis in the desert.



Aquaponics

It's the farming of the future!

- Aquaponics uses only a fraction of the water used in conventional farming and can use even less if you collect rain water to add to your system.
- The natural ecosystem of an aquaponics system makes aquaponics an easier to manage; there is limited labor required for maintenance.
- Grow more produce compared to produce grown conventionally in the ground; this way of growing food means the aquaponics farm does not require farmland with fertile soil, or even land with soil at for that matter.
- Aquaponics growing is that it grows 100% chemical free, all natural produce.
- Energy usage is from 70% to 92% less than conventional or organic farms which use fuel and/or petrochemical-intensive fertilizers.
- All energy used is electrical, so alternate energy systems such as solar, wind, and hydroelectric can be used to power an aquaponics farm 100%.

LED Lighting



We Are The
LED Lighting
Professionals!



- Reduced energy consumption by up to 80%.
- Minimal lumen depreciation, longer lifetime, directionality and durability. Reduced maintenance costs; at a ten-year lifetime (compared to two years for a metal halide bulb), municipalities and sign owners will need to change far fewer bulbs, ballasts, and igniters.
- Maintenance savings are sufficient to make LED fixtures cheaper on a lifecycle basis than conventional fixtures.
- “Off the shelf” LED Retrofit Kits and LED Fixtures with 200,000 hour rating.
- Patent pending Retrofit Kits convert HID-Fluorescent light fixtures into maintenance free, energy efficient fixtures.
- Patented thermal technology provides significant maintenance cost savings by lasting 5-10 times longer than HID lamps; a 5 year limited warranty.
- Uses soft start technology, which makes it a perfect complement to solar or wind power.

Complementing full line of Par Lamps, LED Tube Lighting, Led Ceiling Panels, and General Lighting product options also available.

2. SERVICES

Full Services Renewable Projects and Power Providers

- Integrated Systems Engineering
- Sustainable Energy & Water Solutions from Start to Finish
- Innovative Strategies , Designs and Deployment
- Empirical Data and Testing
- Quality Management, Financing Strategy
- Process Management and Improvement
- Project HR/ Human Capital Design and Management
- Evaluation / Knowledge Development and Dissemination

Cost Management and Full Spectrum Financing

- Financing Strategy Design
- Philanthropy Development
- Grantmanship Services and Investor Relations
- Community Energy Investment Bank Design
- Tax Credit / Bond Driven Financing Incentive Programs

Over 65 years of combined consulting expertise providing the following guidance solutions:

Renewable Projects and Power Plants

Realization and Cost Management

Full Spectrum Financing

Sustainable Community Development

Jobs

**Secondary
Markets**

**Community
Stability**

The BIGEnergy Manufacturing Center

- A triple value, golden opportunity for business venture partners, regional economies and the communities in which manufacturing plants are centralized.
- Spurs the development of secondary micro-markets resulting from company operations; advances the enterprising spirit in communities.

3. MANUFACTURING PLANTS

4. GLOBAL NETWORK

**Access to
Global
Expertise**

**Knowledge
Sharing**

Innovation

- Access to BIGE's expanding knowledge and expert network.
- Connected through a global information data bank and opportunities for online knowledge exchange.
- Invitation to key investor, shareholder and donor functions.
- Participation in our 2022 International Conference, BIGEnergy for a New World.

OUR INVITATION FOR DIALOGUE

Harnessing the Power of the Future, Today.

Solutions

Green Innovative Sustainable Technology Solutions.

Comprehensive and Inclusive.

**Ushering in New Global Leadership In Environmental Improvement,
Economic Restoration and Readiness for the New Energy Economy.**

*We Welcome the Opportunity to Dialogue with Sao Tome and Principe Ministers to present our WHETT Technology for **W**ater, **H**ousing, **E**nergy, **T**ransportation and **T**elecommunications via Representative **RET. Major Farouk** in collaboration with **BIGHI Investments**, regarding our Alternate and Re-Newable Energy System for Ghana Regional Communities (GRC) one of W. Africa Current Energy Needs.*

Dr. Eng. Bob Black

President and CEO

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SUSTAINABLE HOUSING



SUSTAINABLE HOUSING

BUILD IN LESS THAN 10 DAYS

Designing Sustainable Communities with New Technologies

- * A sustainable Ghana Regional Community is a complex system design. We specialize in building Cities
- * BIGHI works with clients to develop community concepts with many sustainable technology options
 - * Then the WHETT team applies "economically viable, best available technology" and engineering experience to make the concept work

THE NEW GHANA REGIONAL



NEW DEVELOPED CITIES OF GHANA REGIONAL COMMUNITIES





GRC RESIDENTIAL APARTMENTS PRE-SCREENING APPLICATION AVAILABLE

EMAIL:
bigholdings.investments
@proton.me

- ⦿ **Golden Meadows:** A lush and prestigious locale where elegance meets nature's beauty
- ⦿ **Regal Heights:** A community perched on elevated grounds, exuding sophistication and grandeur .
- ⦿ **Palm Paradise:** Imagine palm-fringed streets leading to luxurious homes in a tropical oasis
- ⦿ **Blossom Gardens:** A place where meticulously landscaped gardens bloom year-round
- ⦿ **Ocean Crest:** Overlooking the azure ocean, this community promises coastal luxury
- ⦿ **Sunset Haven:** A serene retreat where sunsets paint the sky in hues of gold and crimson
- ⦿ **Enchanted Woods:** Nestled amidst mystical forests, this community invites enchantment
- ⦿ **Floral Haven:** Imagine fragrant blooms and manicured flowerbeds at every turn
- ⦿ **Serenity Springs:** A tranquil haven with bubbling springs and serene vistas
- ⦿ **Cityscape Heights:** High-rise living with panoramic city views and urban sophistication
- ⦿ Feel free to choose a name that resonates with your vision of luxury and exclusivity!