



ZharBiz



AAROGYA JCH INC.

WASTE TO ENERGY PROJECT



Zharbiz International Team Up With AAROGYA JCH, AAROGYA JCH is an international Renewable Energy Integrator development and project management company with advanced technical know-how created to develop and invest in renewable energy, unprecedented infrastructure and social benefits programme in Asia.

Zharbiz Consortium and partnered company is actively and successfully involved in the implementation and operation of similar projects in Europe, Africa and Asia.

Our mission is to create a Non-Disruptive Innovation in developing countries for power, waste, infrastructure and social benefits, thru an inexhaustible resource of Renewable Energy.

A STRATEGIC ALLIANCE, a first of its own, of SCIENTISTS, ENGINEERS AND ENTREPRENEURIAL BUSINESS ASSOCIATES have formed a teaming agreement to develop a master plan for RENEWABLE ENERGY PROJECT. This is a special and uniquely proposed alliance for the Philippines, Malaysia, Thailand, India and for African Countries besides national projects to upgrade the waste to energy plants in China.



COMPETITIVE ADVANTAGES:

Energy from Waste Power competitive advantages are positioned to offer the Philippines and regions renewable Energy production with:

- ❖ fixed operational expenses
- ❖ primary and secondary benefits
- ❖ additional profit centers
- ❖ zero waste non-polluting power generation

While meeting the world requirements for

- ❖ carbon reduction

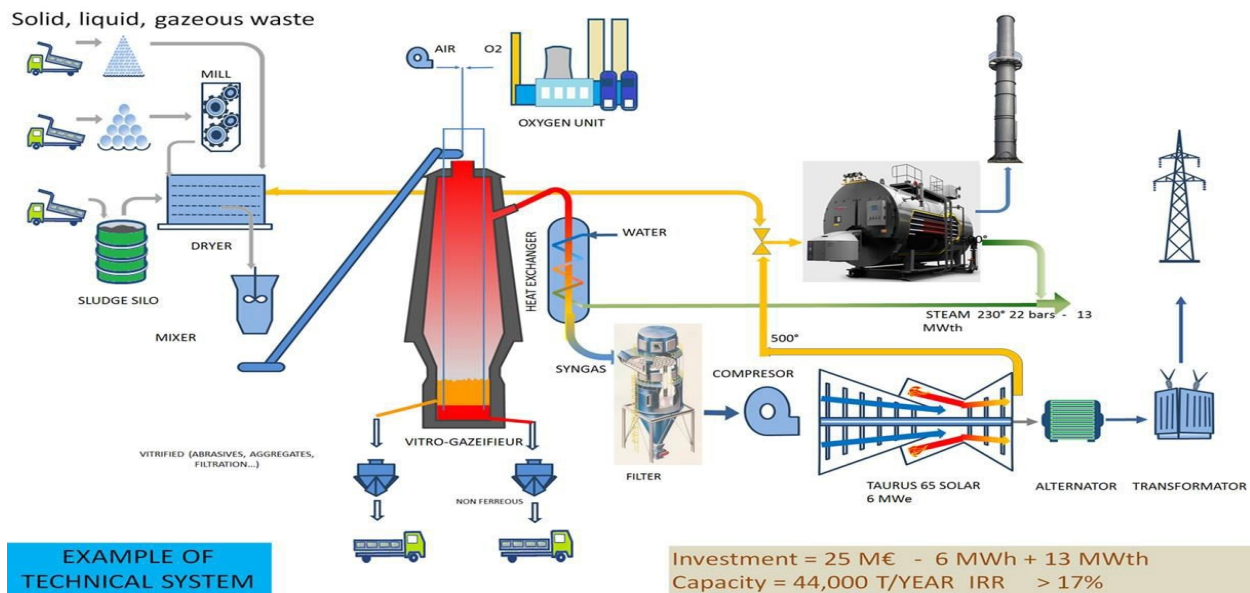
ZHARBIZ INTERNATIONAL Consortium And integrate technology and transforms low-value materials into high-value products for companies and communities around the world using our proprietary of **Reactor /Gasification technology**. We fulfill market needs in three key areas that will continually drive global demand and growth for our products.

Final Result: zero waste, zero discharge.

Current Innovations = real answer to environmental challenges.

No more saturated hazardous waste landfills and incinerators.

Valuation of raw materials by metals recovery and only inert vitrified glass residue.



Market Need ZHARBIZ INTL Consortium and technology partners Capability

Renewable Energy

- Transforms a wide array of feedstocks into energy at a rate of 0.5-2.2 MWh per metric ton processed
- Energy output options including electricity, liquid fuels and specialized chemicals

Waste Management

- 20:1 waste volume reduction
- Eliminates source of waste air and water emissions
- Recovery of raw materials that would otherwise be discarded
- Creates a near 100% solution to waste management

Land Remediation

- Detoxification of waste emissions and hazardous compounds in toxic soil and other sources.
- Reduces greenhouse gases caused by existing landfill including methane (21x more negative impact than CO2), VOCs, HAPS and other harmful compounds
- Produces energy while restoring a healthy environment.



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Waste management and energy is big business. **Zharbiz consortium** combines both in one cost-effective product that can cleanly convert most any waste into energy. We make small-footprint energy plants.

Transforming the Economics of Waste

For thousands of years, humans have dealt with waste by either burying in landfills or burning in pits and incinerators. We now understand the dangers of these choices and the waste industry spends tens of billions of dollars per year on technology that ensures these antiquated methods do not release toxins into surrounding communities. Regardless of their advertised “cleanliness”, the stigma of landfills and incinerators makes it nearly impossible to permit in new locations. Today, cleaner alternatives exist but they are not economical or efficient.

Zharbiz consortium understands that environmental sustainability must go hand in hand with economic sustainability. We use gasification (the same technology that powers clean coal) to transform trash to energy and eliminate hazardous waste more efficiently and cleaner than traditional methods. We did not invent the idea of processing using Gasification /Reactor System, but we are making it cost effective. By utilizing proprietary Refused Driven Fuel (RDF) replacing Fossil Fuel and system process using Gasification technology, integrating energy generation with emission cleansing and employing repeatable modular design, we are able to produce small sized, low-cost waste elimination systems with flexibility for numerous applications.

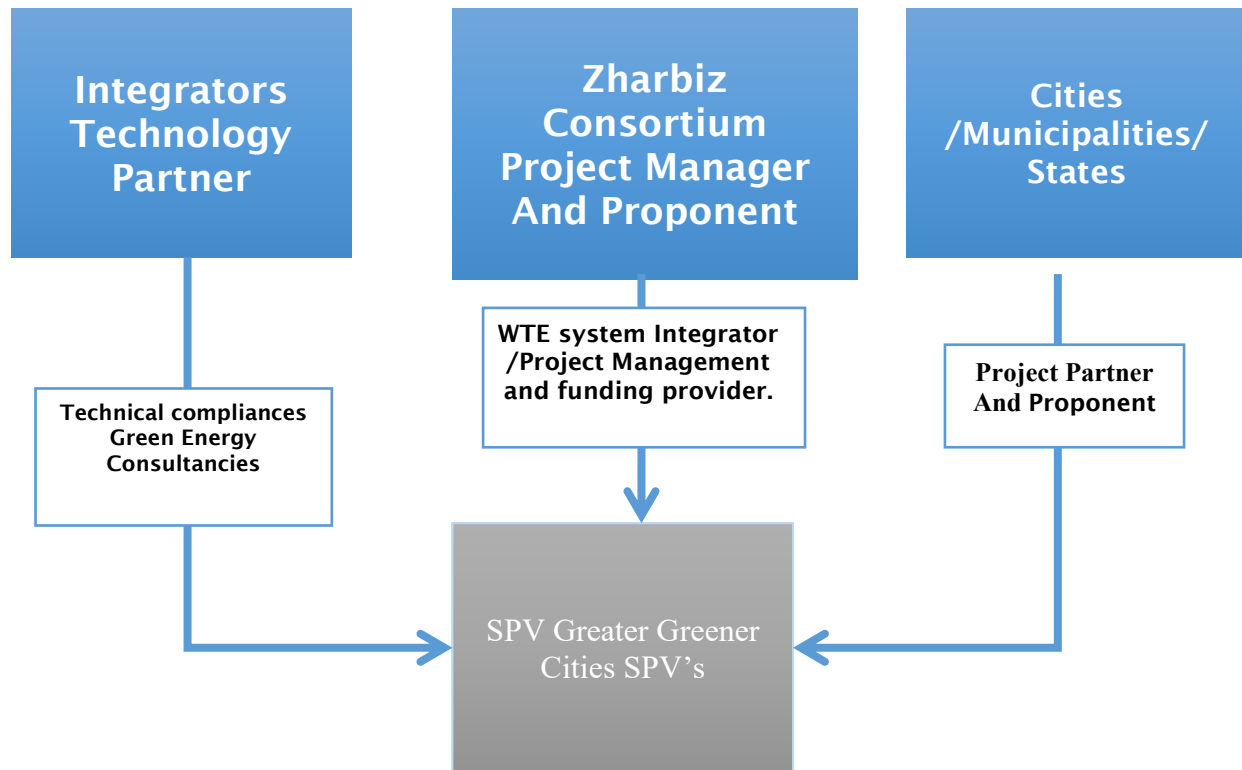
Market Overview

Zharbiz consortium have a capability to integrates, designs, develops and builds modular and flexible energy generating CFB Hybrid system that use some proprietary advance dynamics that technology to transform low-value biomass and waste into renewable energy while detoxifying emissions, hazardous compounds and reducing greenhouse gases.

With these innovations, **Zharbiz consortium** and its Partners able to deliver a modular and portable solution at a fraction of the cost of the existing competitors (40-70%) while maintaining comparable or better energy and residual waste

processing throughputs. This allows **Zharbiz consortium** to address the growing and under-served waste to energy market.

Strategic Partnership Model



Installed Base and Pipeline

Prototypes of the **Integrators** Or **Orion Technology USA** hybrid system is operational and are currently being demonstrated at many cities Municipalities facility in Vietnam the few more commercial systems is about to be installed in Vietnam, In **ASIA** which is currently undergoing testing from several agencies and approved US Patenting Emission compliances to meet western countries.

The Vietnam site is also the first system permitted outside of USA to operate on Municipal Solid Waste. **Zharbiz consortium** has established an impressive pipeline of contacts, partners. Future products in the **Orion** line up include a 250 ton per module, much research and development has also taken place in water sterilization with new products that could be market ready within next 1 year.



Deal Structures

There is not one “best” deal structure that works for every opportunity but instead **A** focus is to identify the best deal structure for each situation. **Zharbiz consortium** will be successful because we provide flexible alternatives for our customers for all major types of deal structures. There are three major types of deals we market to our customers.

- Equipment sale
- Build-Own-Operate (BOO) Agreement
- Build-Own-Transfer

Equipment Sale: As an equipment manufacturer our initial sales approach is typically an equipment sale or Direct Sale. They are the most straightforward and require standard capital equipment purchase financing. However, not all customers feel comfortable with a high capital expenditure or running an energy conversion system, so we open up other options for consideration.

Build-Own-Operate: Some customers and deals require that we take the sophisticated and more complex route of a build-own-operate (BOO) project where we partner with the waste provider and energy purchaser to form an LLC company structure. We provide the equipment; the waste provider signs a Feedstock Agreement (an agreement to sell an amount of waste at a specified rate and duration) and the energy purchaser signs a Power Purchase Agreement or PPA (an agreement to purchase an amount of alternative energy at a specified rate and duration).

Zharbiz consortium partnered acts as capital partners take on the responsibility of securing financing and running the system. A BOO provides a long-term revenue stream with higher upside than a Direct Sale with the downside that revenues will be delayed over a 7 to 10-year horizon.

Build-Own-Transfer: A BOT shares the same characteristics of a Build-Own-Operate, except that after a period of usually 3 to 7 years the waste feedstock provider executes the purchase of the business developed by the BOT.



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Market Geographic Segmentation

In deciding which geographic markets to concentrate our sales force efforts, there are a number of factors to consider:

- Capacity of existing waste infrastructure to meet local needs
- Tipping fee amounts
- Capacity of existing electricity infrastructure to meet local needs
- Electricity prices
- Strength of local economy (are infrastructure investments viable)
- Support for environmental technologies (subsidies, grants, etc.)
- Regulatory environment
- Political Stability
- **Zharbiz consortium** regional expertise
- Response to initial sales attempts

Based on these factors, our top priority markets are the following five areas below. Each of these areas have opportunities and challenges. **Zharbiz consortium** will likely achieve its plan with success in only 2-3 of these markets. By diversifying our market segmentation, we do not run the risk of limiting our growth.

By focusing on these markets, we will not overextend our sales force and continue to have ample opportunity to grow our business. Of course, the marketplace is fluid and we will continue to extend Business Development into other regions.

CORPORATE SOCIAL RESPONSIBILITIES (CSR):

Zharbiz consortium adopts CSR together with this project and will be profoundly contributing to the creating awareness on creating Greater Green City. **Zharbiz consortium** will do more than just provide a renewable energy source. Having Energy from Waste Production will significantly contribute to the country's economy through employment opportunities, payment of royalties and other country's payments such as rates and taxes and this type of boost to a country's economy will improve the basic infrastructures by using the residuals from the by products from the waste. Communication and the setting up of advanced faculty for R& D renewable Energy Centers.

- GOAL # 1: ACHIEVE UNIVERSAL PRIMARY EDUCATION IN CREATING BETTER AWARENESS ON ENVIRONMENTAL DAMAGES.**
- GOAL # 2: DEVELOP A GLOBAL PARTNERSHIP FOR DEVELOPMENT.**
- GOAL # 3: CREATE ROLL MODEL CITY /GREATER GREEN CITY STATUS**

THE PROJECT

Zharbiz consortium will create a foundation with the Name **“GREEN ANTS FOUNDATION TOGETHER WITH CITIES** “whose objective will be to support opportunities for people in chronic poverty, so they can transform their lives. The foundation will not provide handouts which could persuade dependency, laziness, and self-resentment. The foundation’s strategy is to give people the tools and support to transform their lives themselves; thus, encouraging self-respect, confidence in one’s self and pride of accomplishment.

The Green Ants Foundation will work through indigenous partner organizations to create jobs, stimulate small businesses, and strengthen communities among the poor while promoting better health, increased education and local community support through both financial and non-financial services.



We are on our Way



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Zharbiz International Consortium Leadership

Mr Azhar Aslam Khan

Chairman

Mr. Khan has over 25 years of International business experience managing and owning various companies worldwide. Previously he was Chairman of Applabs Digital Studios, Inc. in Eastwood City, Philippine, Global Vacation Company, Inc. based at One World Trade New York, US Properties, Inc. based in Los Angeles, Pacific Industries Inc, International Trading Company with operations in over 20 Countries.

Currently he is also Chairman of Hipbiz Holdings, Inc., Gully's Night Club, Sunbelt Business Brokers, Philippines. Mr. Khan is originally from Azad Kashmir, Pakistan and has lived in England, USA, St. Marten (Caribbean), Malaysia, Indonesia, Thailand etc. Has a bachelor's degree in Hotel and Business Administration from Metropolitan State College in Denver, Colorado, USA. Been advisor to various companies listed on the US Nasdaq Stock exchange in Renewable Energy, Oil & Gas, Mining, Computers among others.

Dr Jay Sinnah Thambyiah PhD.

Group President (Renewable Energy Consultant)

Dr Jay Sinnah, Entrepreneur, Renewable Energy Researcher affiliated Renewable Energy Association of Europe. an academician and advisor to multinational organizations of high repute in more than 6 countries. He is actively involved in mega projects steering International University collaborations and technology transfer related projects. Consumer Activist of NON-Governmental Consumer Association in Malaysia, Vice President of Kuala Lumpur Consumer Association.

Member of Green House Gas and Carbon Control Convention. Founder of Aarogya JCH Inc Philippines and Mega Global Technology -Green Energy Technology (M) Sdn Bhd, Hong Kong and South Africa. MGT GES have relentlessly created Waste to energy programs and awareness in the Philippines since 2010 and have secured approvals for its technology and participated tender process and secured for Integrated Waste to Energy projects in Cebu and in the Luzon region.

MGT-GES is now undergoing organizational restructuring and merging process with AAROGYA JCH group of companies in the Philippines, Brunei and Malaysia. He has more than 25 years of continuous experience in International Business Operations. He led the initiation of new innovative ideas from abroad up to its successful implementation stages. He sits in as a Director, Advisor, and International Business Development Consultant for more than 8 multinational companies in Malaysia, South Africa, Philippines, Japan, India, Indonesia, Bangladesh and Brunei.

His international business connections stand out in supporting his ability to complete outstanding business initiatives, mergers and operational commitments.

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Attorney Alfred Bayan

Vice President, Legal Advisory & Administration

An Attorney graduates as chartered accountant a pundit in organization consultancies management, he belongs to multinational reengineering think tank group and provides meticulous advisories to top of the line corporate world. His Outstanding ability to handle multi-dimensional complex situation have gain his reputation in International level. He also has partnership with MGT-GES since 2011 for Waste to Energy Technology projects advisory in the Philippines, South Africa and South East Asia

He benchmark and select clients to facilitate Law relating to Banking, Corporate and Financial Transactions , he create an impact in the international legal process outsourcing arena, by offering high quality, cost effective services"; in areas of expertise such as Attorney Management Services; Litigation Support & Legal Coding Services; Legal Research Drafting, Transcription & Legal Secretarial Services; Intellectual Property - Patenting, Copyrights & Trademarks while continuously surpassing industry benchmarks through your requirement to meet ultimate goal.

Engr Andy Altea

Chief Operating Officer

Engr. Andy Altea is the Chief Executive Officer for Zharbiz International, Inc and Chief Operating Officer for Aarogya JCH Inc, Group of Zharbiz International based in Eastwood City, Philippines.

He is responsible for overseeing operations, strategic business partnership, strategic planning's where he ultimately delivered multimillion-dollar worth contracts which under development.

He provides world class expertise combined with Engineering, Information Technology and Business for implementing major projects in variety of industries for Government and Private sector and active member of cyber security research and practitioner who champions on future needs. His global experience ranges from advising and managing projects in USA, Europe, Middle East and Philippines for multi-national corporations and government.

Mr. Altea has over 28 years' experience. Previously working for Ford and Fal Holdings in Saudi Arabia.

He has a master's in engineering education, master's in business technology and Bachelor of Science in Computer Engineering and never stop learning and providing innovative ideas.



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Peter Hoffmann

Consultant Green Energy Integrator

Master's Degree in engineering (Electrical & Electronics) specialist in Low Voltage Switch gears, Low Voltage Installations, Lighting Design, Security & Live Safety Installation, IT- Network, Passive Components & Project Management.

Innovative Integrator with MGT Green Energy Solutions Sdn. Bhd. since January 2010. He sources on Green Technologies, Renewable Energy Sources, Energy Saving and Bio Mass Plants. Prior to this, he involves in Electrical design and consultant for various industries such as Industries, High Rise Building, Commercial Projects, Production line Design & layout and so on.

Peter executed many projects mainly in Europe namely, Daimler Chrysler, Skyper Frankfurt,

Cargo Lux, Maybach Service Center, Intel FAB 28, Wacker Siltronic and many others. His specialty is Lighting design, LSS, IT, Low Voltage, CCTV, Access Controls Systems to optimize automated systems. Through these involvements he has gained unlimited experience that has lead him to be the Integrator in MGT Green Energy Solutions Sdn. Bhd have converts building to Green building ratings especially 4star and 5 star rated hotels in S.E. A. Have designed and build waste to Energy integration projects for Palm oil processing factories in Jawa, Sumatera and ongoing projects with Penang state government and Kedah State Government.

Susanne Hoffmann

Design Consultant

Mechanical Systems HVAC Engineer, CAD Operations & HVAC Management. Execution Planning of HVAC, Shop Drawings Ducting/Exhaust Systems, Shop Drawings of Chilled Water, Space-Management HVAC + E + Mechanical.

A HVAC design consultant with MGT Green Energy Solutions Sdn. Bhd. since January 2010. She focuses on Green Technologies, Renewable Sources, Energy Saving and Bio Mass Plants. Prior to this, she involves in HVAC design for various industries such as, Industrial, High Rise Building,

Commercial Projects, Production line Design & layout, and so on.

Susanne executed many projects mainly in Europe naming, Daimler Chrysler, Scholze, Kacst, Skyper Frankfurt, Cargo Lux, Maybach Service Center and many more. Her specialty is space management in design stage to minimize errors during actual construction. Involve with various systems such as AHU, Chillers, PCW, Ducting, Cooling Towers, Compressor, Gas / Chemical Systems, Heat Systems, as a mediator to combine as 1 system. During this involvement she gain unlimited experiences leads her as lead designer in MGT Green Energy Solutions Sdn. Bhd.



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Burkhard Hellermann-Heinz *(founder of EoVadis Swiss)*
Advisor and Technology Partner

He has gained widespread experience in the sectors of renewable energy systems, management and top manager consulting and performance coaching of executive teams. He brings 15 years of activity in the renewable sector. In his last CEO position, he directed a German solar company, active in the field of project development and implementation of free field solar parks (EPC-Provider) and construction of Concentrated Photovoltaic Systems. He has an MBA from Mannheim University and a degree in Civilization Ecology from Stuttgart University