

An Afghan Development Initiative



Company Objectives

BUSINESS LINES

- Real Estate Development
 - Land development
 - Sharia Compliant Mortgage
- Renewable Energy
 - Solar Power
 - Wind Power
 - Hydro Power
- Environmental Technologies
 - Solid Waste Management
 - Wastewater Treatment
- Construction
- Construction material Manufacturing

STRATEGY

- Be profitable
- Manufacturing in Afghanistan, where possible
- Use local manpower, where available
- Use local material, where available
- Bring new technologies from Europe and America to provide innovative solutions to existing challenges.
- Be environmentally sensitive, all the time.

Housing Development & Sharia Compliant Mortgage

Typologies

Single family houses and buildings for several generations
combination as town-houses

- Single family house for approx. 4-5 persons, 1 interior courtyard (A)
- Single family house for approx. 5 persons, 2 enclosed courtyards (B)
- Single family house or building for several generations under one roof for approx. 7 persons, 1 large interior courtyard (C)
- single family house or building for several generations under one roof for approx. 8-10 persons (D)
- Single family house for approx. 6 persons, 2 enclosed courtyards (E)
- single family house, building for several generations under one roof for approx. 8-10 persons (F)

Residential facilities

- Residential facility with courtyard building, four 5-bedroomed single-family houses for approx. 5-6 persons per house (A)
- Residential facility containing 10 living units of various sizes, organized as one or two storey (B)

Urban apartment buildings

- 3-storey urban apartment house consisting of 6 apartments (A)
- 4-storey urban apartment building with stores and commercial spaces on the ground floor, 5 apartments (B)

IHFD Feasibility Study For a Housing Complex in Kabul, Afghanistan

11/49

Develop infrastructure, build single family, town-houses and apartment homes and provide them with long term Sharia compliant mortgage to middle income and high income population in Libya, ensuring sustainable and environmentally friendly as well as socially responsible existence.

The starting point for our evolution is a self-contained district with approx. 200 residential units. A district is divided into five basic urban units, which represent the "neighbourhood level". These basic units consist of approx. 30 to 60 residential units and, by means of flexible combinations and formal design create identity and a spatial character within a system. By adding the basic units together, different quarters can be created according to each specific design.

Renewable Energy Enterprises (REE)

Solar Power

Decentralize solar power for rural communities as well as remote locations throughout Libya. Enhancing the quality of life by providing power for lighting, entertainment and social interaction.



Poles, racks and connex
Made in Afghanistan



Made in Afghanistan



Renewable Energy Enterprises (REE)

Mobile/Stationary Solar Irrigation Pump

Mobile Solar irrigation pump is developed and manufactured in Afghanistan. It is capable of pumping 2 inches of water from 70 meters depth. This pump can be moved to any site and then dipped into aq river or a well for sustainable pumping of water.



Renewable Energy Enterprises (REE)

Wind Power

Wind power for irrigation as well as power generation is the key to meeting some of the basic needs of the population. Wind pumps are wholly manufactured in Afghanistan, while wind power generators are partially manufactured in the country.



Renewable Energy Enterprises (REE)

Hydro Power

Our experience in design, manufacture and installation of hydro power systems from micro to small sizes makes us uniquely qualified in Afghanistan. We can manufacturer hydro power systems up to a capacity of 300 kW completely in Afghanistan.



Renewable Energy Enterprises (REE)

Renewable Energy Workforce Development Center

An Afghan American Corporate and Academia Partnership



Training Afghan technicians, Engineers, masters and PhDs in design, installation, operation, maintenance and Research in Renewable Energy

Environmental Technologies Solid Waste Management

Environmentally and socially responsible collection, sorting and incineration of municipal, medical and hazardous solid waste. In the process of incineration, we can produce hot water as well as electricity.

Emissions are compliant with US and European emission guidelines and laws and will cause no harm to the environment.





Environmental Technologies Sludgeless Wastewater Treatment Plants

Low cost., low maintenance, low foot print, sludgeless wastewater treatment system built as customized concrete plants, as modular systems or as containerized systems for municipal, commercial and oil field applications.

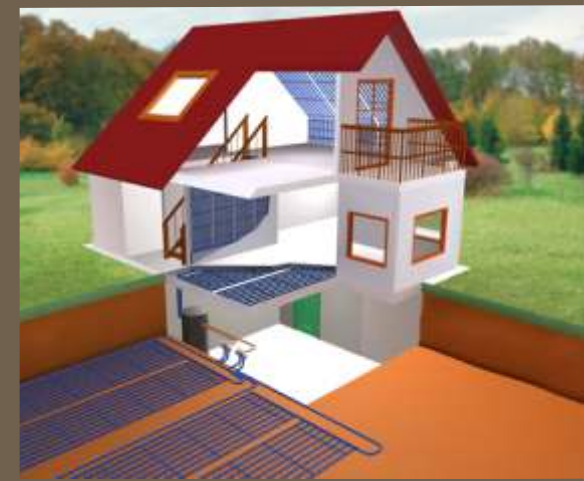
Your way of environmentally sound and socially responsible wastewater treatment in Libya.



Environmental Technologies

Clina Capillary Tube Heating & Cooling System

Clina heating and cooling system is a German Technology powered with Geothermal, solar or Conventional Grid Power. A unique technology suitable for environmentally sound and sustainable development.



Construction

Design-Build of all types of horizontal and vertical infrastructure, including roads, bridges, houses, barracks, commercial buildings and public buildings including hospitals, schools, and government offices. We utilize state of the art design methods as well as innovative construction material. Our LEEDS approved designers ensure environmentally friendly and energy efficient construction designs and systems.



Construction Material GeoBricks & GreenMachine

Licensed to manufacture the bricks and the GreenMachine® in Afghanistan and seven other countries of the region, the GreenMachine® can revolutionize construction in remote rural areas, with bad roads and less access to construction material.



Completed Projects

1. Design-Built of Pre-engineered Building, FOB Fenty, Jalalabad, US Army
2. Design-Built Manufacturing & Warehousing facility in Kabul, Zahir Plastic
3. Construction of 209th Commando camp
4. Battalion Compound & Forward Supply Depot, Mazar, CH2M HILL
5. Extension of a dining facility (DFAC) at ANA Hospital in Kabul. USACE/AED.
6. Design and Build of incinerator based solid waste management system with a capacity of 72 tons per day in FOB Sharana, Paktika province. USACE/AED.
7. Design-built of wastewater treatment system at ANA Hospital in Kabul. USACE/AED
8. Design-Build of numerous micro-hydro power systems throughout the country. WB, GIZ, ADB, MRRD, etc.
9. Design-manufacture of mobile solar irrigation pump for support to agriculture sector. Private.
10. Design-Build solar/wind power system for military application, Kabul, AED
11. Design-Build 41x5kW solar power systems in 15 provinces, Etisalat AFG.
12. Design and build of solar power systems for retrofitting mobile phone towers throughout the country. Etisalat/MTN.
13. Distribution of thousands of solar lanterns in Afghanistan.
14. Design of a 10,000 unit housing development north of Kabul in Deh-Sabz district as part of the grand New Kabul project. USTDA/FMO.

Partnerships

Partnership with others firms

- SKB, Lahore, Pakistan
- Lantz-Boggio Architects, Englewood, Co
- MKK Engineering Consultants, Greenwood Village, Co
- Martin/Martin Engineering Consultants, Lakewood, Co
- KPFF Engineering Consultants, Portland, Or
- ECC International, Lakewood, CO (Ongoing)
- Lakeshore International, Washington, DC (Active)
- Anham, Vienna, VA (Ongoing)
- METAG, Turkey (Ongoing)

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