

# ACCELERATUM LLC

Low Energy Building Project in Marietta, Georgia

## The GreenTech Corridor Requirements

### Background

Buildings typically consume 30–40 percent of all primary energy used. Over 80 percent of the environmentally harmful emissions from buildings are due to energy consumption during the times when the buildings are in use.

Our concept of 'simplification' means decreasing the number of components and materials, simplifying the design of necessary components and using the same component or system for different functions and optimizing the whole building, not the sub-units. Not only does simplification lead to investment savings but it also provides a more reliable system.

The project will result in environmentally friendly and cost-effective building that can reduce energy consumption, and also lead to improved indoor climate and air quality. Not only does simplification lead to investment savings but it also provides a more reliable system.

Other principles include controlled ventilation and efficient heat recovery, improved thermal insulation and using structures as heat storage units.

Based on our diverse competence in economically efficient and environmentally friendly construction, together we enable the construction of the first model entitled, GreenTech Corridor, in Marietta, GA. We aim to combine several technologies for entire new and advanced solutions in terms of sustainable development. In addition, we are seeking investors and partners to establish a geothermal equipment and heating and cooling assembly plant in Georgia.

The concept and some features of the GreenTech Corridor will include:

- ① Distributed energy production based on renewable sources solar, wind and biomass;
- ① Low-energy buildings, consumption less than 50% of that of conventional buildings;
- ① Waste recycling, minimizing waste amount and effective collection system;
- ① Water recycling, as closed as possible;
- ① Electric vehicle charging and battery swapping, and biofuel station.

This project will also develop a value network of partners that will enable the opening up new markets for large scale construction projects in the emerging markets. To respond to this challenge, Acceleratum has appointed a working group to investigate possibilities across the emerging markets such as China, to enhance the export of our 'Low Energy Building' know-how into other markets.

As a result, the 'Low Energy Building' construction project, a venture with financiers as well as regional corporate development organizations will be launched.

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The goal of the two year venture is to build an operational model with the help of the companies, financiers, and public operators involved.

We have conducted a preliminary market investigation about the nature and quantity of demand for 'Low Energy Buildings'. Based on this investigation an operational model fitting for 'Low Energy Building' construction projects for emerging markets such as China has been drafted with the help of our experts. This operational model will be tested in negotiations with local governmental officials, research organizations and representatives of companies during 2011.

Links for more information:

**The GreenTech Corridor Concept:**

[http://www.chamberofecocommerce.com/images/The\\_GreenTech\\_Corridor\\_Concept\\_April\\_2011.pdf](http://www.chamberofecocommerce.com/images/The_GreenTech_Corridor_Concept_April_2011.pdf)

**Geothermal Product Assembly Line Factory:**

[http://www.chamberofecocommerce.com/images/Geothermal\\_Product\\_Assembly\\_Line\\_Factory\\_April\\_2011.pdf](http://www.chamberofecocommerce.com/images/Geothermal_Product_Assembly_Line_Factory_April_2011.pdf)

**Acceleratum LLC:**

[http://www.chamberofecocommerce.com/images/Acceleratum\\_LLC\\_Profile\\_March\\_2011.pdf](http://www.chamberofecocommerce.com/images/Acceleratum_LLC_Profile_March_2011.pdf)