



Chamber of Eco Commerce (CEC)

Low-Energy Building Project 2011

Background

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

Our new 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 reduced energy consumption and improved indoor air quality, controlled ventilation and efficient heat recovery, improved thermal insulation, and using structures as heat storage units.

We are also seeking investors to fund a geothermal equipment and heating and cooling assembly plant in the USA.

The concept and some features of the project will include:

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

CEC has created a value network of partners that will enable opening up new markets for large scale construction projects. CEC has appointed a working group to investigate possibilities across continents, to enable the export of ‘Low Energy Building’ know-how into other markets. The goal of the venture is to build an operational model with the help of the companies, financiers, and public operators involved.

CEC has conducted a preliminary market investigation about the demand for ‘Low Energy Buildings’. Based on this investigation an operational model fitting for ‘Low Energy Building’ construction projects has been drafted with the help of Acceleratum LLC experts. This operational model will be tested in negotiations with local governmental officials, investors, research organizations, and representatives of companies during 2011.

Links

The Concept

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

Acceleratum LLC

http://www.chamberofecocommerce.com/images/Acceleratum_LLC_Profile_March_2011.pdf