

PROJECT #3

COMPREHENSIVE RENEWABLE ENERGY MANAGEMENT SYSTEM FOR BUILDINGS

***(FOR ALMOST ZERO FOSSIL-FUEL ENERGY HOMES, RESTAURANTS, HOTELS,
EDUCATIONAL/COMMERCIAL/INDUSTRIAL BUILDINGS, ETC.)***

ABSTRACT

This proposal/project relates to the field of renewable energy and energy efficiency. It is an attempt to develop an extreme energy efficient system for all kinds of buildings. Grossly speaking, the system will have provisions to substitute conventional sources of energy with unconventional and renewable sources of energy as much as possible which can grow with time as new developments take place. The approach would be to save each and every single calorie or BTU of energy that can possibly be saved or recovered, and to evolve a comprehensive energy efficiency system that will avoid use of fossil fuel based energy in all possible ways. The chief objective of the comprehensive system is to make the renewable energy option cost effective. The main components of this eco-friendly and comprehensive renewable energy system would be:

1. **MAXIMUM SOLAR ENERGY CAPTURE ALONG WITH GEOTHERMAL AND WIND ENERGY**
2. **AN ENERGY RESERVOIR CUM WATER HEATER**
3. **CO-GENERATION USING BINARY TECHNOLOGY ALONG WITH REFRIGERATION AND AIR CONDITIONING**
4. **SOLAR-ELECTRIC HYBRID COOKING RANGE/OVEN, THAT CAN BE FULLY COMPUTERIZED WITH THE OPTION OF SEMI OR FULLY AUTOMATIC COOKING**
5. **ENVIRO-FRIENDLY, FLEX-FUEL FURNACE/FIREPLACE WITH COMPLETE CLIMATE CONTROL**

ADVANTAGES OF COMPREHENSIVE RENEWABLE ENERGY MANAGEMENT SYSTEM

The gain will be two-fold. Firstly, it will minimize the negative impact of fossil fuels on the environment and secondly, it will help overcome the energy crisis situation and that intern will relieve the burden of ever increasing cost of energy on average household. Above all and everything it will significantly improve the quality of life to a level that we can expect in the next century. A complete installed system can capture and provide more energy than needed in a building. The surplus energy can be used to charge the electric or hybrid automobile's batteries. Additionally because of the reduced demand more and more natural gas can be made available for use as compressed natural gas (CNG) in automobiles, which is a cleaner fuel than gasoline or diesel. This means less money would be going to terrorists and also that the wicked dictators like Hugo Chaves and Ahmedinejad would not be able to take undue advantage of our dependence on imported oil. Hopefully it should significantly reduce the fossil fuel demand in a few years, and we would be importing less pollution in the form of oil.