GEEG

GREEN ENERGY ELECTRICITY GENERATOR-GEEG

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We named this system Green Energy Electric Generator (GEEG)

What We Offer for Decision Makers

- ✓ No any fuel sources like diesel are used to produce energy
- ✓ Reduce tremendous cuts in energy bills
- ✓ High Profit in production by means of cutting energy expenses
- ✓ No connection to Grid is necessary to use the generator even mobile energy supply is possible to deliver electricity wherever it is needed
- ✓ Unbelievable Short time for Return of Investment
- ✓ Not to be affected from energy supply limitations or failures
- ✓ Disaster Recovery -> In case of disasters you are safe because it works independent

Comparing with traditional fuel generators

- ✓ Traditional 50 kWH fuel generator use 360 liter diesel in a day
- ✓ It means 2520 lt diesel in a week
- ✓ In Europe the fuel source cost will be 3,780.00 € in a week
- ✓ And 196,500 € in a year
- ✓ Roughly calculated GEEG Generator Return Of Investment Time : 8 months!!

Working Environment

- It works between +55 °C and -20°C temperature range (the operating range can be adapted to your local climate conditions
- Has own internal cooling system
- Built in robust 20 or 40 Feet Container with insulation
- Very low noise lower than 70 db
- Remote Support Assistance through internet

For Who?

- Smart City Projects
- Hospitals
- Hotels
- Data Centers
- Crypto Data Centers
- Logistic Centers
- Airports
- Factories
- Shopping Malls
- Greenhouses
- Producers of Electricity
- Micro Grid Projects…….

History of Flywheel Technology

- Flywheel technology was developed several hundred years ago in the form of pure mechanical flywheels.

- It took many years and until the early 20th century to develop the comprehensive development of flywheel rotor shapes and rotational voltage.

- Later, in the 1970s, the flywheel device was used for energy storage, electric vehicles, and stationary power backup.

- At the same time, fiber composite rotors were manufactured, and magnetic bearings began to appear in the 1980s.

- Therefore, the potential of using flywheels as electrical energy storage has long been the subject of extensive research in the scientific community.

Brief Intro of Our Innovative Technology

- ✓ Flywheel stores energy in a rotating mass.
- ✓ Depending on the inertia and speed of the rotating mass, a certain amount of kinetic energy is stored as rotational energy.
- ✓ Drive Motor, electrical energy given to the stator winding is converted into torque and applied to the flywheel/rotor, causing the flywheel/rotor to spin faster and gain kinetic energy.
- ✓ The kinetic energy stored in the flywheel/rotor applies high torque, which is converted into electrical energy in the alternator.
- ✓ In addition to the flywheel, additional power electronics are required to control power input and output, speed, frequency, etc.

Open View Of GEEG System

Introduction Of GEEG System

- **Main components of the 1 MW Generator;**

The GEEG generator is a 1 MWh system without any fuel input.

- ✓ **a. Driver motor:** 90 kWh power, 2950 rpm asynchronous electric motor,
- ✓ **b. Flywheel-1:** A Ø 900 mm H 200 mm and 996 kg flywheel designed to increase the torque power of the engine,
- ✓ **c. Reducer:** A 2:1 gear box to increase the torque given by the driver motor and Flywheel-1 and to decrease the rotation speed of the engine shaft,
- ✓ **d. Flywheel-2:** A Ø 1450 mm H 200 mm and 2576 kg flywheel designed to provide the torque demanded by the 1250 kVA alternator used in the system with the increased torque power by the driver motor, flywheel 1 and reducer.
- ✓ **e. Alternator:** a 1250 kVa alternator that converts the kinetic energy generated by the drive motor flywheels and reducer into electrical energy,
- ✓ **f. Battery group:** 1400 Amp battery group that provides the electrical energy required for the drive motor,
- ✓ **g. Inverters:** Inverters that convert the DC energy received from the battery group into 400V AC,
- ✓ **h. Rectifier:** A Rectifier required to keep the battery group at a constant 48-volt level,
- ✓ **i. Electrical panel:** a panel required for system control.
- ✓ The GEEG generator system consists of the equipment outlined above.

Conclusion and Evaluation

- Both theoretical and practical test studies conducted on the GEEG generator system have shown that the energy need, which is indispensable for humanity, can be provided with different production methods.
- The developed GEEG generator system does not violate the laws of thermodynamics.
- We find it useful to repeat; There is no claim to CREATE ANY AMOUNT OF ENERGY in this system. The GEEG generator system operates in accordance with the 1st Law of Thermodynamics.
- The input of the GEEG generator system is basically the GRAVITY FORCE.

Technical Specifications of Available Models

Model	KW	KvA	Voltage	Amper	Dimension (WxLxH) cm	Weight kg	Cont
GEEG50	50	55	220-240/ 380-400	750	150 x 360 x 140	2800	20 ft
GEEG100	100	110	220-240/ 380-400	145	150 x 360 x 140	2800	20 ft
GEEG250	250	275	220-240/ 380-400	350	180 x 420 x 150	7500	20 ft
GEEG500	500	550	220-240/ 380-400	745	180 x 500 x 180	9000	20 ft
GEEG750	750	825	220-240/ 380-400	1010	180 x 500 x 180	10000	20 ft
GEEG1000	1000	1100	220-240/ 380-400	1480	220 x 600 x 220	11250	20 ft
GEEG1500	1500	1650	220-240/ 380-400	2160	220 x 600 x 220	12100	20 ft
GEEG2000	2000	2200	220-240/ 380-400	2960	250 x 700 x 250	14000	20 ft
GEEG2500	2500	2750	220-240/ 380-400	3450	250 x 700 x 250	14800	40 ft
GEEG3000	3000	3300	220-240/ 380-400	3950	250 x 700 x 250	16100	40 ft
GEEG4000	4000	4400	220-240/ 380-400	4480	300 x 700 x 250	19000	40 ft
GEEG5000	5000	5500	220-240/ 380-400	7200	350 x 950 x 350	21000	40 ft

NOTE: Blue weights are suitable for 20 feet container transportation / other weights are suitable for 40 feet container transportation.