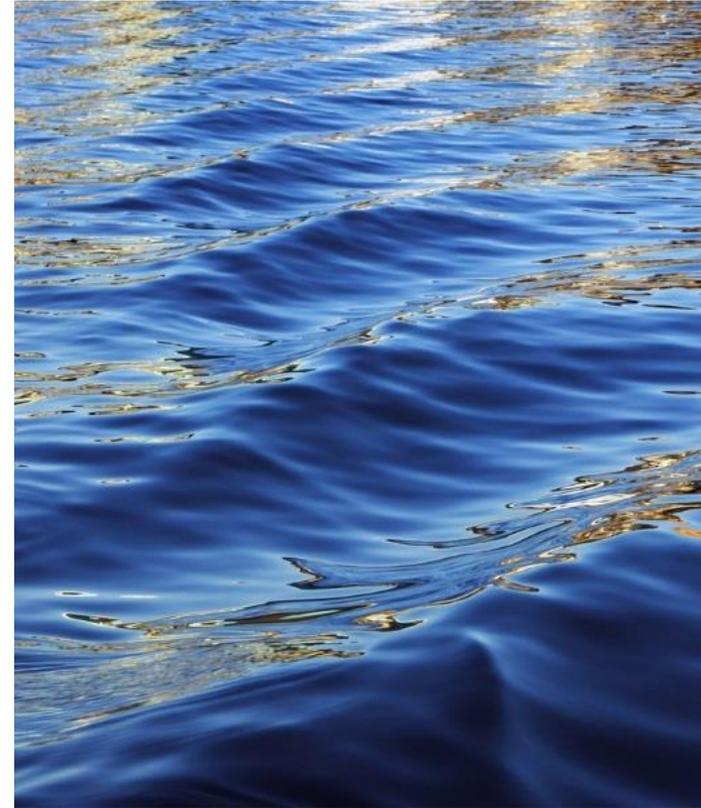


Resolving greenhouse gas emissions (GHGs)

*by MBG Bordeianu
Research - Development - Implementation*

®



The current situation

- The amount of CO₂ has doubled in 150 years;
- The level of the seas and oceans is increasing;
- Countries below sea level are in danger of flooding;

Everyone has the power to decide...



We have something special in common
that ties us all together and this is the Earth.

Let's protect it, together



MBG Bordeianu

Research-Center

MBG Bordeianu is a Romanian company with a scientific research profile in the technical field. Is based on the inventions of the founder Bordeianu Gheorghe (25 years of invention).

The projects focus on scientific research and are based on personal patents:

•**THEMATIC FIELD: Intelligent specialization:**

- Sustainable development and mobility;
- Eco-engines and subassemblies;
- Eco-nanotechnologies and advanced materials;
- New generations of vehicles with efficient energy technologies, environmentally friendly.



Inv. Gheorghe Bordeianu
Founder MBG Bordeianu

To know wisdom and teaching; to understand the words of reason;
to receive the discipline of wisdom, justice, fairness and equality.

Description of the scientific research activity

This we do, scientific research - development - implementation on the 7 directions of industry:

the industries with which our activity is identified are the following:

- Automotive industry of land, naval, space transport;
- Precision and ecological agriculture industry
- Heavy transport industry
- The aerospace industry;
- Energy industry;
- Mechatronics robots;
- Machine tools and subassemblies.



Mission and objective

Sustainable development and mobility for a friendly environmental conservation



What we propose as solutions at this time for resolving greenhouse gas emissions (GHGs)

I. MBG EcoPower 10H

Hybrid-kit of fuel and pollution reduction. Thus, globally a considerable amount of pollutants is eliminated and at the same time reduces the consumption of conventional fuels by up to 70%.

II. MBG 10K-V Submersible Variable-Engine and MBG-VH for ships

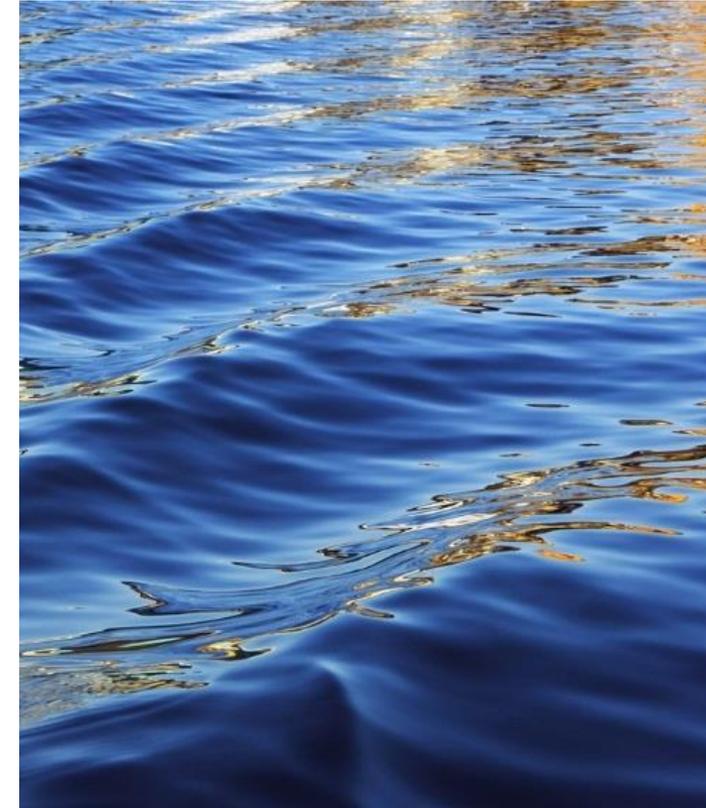
Continuous development and testing of the MBG 10k-v hydrogen powered prototype, to bring minerals from the oceans to the surface for *phytoplankton* formation and MBG-VH engine for maritime transport.

III. MBG Electricity generators/ Cold Nuclear Fusion Generator

Device that will generate unlimited electricity.

IV. MBG Drone-D1000

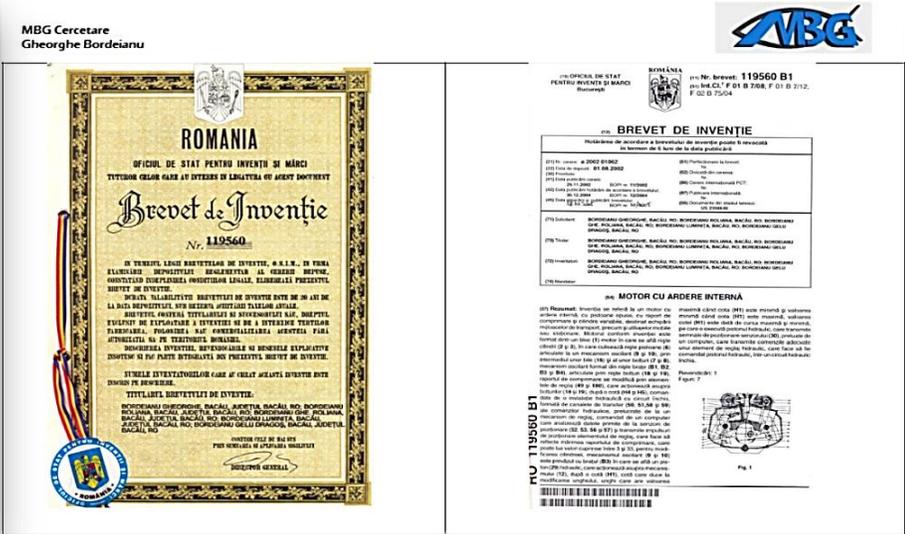
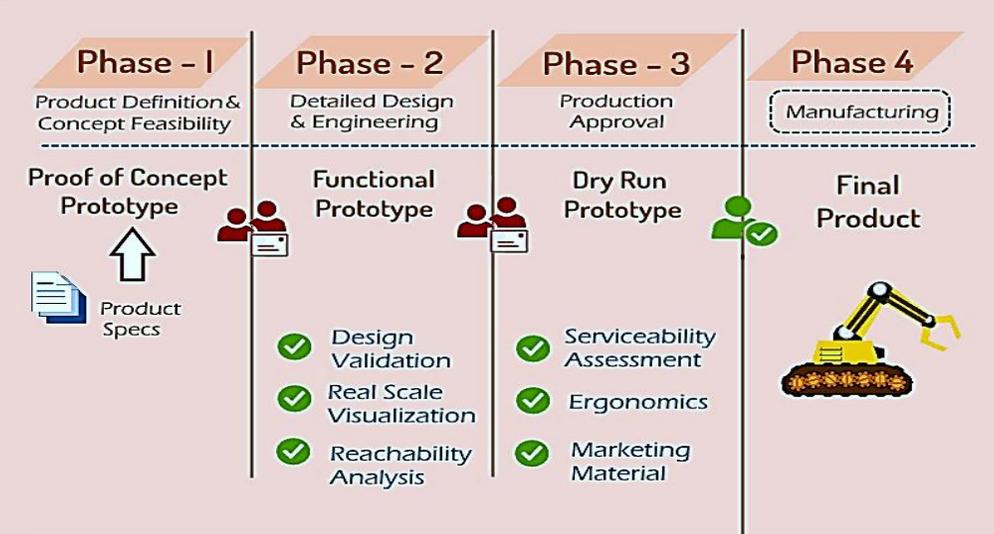
For extinguishing fires and for a precise eco-agricultural management.



The degree of development for each type of product is as follows:

All inventions, motors and subassemblies are subject of patents for domestic or international inventions.

- Each prototype follows 4 phases, to lead to final product:

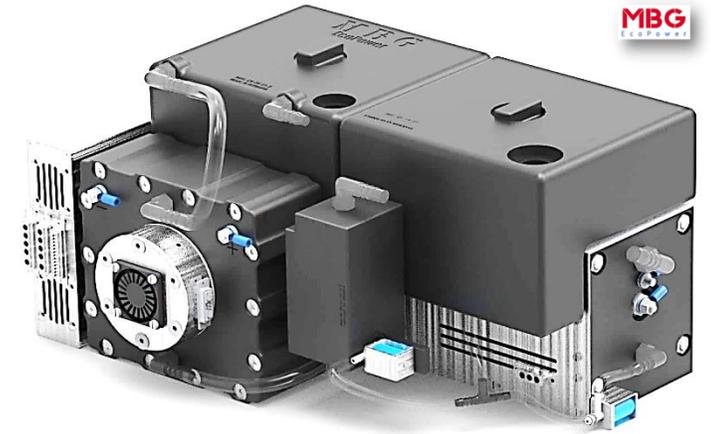


I. MBG EcoPower 10H

Hybrid-kit to produce fuel that is made of amino acids and hydrogen, 100% environmentally friendly

- which attaches to classic internal combustion engine that serve land, sea, air transport, and which replaces 70% of classic fuels diesel, gasoline, lpg...
- ecopower-kits can be used and replace % classic fuels: natural gas, LPG, coal, etc. for gas welding machines, conventional or MHD central heating, which produce heat, hot water, steam under pressure.
- these devices to produce energy, work only with the fuel generated by ecopower

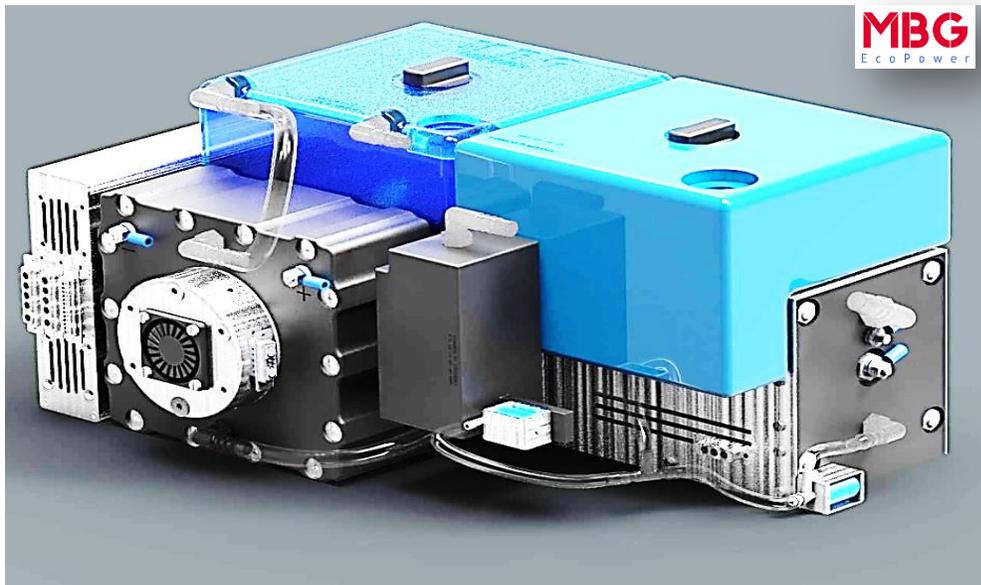
Results are zero pollution, low operating costs and eco-friendly.



Kit EcoPower 10H

VS

Classic engine



Classic internal combustion engine



VS

MBG EcoPower 10H Kit



Noisy



Pollution



Need gas



High maintenance cost



Carbon monoxide emission



Not used indoor



Quiet



Eco-friendly



Reusable



Low maintenance



Portable & lightweight



Safe for indoor/
outdoor use

MBG EcoPower 10H kit prototype mounted and tested on Lexus 3300c.c, gasoline engine

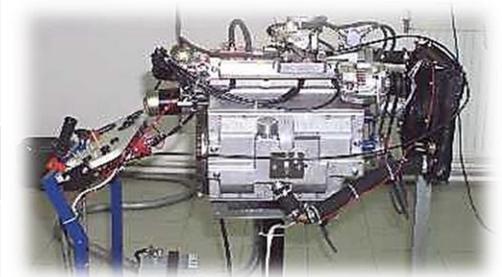
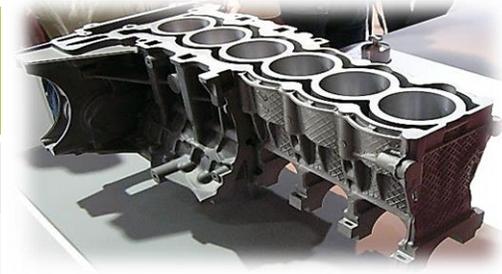
Results after 30 hours of operation

- Fuel consumption decreased from 10.3 liters to 4.7 liters with ecopower-kit running on the same calculated stretch of road.
- Emissions of pollutants have gone close to zero.



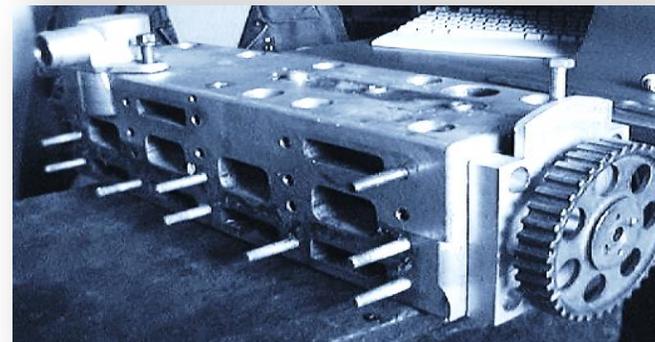
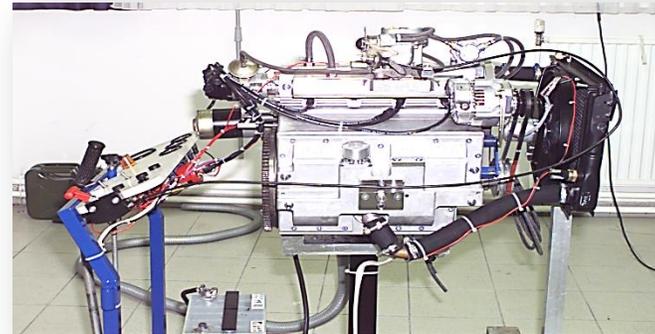
MBG 10K-V intelligent variable engines and MBG-VH engine for maritime transport

	Equivalent existing engine	MBG 10K_V submersible	MBG – VH ships
Power [kW]	10.000,00	10.000,00	12.000,00
Length [m]	8	3.5	4.5
Width [m]	4	4	4
Height [m]	8	2.95	2.95
Fuel consumption per day	45 t – oil fuel	- hydrogen	-hydrogen
Oil consumption per day	280 l	- negligible	- negligible
Mass [tones]	320	30	35
Pollution	> then 100 000 cars	0	0



MBG 10K-V intelligent variable engine and MBG-VH engine prototype for maritime transport on test bench.

- cylinders with variable capacity: 1100 - 3300 c.c. or other cylindrical capacities;
- variable compression ratio: 5: 1 - 33: 1 or 5: 1- 100: 1;
- MBG Bordeianu engines run on a variety of fuels: simple but also mixed (oil, diesel, water, etc);
- in a single engine there are 2,400, 000, 000.00 combinations between: cylinder capacity and compression ratio, so the engine becoming an intelligent engine;
- the distribution is made in the new cylinder head model, called by inventor phaser valve. The phaser valve (cylinder head) eliminates the causes of engine failure due to breakage or damage to the chain / belt.
- 12,000 kw with fixed speed up to 125 rpm, the engine for maritime transport has the possibility of operating the speed up to 1500 rpm;

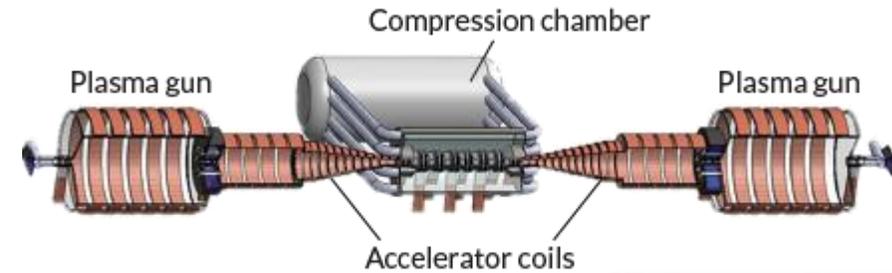


III. MBG Electricity generators and Cold Nuclear Fusion generator prototype

Bordeianu type electricity generators is our renewable energy solution. A lightweight, scalable solution that operates in complete silence and environmentally friendly, making it the perfect electricity generator. Can be built in a wide range of powers and voltages 10kw, 100 kw, 500 kw, 1,000 kw, 10 Mw .

MBG Bordeianu type devices that perform mechanical work are generators / engines that use as fuel: either water, or cold nuclear fusion, or cosmic waves. That greater efficiency means lower prices, less emissions, and more reliable power.

- This non-fossil fueled invention is possible because of the completely new switch reluctance electric motor design and new technology which uses several techniques to increase mechanical advantage without requiring more power to do so.
- Production of electricity by cold nuclear fusion Bordeianu type, through the labyrinth effect of 2 hydrogen atoms that pass into an atom of He emitting an energy, large-scale technical solution
- Transforming one kg of hydrogen into helium, by fusion is obtained an energy equal to that produced by burning 20,000 tons of coal



IV. MBG Drone - D

Prototype firefighting and precise ecological-agricultural management

FireFighting Drone –D Intelligent Loading capacity D5,000, D10,000 liters

-  Autopilot technology providing advanced system control, Gps, Freedom 360 degrees.
-  Flight autonomy 10 - 25 hours, Safety procedure activation, Self-checking system status, Self-safe return
-  Secure Communications, HD Video & Data Transmission, Artificial intelligence
-  Impact Control , Travel speed is up to 150km/h, EO / thermal camera installation for detecting forest fires
-  Also has a built-in sonic fire extinguisher that emits low-frequency, destroying the air surrounding the fire, applying pressure to the air molecules and taking oxygen away from it

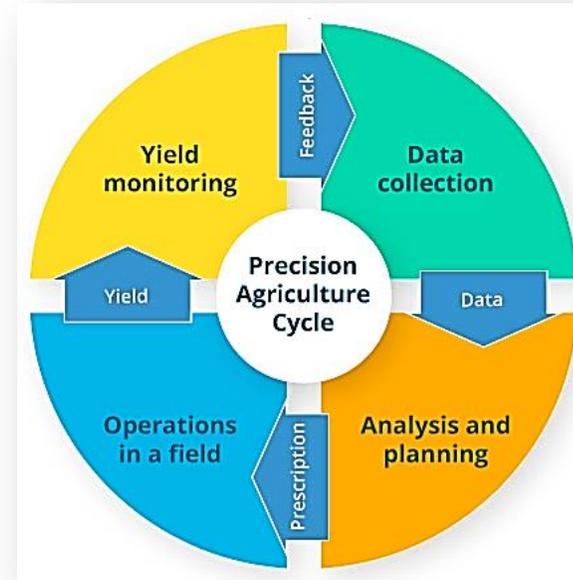


MBG AgroDrone

For precise ecological agricultural management

MBG AGRO Intelligent management Capacities D25, D50, D100, D500 and D 1000 liters

-  Autopilot technology providing advanced system control, Self-safe return, Freedom 360 degrees, Self-checking system status, Gps
-  Data Collection - crop boundary map, remote sensing, weather data, soil samples, crop condition, yield monitoring, irrigation testing by water stress analysis, pest control,
-  Optimizing the supply of soil with nutrients, Capacities D25, D50, D100, D500 liters, or depending on the requirements of the beneficiaries
-  Impact Control , Travel speed is up to 150km/h
-  Irrigation management and soil moisture monitoring.



What we need?

Funding is required for improving the research and innovation infrastructure of MBG Bordeianu Research Center to test, development of the prototypes and then put into high production the equipments for transport with ecological catalytic reactor and electricity energy efficient device that will generate unlimited electricity, for a Friendly Environmental Conservation.

