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H2VERDE

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H2VERDE: BREATHE CLEAN ENERGY.

BRAZIL



H2VERDE

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Today, H2Verde Brasil brings an energy alternative that redefines efficiency and autonomy. We present our system for generating electricity from hydrogen derived from water – a technology that promises to reduce your energy costs by more than 50% by eliminating the use of diesel or gas. In addition to substantial savings, the H2Verde System offers total independence from the traditional electricity grid, ensuring continuous supply wherever there is access to water, including in remote locations.



H2Verde: Clean and Sustainable Energy in Harmony with the Environment

The H2Verde System represents a significant advance in sustainable energy generation, interacting positively with the environment. Its innovative technology uses electrolysis to extract hydrogen directly from water, transforming it into clean and renewable electrical energy.

The main environmental benefit is the complete elimination of the use of fossil fuels, such as diesel or gas, and lubricating oils, common in traditional generators. This results in:

Zero Carbon Emissions: The system does not emit carbon dioxide (CO₂) during operation, releasing only oxygen into the atmosphere. This directly contributes to reducing greenhouse gas emissions and combating climate change, significantly reducing the user's carbon footprint.

Resource Preservation: By replacing the consumption of fossil fuels with the use of water, a renewable resource (especially if collected rainwater is used), the system promotes a more efficient and conscious use of natural resources. Although it consumes water (approximately 250 L/hour for the 125KVA model at maximum power), it eliminates the need for extraction, transportation and burning of fossil fuels, whose environmental impact is vastly greater.

Pollution Reduction: The absence of fossil fuel combustion also means the elimination of other atmospheric pollutants that are harmful to health and the environment.

In this way, the H2Verde System is not only an efficient and economical energy source, but a truly sustainable solution, aligned with the growing demands for clean technologies and respect for the environment.



CLEAN ENERGY

- ✓ Generate clean energy using only water, eliminating fossil fuels.
- ✓ Reduce your carbon footprint with zero CO₂ emissions, releasing only oxygen.
- ✓ Choose a self-sustainable solution that preserves resources and protects the environment.



OUR GENERATORS



H2Verde System: Hydrogen Power Generators The H2Verde system uses 100% national and innovative technology to generate electricity in a sustainable way, using hydrogen derived from water through electrolysis. It is an ecological solution, with zero greenhouse gas emissions, which contributes to improving air quality.

Models and Capacities: H2Verde offers generating plants with capacities of 55 KVA, 125 KVA and 550 KVA to meet different energy demands.



OUR GENERATORS



Technology: Generation occurs through water electrolysis, which separates hydrogen to power the generators. It uses drinking water, with a consumption of approximately 5 liters/hour for the 55 KVA model and 10 liters/hour for the 125 KVA model.

Applications: H2Verde generators are designed as a definitive solution for electrical power supply, suitable for various sectors, including urban, industrial and public. They are particularly advantageous for companies that require high energy reliability (where downtime generates significant losses) or that have aggressive sustainability and decarbonization (ESG) goals. They can operate as a primary power source or as a backup system.

EXPANSION AND SURPLUS

Expansion and Surplus:

Scalability: It is possible to double the system capacity by activating a second generator, with the option of adding a third as a backup at a relatively low cost (about 25% of the value of the set).

Use of Surpluses: Customers who generate more energy than they consume may, depending on the contract, join a program to supply the surplus to H2Verde, which would use it in public and private networks. This may generate fee exemptions or even financial gains for the customer. However, the economic viability of selling surpluses depends on the analysis of costs, tariffs and local regulations, such as Law 14,300, with self-consumption generally being the main focus.



MAIN BENEFITS

Sustainability: Clean energy, without pollutant emissions.

Cost Savings: Potential to reduce electricity costs by up to 90% compared to utilities, offering predictability with a fixed monthly cost. Focus is on Total Cost of Ownership (TCO) rather than just upfront cost.

Reliability and Autonomy: They provide energy continuously and reliably, ensuring energy autonomy.

Low Maintenance: The system features automatic self-cleaning every 4 months and remote monitoring. H2Verde offers technical support to ensure proper operation.



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