

TEC-TURB

DATASHEET

INFOS
FACTS
SYSTEM



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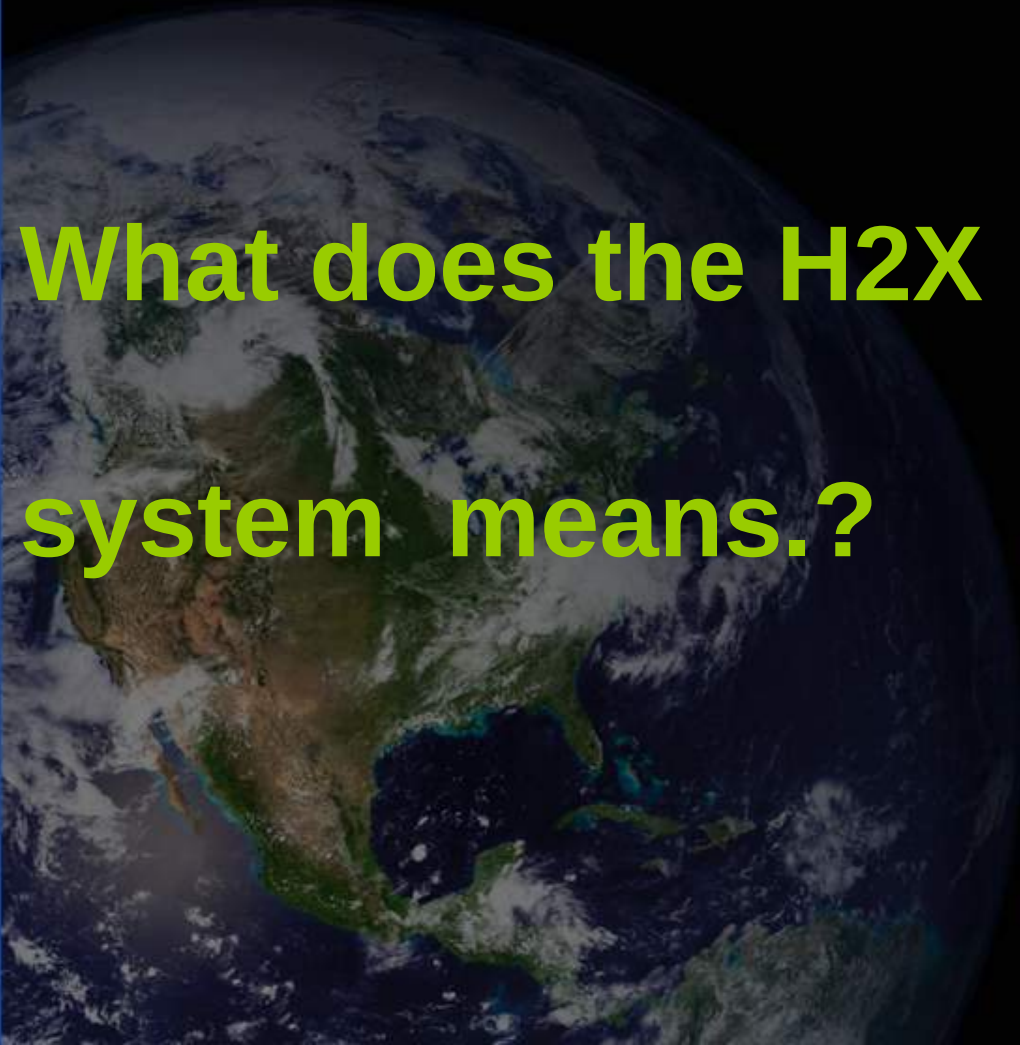
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THE PRODUCT



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**What does the H2X
system means.?**

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The patented H2X system enables in the first place the use a Methanol Water or Ethanol Water mixture. It is applicable for all engines.

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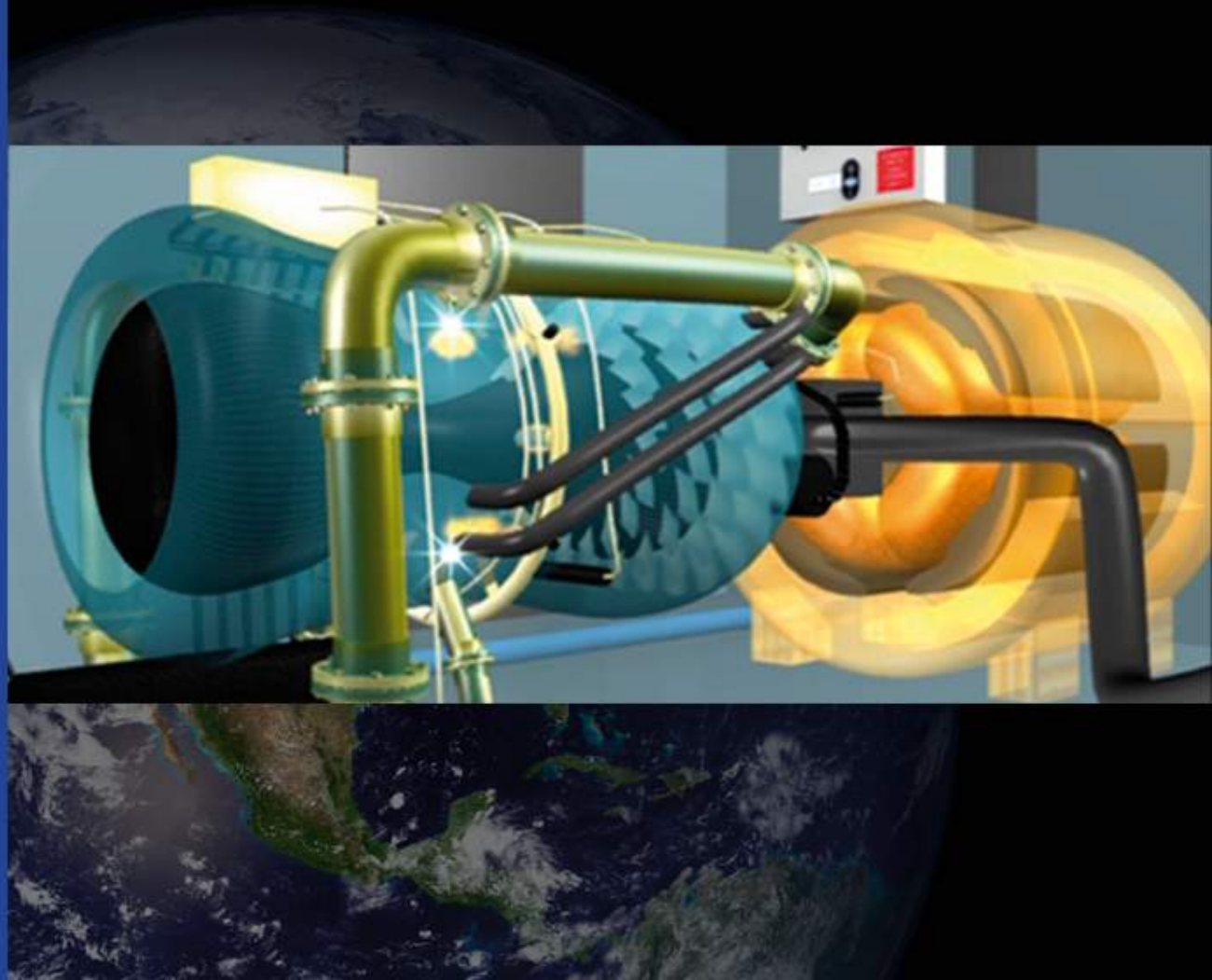
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A satellite view of the Earth, showing the continents of North and South America. The image is dark, with the landmasses appearing in shades of green and brown against the dark blue of the oceans and the black of space. The text 'Turbine H2X System' is overlaid in a bright yellow-green color.

Turbine H2X System

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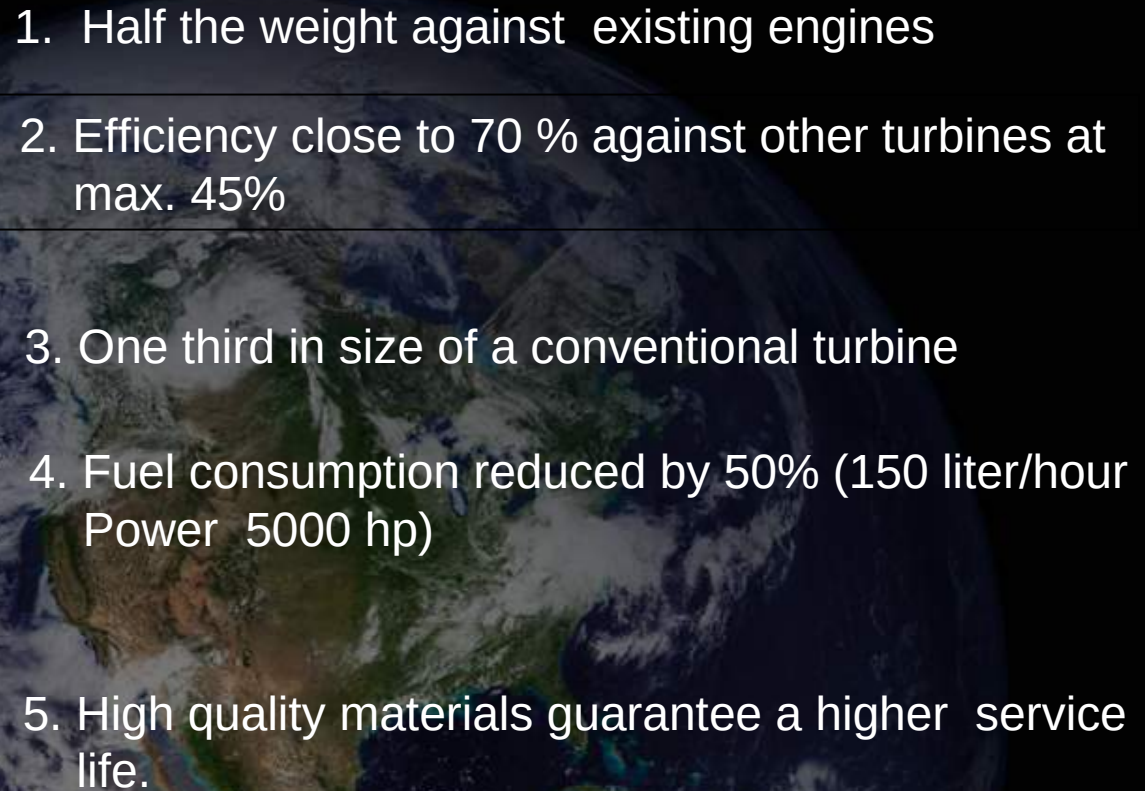
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The construction of the H2X Turbine has been specially conceived for the power plant container. The advantage to already existing turbines are also highlighted.

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1. Half the weight against existing engines
 2. Efficiency close to 70 % against other turbines at max. 45%
 3. One third in size of a conventional turbine
 4. Fuel consumption reduced by 50% (150 liter/hour Power 5000 hp)
 5. High quality materials guarantee a higher service life.
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TURBINE H2X Explanation:

Why is this engine so powerful?

The turbine H2X system is by nature so powerful. The injection system HIGS, patented world wide, and the special construction and conception of the combustor chamber upon this turbine an usually high power output.

Small and powerful

Low fuel consumption

Clean and environmentally friendly combustion

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TURBINE H2X INJECTION SYSTEM

Explanation:

Through the patented HIGS Injection System, a new generation of turbines has been born. The water fuel mixture is injected into the combustor chamber under a very high pressure(173psi). This triggers the ignition of the mixture through an ignition plug. An explosive force arises. Compared to the one flame of the conventional turbine, the H2X System experiences a double power impact.

As a result the H2X Turbine, world wide protected

- 1.) low fuel consumption
- 2.) very high power

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TURBINE H2X against DIESEL ENGINE

A comparison between H2X and a Diesel engine reveals.

A Power Plant Container with the H2X System has the following dimensions. L 12m, W 2,6 m, H 3 m. The weight is approximately. 15 tons.

In a Power Plant Container with a Diesel Engine of the same capacity, the Diesel Engine alone would weigh 30 to 35 tons, and measure a length of the 6 to 8 m. Hence unsuitable for a container.

The turbine has a very low noise level (26 db)

In contrast the diesel engine is very noisy (over 100 db)

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ADVANTAGE OF THE INSTALLATION

- ** INSTALLATION:** The container is only connected to the net coupling point. Following this points we recommend our customers to lay the cables underground. This no damage due to storm, hurricane or floods.
- ** CONSTRUCTION:** The only civil activity comprises the construction of a concrete foundation slab, according to data of the company. No supply roads and no expensive high voltage overheadlines are needed.
- ** TRANSPORTATION:** On trucks, by ship, on trains and in some countries, if necessary by a helicopter.

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**** INTERCONNECTION:** In the cities with more than one power container, the demand for electricity is controlled by a rating communication equipment. In case of a breakdown of one container, the loss is equalized by this equipment.

NO MORE BLACK OUT

**** NOISE:** To the construction of the container wall which is isolated against head and noise, the outside perceptible noise level therefore is very low, 26 db.

**** ENVIRONMENT:** Though the use of ethanol-water and methanol-water mixture, there is no emission of pollutants following combustion. This means that the power plant container is clean and can be placed anywhere, even in front of the house door.

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** INSTALLATIONS POSSIBILITIES

Military Installations

Residential Compounds

Hospital and Social Institutions

Harbor (Port Facilities)

Big Factories

Timber Industry

At all Communities

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PRODUCTION COSTS PER kW/H



Nuclear Power	22 Cent	440%
Caloric Power	18 Cent	360%
Hydroelectric Power	14 Cent	280%
H2X Container	05 Cent	100%

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CONSTRUCTION COSTS PER KW/H



Nuclear Power	Euro	3.100,--	212%
Caloric Power	Euro	2.100,--	149%
Hydroelectric Power	Euro	4.400,--	301%
H2X Container	Euro	1.460,--	100%

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PLANNING PERIOD UP TO INITIAL GENERATION OF ELECTRICITY

Nuclear Power

4 Years

Caloric Power

2-3 Years

**Hydroelectric
Power**

3-4 Years

H2X Container

8-12 MONTH

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

WEIGHT

Diesel Engine	30.000	Kg
Turbine conventional	4.500	Kg
Turbine H2X	2.100	Kg

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

EFFICIENCY

Diesel Engine	47 %
Turbine conventional	48 %
Turbine H2X	70 %

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

FUELCONSUMPTION

Diesel Engine	770 Liter / h
Turbine conventional	450 Liter / h
Turbine H2X	150 Liter / h

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

SERVICE

Diesel Engine	1.000 - 1.500 /h
Turbine conventional	2.000 - 2.500 /h
Turbine H2X	4.000 - 4.500 /h

after 2.250 hrs. Inspection of Plant through GPS
and the Control System(total check up)

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

SHUTDOWN TIME DURING SERVICE

Diesel Engine	24 - 48 /h
Turbine conventional	12 - 18 /h
Turbine H2X	2 - 3 /h

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COMPARISON

DIESELENGINE
TURBINE CONVENTIONAL
TURBINE H2X

SERVICE COSTS

Diesel Engine Euro	10.000 - 200.000,--
Turbine conventional Euro	10.000 - 150.000,--
Turbine H2X	4.000 - 5.000,-- Euro

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