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Patented power generation technology based on Ion Power Plants

A qualitative and quantitative description derived from the project to install a prototype at Adolfo Suárez Madrid-Barajas airport

- February 2th, 2024 -



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What is an Ion Module?

It is a generator capable of providing energy through a solution of water and salt, **without needing to be connected to the electrical grid**.

Electricity is produced through the kinetics of the electrolyte, when circulating through a closed circuit it passes through various filters and electrodes, oxidizing the metals it contains inside and <u>preventing the</u> <u>polarization</u> of the anode.

Patented technology





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MWh PRICE ESTIMATION WITH AN ANODO REPLACEMENT (2 CYCLES)





VALUATION H2 = 116.31 tonnes x 2,000 €/ tonne = 232,620 €

VALUATION ALUMINIUM PHOSPHATE = 4.0 tonnes x 2,500 €/ tonne = 10,000 €

CONSERVATIVE WITH RESPECT TO VALUES REPORTED IN THE **IONIC CERTIFICATE**

ENERGY COST wITHOUT BY-PRODUCTS = 384,310/10,080=38.12 €/MWh = 0.038 €/KWh = 3.8 € cents/KWh

ENERGY COST wit BY-PRODUCTS = (384,310-232,620-10,000)/10,080 = 14.06 €/MWh = 0.014 €/KWh = 1.4 € cents/KWh



200 KW	2 MW	10 MW	50 MW
	The second secon	× 50	× 250
60 m2 of floor space	600 m2 of floor space	3,000 m2 of floor space	15,000 m2 of floor space
2 40-foot container	20 40-foot container	100 40-foot container	500 40-foot container
10,080 MWh (2 cycles)	100.8 GWh (2 cycles)	504 GWh (2 cycles)	2,520 GWh (2 cycles)
CAPEX + OPEX without reducing by-products 384,310 € (2 cycles) ⊽ 2% ENERGY = 3.8 € cents/KWh	CAPEX + OPEX without reducing by-products 3.76 M€ (2 cycles) ⊽ 2 ENERGY = 3.7 € cents/KWh	CAPEX + OPEX without reducing by-products 2% 18.45 M€ (2 cycles) ⊽ 2 ENERGY = 3.7 € cents/KWh	CAPEX + OPEX without reducing by-products % 90.43 M€ (2 cycles) ENERGY = 3.6 € cents/KWh
CAPEX + OPEX reducing by-products 141,690 € (2 ciclos) ⊽ 2% ENERGY = 1.4 € cents/KWh	CAPEX + OPEX reducing by-products 1.33 M€ (2 ciclos) ⊽ 2 ENERGY = 1.3 € cents/KWh	CAPEX + OPEX reducing by-products 2% 6.32 M€ (2 ciclos) ⊽ 2 ENERGY = 1.2 € cents/KWh	CAPEX + OPEX reducing by-products % 29.77 M€ (2 ciclos) ENERGY = 1.2 € cents/KWh

5 INDUSTRIAL PROPERTY COVERAGE







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