WATERGAS NU

DE WATERDRAAK - Energie uit Water?

Efficiëntere verbranding van koolwaterstoffen

ZONDER WATERGAS — MET WATERGAS

WaterDraak
Opzet van stapsgewijs PoP-onderzoek
→ ontwikkeling demo 10 kW

Stap 1

First step of Proof-of-Principle research programme

Water-Plasma torch melts Tungsten

Calculus of the Proof of Concept: Plasmolyses turns Water into Fuel

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Input of electricity

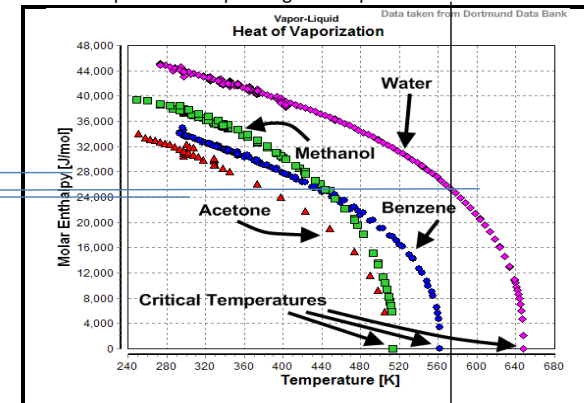|					
Plasmatron has fixed Amperage of:		6 Ampere			
Start-up voltage from the grid of:	220 Volt	Starting power amounts to:		1,32	kWh
The device on the outside remains handwarm, so efficiency is estimated at:		85%	1,12	kWh	
After development of plasma Voltage falls with:	90% Steady state power amounts to:		0,11	kWh	

Heating of 90 ml of water to 3000 °C

				°C	kJ/kg/°C	KWh/kJ	kg	kWh
						1/3600	kWh	
from	10	to	300	is	290	4,19	0,000278	0,09	0,03
from	300	to	301	is	1	1389	0,000278	0,03	
from	301	to	3000	is	2699	1,41	0,000278		0,10
								0,16	kWh

kJ/kg: 1389   J/mol: 25.000

Bond Energy óne liter of water   1000 18   1389

1 kg water contains 1000 gram/18 gram = 55,5 mol water   55,6
(source: Wikipedia)

Bonding Energy of H_2O

	kJ/mol		kJ/ltr		kWh/ltr		kWh
Bonding energy of H-OH	493,4	55,6	27.411	0,000278	7,6		0,69
Bonding energy of O-H bond	424,4	55,6	23.578	0,000278	6,5		0,59
Total	917,8		50.989		14,2	1,27	kWh

Wikipedia:
The bond energy is an average calculated from the sum of the bond-dissociation energies of all bonds in a molecule.[3]
For example, an HO–H bond of a water molecule (H–O–H) has 493.4 kJ/mol of bond-dissociation energy,
and 424.4 kJ/mol is needed to cleave the remaining O–H bond.
Hydrogen bond-dissociation energy in water is about 23 kJ/mol.[4]   (this portion is not taken in consideration)

Vapor-Liquid Heat of Vaporization — Data taken from Dortmund Data Bank

Plasmolyses: 300 °C

90 ml water delivers	0,11	minus	0,16	plus	1,27	is	1,23 kWh

A. (still under radar)	B. (still under radar)	www.hho-heating-systems.com/	www.httcanada.com

Watergas.NU and **Watergas.EU** promote the application of 'watergas'-technology in industry.
In the past five years we have developed a network of watergas companies.
Most companies struggle with the fact that watergas (aka 'HHO') can't be not proven with mainstream physics.
Currently we know of 5 companies, like (see blue bar) have developed house-heating systems fueled with water!
These Water-Heating Systems have COP's of at least 20.

'Watergas' = 'gas of water'

Another way to harvest the power of water is with **Plasma Technology**.

Mainstream Physics can explain Plasma Technology and is proven technology.
Currently we know several companies, offering plasma gasification for Waste2Energy!
This calculation shows that Water-Plasmatech reaches a COP of at least 10.

SPREAD THE MESSAGE THAT WATER CAN BE TURNED INTO FUEL -- **WATER = SOURCE OF ENERGY** -- NOW PROVEN WITH CLASSIC PHYSICS AND IN PRACTICE