

Hydrogen Energy On-Demand from Aluminum and Water

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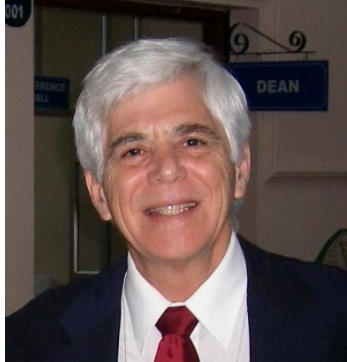
**Smart Mobility
Starts Here!**

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Aluminum
Powder



1 kg

+

Water
of any type

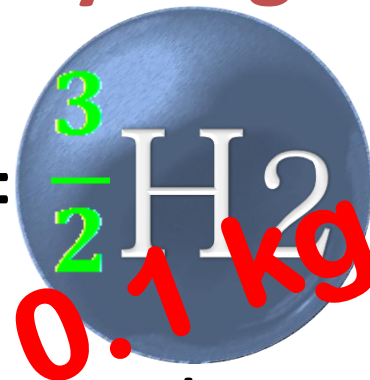


1 liter



=

Hydrogen



0.1 kg

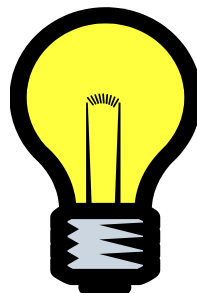
+

Fuel Cell



=

Electric
Energy



2.2 kWh

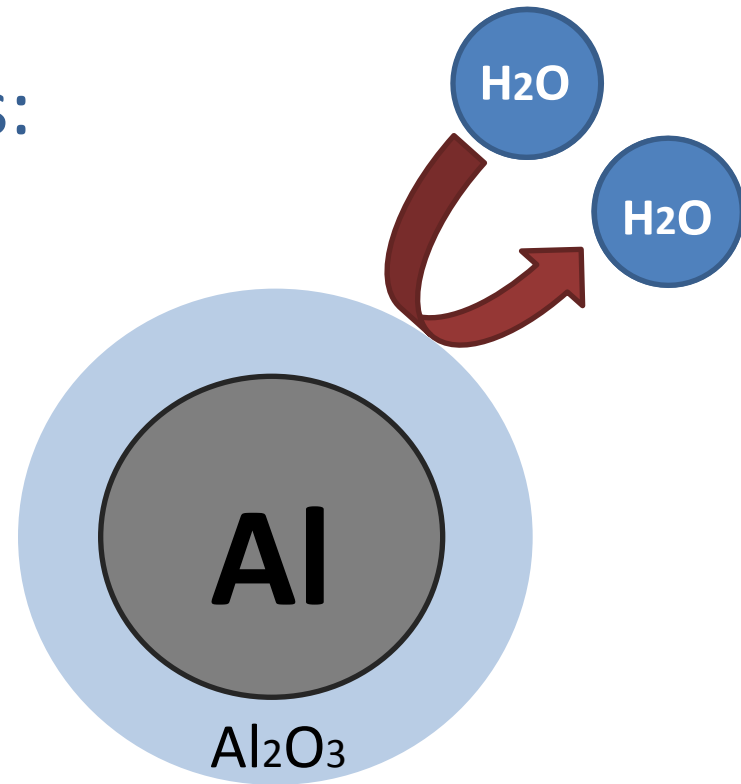
Aluminum
Hydroxide



3 kg

Our Innovation

- Aluminum activation - a novel **patented method**
- Using small fraction of activator (1% - 2.5%)
- Reaction at regular conditions:
room temperature
& atmospheric pressure



Technology Demonstrators



<http://youtu.be/MJDnBR5X08g>

Applications

Aerospace



Underwater



Ground



Transportation



Applications

Aerospace



x 2



Underwater



x 10



Ground

Transportation



50 kg Al

500 km



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Thank You