



**Energy Independence  
NOW !**



### Dr. Hugo Vandendorre

- 1 of 12 Members of the High Level Group “Hydrogen and Fuel Cells” of the European Commission
- Honorary Chairman of the Board of Directors of Stuart Energy Inc. (TSX: HHO)
- Chairman of Hydrogenics Europe until mid-2008 (NASDAQ: HYGS)



### Family owned Company

- Dominant presence in heating and cooling components and systems for a.o. the residential sector
- Headquarters in Northern Italy. 16 International Subsidiaries across 3 Continents
- 200 million EUR Net sales
- 950 employees

### JVD ENERGY GROUP

HEAT PUMP HYDROGEN FUEL CELL

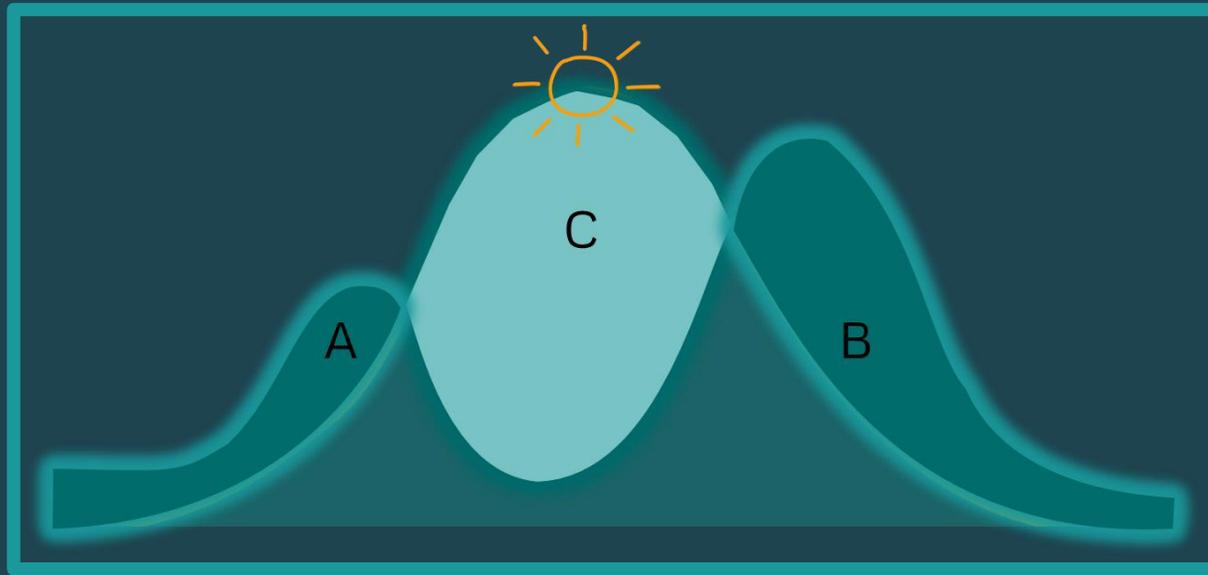


- Private owned company
- Local dominant player on Hydrogen CHP
- Installation and maintenance contract for Panasonic “natural gas-fuel cell”
- Experienced in BeNeLux rules and regulation for residential energy devices

# Problem to be solved

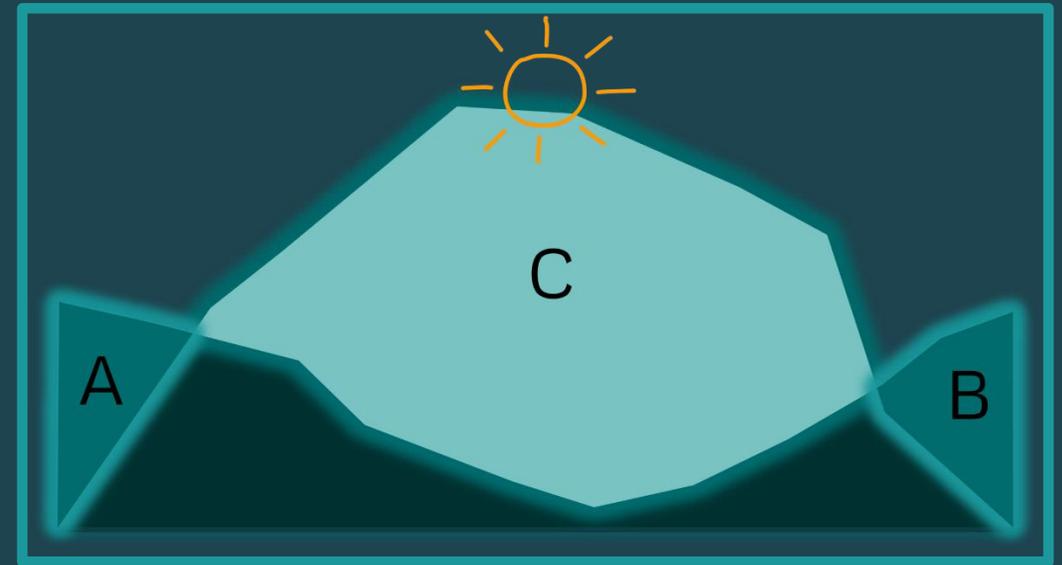


Daily



$$C > A+B$$

Yearly



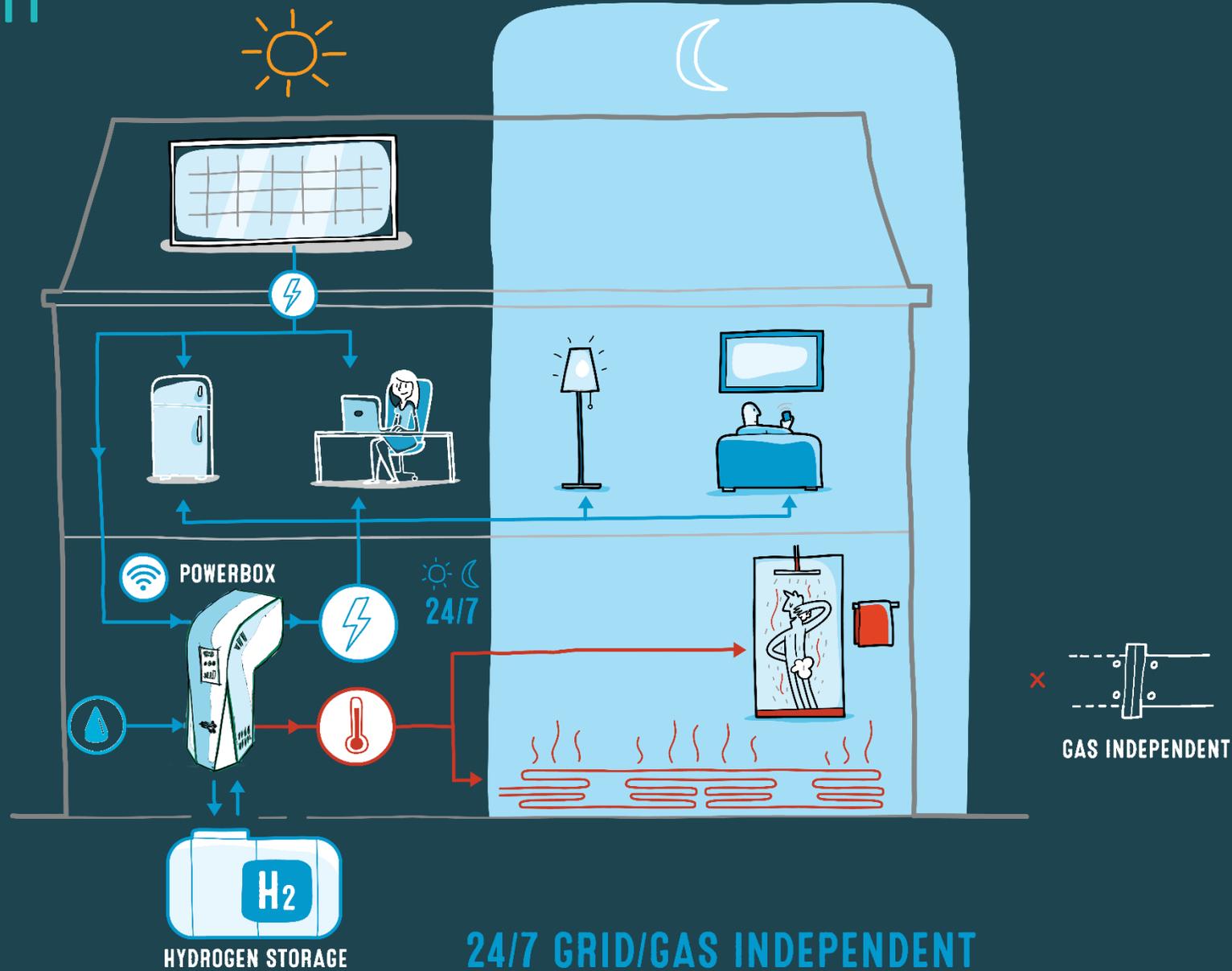
$$C \gg A+B$$

# Problem to be solved

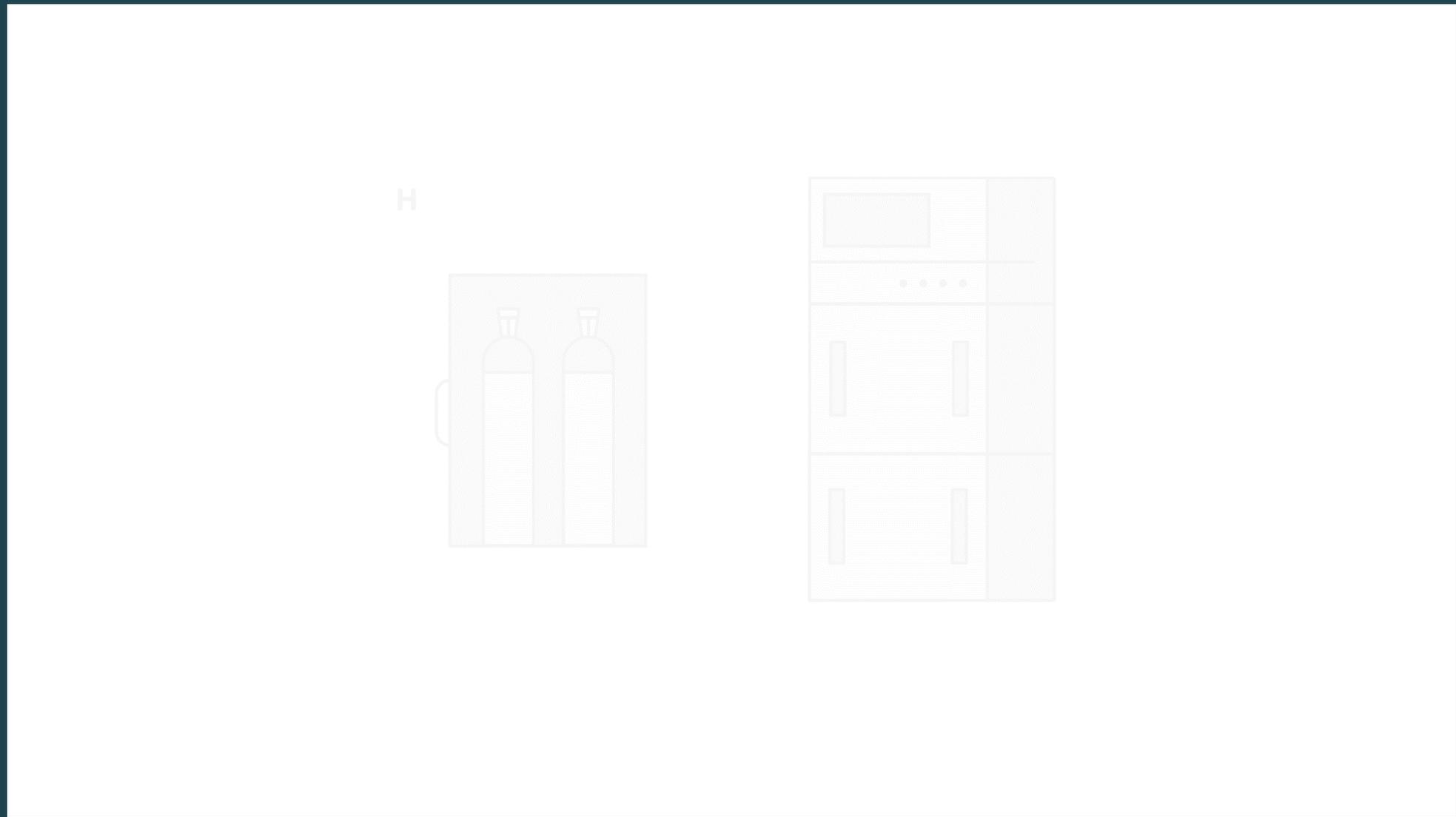


Consumer Need	Description	SPB™	Batteries	Gas mCHP
Energy Storage	Store electric energy	✓	✓	x
Electricity and Heat	Both energies produced by one device	✓	x	✓
Stabilizes Grid	Reduced volatility of variable Renewable Energy Sources	✓	✓	x
Zero-carbon	No CO <sub>2</sub> emissions	✓	✓	x
Integrated	Different sources in one integrated solution	✓	x	x
Economics	Consumer demand good economics	✓	x	✓
Green solution	No toxic waste	✓	x	✓

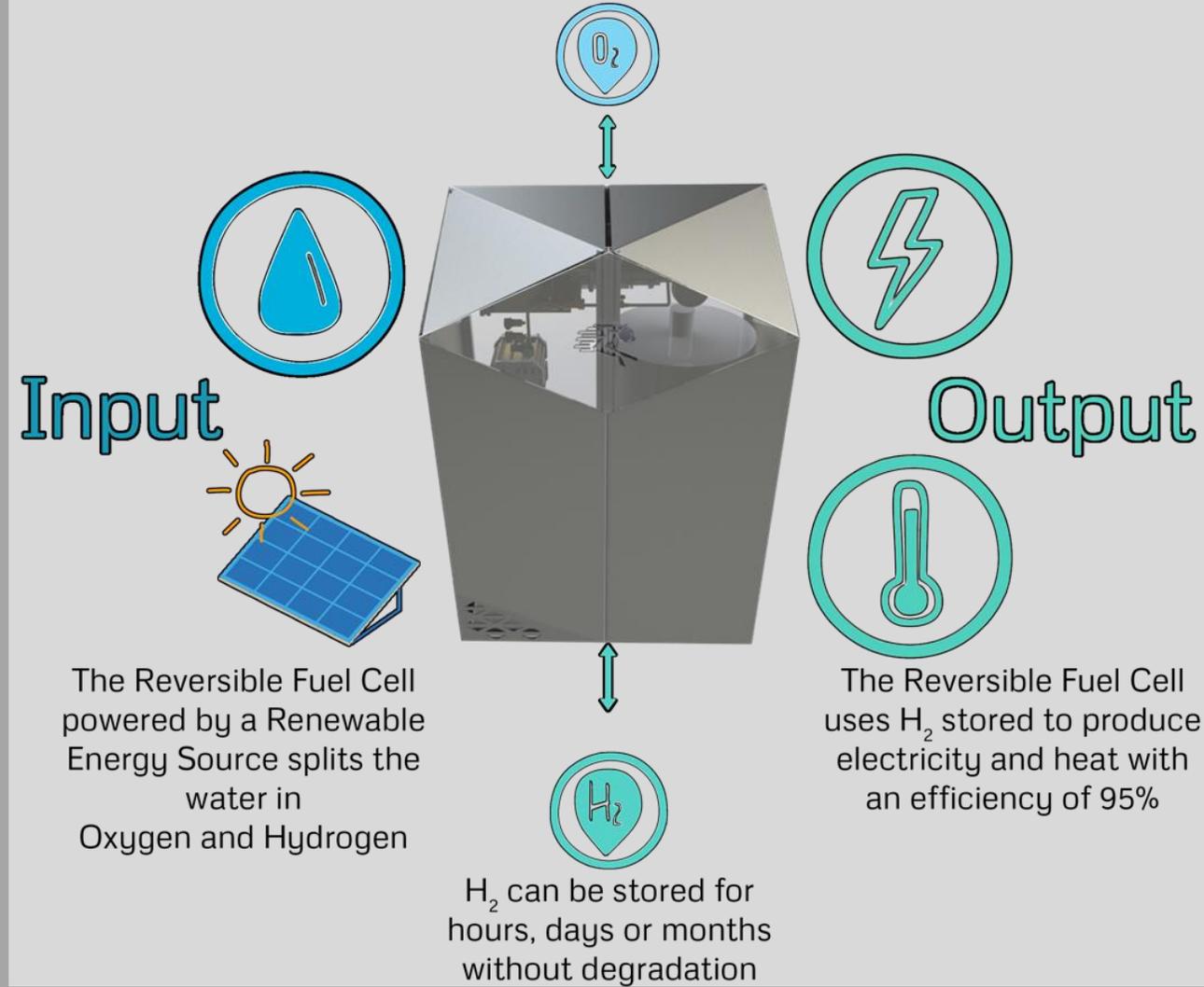
# Our solution



# Our solution



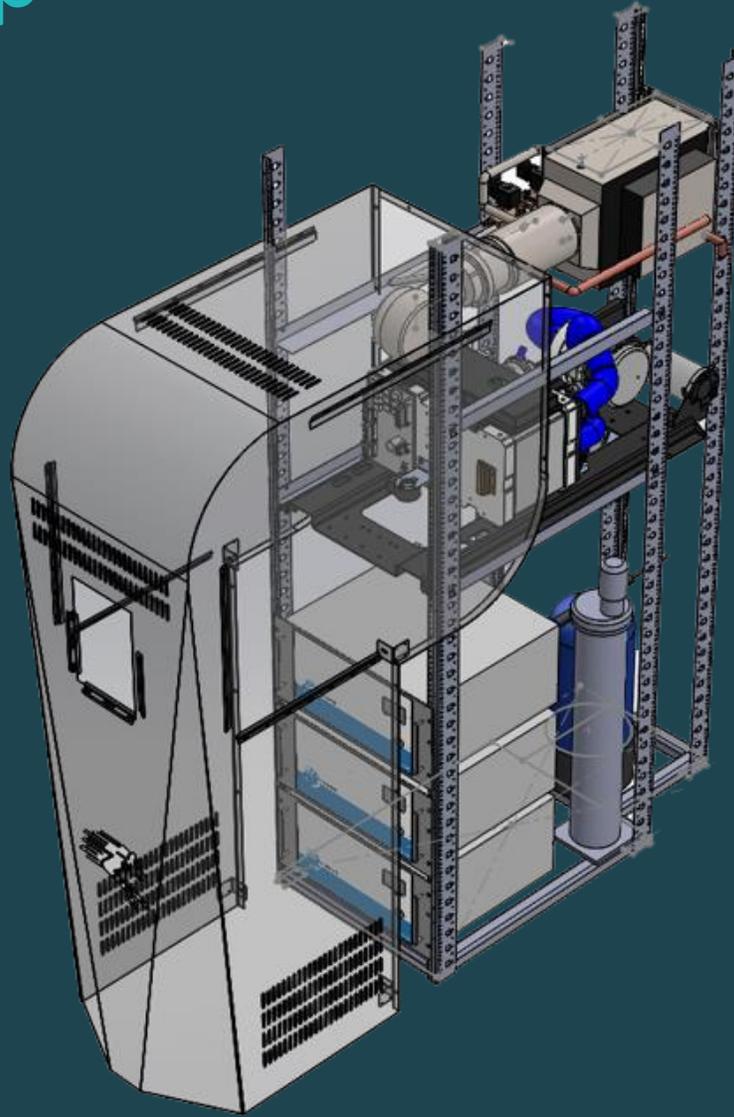
# Our solution



# Technology Roadmap



Phase I



Phase II



Phase III

# NETfficient (Phase I)



**POWER: 4 kWp**



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# NETfficient (Phase I)



Solenco Powerbox + Metal Hydrides



Solenco Powerbox + Hydrogen Storage

# Lessons learned



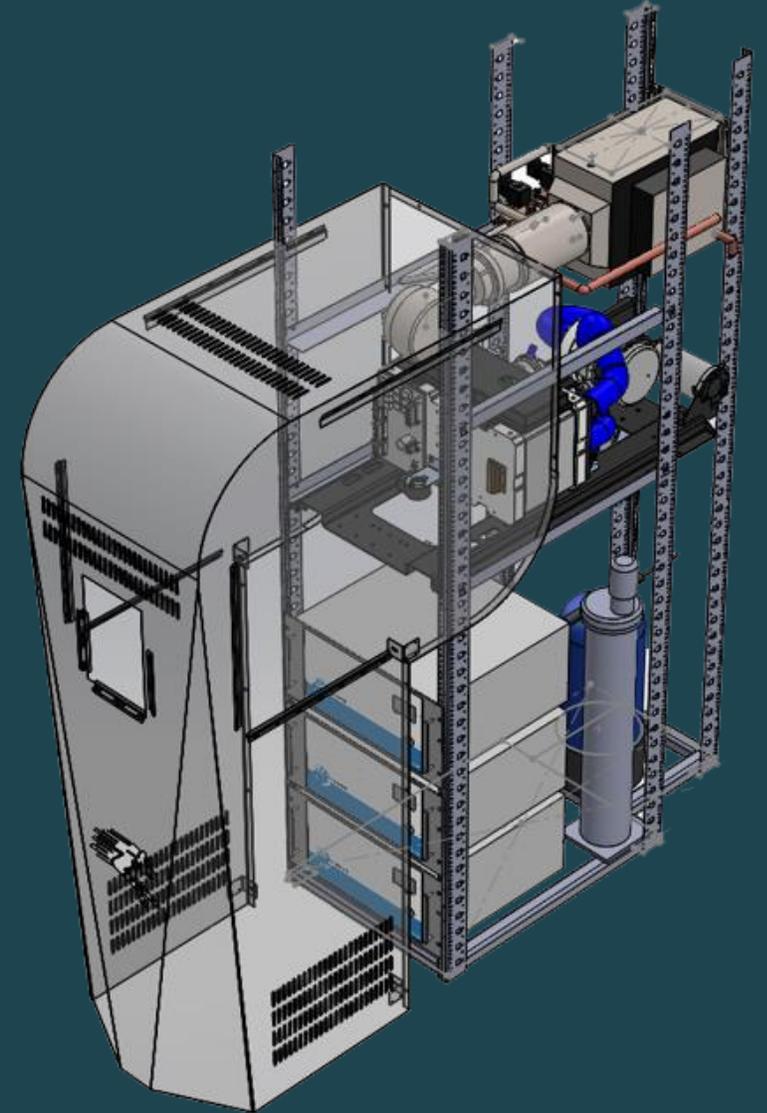
Phase I

Heat through  
Catalytic Boiler

Fuel Cell  
Heat Recovery

Water  
Treatment System

Software Integration



Phase II



**POWER**

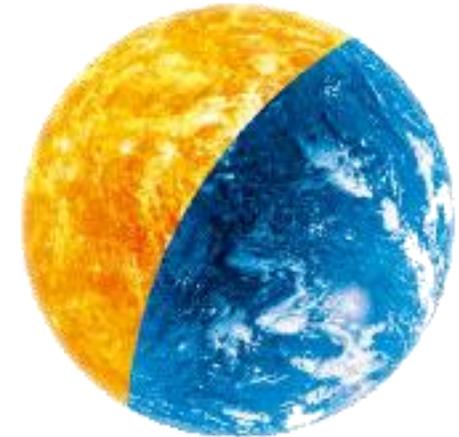


**ENERGY**

# Technology Roadmap



ISH



Frankfurt am Main  
March 11 – 15 2019

# IoT Control System



- User Interface

SOLENCO  
POWER

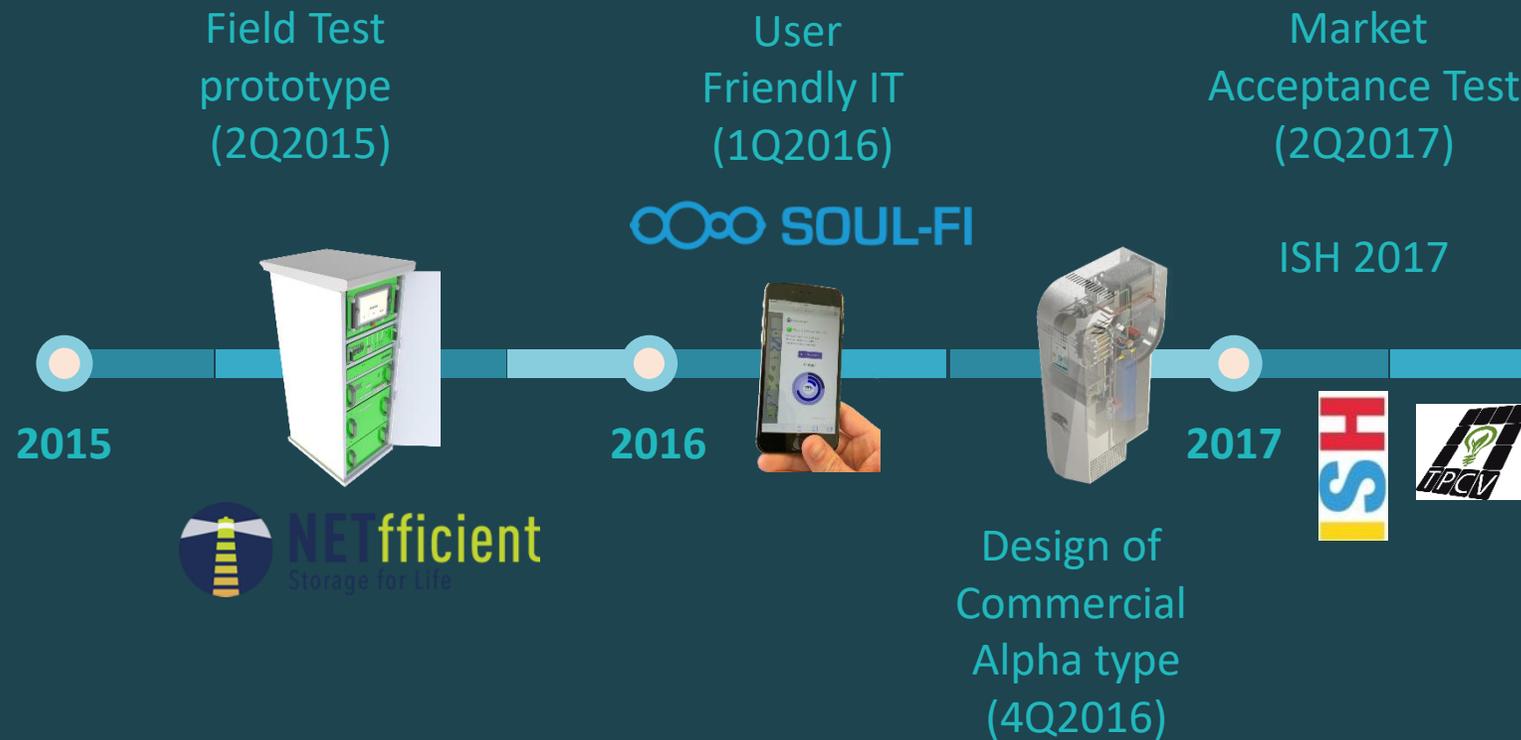
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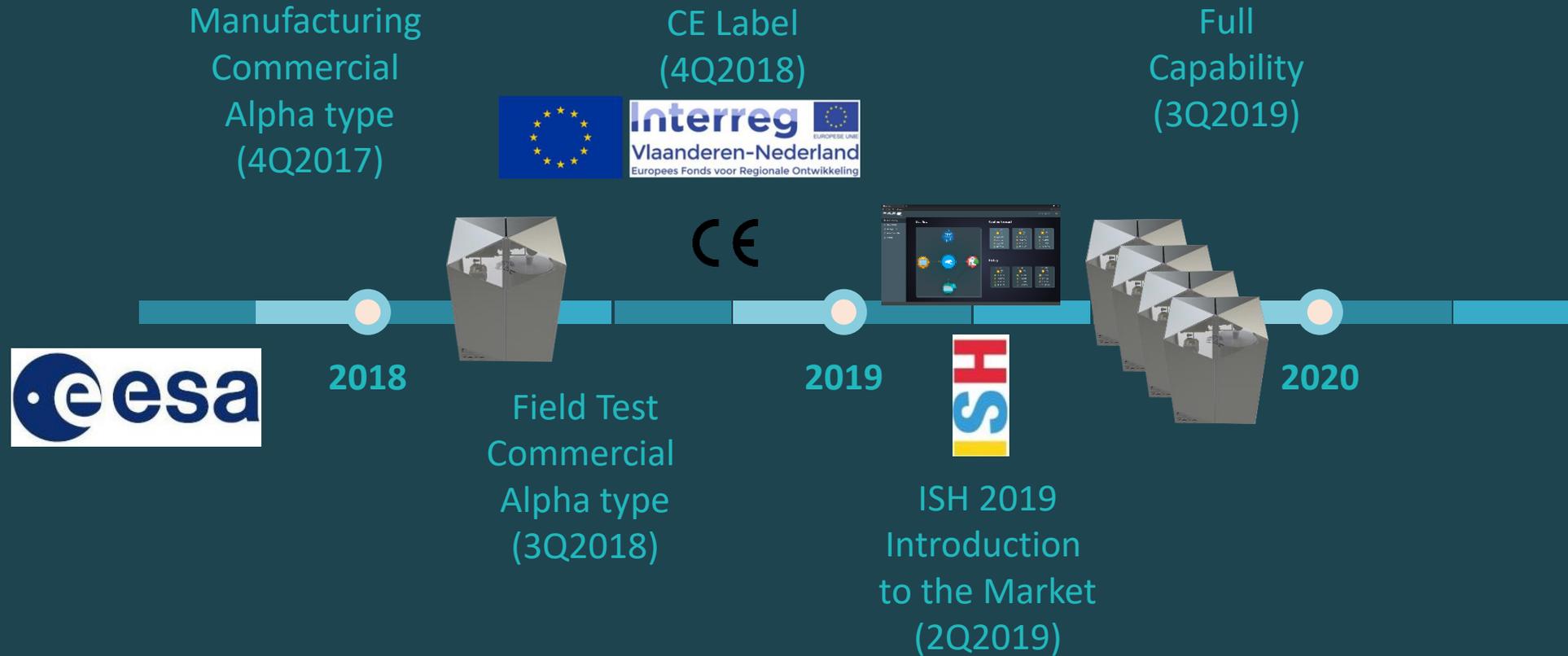
Log in

Strictly Confidential

# Roadmap



# Roadmap



SOLENCO POWER 

IMAGINE  
ENERGY  
INDEPENDENCE

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