



Swiss Sustainable Yachts  
**AQUON One Catamaran**

Sustainable Yachting with Hydrogen Propulsion

26<sup>th</sup> February 2020, Webinar swisscleantech

# Who we are

Team of international experts

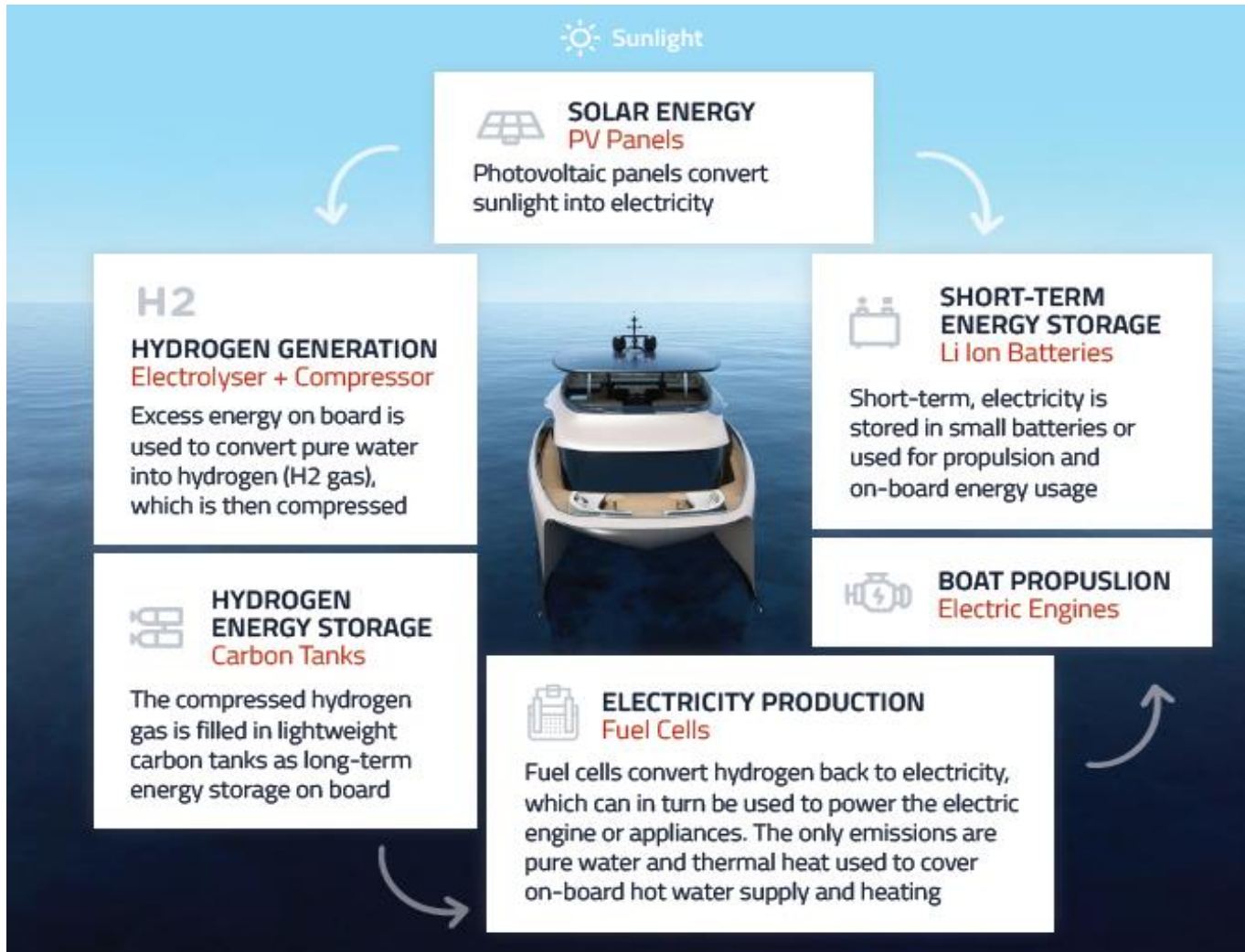


Please note: for organizational reasons, not all team members are represented with a picture yet



# First-ever Recreational Hydrogen Yacht: AQUON One

## The Energy System



Solar panels

Automated shading of windows

Hydrogen energy storage

Smart energy management system

Silent engine

Zero emission propulsion

Optimized hull

Sustainable materials



# Benefits

## Related to the Energy System



### Independence

AQUON produces its own energy on board from sunlight and stores it as green hydrogen, gaining independence from shore and potential self-sufficiency



### Synergies

Heat produced in fuel cell can be used for hot water on board



### Cruising Range

Hydrogen is lighter than fossil fuels or batteries and has a higher energy density, allowing for a longer cruising range at cruising speed of 8 knots



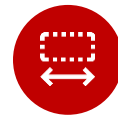
### Sustainability

Green H<sub>2</sub> is produced from sunlight. Its use in propulsion is zero-emissions, allowing for\* carbon-neutral yachting and complying with any future Emission Control regulation



### Comfort & Time

There are no emissions, no vibrations and no noise caused by the electric propulsion, allowing a smoother cruising experience



### Space

The energy system is compact, and the H<sub>2</sub>-tanks are stored in-between the hulls, freeing up more space under deck.



### Optimum Cruising Speed

At 6 knots, AQUON One is going faster (and further) than pure battery-electric propelled ships of comparable size (~ 4 knots)



### Less Maintenance

With less components, the energy system allows for a comparably lower level of maintenance

\* Depends on user behavior: AQUON One is most efficient at a speed of 6-8 knots with the potential to complete self-sufficiency at zero-emissions. At faster speeds /longer cruising durations, the yacht may need to refuel hydrogen externally, or plug into land power to generate hydrogen itself.

Questions?

# Thank you!

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