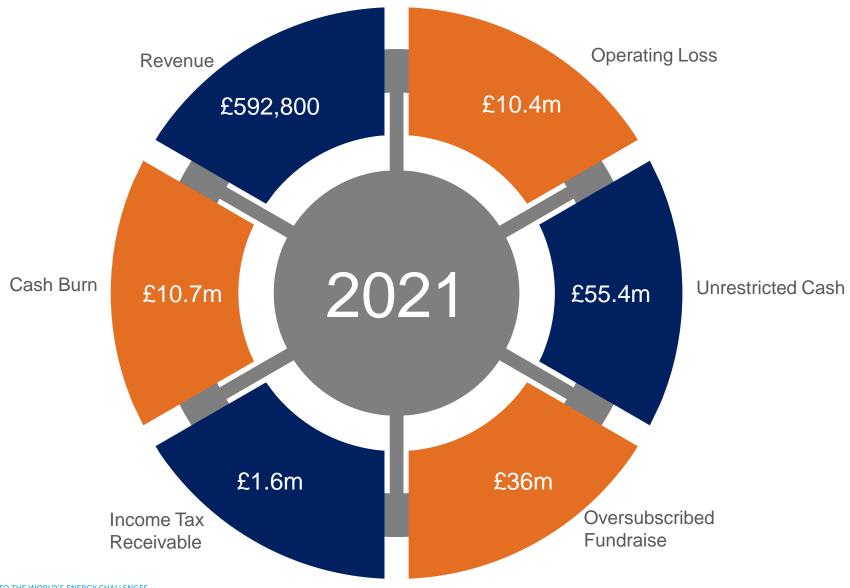




Annual General Meeting
April 2022



Financial Highlights



KEY ADDRESSABLE MARKETS

TODAY: STATIONARY



FUTURE TARGET MARKETS: STATIONARY AND MOBILE













TEMPORARY POWER





RAIL

Three Pillar Technology Strategy

Fuel Conversion & Filtration Technologies



Ammonia Cracking $[2NH_3 \rightarrow 3H_2 + N_2]$



Steam Methanol Reforming [$CH_3OH + H_2O \rightarrow 3H_2 + CO_2$]



Hydrogen Purification & Compression

Fuel Cell Technologies



Solid Polymer & Liquid FC



Ionic Polymers[hydrocarbon, non-PFSA]

Integrated Energy Solutions



Power Tower (10kW + Battery)



Stationary, Temporary & Back-up Power configurations (40kW – 0.5MW)



Marine Applications > 1MW



Commercial Highlights

Contracted Pipeline (at March 2022)

£5m

Progressing Global Distributors

5

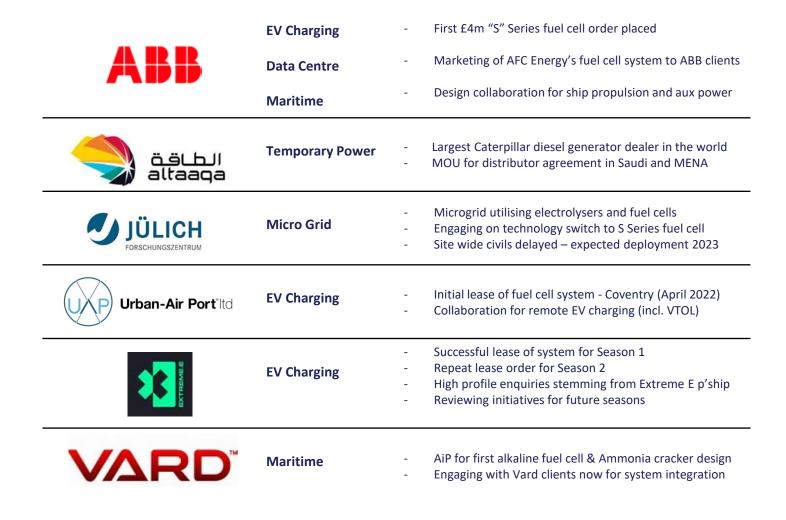


ABB Partnership: Highlights

Corporate



- Corner stoned fundraise in April 2021
- High level corporate engagement with Management Team
- Quality of engagement has led to extension of partnership to other verticals



EV Charging



- Successful integration of AFC Energy fuel cell and ABB charger in Europe
- First commercial order for 200kW "S" Series Fuel Cell for EV Charging
- First system deployment expected 2023
- 80 Countries of current operation (EV)



Data Centre



- Engaging with ABB data centre global leads on market opportunity
- Direct customer pitching of fuel cell systems (alongside ABB)
- Marketing of Fuel Cell platform by ABB at conferences and client brochures



Maritime



- Introduction to Vard for Zero Coaster programme
- Recognition of strong market in ammonia / methanal propulsion from fuel cells
- Direct engagement with ABB partners for fuel cell and ammonia cracker design



Construction Industry Highlights



- Plant Hire Oriented Business Model
- First Deployments adopt Leasing Model
- Power focus 10 100 kW/Unit



- First Spanish deployment June 22
- Strong Interest in Flex Fuel capability
- Assessing next deployment sites



- Power and H2 fuel scope of supply
- Strong relationships with Plant Hires
- Site regulator consultations in 2021



Operational Highlights

Head Count

87 (as of 6 April 2022)

Technology Robustness

- Successful Field Operation in Extreme Conditions
 - Desert
 - Arctic
 - Rain
 - Humidity

Technology Advantage

- ✓ Implementing Flex Fuel Strategy
 - Hydrogen
 - Ammonia
 - Methanol

Technology Scale-up

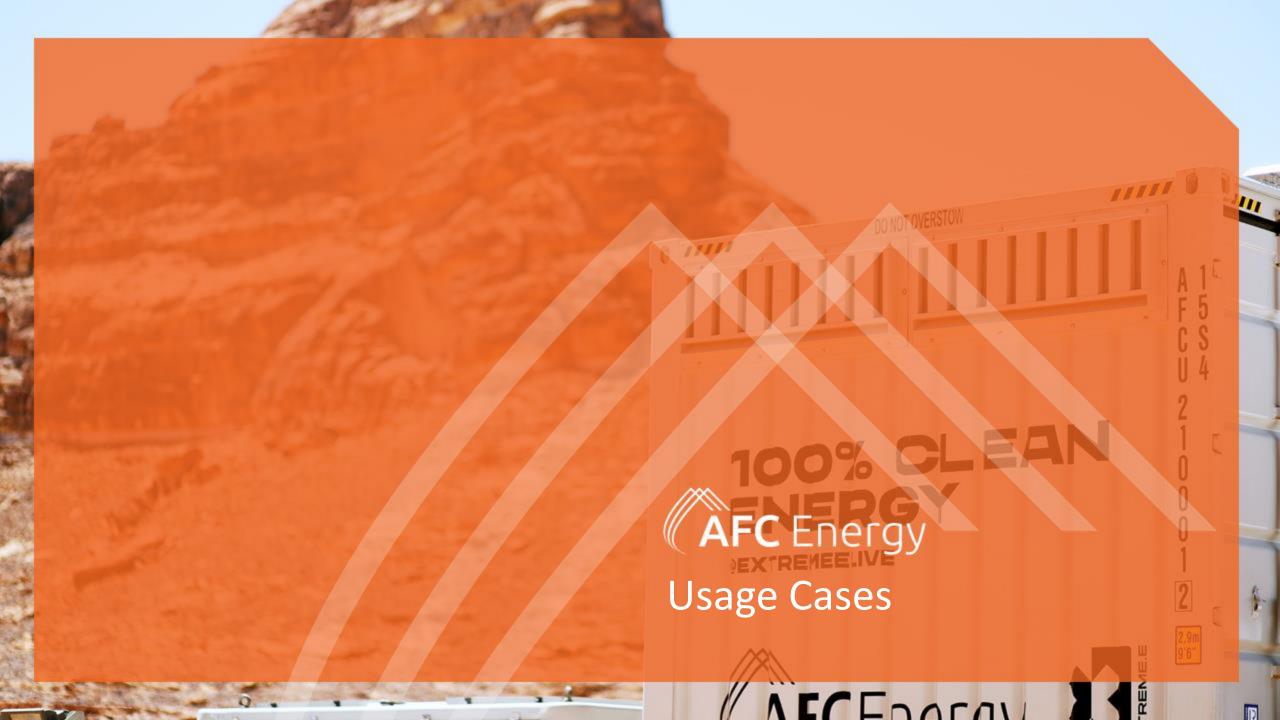
- ✓ Investment in Manufacturing Facilities
- ✓ Investment in Supply Chain for new "S" Series
- ✓ Concept development for membrane scale up

Technology Diversification

- ✓ Delivered first "S" Series Fuel Cell Stack
- ✓ Hybrid Fuel Cell (HFC) technology Introduction
- ✓ Receipt of first commercial ammonia cracker

Technology Relevance

- ✓ Partner engagement on product roadmap
- ✓ Concept design of maritime application
- Industry collaboration for construction sites



Power Tower Product Series





10kW Power Tower EV with integrated Type-2 AC Charger

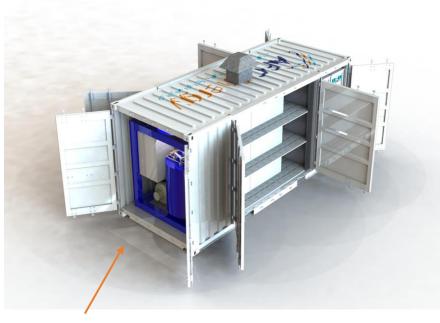
10kW Power Tower – 3 Phase AC Output

200kW S-Series Fuel Cell System

- Strategic Partnership between AFC Energy & ABB to support the accelerated development of a solid membrane based alkaline fuel cell system
- Incorporating ABB DCDC Power regulation to interface with a High Voltage DC Bus (>1kV)
- Ammonia Fueled with integrated controls & telemetry

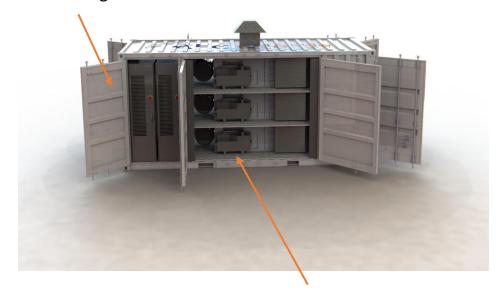






Ammonia Cracker

ABB Power regulation (DCDC) and switchgear



200kWe Fuel Cell Modules (Solid Membrane)

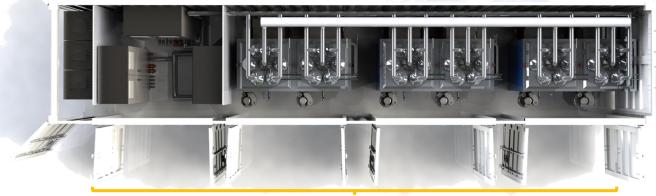
Marinised Container Solution





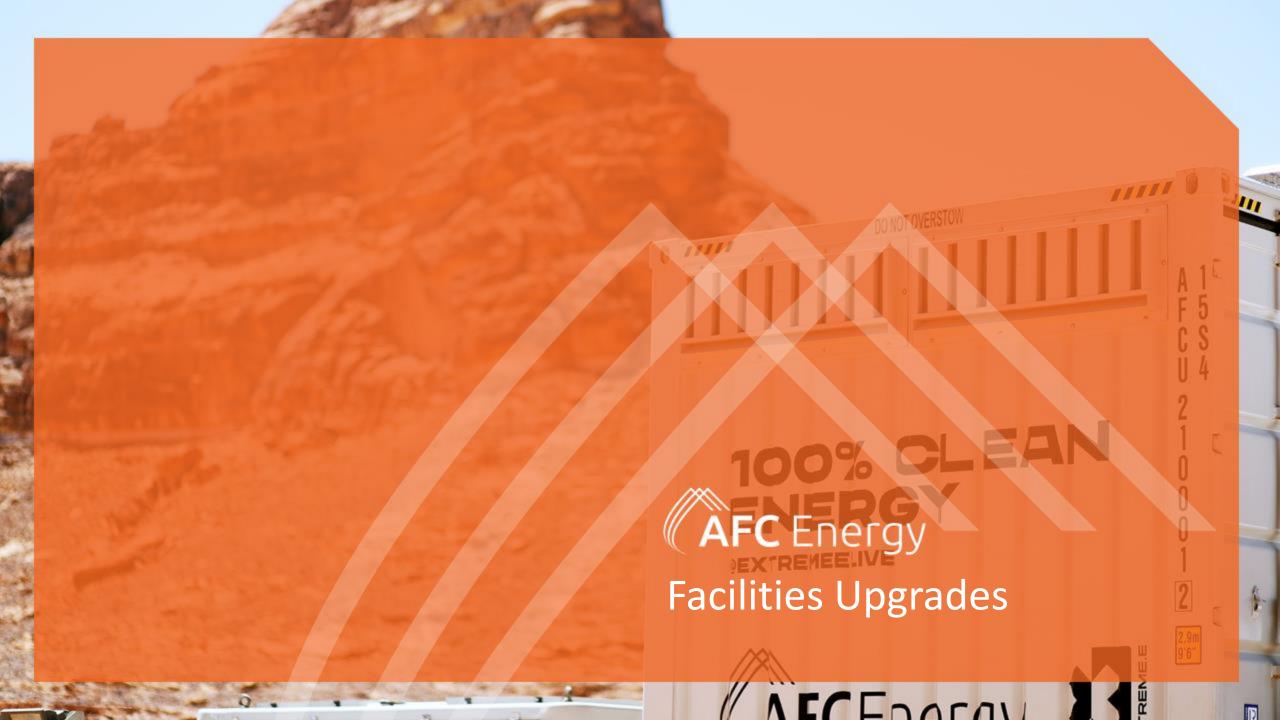
Steel Internal
Segregation (Fire-stop
Sealing)

Combined Piperuns at High level



Access doors / Maintenance (Normally closed)

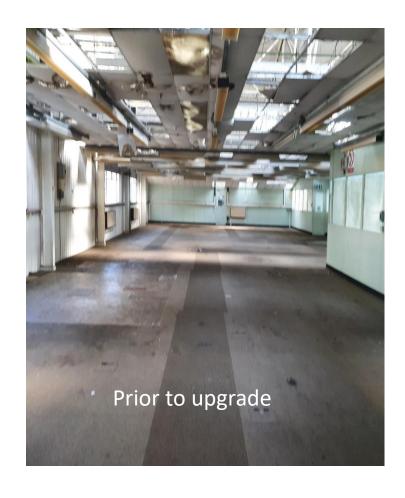




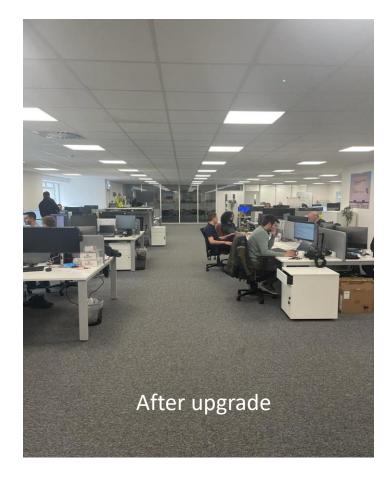
Office Space

Growing Staff Nos.

Centralisation of function & proximity to manufacturing space



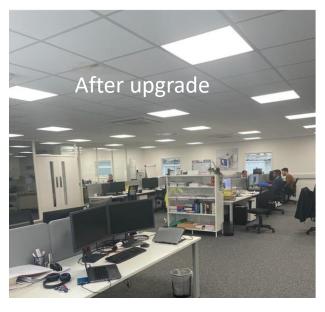








Office Space

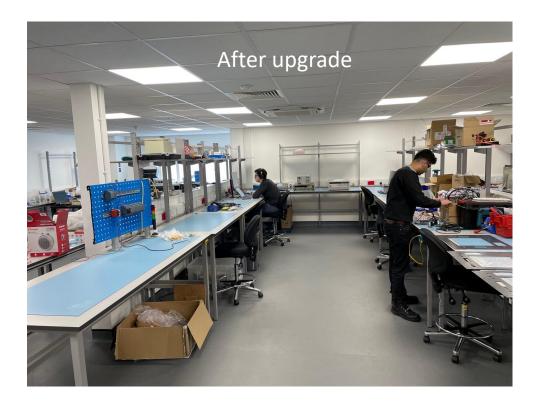




After upgrade

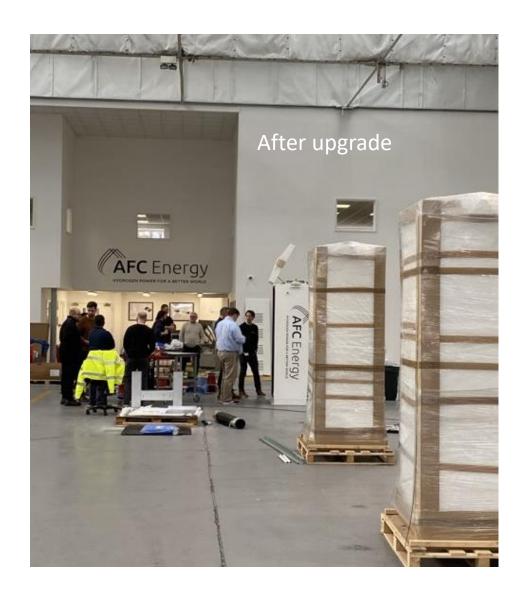
Electronics Workshop





Hangar & Manufacturing



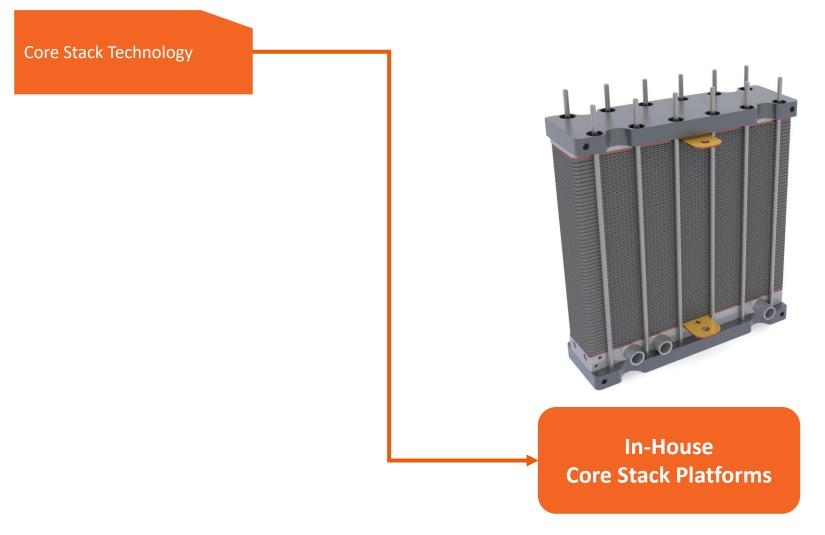


System Testing & Validation Area







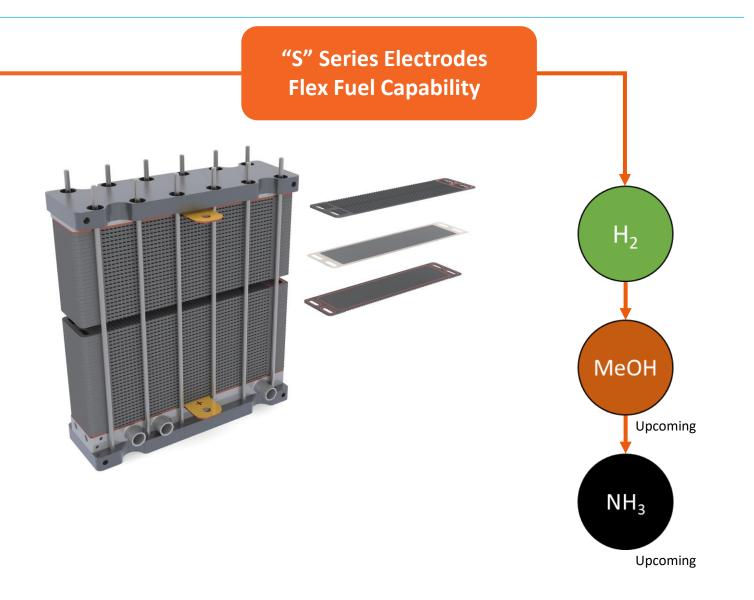


EMISSIONS-FREE SOLUTIONS TO THE WORLD'S ENERGY CHALLENGES

21

Core Stack Technology

S-Series, Flex Fueled Electrodes



Core Stack Technology

S-Series, Flex Fueled Electrodes "Hybrid"
Stack Platforms

"One Platform, Three Fuels"



Core Stack Technology

S-Series, Flex Fueled Electrodes

Simple, Tightly Packaged Balance of Plant



Efficient & Compact Balance of Plant

Core Stack Technology

S-Series, Flex Fueled Electrodes

Simple, Tightly Packaged Balance of Plant



Simple Hook-ups & Control Interface

Core Stack Technology

S-Series, Flex Fueled Electrodes

Simple, Tightly Packaged Balance of Plant

Modular Fuel Cell Units



Modular Multi-Unit Configurations

Core Stack Technology

S-Series, Flex Fueled Electrodes

Simple, Tightly Packaged Balance of Plant

Modular Fuel Cell Units

Scalable Power Units



Connected, Multi-Units deliver Scalable Power

Core Stack Technology

S-Series, Flex Fueled Electrodes

Simple, Tightly Packaged Balance of Plant

Modular Fuel Cell Units

Scalable Power Units



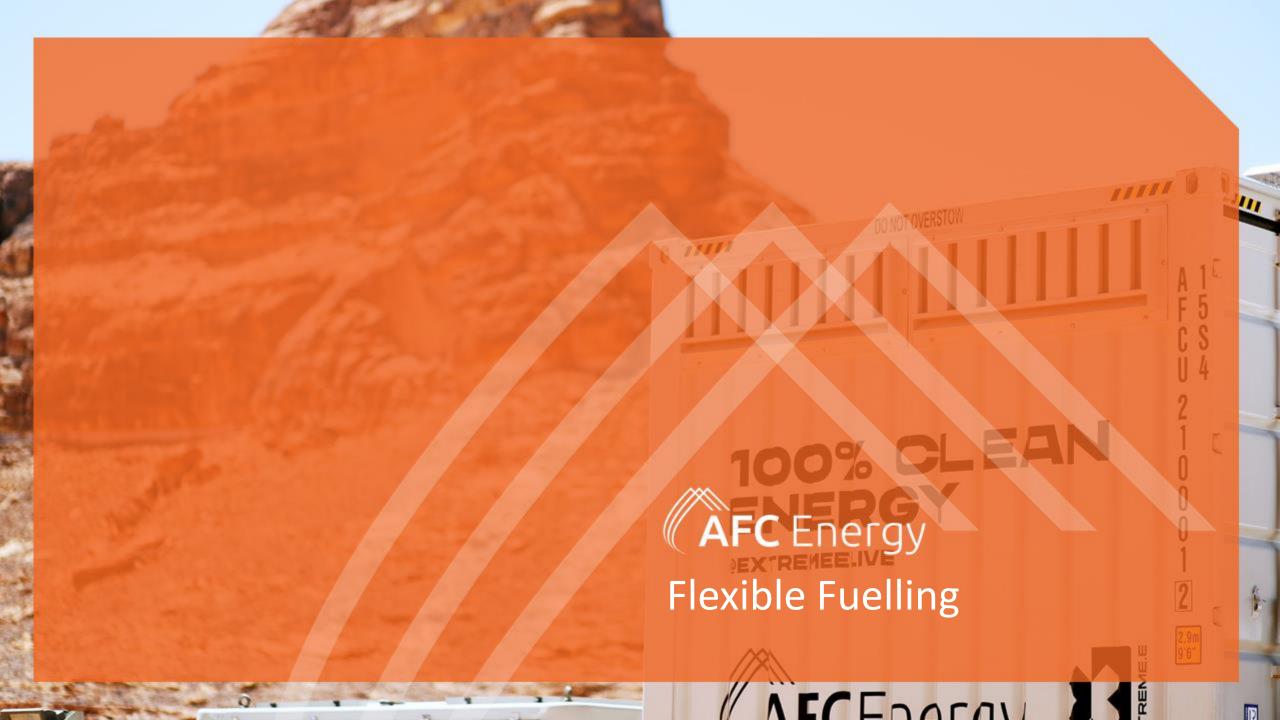
Compact Footprint Easy Installation



10kW Power Tower

- Outdoor enclosures
 - Compliant with a broad range of outdoor environments
- Single Unit Power up to 10kW
 - Default Configuration: 60V DC (default option)
 - Option: 230V AC (50Hz) *
 - Option: 415V AC 3-Phase *
 - Option: 600-800V DC
 - Option : Type 2 EV AC Charger
- Integrated 6.4kWh Lithium-Ion Battery
 - Larger capacity external battery arrays possible
- Multi-Unit Tower installation for increased power output (>10kW)
- Flex Fuel Capability
 - Hydrogen
 - Methanol Reformer capable (Future Option)

^{*}AC connections are designed as off-grid Island Mode. Grid-Tie / G99/ Synchronisation would require additional supplementary equipment.

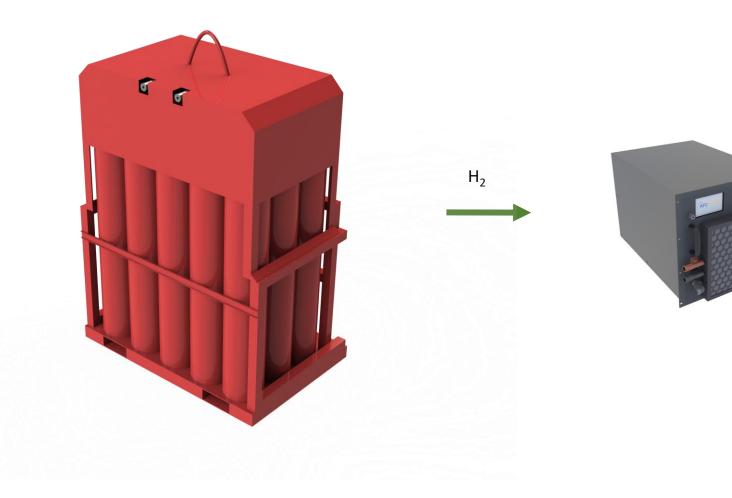


FLEXIBLE FUELLING:

Alternative fuels to Hydrogen

Hydrogen Fuel Cell solution running from compressed Hydrogen is a simple and elegant solution

However, Hydrogen is not necessarily the ideal fuel for all customers



Fuel Cell

Hydrogen Multi-Cylinder Pallet (MCP)

MISSIONS-FREE SOLUTIONS TO THE WORLD'S ENERGY CI-

FLEXIBLE FUELLING: METHANOL

Sustainable and Readily Available Hydrocarbon Fuels



EMISSIONS-FREE SOLUTIONS TO THE WORLD'S ENERGY CI-

3.

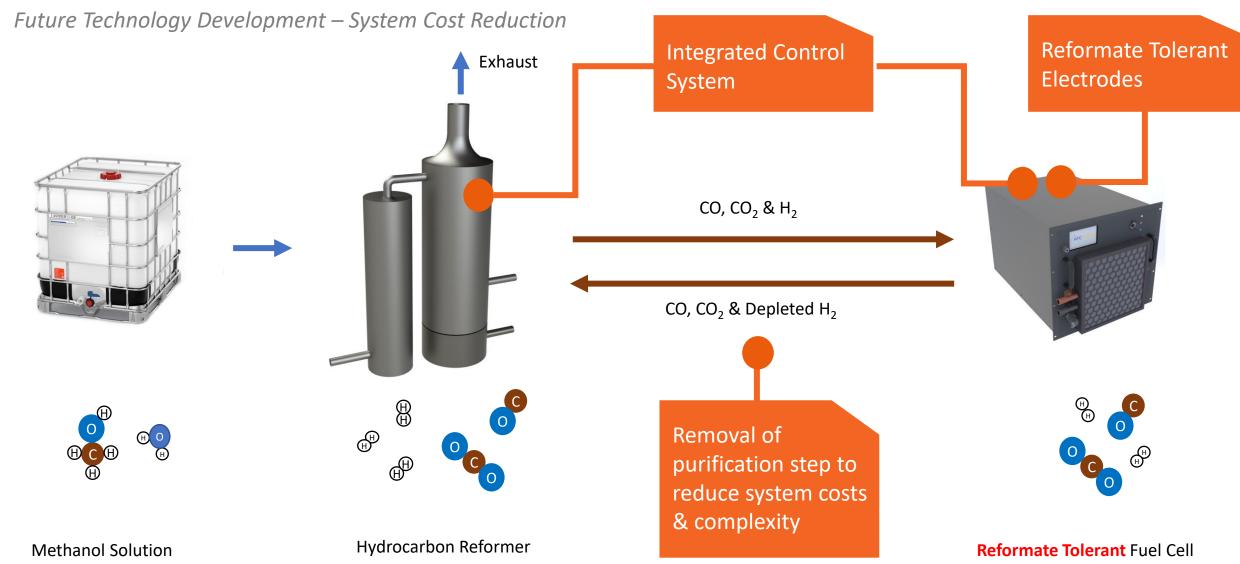
FLEXIBLE FUELLING: METHANOL

Sustainable and Readily Available Hydrocarbon Fuels



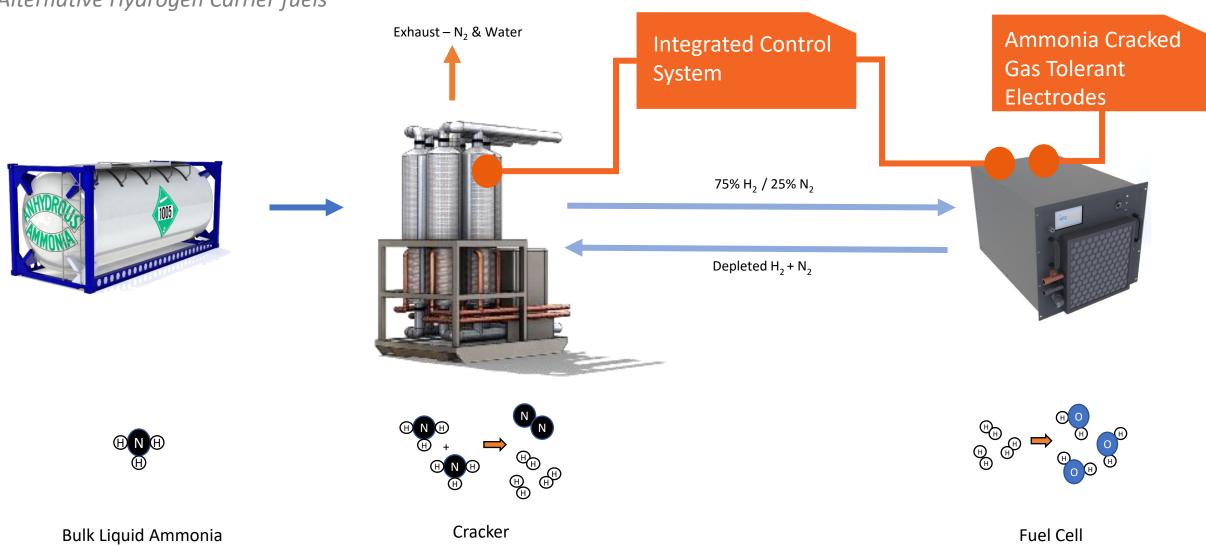
EMISSIONS-FREE SOLUTIONS TO THE WORLD'S ENERGY CI-

FLEXIBLE FUELLING: METHANOL



AMMONIA FUELLING:

Alternative Hydrogen Carrier fuels



FLEXIBLE FUELLING

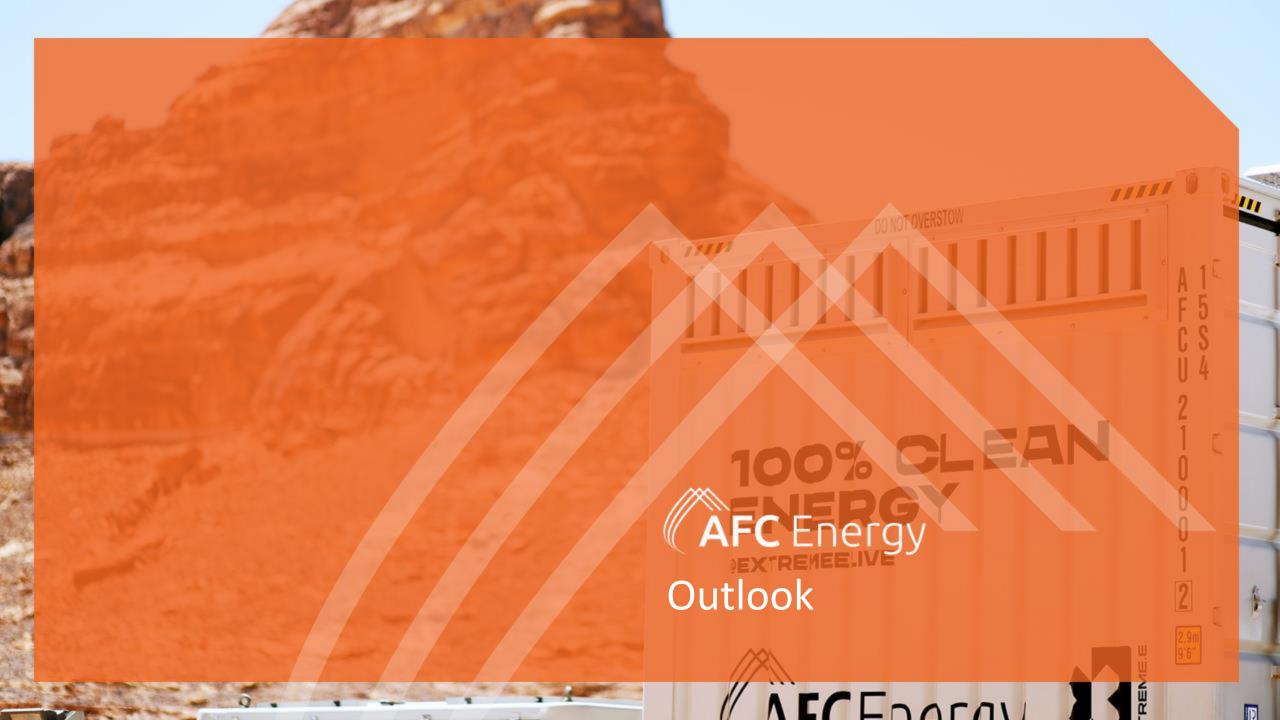
AFC Energy Validation of Fuel Processing Technology

Methanol Reforming



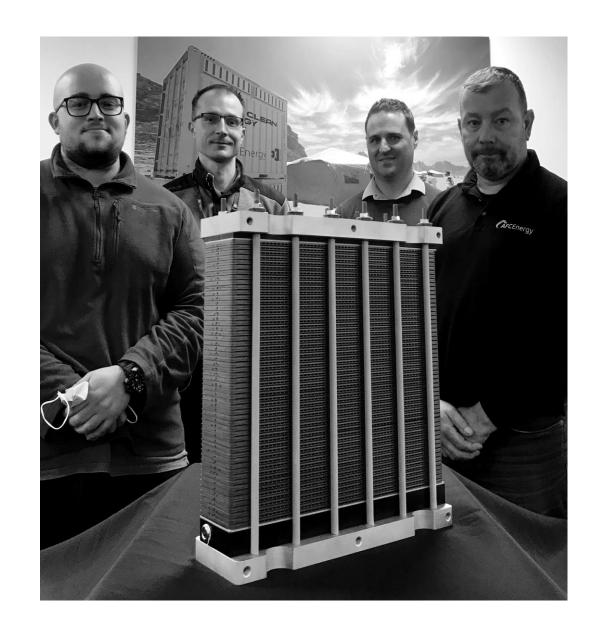
Ammonia Cracking





Outlook

- Environmental and Geopolitical drivers highlighting need for clean energy diversification:
 - ☐ Hydrogen receiving strong support
- Regulatory and fiscal support through removal of Red Diesel subsidy in the UK
- "S" Series Hybrid Fuel Cell systems delivered to customer sites
- ABB collaboration to deliver first stage High Power EV charger by end of calendar year
- Upstream Hydrogen fuelling technologies currently under development
- Well positioned to capitalise in diesel displacement within the next decade





Questions?

www.afcenergy.com

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