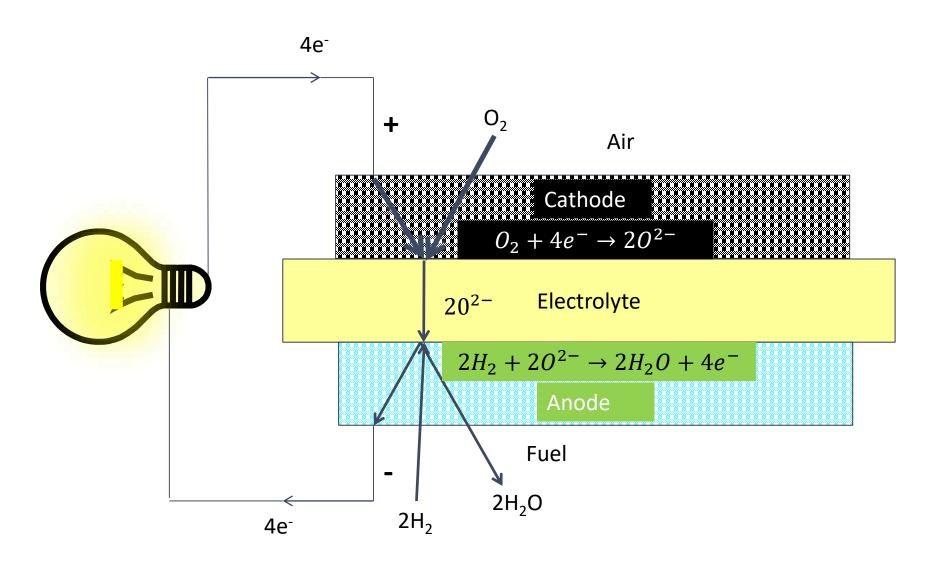




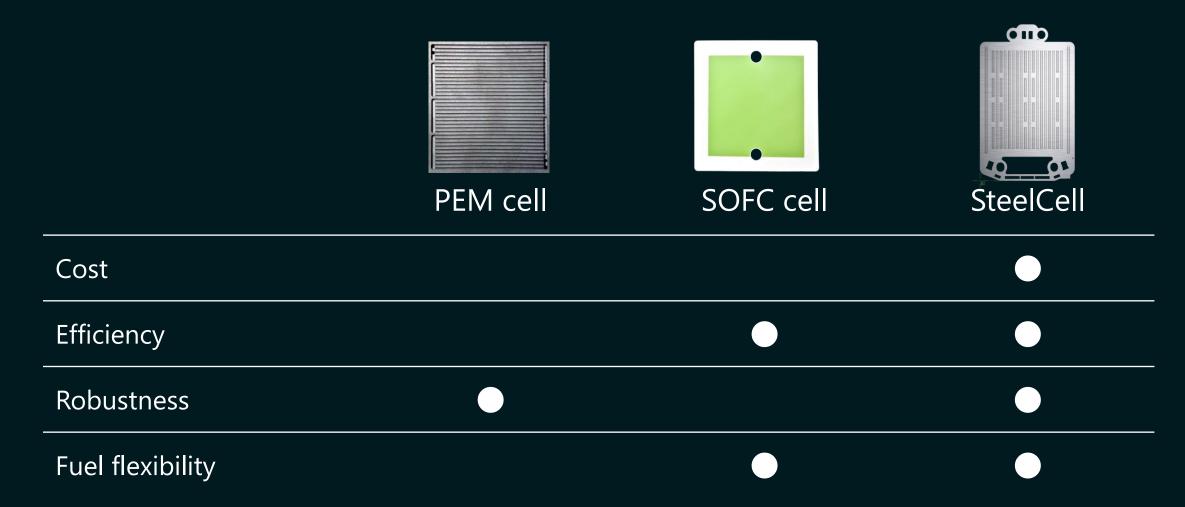


Solid oxide fuel cell fundamental principles



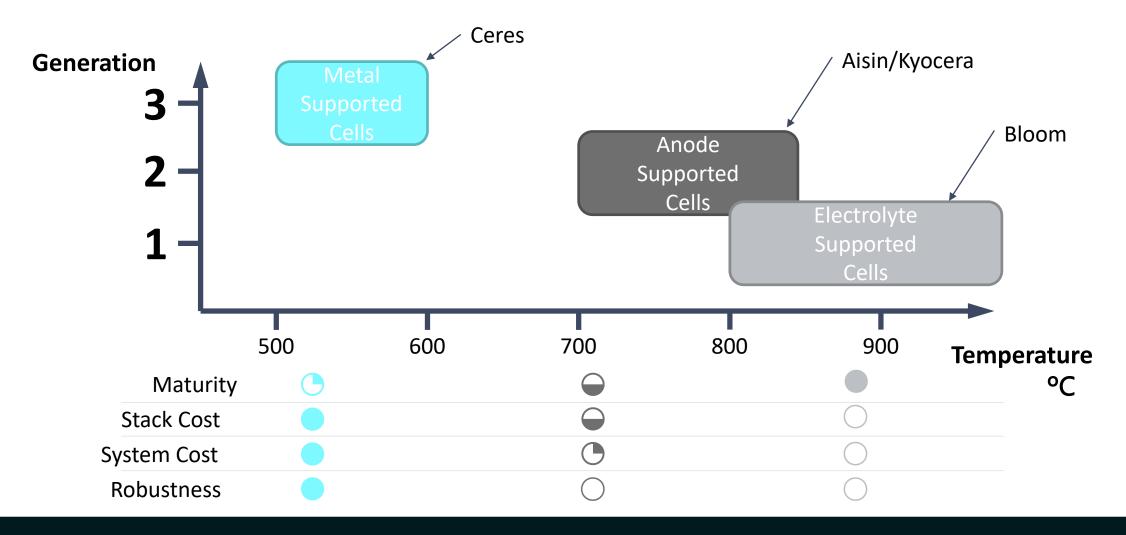


So why is SteelCell the solution for on-site power generation?





Worlds Most Robust and Lowest Cost Solid Oxide Fuel Cell Technology





Why Steel Cell

Robustness

- stop-start
- e-stop
- low degradation

Efficiency

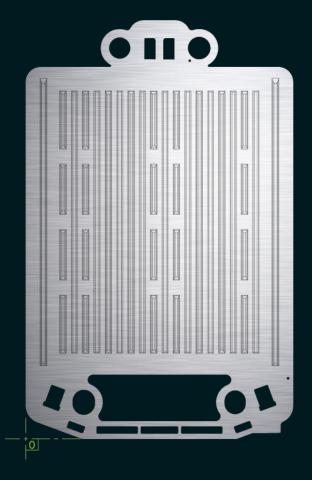
- high efficiency
- power density
- life time

Costs

- cell and manufacturing cost
- system cost

Flexibility

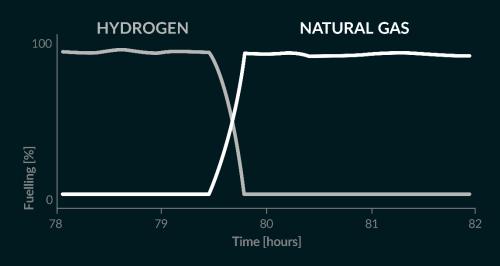
- Fuel flexibility
- System responsive

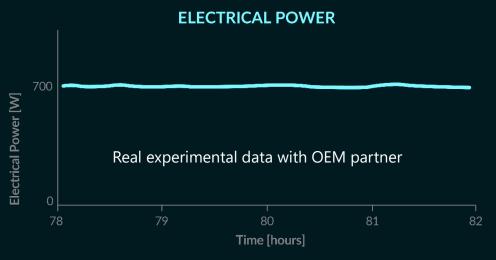




Fuel Flexibility enables many energy futures

SteelCell has been extensively demonstrated on Natural Gas and Hydrogen

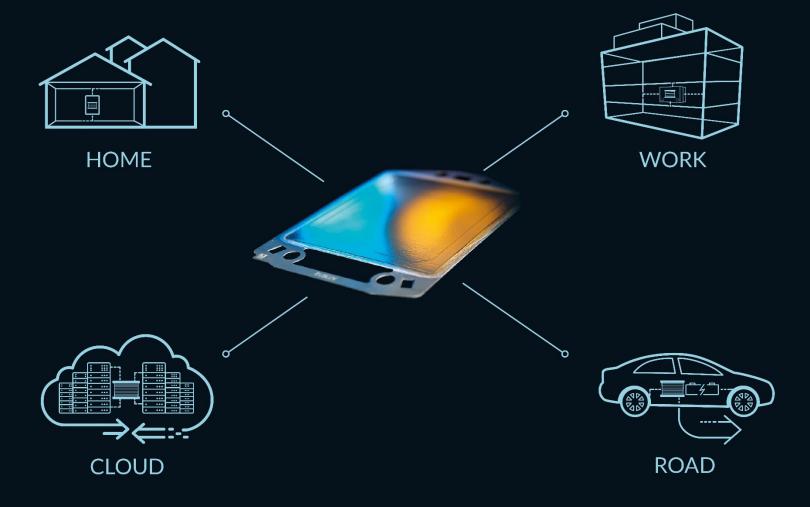




Presentation Title Ceres Power Ltd. © 2017



APPLICATIONS FOR THE SteelCell®



MULTIPLE DEVELOPMENT PARTNERS for MULTIPLE APPLICATIONS



8



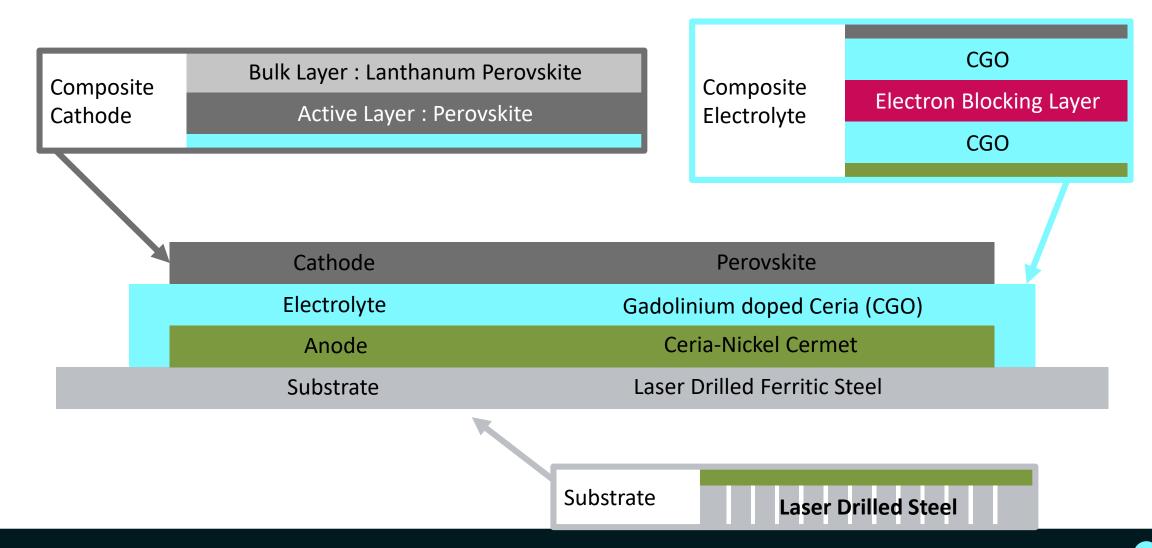
CONFIDENTIAL PARTNER 1

- European-based Global OEM co-developing multi-kW prototype for multiple applications
- Strategic collaboration buses and other China markets - targeting equity investment and JV
- Honda Power Systems several applications
- SOFC Stack to Extend Range of Electric Vehicles
- Data Centre & Commercial Scale Opportunity
- Commercial Scale CHP Development with aim to market launch

A Fuel Cell in every home and business Ceres Power Ltd. © 2018

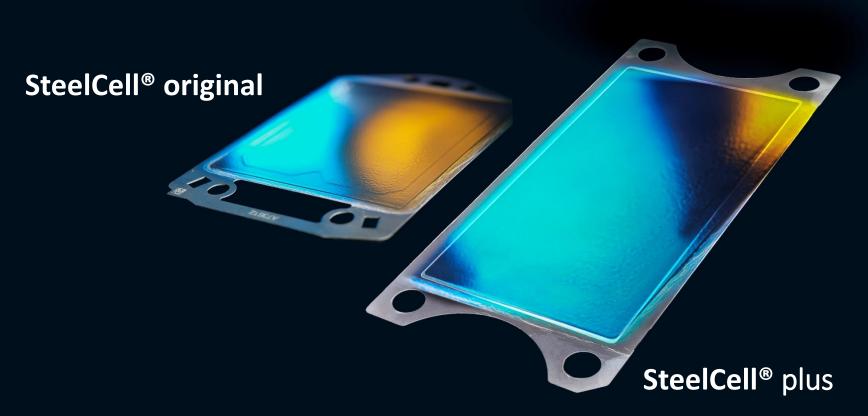


Detailed Ceramics Structure





Increasing demand for increasing power.



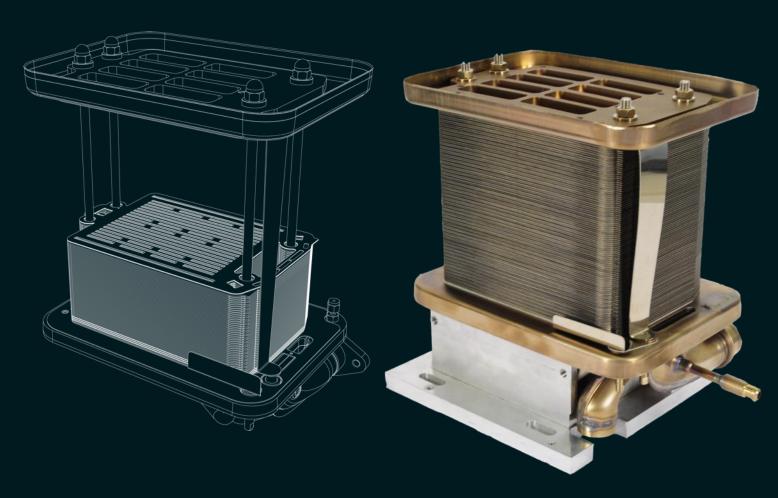
Larger footprint cell under development



Mature Steel Cell Stack Module developed for uCHP and small distributed generation applications

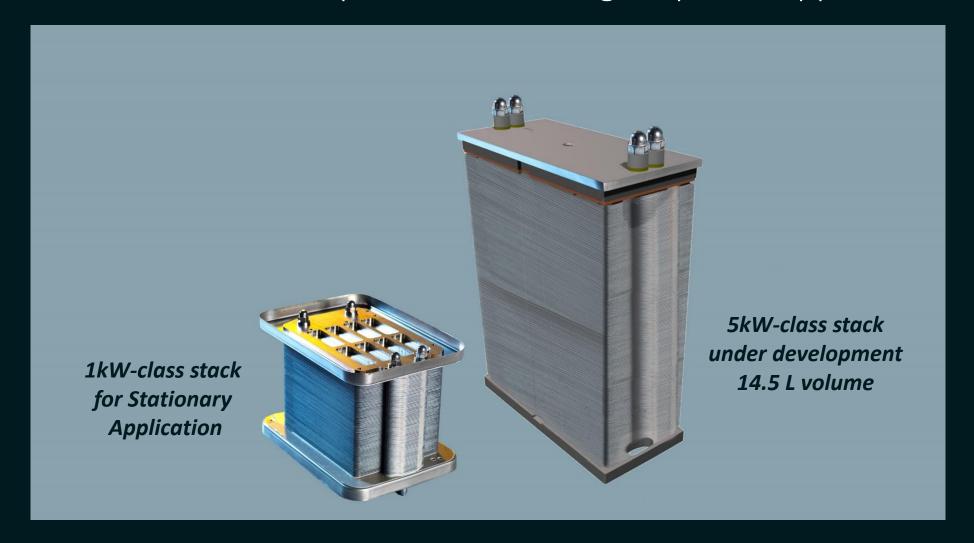
Specification

- Weight 11 kg
- Volume 5 l
- Cells ~100/stk
- Dimensions:
 - W 190mm
 - D 140mm
 - H 180mm
- Sealing by welding and
- compressive gaskets
- Ease of assembly for
- mass manufacture





5 kW class Stack Development enables higher power applications



Steel Cell technology product platforms



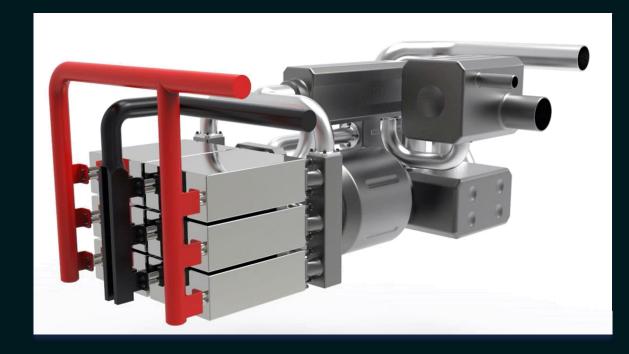
~10kW system for Data Centres

~1kW micro CHP



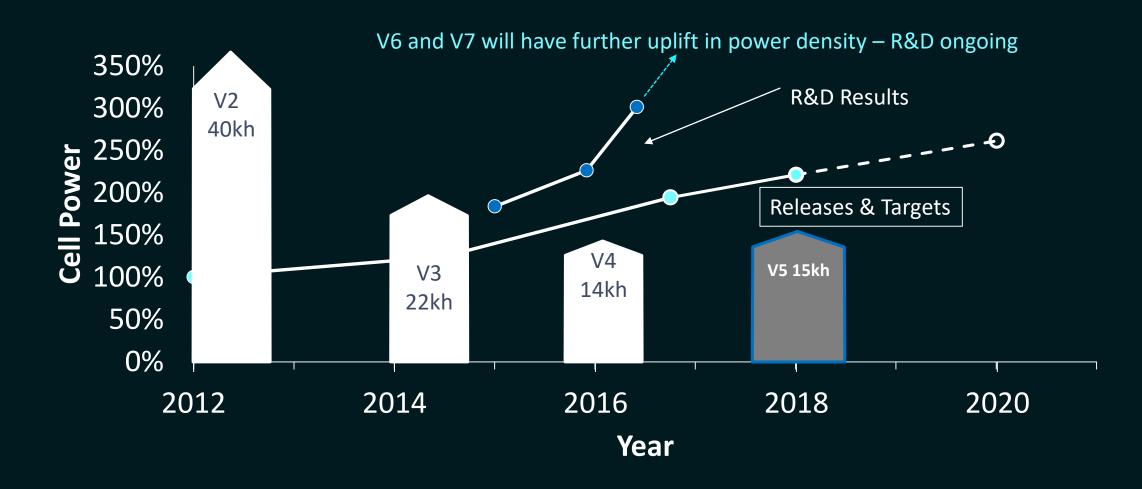


~30kW system for Battery Electric Buses



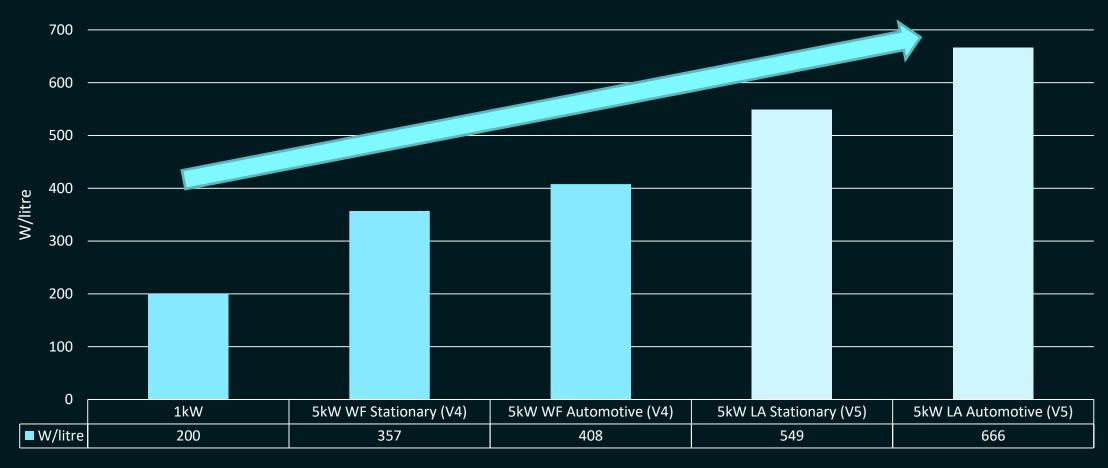


Continued improvement of power density and maturity of technology





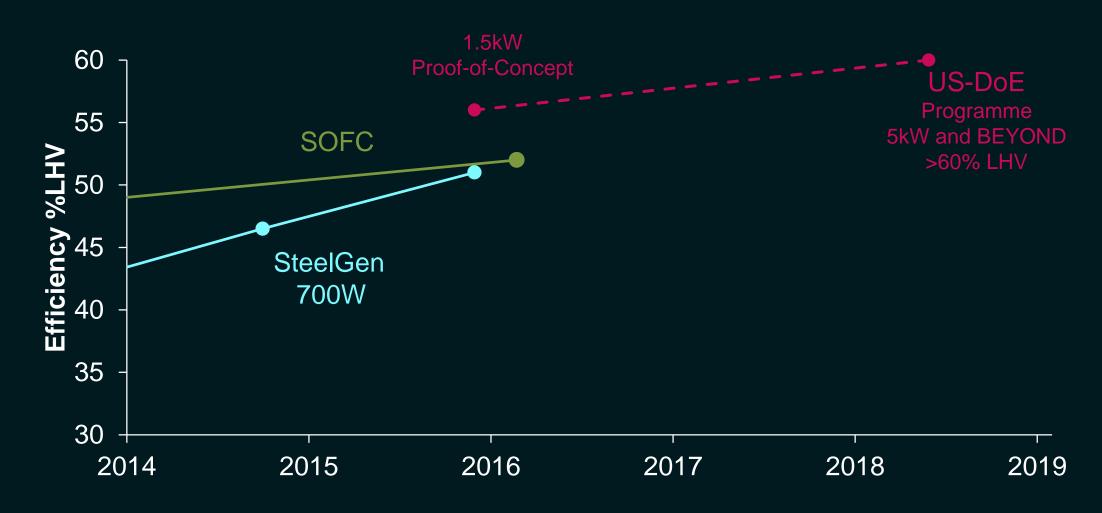
Stack Volumetric Power Density Projections



WF: Window Frame LA: Large Area

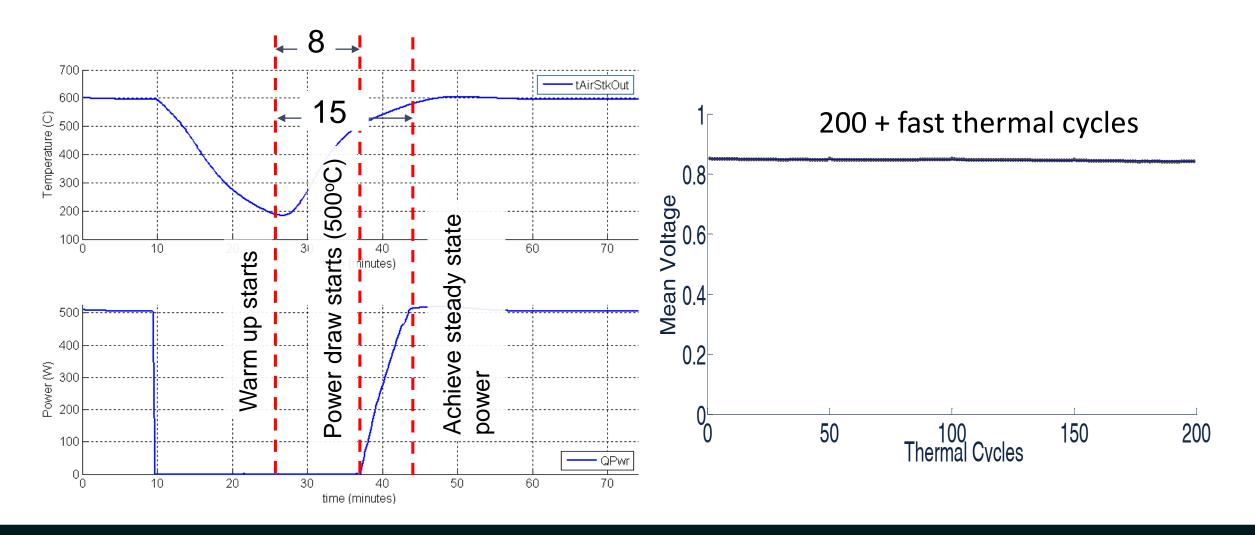


Fuel Cell Power System – Multi-kW Prime Power



Steel cell stacks capable of <10min start-up for transportation applications









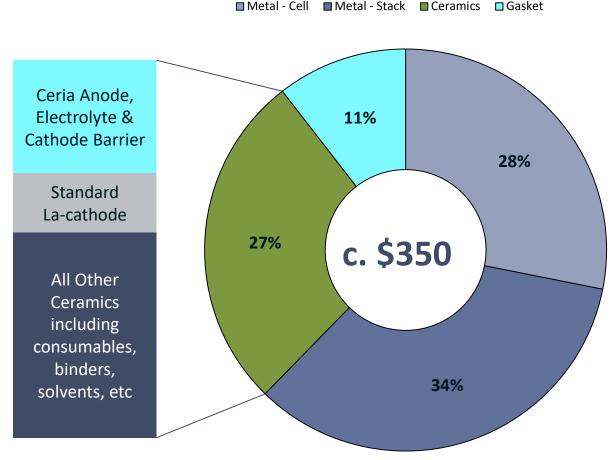
Ceres Stack Cost Breakdown 700W µCHP Class

At 100k 1kW units per year material cost c.350US\$

All ceramics purchased from global suppliers.

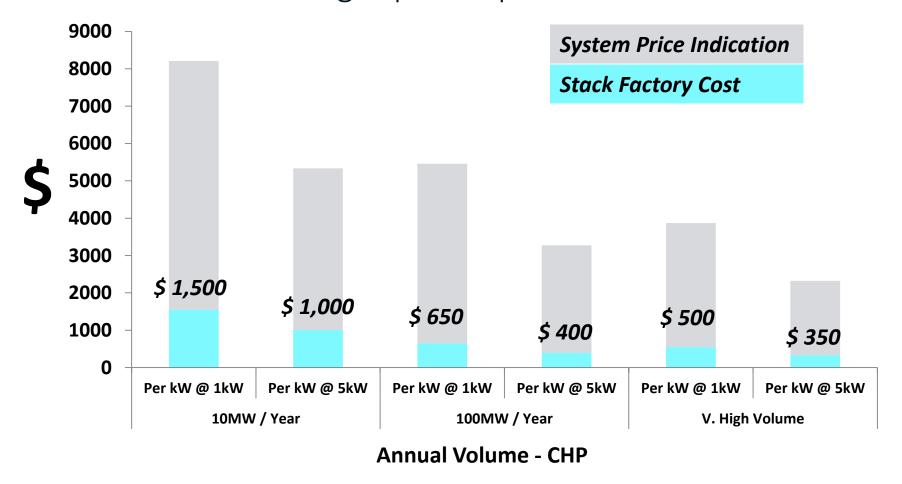
No exotic or hard to source rare earth metals are used.

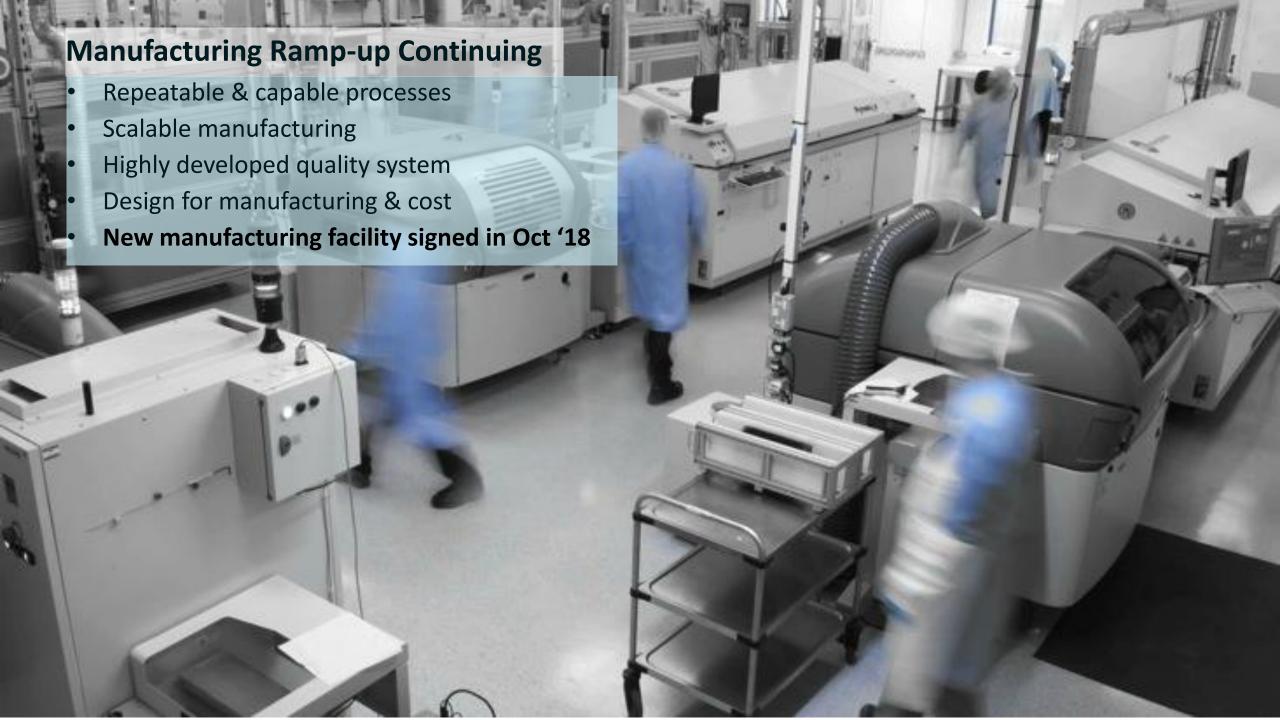
Ceres has never experienced supply interruptions, costs of all Ceres rare earth components have dropped in the last 5 years





Costs per kW for 1kW and larger power products meets market needs







Steel Cell is ready and being commercialised

World class technology - still getting better

Multiple go-to-market partners in key market sectors – and growing

WE THANK HTC FOR THEIR SUPPORT TO MAKE THIS FUTURE POSSIBLE !!!!



Thank you

S. Mukerjee

Director of Fuel Cell

Development

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