Our next generation

SteelCell™



Power for the Energy Transition











Interim Results for the six months ended 31 December 2018

Phil Caldwell CEO Richard Preston CFO





INTERIM HIGHLIGHTS

Commercial

- Strategic partnerships signed with Bosch and Weichai including equity Investment and License deals
- Revenue growth 168 % driven by high margin licenses

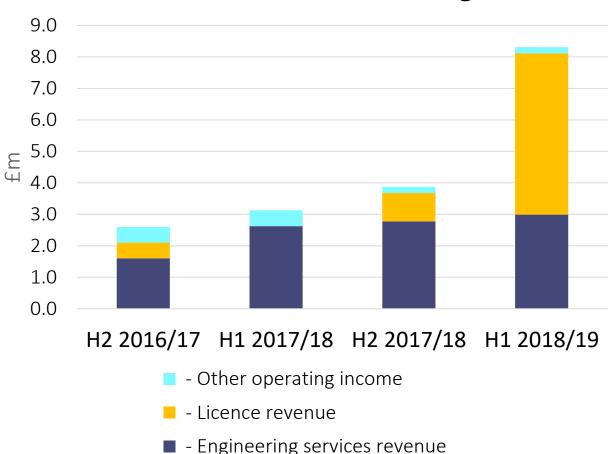
Financial

- Operating loss halved from £6.2 m to 3.0m
- Underlying equity free cash outflow reduced by 29%
- £78.4m in cash at 31 December 2018
- Fully funded to execute business plan

Technology and Operations

- £7.5 m UK reference manufacturing facility on track
- V5 Cell technology released enabling key milestone of 60 % net efficiency, ~2 x conventional combustion engines and competing with grid power

Licence revenue drives revenue growth



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OUTLOOK

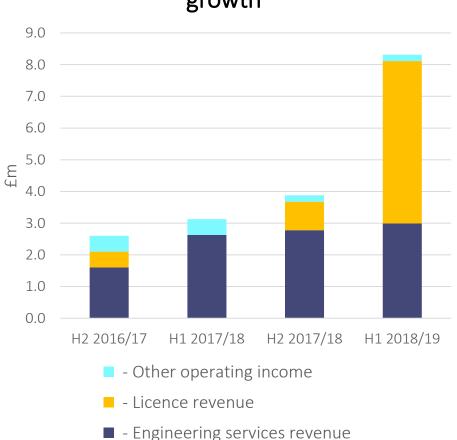
- Strong revenue growth with strategic partners
 - Revenue to double for fourth consecutive year to £15 m 2019 @ > 50% gross margin
 - Order book >£30m Engineering services and license revenue
 - Healthy pipeline with new partners at evaluation stage
 - Target an additional strategic partner in 2019
- Field trials with OEM partners 2019
 - Development of world first SOFC hybrid electric bus in mid 2019
 - Leading to small fleet trial and China JV in 2020
 - Other significant partner milestones due in 2019 on different applications from 5 to 30 kW
- Investment in UK manufacturing site 2 MW reference plant and short-term capacity
 - Operational in the UK and with Bosch in Germany in 2020
- Potential to grow manufacturing with partners e.g. Weichai and Bosch in the future

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Financial highlights – income and margin

Licence revenue drives revenue growth



£m	HY	HY	Change Change	
	2018	2017	£m	%
Revenue and other operating income	8.3	3.1	5.2	168%
- Licence revenue	5.1	0.0	5.1	
- Engineering services revenue	3.0	2.6	0.4	14%
- Other operating income	0.2	0.5	(0.3)	(60%)
Margin on revenue %	82%	46%		
Order book at period end	30.5	4.1	26.4	644%

Order book increase due to Bosch and Weichai

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Financial highlights – income statement

£m	HY 2018	HY 2017	Change £m	Change %
Gross margin	6.7	1.2	+5.5	458%
Operating costs	9.8	7.9	(1.9)	(24%)
Underlying operating costs ¹	9.1	7.9	(1.2)	(15%)
Operating loss	(3.0)	(6.2)	(3.2)	52 %
Income tax credit	0.9	1.0	(0.1)	(10%)
Loss for the financial period	(1.9)	(5.2)	(3.3)	63%

- Operating loss improved 52%
- Underlying operating costs 15% increase due to investment in people, capability and infrastructure to enable deliver of customer contracts.

¹ Underlying operating costs is operating costs less one off legal fees to complete the two strategic deals with Weichai and Bosch (2018: £0.5m, 2017: nil) and unrealised losses on FX contracts (2018: £0.2m, 2017: £0.1m)

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Financial highlights – cash flow

£m	HY	HY	Change £m	Change %
	2018	2017		
Operating cash flows	(2.0)	(5.1)	3.1	(61%)
Changes in working capital	(1.2)	(0.2)	(1.0)	500%
Cash used in operations	(3.2)	(5.3)	2.1	(40%)
Capital expenditure	(1.4)	(0.7)	(0.7)	100%
Tax received in the period	-	1.9	(1.9)	(100%)
Underlying equity free cash flow ²	(2.9)	(4.1)	1.2	(29%)
Net cash & financial assets	78.4	13.2	65.2	494%

- £76m cash in from Placing and strategic investments
- New manufacturing site investment cash outflows of £1.5m
- Underlying cashflow improved 29%

2019

² Change in net cash and cash equivalents and short-term investments, excluding cash flows from financing activities and investment cost for property, fit out costs and the equipment for the new manufacturing site



FINANCIAL SUMMARY

New revenue streams and investment in the business and the new facility

- New licence revenue drives increase in revenue and gross margin
- Underlying opex increased 15% to build the business for new customers
- Operating losses halved
- Capex increased as invest in new facility
- Underlying equity free cash outflow reduced by 29%

£78m in cash at 31 December 2018. Fully funded to execute business plan

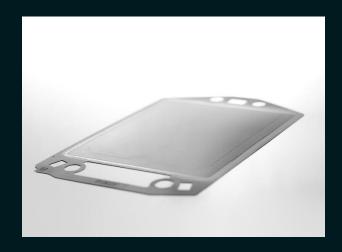


Who we are and what we do



- Unique Fuel Cell Technology Imperial College
- High growth UK tech company ~200 employees
- High margin asset light license model
- ~£220 m Mkt cap AIM
- Fully funded £78 m cash and £30 m order book
- 50 patent families





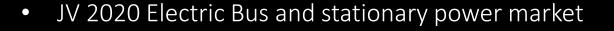
World leading developer of SteelCell® low cost, non combustion power generation technology

- Lowers CO2 emissions
- Improves Air Quality
- Provides energy security
- Enables EV's and balances renewables

Global power system and engine customers









Manufacturing scale up/ Data centre and commercial



• Power systems for Data Centre

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Commercial Scale CHP



- Electric Vehicle Range Extender
- Stationary power applications

Global drive for electrification and clean distributed energy



Air Quality

- Rise of Mega Cities
- Pollution from combustion engine vehicles

Balancing renewables

- Renewable energy cheapest form of power generation
- Balancing intermittency key challenge
- Disrupting centralised generation model



Climate Change

- Challenge to decarbonise energy system
- Power, heat and transport

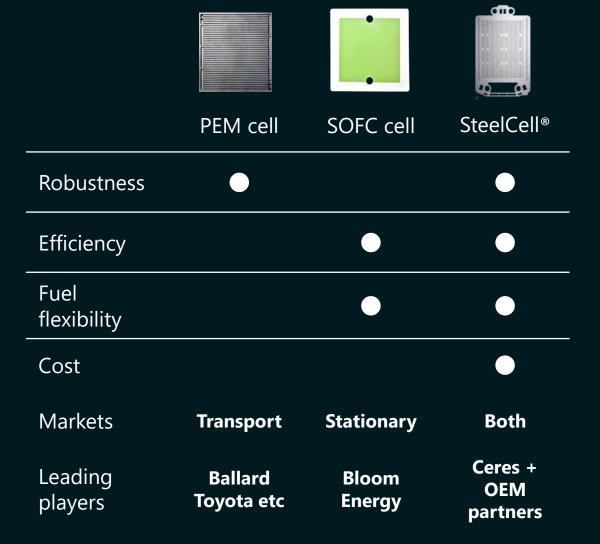
Electric vehicles

- Increasing adoption of EVs in both consumer and commercial markets
- Fuel cells and batteries are key technologies
- Pressure on charging infrastructure



Why is SteelCell® the solution?

- Affordable Solid Oxide Fuel Cell for mass adoption
- Made from conventional steel with small amounts of ceramic
- Uses conventional high volume manufacturing equipment from Solar PV industry
- Fuel flexible: operates on Natural Gas/Liquid fuels/Bio fuels/Hydrogen
- Robust for use in both stationary power and transportation applications

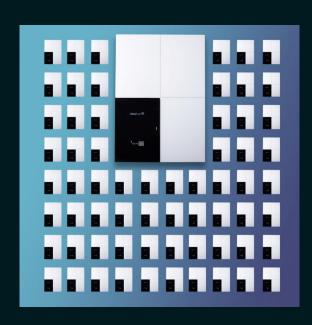


Ceres enables transition from combustion to electrification

De-centralised Power

Electric vehicles









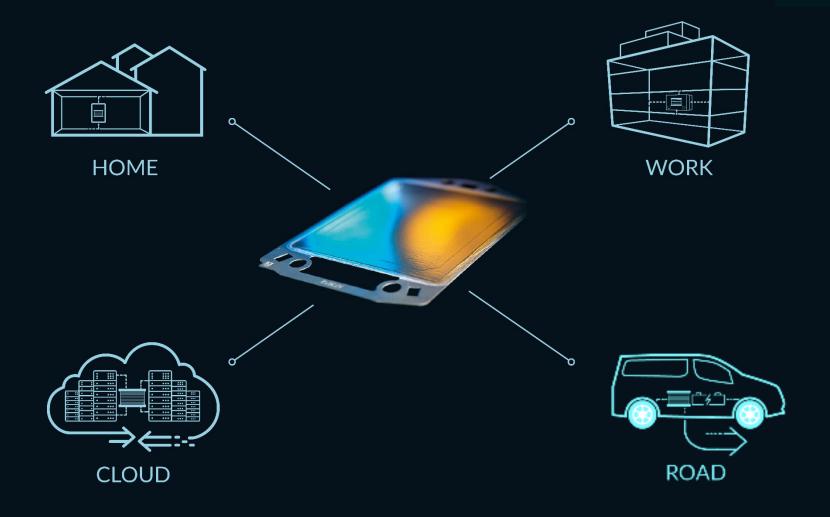
- Balance renewables
- Higher efficiency than centralised grid 30 % less energy and carbon
- Distributed power generation at home or Business
- Addresses air quality
- Low to zero emission SOx / NOx
- Range extender for EVs in commercial vehicle markets
- Grid reinforcement for vehicle charging

- Data centres use > 2 % global power
- Fuel cells offer cleaner distributed power
- Saving energy and CapEx
- Reliable on site generation

Rapidly growing Fuel Cell market predicted to reach \$25Bn by 2025

Applications for the SteelCell®





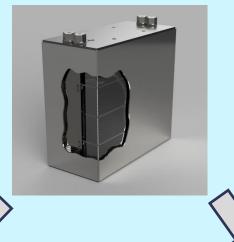
1kW Stack



1kW home system



5 kW Stack



5 & 10kW Commercial/ Data **Centres**

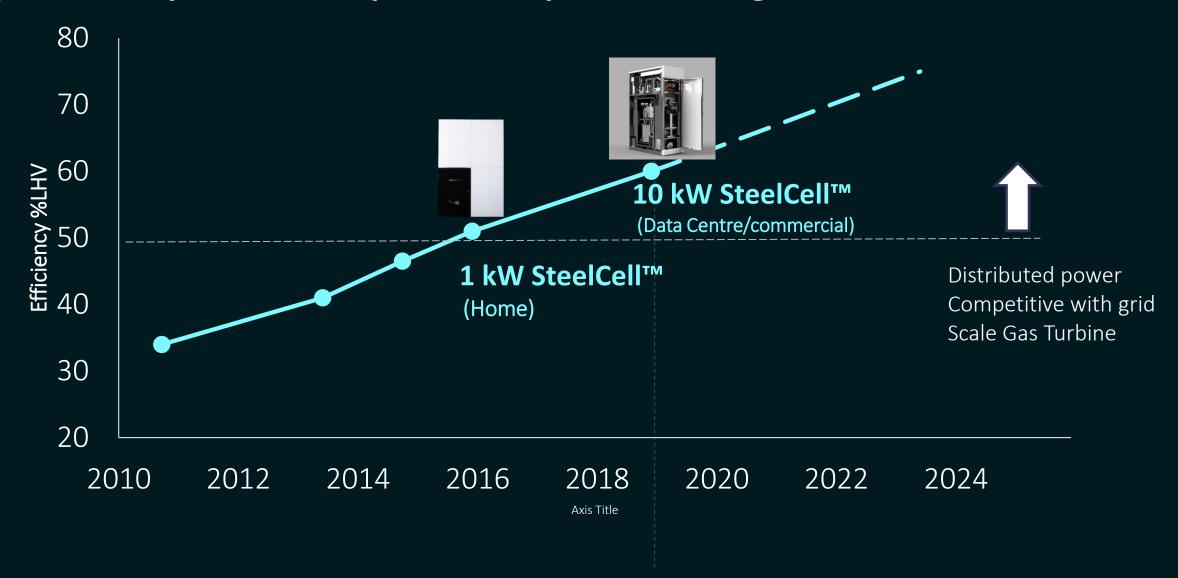


30kW + for Hybrid EV Buses 100kWs + Power generation

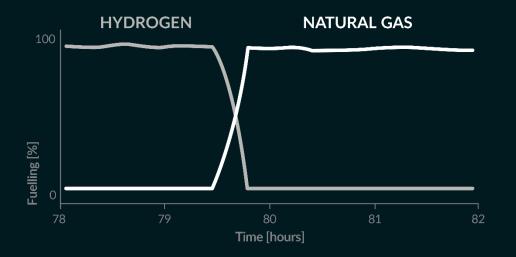


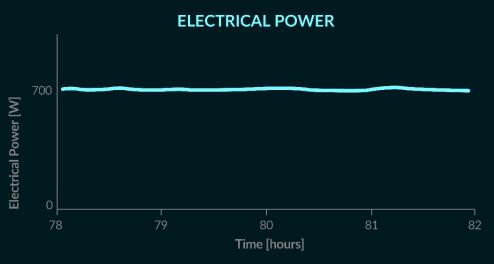


High efficiency distributed power competitive with grid....



...and ready for a Hydrogen Future tomorrow



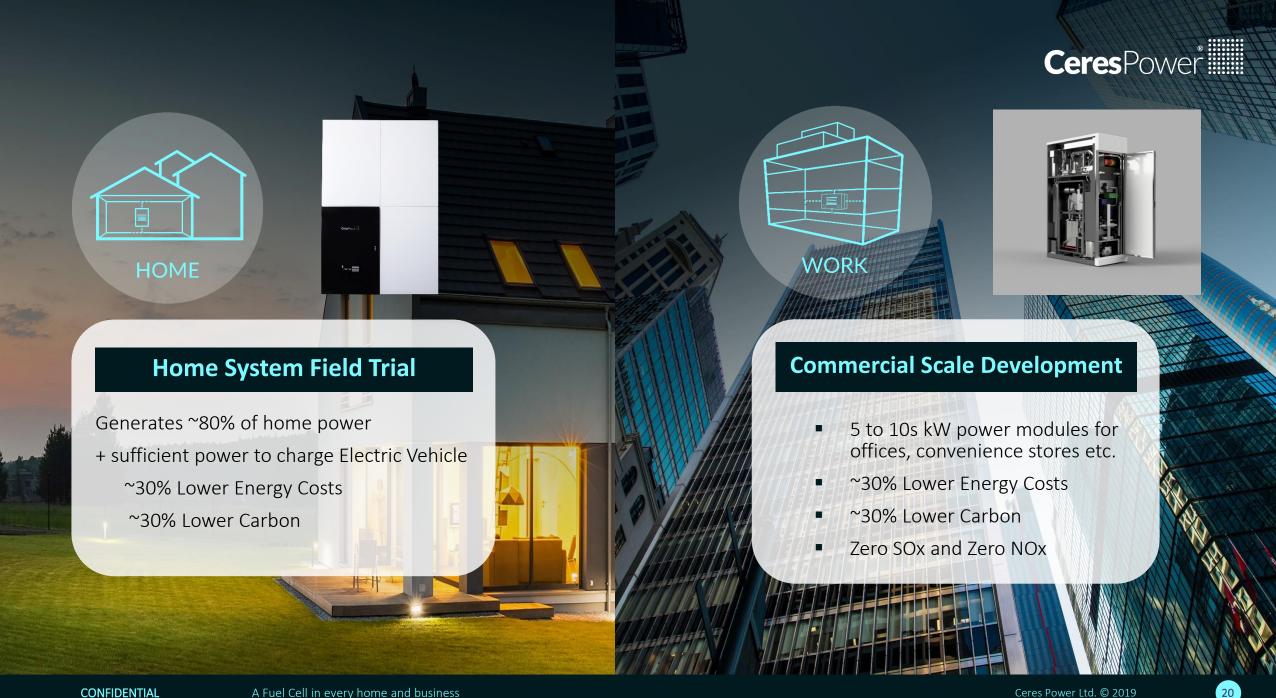


Real experimental data with OEM partner





CONFIDENTIAL A Fuel Cell in every home and business



A Fuel Cell in every home and business Ceres Power Ltd. © 2019

Bosch



Strategic collaboration

- Expertise in manufacturing and product development
- Bosch Invested £9m in Ceres for 4 % stake
 - + £20m license and JDA revenues to 2020

Multiple market applications

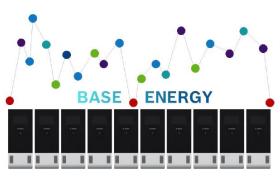
 Small power stations for cities, factories, datacentres and EV charge points

Manufacturing capability

- Industrialise 5 kW stack for scale up and manufacture
- World leader in ceramics manufacture
- Support manufacturing scale up in UK
- Parallel low volume manufacture at Bosch in Germany









bution, as well as in the event of applications for industrial property rights



Weichai Power



Strategic collaboration

- Invested £48m in Ceres for 20% of ISC
- Licence Agreement and JDA for up to £39m
- Establish manufacturing 49:51 JV in China 2020

Market opportunity

Access to China - the fastest growing fuel cell market

- One of the world's largest automobile and equipment manufacturing groups
- Produces 600k engines per year, c.30k buses and 150k heavy duty trucks
- Significant stationary power business
- Initially 30 kW power systems for EV scaleable to higher power applications

International track record

Track record of high growth Hong Kong and Shenzhen exchanges with a market cap of c.US\$10bn

• Kion Group AG (MDAX-listed in Germany), Ferretti in Italy





How we work with Partners



1. Joint Product development



Engineering Services (2 – 3 years)

6 JDA partners

2. Technology Transfer License



Up Front License Fees (~3 years)
\$\$

3 Tech Transfer License partners

3. Multiple applications across range of markets



Future Royalties per kW
At start of production
\$\$ Recurring revenues

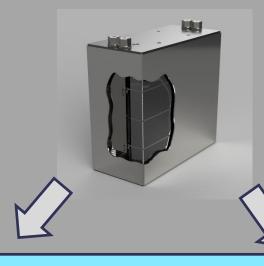
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1kW Stack









1kW home system

5 & 10kW Commercial/ Data Centres

30kW + for Hybrid EV Buses 100kWs + Power generation







UK Manufacturing enables global licensees



R&D in **Horsham UK**



2021 2018 2019 2020

UK Technical Centre develops next generation V5, V6 & V7 SteelCell®

Annual capacity equivalent in units:







30kW

1kW

10kW

datacentres

CP2 Reference plant



Phase 1 → 2 MW

Phase 2 → 3 to 10 MW 200

10,000

2,000

1,000

0.25

Potential 100 MW plants Europe

China JV & ROW

Mfrg License

Manufacturing License China JV

100,000

10,000 2-5

3,000

300

Manufacturing License

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A Fuel Cell in every home and business

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UK's first SOFC Fab: CP2 Reference plant





£7.5 m Investment creating ~60 skilled jobs in UK Will provide near term capacity for customers Manufacturing tech transfer to partners eg Bosch

- ✓ Fitout completion Q1 2019
- Equipment installed Q2 2019
- Site training and validation H2 2019
- Phase 1 Launch 2020 at 2MW per year



Located nr Redhill – M23/M25 Junction

Global Multi Billion \$ Opportunity



- Highly scalable business OEM partner & licensing technology
- Replaces conventional engine and power generation
- Enabler for EV roll out and supports increase in renewable energy

Possible annual gross margin

Up to 5% market share at up to \$140 gross margin / kW



Outlook



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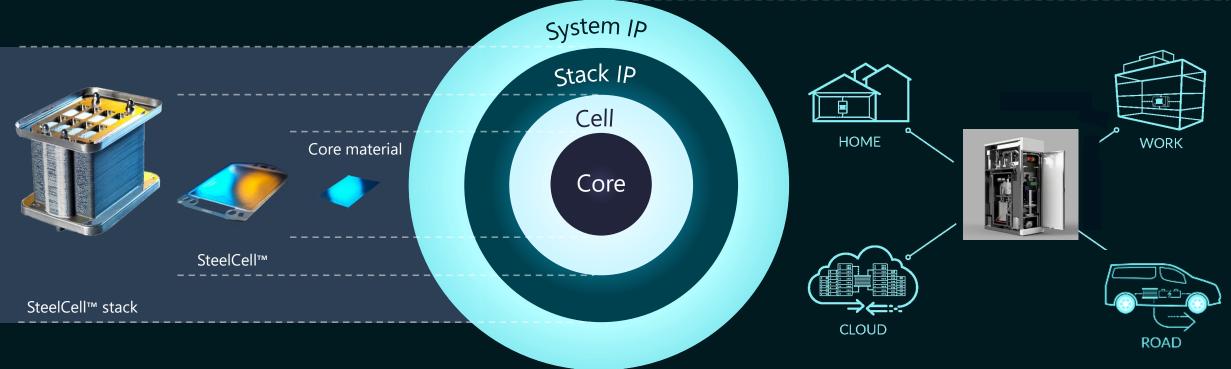


Licensing strategy



Manufacturing License / JV

System License by market application



BOSCH

China JV

