## ceres

# CERES AND BOSCH MASS PRODUCTION PLANS FOR 2024 <br> 7 December 2020 <br> CLEAN ENERGY STARTS WITH CERES 

## Ceres and Bosch reach key milestone

- The close collaboration between Ceres and Bosch reaches a key milestone as Bosch now prepares for mass production
- Bosch plans to scale up its current SteelCell® ${ }^{\circledR}$ systems production to 200 MW in 2024
- Total deal value of up to $£ 23$ million from 2021 to 2023 , of which c. $£ 6 m$ is conditional on meeting certain KPIs based on performance
- Production of stacks and systems will take place across multiple sites in Germany
- The stacks will initially satisfy demand for Bosch decentralised power plants in cities, factories, trade and commerce, data centres and electric vehicle charging infrastructure
- Further validates the Ceres licensing business model, with significant royalty revenues now anticipated following mass manufacturing launch


## Bosch's ambitions to scale system manufacture

- Bosch estimates that the market for decentralized power generation will reach $€ 20$ billion by 2030
- SOFC systems will be a key technology for Bosch in meeting this demand for stationary power
- SOFC systems can be operated with eco-friendly biogas or natural gas - and are already hydrogen-compatible for the energy system of the future.
- Currently more than 250 Bosch associates are supporting the development and manufacture of SOFC systems
- Bosch estimates that it will invest 'hundreds of millions of euros by 2024 ' in its manufacturing facilities


## Deepening our relationship with a key trusted partner

## August 2018

£20m Collaboration and Licence Agreement, with Bosch investing $£ 9$ million in Ceres equity, a stake of around 4\%

January 2020
Bosch increases its investment
in Ceres to c18\%. Uwe Glock
appointed to the Ceres Board
in June 2020
December 2020

Bosch signs Joint
Development
Agreement with Ceres
on a no-names basis

Bosch starts initial lowvolume production of pilot systems in Bamberg, Germany

Progression of strategic collaboration to scaling up towards mass production in 2024

## Structure of the deal

- Following a successful manufacturing prototype phase Bosch plans to become manufacturer of stationary fuel cell systems based on Ceres technology
- Demand for these systems will be initially satisfied by production from Bosch's Bamberg, Wernau and Homburg production sites with development continuing in facilities in Stuttgart-Feuerbach and Renningen
- SteelCell® ${ }^{\circledR}$ stack production could expand to meet future third party demand
- Builds upon the initial two-year collaboration and licensing agreement signed in August 2018 to develop 5 kW technology and manufacturing capability, worth $£ 20$ million to Ceres over two years



## Revenue evolution



## Scaling the SteelCell® ${ }^{\circledR}$ ecosystem

## STACK

Target global manufacturing partners to supply cells and stacks to system OEMs in regions of greatest demand


## SYSTEM

Moving into higher power systems and broadening applications in each region (through direct and shared system licensees)

|  | CHP | Data Centre | HD <br> Vehicle | LD <br> Vehicle | Dist. <br> Power <br> Gen | Utility Gen. | Marine Train |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0-5kW | $\bigcirc$ |  |  |  |  |  | $\bigcirc$ |
| 5-20kW | $\bigcirc$ | $\bigcirc$ | $\bigcirc$ | $\Rightarrow$ | $\bigcirc$ |  |  |
| 20-200kW |  |  |  |  |  |  |  |
| $\begin{aligned} & 200- \\ & 1000 \mathrm{~kW} \end{aligned}$ |  |  |  |  |  |  |  |
| 1MW+ |  |  |  |  |  |  |  |

## Summary

- A major milestone for the company as Bosch starts scaling up to system mass manufacture
- Significant value to Ceres: £23 million over next three years, £6 million subject to KPIs
- Substantial capacity anticipated to drive royalty revenues: 200MW by 2024
- Further validation of the Ceres licensing business model, with two global manufacturing partners now committing to the mass market launch of SteelCelle technology



