Energy management

SASB Code	Metrics	2020	2021	2022	Comments
RR-FC-130a.1	(1) Total energy consumed	6,954,308 kWh	7,699,744 kWh	8,653,665 kWh	Also found in the 2022 Sustainability Report, p.5
	(2) Percentage grid electricity	100%	100%	100%	
	(3) Percentage renewable	25%	100%	100%	From October 2020, 100% of Ceres' electricity has been sourced from zero-carbon sources, certified by TotalEnergies with relevant Renewable Energy Guarantee of Origin ("REGO") certificates.

Workforce health & safety

SASB Code	Metrics	2020	2021	2022	Comments
RR-FC-320a.1	(1) Total recordable incident rate	0.38	0.36	0.18	
	(2) Fatality rate	0%	0%	0%	Ceres has zero Reports of Injuries, Diseases, and Dangerous Occurrences (RIDDORs) year-on-year.
RR-FC-320a.2	***Description of efforts to assess, monitor, and reduce exposure of workplace to human health hazards*** Ceres is committed to ensuring the health and safety of everyone who works for or has contact with our Company. Our health and safety team is embedded across all our operations and supports the wider team in implementing best practice across the business. All employees receive detailed health and safety inductions and annual refresher courses. We recognise that health and safety is everyone's responsibility, and we encourage a culture of transparency and improvement. Accidents, incidents, near misses and safety improvements are recorded electronically through our HSE issue reporting system. Weekly safety reports are provided to the Executive management for review and both UK sites are subject to monthly safety audits. Health and safety is a standing agenda item at weekly delivery meetings, every All Hands – our monthly all company meeting – and meetings of the Board of Directors. The Company seeks to maintain effective systems, plans and training for managing the health, safety and welfare of all our employees and, in addition, for managing the environmental impact of our operations, to ensure that all risks are properly assessed and controlled, so far as is reasonably practicable. It is Company policy to consult with employees, partners, suppliers and contractors on health, safety and environmental issues to minimise risk and to continually improve the accident record.				

Product efficiency

SASB Code	Metrics	2020	2021	2022	Comments
RR-FC-410a.2	Average energy efficiency of fuel cells as (1) electrical efficiency and (2) thermal efficiency, by product application and technology type	-	Electrical efficiency: 60% Thermal efficiency: +25% Combined heat and power mode: 85%	Electrical efficiency: 60% Thermal efficiency: +25% Combined heat and power mode: 85%	Ceres' solid oxide fuel cell technologies provides highly efficient, scalable, fuel flexible and environmentally friendly power generation systems in many applications. They exhibit a base efficiency of 60%, which can be as high as >85% when endogenous heating is used for heating and hot water.
RR-FC-410a.4	Average operating lifetime of fuel cells, by product application and technology type	-	~ 40,000 hrs	~ 40,000 hrs	The gold standard for commercial products is around 10 years in service, however as innovators in nascent technology, we cannot wait for ten years to testing products in operation. Ceres has partnered with Horiba Mira to validate our product's lifetime with extensive testing in a multitude of conditions. To supplement this, we have developed trusted digital twins, or models, to provide faster insights into our performance under various conditions with reliable accuracy.

Product end-of-life management

SASB Code	Metrics	2020	2021	2022	Comments
RR-FC-410b.1	Percentage of products sold that are recyclable or reusable	-	-	Technology not yet achieved commercial scale	As a licensing business model, Ceres embeds end-of-life and recyclability consideration into products our partners manufacture. We understand the importance to look beyond carbon impact to consider the circular economy of raw materials. We plan to undertake a full evaluation of the end-of-life recyclability or reuse of our technology, cradle-to-grave. With this data, we will seek to embed sustainability considerations into the heart of development and the transfer of IP under licence to our partners.
RR-FC-410b.2	Weight of end-of-life material recovered, percentage recycled	-	-	Technology not yet achieved commercial scale	The stack uniquely comprises over 95% automotive grade steel by weight, the most widely recycle material globally. This gives our technology a distinct advantage over comparative fuel cell technologies at the end of their life. In our own limited manufacturing onsite, approximately 40% of the steel used is recycled steel.
RR-FC-410b.3	***Description of approach to manage use, reclamation, and disposal of hazardous materials*** Currently 62% of waste materials are recycled at our Horsham site and 82% at our Redhill site, with the remainder being segregated and audited to avoid the landfill wherever possible. Ceres is proud to have achieved an ISO14001:2015 certification (EMS 761891) since 2021 for its Quality Management Systems, encompassing all aspects of our operations from manufacturing to the wider organisation.				

Materials sourcing

SASB Code	2022 Comments
RR-FC-440a.1	***Description of the management of risks associated with the use of critical materials*** A large benefit of our breakthrough technology is that we can use commonly found materials to build our cells. Ceres uniquely uses an automotive-grade steel comprising 95% of our current generation's stack mass, where we currently use approximately 40% recycled steel. Ceria, the most abundant rare earth and a commonly found material, forms the active chemistry of our cells and precious metals account for less than 2% by weight of our stacks, considerably lower than conventional electrode supported solid oxide technology. As the design authority and as production of our cells scale, embedding sustainability considerations into our design becomes increasingly important. Given this, we have undertaken a cradle-to-gate life cycle assessment to give clarity to the environmental impact of the production of our current generation 5kW stack and legacy 1kW stack for comparison. We continue to look beyond our own emissions and decisions on next generation technology are already being made with consideration to further reduce carbon intensity.

Activity metrics

SASB Code	Metrics	2020	2021	2022	Comments
RR-FC-000.A	Number of units sold	-	-	Not applicable to Ceres' licencing business model	Ceres' business model consists of selling its IP to partners to enable the scale up of our technology. This includes both the manufacture of our cells and stacks, and the assembly of full systems. Therefore, accounting for numbers of our manufacturing and system assembly partners gives an accurate estimate as to the production of our technology. Two of our partners, Bosch and Doosan, have begun commissioning their factories with a capacity of 200 MW and 50 MW, respectively. The factories are expected to begin production in late 2024.
RR-FC-000.C	Total energy production capacity of fuel cells sold	2MW	3MW	Pilot production capacity: 3 MW	To produce demonstration and test products and develop manufacturing automation techniques for our stacks, Ceres has a small pilot production facility in Redhill, UK. This is insignificant compared to the planned manufacturing capacity of our partners.

Ceres has elected to remove references to batteries, which are not within our scope of business.
For any additional information, please see our 2022 Sustainability report published here.