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Delivering a key strategic milestone in Hydrogen Technologies



JM and Plug agree long-term strategic partnership



Partnership covers

- Extension of supply of existing products from 2023
- New supply and joint development agreement to at least 2030
- Co-investment in new US manufacturing capacity of 5GW scaling to 10GW over time



Underpins targeted sales in Hydrogen Technologies of more than £200m by the end of 2024/25, and an acceleration of growth thereafter



The global hydrogen market is accelerating

Key markets:

US:

Inflation **Reduction Act** transforming clean energy markets



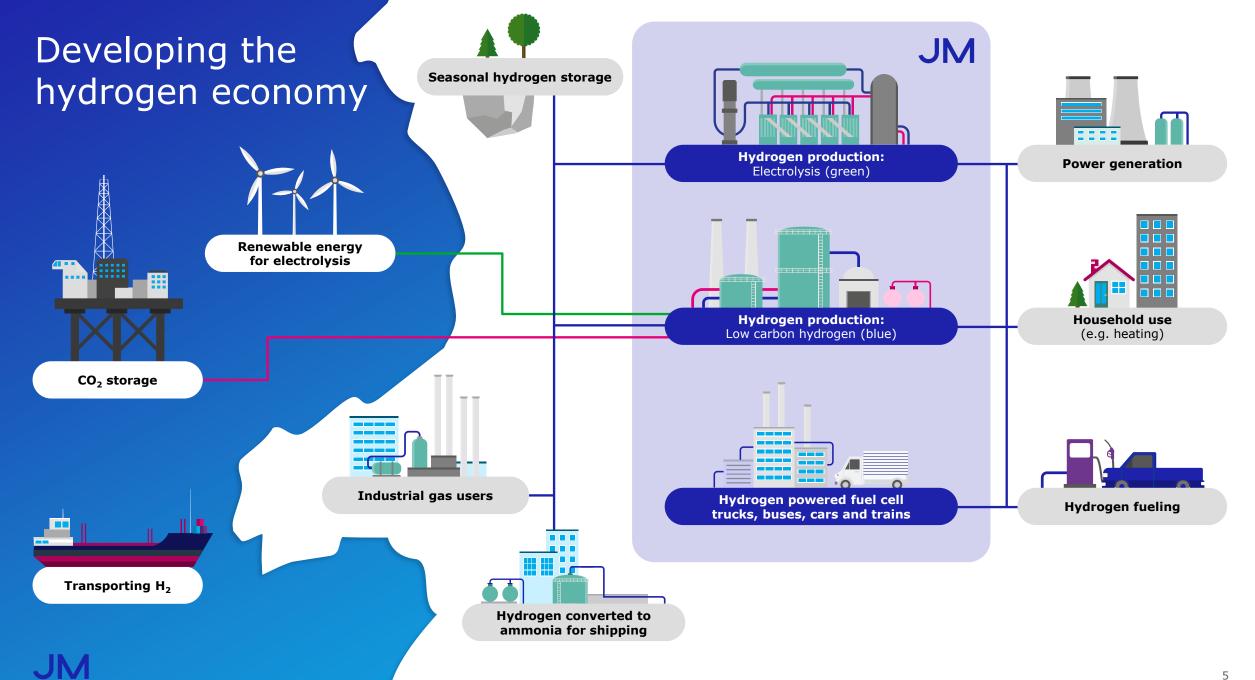
Clean hydrogen demand is expected to grow more than one hundred fold in the 10 years to 20301



Europe:

security

China:



PGM based raw materials

global refined PGM supplier and secondary recycler



JM

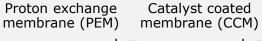
Components

JM

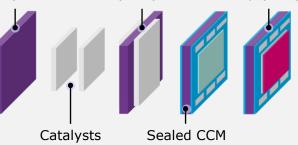
CCMs drive performance in the fuel cell and electrolyser

- closed loop objective Contect cling -JM and Plug partnership accelerates

deployment of fuel cells and electrolysers



Membrane electrode assembly (MEA)



Applications



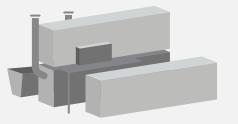






Stack assembly

to make fuel cells and electrolysers









Stack



A collaborative relationship to accelerate growth

Established hydrogen fuel cell business

Expertise in PGM chemistry and catalysis

Existing manufacturing with extensive process development

Reliable supply of scarce, critical metals

Leading PGM recycler with objective to provide closed loop offering



A leading provider of turnkey hydrogen solutions for the global green hydrogen economy

Key customer relationships:



Walmart 🔆





Strong demand targeting sales of US\$5bn by 2026 and US\$20bn by 2030

Strong balance sheet with over US\$3.5bn in cash and liquid investments to execute on growth objectives





JM to be a **lead supplier** of MEA components including CCMs, catalysts and membranes – supplying a substantial portion of Plug's demand

Supports delivery of Plug's next generation technology roadmaps

Supply and joint development agreement to at least 2030

Supply of **existing products from 2023**, and **future generations** of technology

JM contributing expertise in **sourcing, managing and recycling PGMs**

Co-investment into new manufacturing capacity in the US – expected to be the largest CCM production facility in the world

Co-investing into dedicated capacity in the US



Building new plant in US, with capacity of **5GW scaling to 10GW** over time Production expected to commence **2025**



Plug responsible for construction of the building and related site services



JM will **provide** and **operate the equipment**

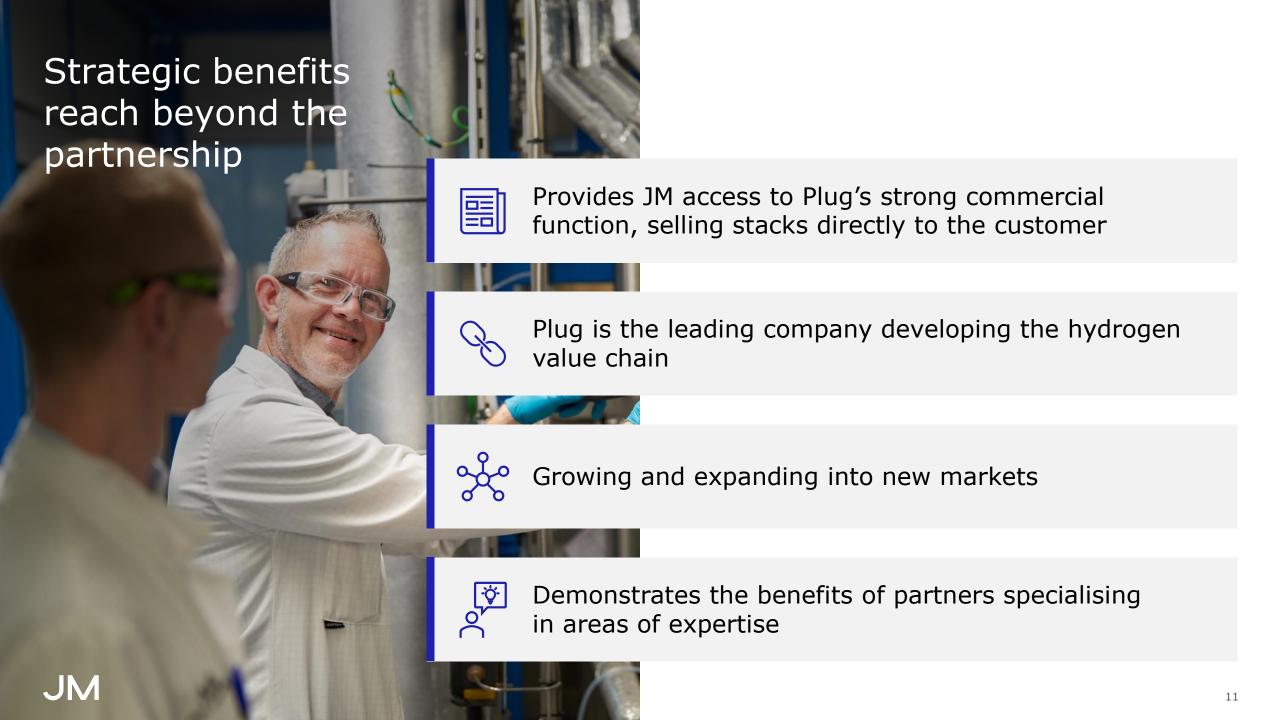


JM investment broadly included within **£1bn** group capex guidance to 2024/25





Andy Marsh
CEO Plug Power



Strategic partnership to accelerate the hydrogen economy

01

Delivering on key strategic milestone

02

Step-change in development of Hydrogen Technologies

03

Significant proof point of JM's ability to be **leading global supplier** of CCMs

04

Underpins targeted sales of more than £200m in Hydrogen Technologies by end of 2024/25, and an acceleration of growth thereafter

Catalysing the net zero transition

