

EDF led study demonstrates the benefits of Ceres electrolysis tech for hard to abate industry

In 2022 Ceres joined EDF in a UK government funded project. The aim of the project was to demonstrate how solid oxide electrolysis cell (SOEC) technology integrated with nuclear heat and electricity can provide low carbon, low-cost hydrogen via novel, next generation composite storage tankers to distributed sites located in the locality of Heysham nuclear power station.

The project also investigated the feasibility of using hydrogen as a fuel at asphalt and cement sites, which has the potential for drastic carbon reduction, supporting the UK's net zero mission.

Coupling solid oxide electrolysis cell technology with nuclear heat and electricity increases hydrogen production efficiency **by 20%*** when compared to PEM

