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ABSTRACT

This presentation provides a comprehensive overview of the current state and future prospects of the green hydrogen sector, with a focus on Europe, noting that while the sector is expected to grow significantly worldwide, the growth in Europe has been slower than anticipated. Despite this, there is a substantial market opportunity in the medium term.

The presentation also introduces Bondalti's H2 Enable project, which aims to produce green hydrogen using alkaline electrolyser technology at their Estarreja site in Portugal. The project has a production capacity of 4.8 kton/year and consumes 290 GWh/year of renewable electricity.

Challenges in the green hydrogen sector include high production costs and low subsidies in Europe. However, there are opportunities for more competitive green hydrogen production, particularly from chlor-alkali electrolysis, which has a lower levelized cost of hydrogen (LCOH) compared to water electrolysis. The presentation concludes with a discussion on the marketing strategies for green hydrogen, emphasizing the importance of patience, partnering, perseverance, and proactivity.

Keywords:

Hydrogen, challenges, opportunities