bp and Iberdrola start operation of green hydrogen plant at Castellón refinery

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bp and Iberdrola have started operations at their 25MW green hydrogen plant at bp's Castellón refinery, which supplies fuels to customers in Spain and the wider European market.

The plant, developed by the 50/50 joint venture and operated by bp, is currently the largest green hydrogen plant operating in Spain. It's expected to produce around 2,800 tonnes of green hydrogen a year. Iberdrola supplies the plant with 170 GWh a year of renewable electricity from its Spanish wind and solar farms under a power purchase agreement.

Hydrogen is an essential part of the refining process at Castellón. Replacing some of the grey hydrogen used today with green hydrogen is expected to avoid around 23,000 tonnes of CO2 emissions a year and help lower the refinery's carbon costs.

Brenda Stout, SVP refining, terminals and pipelines at bp, said: "Our European refineries play an important role in energy security. Closely integrated with our supply, trading and shipping business, they' re helping to meet customer demand for jet fuel, diesel and gasoline. The start-up of the green hydrogen plant with our partner Iberdrola further improves the competitiveness of our Castellón refinery, as we continue to deliver for our customers and shareholders."

Mario Ruiz-Tagle, CEO of Iberdrola España, said: "This green hydrogen project shows how innovation and electrification with renewable energy can improve the competitiveness of our industry, create jobs and strengthen our energy autonomy, while reducing emissions from industrial processes such as refining."

The initiative, in which the Instituto Tecnológico de la Energía (ITE) is a participant, has received €15 million under the incentive programmes for innovation and knowledge across the renewable hydrogen value chain, managed by IDAE and funded by the European Union - NextGenerationEU, as part of Spain's Recovery, Transformation and Resilience Plan.

Notes to editors

What is Castellón Green Hydrogen S.L.?

Castellón Green Hydrogen S.L. is a 50:50 joint venture between bp and Iberdrola.

How much green hydrogen will be produced through this project?

The Castellón green hydrogen plant is expected to produce around 2,800 tonnes a year and is currently the largest operating green hydrogen plant in Spain.

How will the green hydrogen the plant produces be used?

The green hydrogen produced at the plant will replace some of the Castellón refinery's grey hydrogen, helping avoid around 23,000 tonnes of CO2 emissions annually.

How is the Castellón green hydrogen project supporting industry in Spain?

Around 25 Spanish companies participated in the project, either supplying equipment or supporting its construction. Their involvement has helped sustain industrial capabilities and develop the renewable hydrogen value chain, while creating new industrial and innovation opportunities.

How does this green hydrogen project support bp's strategic priorities?

By replacing some of the Castellón refinery's grey hydrogen with green hydrogen, this project helps lower associated carbon costs. The green hydrogen project is an example of bp's disciplined approach to deploying capital, investing where there is a strong business case while continuing to deliver for customers and shareholders.

How does this align with bp's investment decisions?

bp makes individual investments when there is a clear, compelling, and commercially attractive business case - in line with our balanced investment criteria.

What other businesses does bp have in Spain?

bp has around 700 bp-branded retail sites in Spain and supplies aviation fuel to airports across the country. The Castellón refinery processes around 110,000 barrels of crude a day and is integrated with bp's wider business, from global sourcing and trading through to

refining, distribution and supply to customers. The Castellón refinery's integration with bp's supply, trading and shipping activities helps connect it with global feedstock markets and customer demand.

Further information

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