

ESTECH A/S receives a European patent for innovative CO₂ capture technology

News release from ESTECH

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We are pleased to announce that ESTECH's carbon capture process with electrolytic regeneration has been granted a European patent. The technology is unique in its approach to carbon capture, as it merges two operations in one combined process.

The ESTECH system provides cost-efficient capturing of CO₂, as well as a sustainable integration of Power-to-X between CO₂ capture and hydrogen production – solely based on green electrical power, with no thermal heat requirement.

To ensure reduced CO₂ emissions, Power-to-X must be produced using energy from additional green power plants, because if it is not, its carbon footprint would be even larger than that of fossil fuels.

ESTECH's combined carbon capture and hydrogen production is an environment-and-climate-friendly energy source that reduces emissions and transform harmful compounds into valuable products. It consumes less energy than other known power plant designs – that typically focus on either CO₂ capture or hydrogen production – as the green energy consumed by the ESTECH pilot plant is attributing to the production of hydrogen.

This innovative technology is therefore a potential key to combat climate change in the future.

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About Estech

ESTECH A/S is an engineering company that further develops several high-tech and economically sustainable environmental technologies that have previously been placed in its sister company PureteQ A/S.

ESTECH was established in 2018 and is a subsidiary of the PureteQ Group with its administration, design, development, testing centre and production based in Svendborg, Denmark.

Learn more about ESTECH by visiting our website at www.estech.dk and following us on LinkedIn <https://www.linkedin.com/company/estech-a-s/>