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Power to Ammonia - Advanced Science News

ISPT, Power to Ammonia, March 2017 The Power to Ammonia concept uses an electrolyzer to turn renewable energy (solar, wind, or tidal) into hydrogen, which is then turned into ammonia.

Advantages of the power-to-ammonia concept (using electrolyzers) include: the efficient storage of energy in liquid form, it is CO₂-free and it creates a carbon-free fuel. A key benefit of the waste-to-ammonia concept is that it makes a value-added product from waste sources.

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Now, a feasibility study concluded by the ISPT and its partners in the Power to Ammonia (P2A) project shows that the electrochemical production of ammonia from renewable energy is a likely option and also offers a very promising solution for large-scale seasonal storage and import of renewable energy.

The extensive Power-to-Ammonia feasibility study demonstrated that ammonia energy could be economically viable in different business cases.

The Power to Ammonia project is unique in bringing the energy sector and industrial companies together to enable the transition to a sustainable energy supply as well as the partial provision of raw materials. ISPT previously launched the successful project Power to Products, in which eighteen participants explored how the process industry can respond flexibly to the growing supply of renewable power, including through the wider use of electrochemistry to make products.

power-to-ammonia (P2A) study is to investigate under what conditions 1) NH₃ can be produced using renewable electricity, 2) NH₃ can be used to store electricity and 3) NH₃ can be used as a CO₂-neutral fuel for a power plant. P2A is a partnership of ISPT, Stedin Infradiensten, Nuon, ECN, Technical University Delft, University Power To Ammonia Ispt - pompahydrauliczna.eu

ISPT - Ammonia Energy Association

The Power to Ammonia project is a partnership between ISPT (project leader), Stedin Infrastructure Services, Nuon, ECN, Delft University of Technology, University of Twente, Proton Ventures, OCI Nitrogen, CE Delft and AkzoNobel, and made possible by a grant from the Dutch Energy Top Sector, System Integration programme.

The Institute for Sustainable Process Technology (ISPT) has brought together various parties from different sectors of industry to study the storage of electricity in ammonia (NH₃).

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The Institute for Sustainable Process Technology (ISPT) recently published a detailed analysis of three business cases for producing renewable ammonia from electricity: Power to Ammonia. The feasibility study concludes that, in the near term, ammonia production using clean electricity will likely rely on a combination of two old-established, proven technologies: electrolysis and Haber-Bosch (E-HB).

Power-to-Ammonia: the Economic Viability of Ammonia Energy ISPT - AMMONIA INDUSTRY

Power to Ammonia: From renewable energy to CO₂-free ammonia as chemical feedstock and fuel The Institute for Sustainable Process Technology (ISPT) and its partners in the Power to Ammonia (P2A) project have recently successfully concluded a feasibility study into the storage of renewable

energy in ammonia (NH₃) for three business cases.

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