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Cyprus has announced plans this week for the integration of its energy storage systems (ESS) with renewable energy sources. This comes after reaching a funding agreement with the EU of 40 million euros.

The project communicates knowledge and relevant experience from other countries with Cyprus, including through training courses. With its Cypriot partners, it identifies obstacles and drafts recommendations for developing floating photovoltaics, pumped-storage plants and offshore renewable energy.

HYDRO-RES - Erneuerbare Energien und Energiespeicherung auf Zypern Verbesserung der Rahmenbedingungen für den Einsatz von schwimmender Photovoltaik, Energiespeicherung und erneuerbaren Offshore-Energien auf Zypern.

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Wasserstoff wird durch die Elektrolyse von Wasser hergestellt, ein Prozess, der mit erneuerbarem Strom betrieben werden kann. Überschüssige Energie aus Wind- und Solarkraft wird so effizient genutzt und in Form von Wasserstoff gespeichert.

Um Wasserstoff besser speichern zu können, setzen sich Stark und sein Team auf das Eisen-Dampf-Verfahren, das bereits seit dem 19. Jahrhundert bekannt ist. Wenn in den Sommermonaten zu viel Solarstrom vorhanden ist, kann damit Wasser aufgespalten werden, um Wasserstoff zu erzeugen.

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Cyprus, which has a population of about a million, as well as being a popular tourist destination in Europe, is aiming to make renewable energy about 22.9% of final energy consumption across all sectors, including electricity, heating and cooling, and transport by 2030.

On 8 July, the EU and Cyprus signed a Partnership Agreement, which cements a commitment from the EU to invest a total EUR1 billion into the country and its Just Transition Fund (JTF) between 2021 and 2027, while settling on terms for how that spending should be directed.

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