

Launched in 2023, Samoa's Climate Action Pathways for Island Transport (CAP-IT) project, backed by a US\$15.5 million investment from the Government of Japan, aims to accelerate the nation's transition to a green, low-carbon future. ...

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Discover Power-to-X (PtX): a revolutionary concept that converts surplus renewable energy into various forms, including fuels, chemicals, and heat. Learn how PtX technologies contribute to ...

Power-to-X (PtX) is an innovative approach to energy conversion that plays a pivotal role in the global transition towards a greener, more sustainable energy system. At its core, PtX technologies convert renewable electricity into other forms of energy carriers, such as hydrogen, synthetic fuels, chemicals, or heat.

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OverviewPower-to-fuelPower-to-heatOther forms of power-to-XImpactSee alsoPower-to-X (also P2X and P2Y) are electricity conversion, energy storage, and reconversion pathways from surplus renewable energy. Power-to-X conversion technologies allow for the decoupling of power from the electricity sector for use in other sectors (such as transport or chemicals), possibly using power that has been provided by additional investments in generation. The term is widely use...

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Power-to-X technologies will play an increasingly crucial role in our path towards a sustainable and carbon-neutral future. Renewable energy from wind turbines and solar is key to decarbonizing everything we can electrify directly - but electrification is not a feasible solution for all the energy-intensive industries.

The Kopernikus project P2X deals with technologies for sector coupling, which make it possible to transfer energy from renewable power generation to other sectors that are still primarily based on fossil fuels. The consortium of 50 partners from universities, research institutions, industry

This factsheet provides a high-level overview of American Samoa's power and transportation sectors - as well as territorial policies, challenges, and opportunities related to renewable energy, energy efficiency, and resilience.

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Meeting net-zero targets requires the development and scale-up of power-to-X technologies to convert renewable energy into other useful forms such as green hydrogen, green ammonia, synthetic fuels or sequestered carbon, or to provide energy storage solutions to provide additional grid stability and energy security. All of these domains involve ...

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