

Hydrogen Fuel Cell Applications

Green hydrogen is another emerging carbon-neutral alternative with considerable benefits and applications.



Zero-carbon energy carrier

When generated through renewable energy sources, green hydrogen becomes a carbon-free energy carrier that can be stored in fuel tanks.

Long-term storage solution



Hydrogen tanks have a larger storage capacity than lithium-ion batteries and are easy to scale.

Through fuel cell technology, green hydrogen can then be converted back into electricity when renewables are not available, e.g. at night.

Alternative to diesel backup power



Green hydrogen and fuel cells are an environmentally-friendly alternative to diesel generators that are often used to power remote areas or for backup power.

Promising market potential



The worldwide green hydrogen market is projected to reach around 90 billion dollars by 2030.

Why choose green hydrogen?



Zero-carbon energy carrier



Flexible and scalable



Clean alternative to diesel generators



Independence from fuel price uncertainty and logistics



No noise and smell pollution

Contact us.
We can get you connected.



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Listen to the GPCCI In:sight podcast
episode on Green Hydrogen



Going Green With Hydrogen

The New Zero-Carbon Energy Alternative



Deutsch-Philippinische
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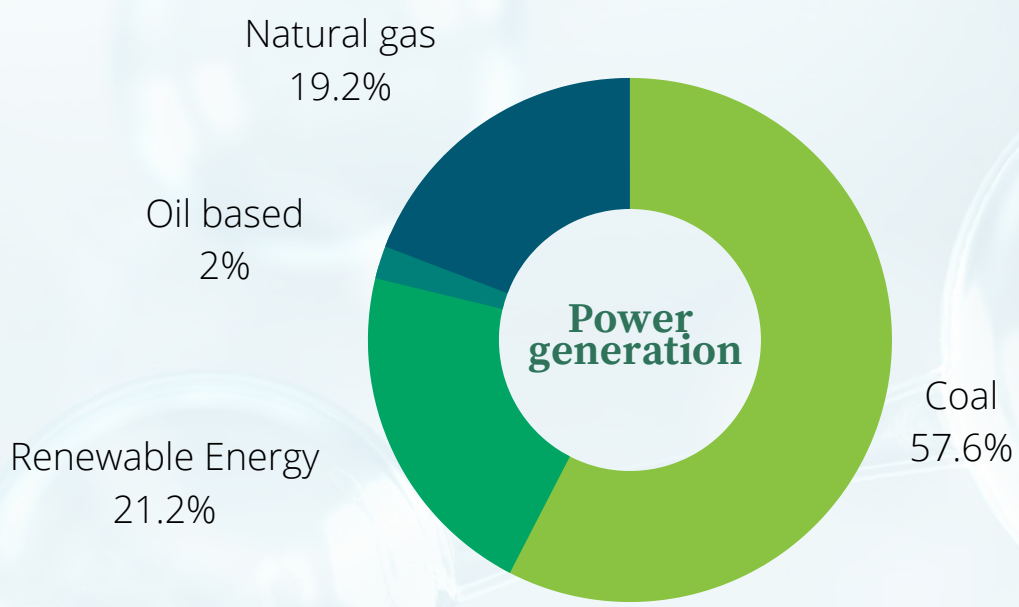


Overview

As an archipelago in the pacific, the Philippines is vulnerable to climate catastrophes such as storms and rising sea levels. At the same time the country is depending on climate-harming fossil fuels to meet the increasing energy demand.

To address the effects of climate change, the government has committed to reduce greenhouse gas emissions by 75% by 2030 and expanding the use of renewable energy sources to 35% at the same time.

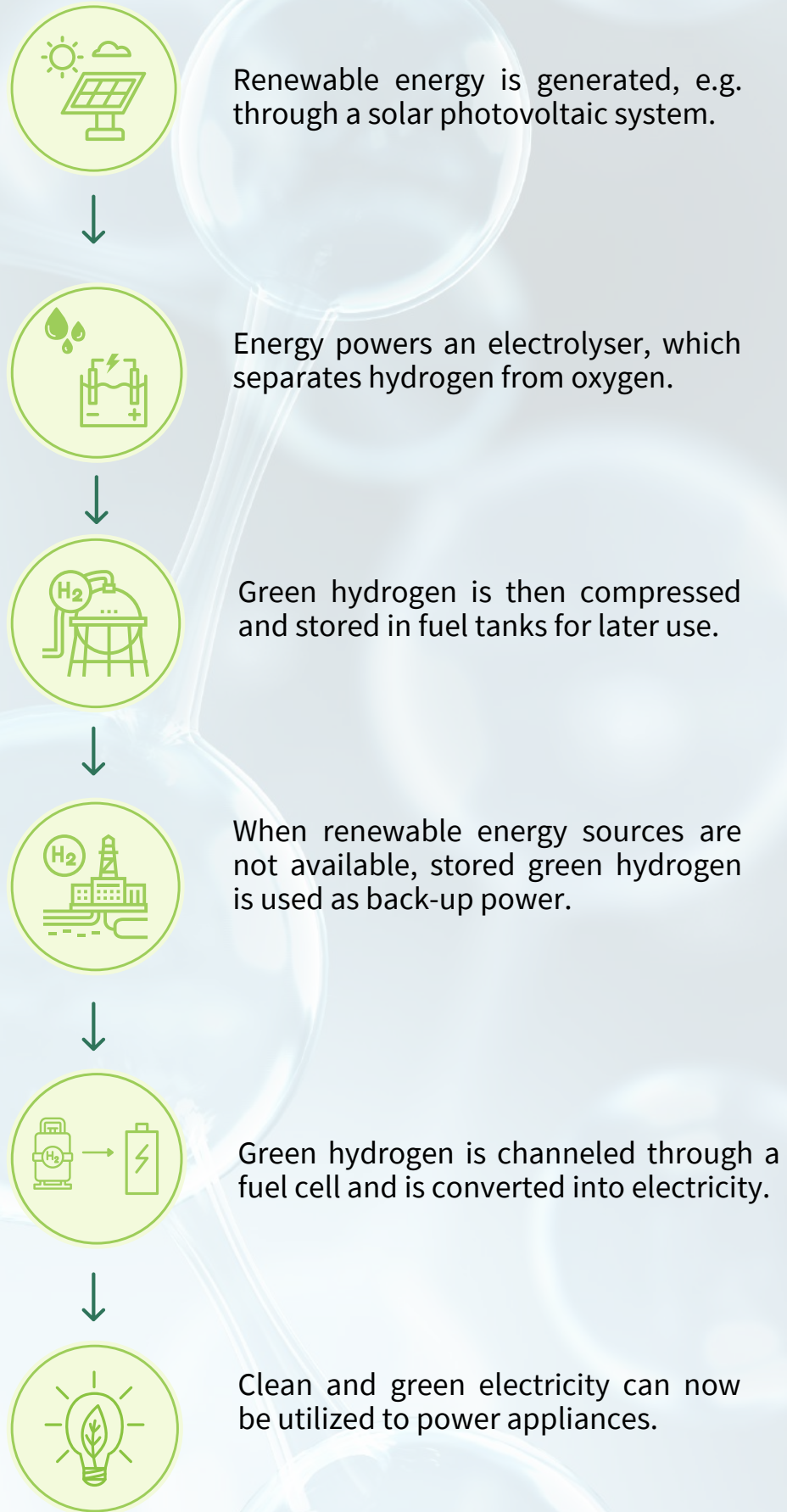
The Philippine Energy Mix



Via the Department of Energy (DOE), Energy Transition Talk, 2021

Currently, renewable energy sources contribute about 21% of the energy mix with the government’s National Renewable Energy Plan aiming to reach 15,304 MW by 2030.

How Is Green Hydrogen Produced?



Next Steps To Going Green

Germany has taken huge strides toward a comprehensive hydrogen economy that will aid in the decarbonization of its industries. While the country’s hydrogen strategy includes other forms of hydrogen, an emphasis is placed on green hydrogen as a renewable and sustainable long-term solution.

In line with this, many German companies and organizations are at the forefront of green hydrogen research and development.



The BMUV manages Germany's environment policy and supports projects for zero-carbon & sustainability goals.



The National Organisation Hydrogen & Fuel Cell Tech shares its expertise by implementing federal funding programs for sustainable mobility & energy supply.



Clean Power Net is a network of German companies specializing in hydrogen fuel cell applications for businesses and industries.



GPCCI is the official representation of German businesses in the Philippines and promotes bilateral trade and market entry activities.