

# The role of Concord blue in saving the environment for the future generation



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Posted on October 9, 2022

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The world has arrived at a fork in the path. Our planet's – and hence our own – future is at risk. Humanity has gone too far in its chase of wealth. Research shows that we have transformed over 75% of the world's ice-free territory. Moreover, half of the planet's livable surface is currently used to generate food, with wildlands accounting for less than a quarter of the total. The ocean is not faring much better. 90% of big fish have been taken from the water in the previous century, with 63% of populations overfished. To make matters worse, emissions of greenhouse gases (GHG) from industry, agriculture, and deforestation have grown dramatically since 1970. We can no longer overlook the loss of natural areas or the threat of climate change as human-caused global warming accelerates.

If land conversion and GHG emissions are not decreased by 2030, limiting global warming to 2°C over pre-industrial levels, as envisioned in the 2015 Paris climate accord, would be unachievable. Furthermore, even a 1.5°C increase would represent a severe threat to the planet's biodiversity, hastening the sixth mass extinction that is currently occurring. The quality of life for all animals, including humans, will deteriorate as ecosystems degrade.

Concord Blue Energy, a waste-to-hydrogen technology company, plans to invest \$600 million in expanding in Germany, which is pushing to replace renewable energy with Russian gas to meet climate change targets. The business has two central offices, one each in the German city of Düsseldorf and the American city of Los Angeles, and it intends to construct five power plants in the industrial region of northwest Germany.

## Platform One – The first waste-to-hydrogen conversion platform

Many groups have developed answers to these global concerns, which the globe may face and have major consequences. Concord Blue, founded by Charlie Thannhaeuser, is a pioneer in producing cost-effective and sustainable green, Co2-free hydrogen from all forms of trash and biomass. Concord Blue is creating Platform One, its first waste-to-hydrogen conversion platform, which will be housed in five locations around northwest Germany, mainly at waste-handling factories.

## Nearly emission-free renewable energy

Concord Blue is a waste management firm that turns practically any local rubbish into a variety of clean, renewable energy sources. Concord Blue has created a ground-breaking closed-loop technology that is both efficient and cost-effective and produces the highest quality sustainable energy with almost no emissions. Concord Blue's unique technology, unlike other available waste-to-energy processes, benefits the environment by complying with all global, EPA, and European renewable energy and air emissions regulations. Concord Blue has been successfully pioneering the way to generate clean, sustainable energy from garbage since its inception in 2002.

## Concord Blue's Ascension

Concord Blue emerged at a period when reliance on fossil fuels to create electricity was at an all-time high. Charlie Thannhaeuser recognized and brought to light the long-term usage of fossil fuels and their harmful influence on the globe. With the continuous difficulties to the ecosystem, Charlie was prompted to use his resources and attention to find ways to decarbonize the environment and turn garbage into a sustainable source of energy and renewable fuels such as hydrogen and electricity. Concord Blue collaborates with world-class firms that are recognized specialists in their field throughout the planning, building, and management of CBR facilities. This includes component vendors and O&M firms having a long track record of effectively and profitably managing waste to energy generation plants.

## Conserving land and water by 2030

Although the objective appears enormous, conserving 30% of land and water by 2030 is well within reach. Skeptics will argue that we must exploit the land and oceans to feed the predicted ten billion people who will share the globe by 2050. The recommended safeguards are either too costly or too difficult to implement. However, research indicates that the 30% target is now possible utilizing existing technology within existing consumption patterns, assuming government and corporations' policy, production, and expenditure changes.

## The patented Concord Blue Reformer (CBR)

The patented Concord Blue Reformer (CBR) is the direct outcome of Charlie's commitment to reducing environmental hazards by converting trash into sustainable energy. CBR can convert nearly any type of waste, including industrial waste, sewage sludge, hospital waste, and typical municipal solid waste, into nonpolluting renewable fuels (hydrogen and power). CBR is an ideal weapon for addressing three of the modern world's most pressing needs: increasing energy production, meeting decarbonization objectives, and eliminating waste.

## Transforming waste into high-quality rich syngas

Concord Blue uses steam thermolysis to transform trash into high-quality hydrogen-rich syngas. This is accomplished by deploying a system that depends on heat transmission from carrier materials (ceramic beads) rather than incineration, avoiding various negative repercussions associated with garbage burning. Concord Blue has offices in the United States, Germany, India, and Taiwan. Steam thermolysis is a thermochemical process that degrades the organic matrix of a composite material by using superheated water vapor at atmospheric pressure. When applied to carbon fiber composites, it produces three products: a permanent gaseous fraction, a condensed gaseous fraction, and recycled carbon fiber.

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