

Company Overview

The No-Compromise Energy Company



Who We Are

Joi Scientific™ is a clean technology company that specializes in hydrogen production systems. Our Hydrogen 2.0™ technology uses an innovative process that extracts hydrogen from seawater at room temperature and ambient pressure to produce hydrogen gas on-demand. The cost-effective, localized production of clean hydrogen energy at the point-of-use represents a new era of 'no-compromise' energy. Our mission is to speed the world's transition to clean, abundant and affordable hydrogen energy, in both developed and developing countries. The company is headquartered at the Kennedy Space Center.

Our Expertise: Hydrogen 2.0

Joi Scientific has discovered a way to safely extract hydrogen from seawater, without additives—an industry first. Better still: hydrogen can be made on-demand, where and when it is needed, on-site or on-board. This is the next generation of hydrogen made possible.

Hydrogen 2.0 holds the potential to open a new era of commercially viable hydrogen applications that can change the way we power our homes, cars, factories, and cities in the future. Applications powered by Hydrogen 2.0 are designed to be cost-competitive to other energy sources while delivering a low environmental footprint.

In contrast to traditional hydrogen produced by electrolysis or steam reforming natural gas, Hydrogen 2.0 is characterized by:



Clean

Unlike traditional hydrogen production processes that emit around 8 kilograms of greenhouse gases for every 1 kilogram of hydrogen produced, Hydrogen 2.0 can generate hydrogen without the use of chemicals or carbon emissions. The consumption of hydrogen fuel returns only water back into the environment.



On-Demand

Systems based on Hydrogen 2.0 technology will enable the localized production of hydrogen, meaning hydrogen can be generated on-demand where and when it is needed, on-site or on-board. In contrast, traditional hydrogen production is a centralized process that requires specialized and expensive infrastructure for safe storage and distribution, which constrains hydrogen's availability and efficiency.



Affordable

Hydrogen 2.0 is designed to be cost-competitive to other energy sources. Made from nature's most abundant resources, Hydrogen 2.0 doesn't require expensive exploration or drilling and is available 24/7. Since it can be safely produced on-site, where and when it is needed, and doesn't require specialized transportation and distribution infrastructure, the benefits of Hydrogen 2.0 can be shared worldwide. This makes Hydrogen 2.0 ideal for developing economies.

Our Approach

Joi Scientific harnesses powerful forces observed in nature, combined in a new way, to liberate hydrogen from its oxygen bond in seawater (or salinated water). This approach promises to unlock an abundant and affordable source of clean energy for society. While our intellectual property is proprietary, we're committed to working with a broad partner base to accelerate the spread of future Hydrogen 2.0 solutions that can make a positive impact for people everywhere.

Our Team

At Joi Scientific, experienced global business leaders, scientists, technologists, engineers, and social entrepreneurs are working hard to bring about a bright future powered by clean hydrogen. Joi Scientific has assembled a diverse team who has worked together for years on the science to extract hydrogen from water efficiently; the technology to make it available on-demand at the point of use; and the business to make it competitive.

Partner with Us

Joi Scientific is looking for committed, well-resourced partners to co-develop meaningful applications to meet consumer demand for sustainable energy solutions. We seek to work with partners across the entire energy value chain and, where possible, will leverage existing infrastructures to accelerate the future adoption of Hydrogen 2.0 technology. We will also engage with organizations in both developed and developing economies in an effort to bring the benefits of Hydrogen 2.0 to every corner of the planet.

The Meaning of Joi

Joi is the realization of our brand promise to deliver a future where clean, abundant and low-cost energy is available for people everywhere, without compromise.

Headquarters

Our world headquarters is located at the Kennedy Space Center Space Life Sciences Lab:

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