

## Company Fact Sheet

### Overview

Joi Scientific™ is a clean energy company whose patented technology produces hydrogen gas from water—safely and affordably. The company’s technology can be employed on-site to provide localized, sustainable hydrogen production at the point of use, without the need for specialized and expensive infrastructure.

Joi Scientific holds the potential to be the first company to deliver a hydrogen production process that is on-demand, environmentally neutral, and economically competitive. This new era of zero-carbon energy, led by our Hydrogen 2.0™ process, seeks to offer solutions to the global challenges of eliminating carbon emissions, reducing air pollution, and ending the world’s economic dependence on finite resources.

### Mission

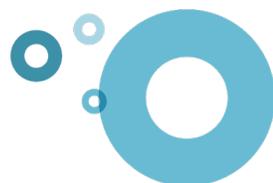
Joi Scientific’s mission is to enable the world’s transition to clean, abundant and affordable Hydrogen 2.0 energy—in both developed and developing economies.

### Hydrogen 2.0

The cost-effective, localized production of clean hydrogen at the point-of-use will represent a new era of ‘no-compromise’ energy. Hydrogen 2.0 introduces a new and sustainable way to deliver hydrogen energy on-demand, positioning hydrogen as an affordable, emission-free and universally available alternative to today’s hydrocarbon economy.

Unlike current sources of hydrogen, which are prohibitively expensive for many industrial applications, Hydrogen 2.0 is characterized by:

- **Clean.** The Hydrogen 2.0 production process generates hydrogen without the use of chemicals or electrolysis. When consumed, hydrogen fuel returns only water back into the environment.
- **On-Demand.** Hydrogen 2.0 is characterized for its on-demand production. Systems that use Hydrogen 2.0 processes will enable the decentralized production of hydrogen, meaning hydrogen can be generated on-site or on-board, where and when it is needed.
- **Affordable.** If scaled economically, Hydrogen 2.0 can be produced in abundance on a cost-competitive basis. It is an energy source with a potentially unprecedented level of predictability in pricing stability since it does not require exploration or drilling and is available 24/7 in any location.



## Hydrogen 2.0 Applications

Hydrogen 2.0 will enable a new generation of hydrogen-fueled applications across a range of industries, displacing existing emissions-heavy sources of energy. Joi Scientific is licensing its technology globally through a partner network and is in the process of engaging scalable co-development partners to build applications in both developed and developing economies. Through this global partner network of manufacturers, energy producers and distributors, Joi Scientific's Hydrogen 2.0 holds the potential to play a major role in easing the industrial transition into a renewables-led future.

Meaningful applications of Hydrogen 2.0 may include grid and off-grid electrical power and storage power; industrial and commercial heat; carbon-neutral synthetic fuels; and transportation.

## History

Joi Scientific was formed by a group of scientists, engineers and experienced business professionals who believe that hydrogen holds the key to giving the world a clean energy alternative that is flexible, scalable, and always-available.

After years of deep research, the company devised a new approach to extract hydrogen more efficiently than traditional processes. This process, termed Hydrogen 2.0, produces hydrogen on-demand without high pressure and at room temperature, at yields that will finally make hydrogen cost-competitive. It has the potential to solve some of the most pressing challenges facing the global transition to renewable energy through clean, affordable, and abundant hydrogen energy.

[www.joiscientific.com](http://www.joiscientific.com)

Twitter: @JoiScientific

## Media Contacts

Vicky Harris  
Joi Scientific  
321.506.4592  
[vicky@joiscientific.com](mailto:vicky@joiscientific.com)

James Kennedy  
Joi Scientific  
+44 (0)7809 495 759  
[james.kennedy@joiscientific.com](mailto:james.kennedy@joiscientific.com)

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