

Company Fact Sheet

The No-Compromise Energy Company

Overview

Joi Scientific™ is a clean energy company that produces hydrogen gas from water—safely and affordably without emitting any carbon or air pollutants. The company's technology can be employed anywhere to provide localized, sustainable hydrogen production at the point of use, where and when it is needed, eliminating the requirement for specialized and expensive infrastructure for storage and distribution.

Joi Scientific is the first company to deliver a hydrogen production process that is on-demand, environmentally neutral, and economically competitive. This new era of plentiful, clean and affordable energy is called Hydrogen 2.0.™ It addresses the global imperatives of eliminating carbon emissions, reducing air pollution, and relaxing the world's economic dependence on finite resources.

Mission

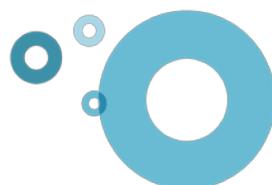
Our mission is to expedite the world's transition to clean, abundant and affordable Hydrogen 2.0 energy—in both developed and developing economies.

Hydrogen 2.0

The cost-effective, localized production of clean hydrogen energy at the point-of-use represents a new era of 'no-compromise' energy. It is the realization of a sustainable way to deliver hydrogen energy on-demand, where and when it is needed, unlocking hydrogen's potential as an affordable, emission-free and universally available alternative to today's hydrocarbon economy.

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

- **Zero Emissions.** On the production side, the Hydrogen 2.0 production process generates hydrogen without the use of chemicals or electrolysis. On the consumption side, hydrogen fuel returns only water back into the environment.
- **On-Demand.** Hydrogen 2.0 is characterized by its on demand production. Systems using Hydrogen 2.0 processes enable the decentralized production of hydrogen; meaning hydrogen is generated on-site or on-board, where and when it is needed.
- **Affordable.** Hydrogen 2.0 can be produced in abundance on a cost-competitive basis. It is an energy source with an 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

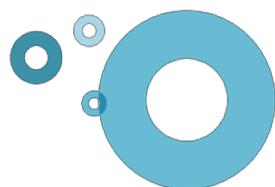
Hydrogen 2.0 enables a new generation of hydrogen-fueled applications for electrical power generation, heat generation, transportation and even drinking water. Joi Scientific is licensing its technology globally through a partner network and is in the process of engaging scalable operators to build applications in both developed and developing economies. Energy producers, distributors, industrial and commercial users, manufacturers and integrators are working to turn Joi Scientific's Hydrogen 2.0 technology into meaningful applications, including:

- Boilers for heat and hot water
- Heat for electrical production
- Synthetic fuels in both gas and liquid forms
- Energy storage
- Industrial energy
- Combined heat and co-generated power units
- Industrial gases
- Fuel cells
- Internal combustion engines
- Clean drinking water

Team

Joi Scientific has assembled a diverse team who has worked together for years on the ground-breaking 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 economically competitive. The management team includes:

- Traver Kennedy, Chairman and CEO
- Robert Koeneman, President and SVP Technology
- Huw Jones, VP Corporate Development and General Counsel
- Ken Harden, SVP Alliance and Partnerships
- Jim Kirchoff, VP Engineering
- Vicky Harris, VP Marketing



History

Joi Scientific was formed by a group of technologists, experienced global business executives and social entrepreneurs who believe that plentiful hydrogen holds the key to giving the world a viable, no-compromise energy alternative. The company has pioneered a new approach to extract hydrogen more efficiently than conventional processes and is seizing the opportunity to expedite the world's transition to clean, affordable and abundant energy.

After years of empirical experimentation, the company devised a novel approach to efficiently produce hydrogen on-demand, at the point of use, without pressure and at room temperature, at yields that finally make hydrogen cost-competitive. The second technical hurdle the company has solved is the ability to leverage the energy infrastructures already in place, the pipes, tanks and transportation systems, to accelerate the practical use of hydrogen in the marketplace,

Joi Scientific and its partners refer to this new process as 'Hydrogen 2.0,' which has become the term of choice to describe the new era of clean and affordable hydrogen energy.

Headquarters

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

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