

Solar Hydrogen Co.

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Green Chemistry Initiative
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I would like to be a registered participant: Thomas W. Oakes, PhD
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How do you think California can stimulate a Green Chemistry transformation in the design of products and processes? Consider public health and the environmental effects.

Answer: RE: Green Clean Renewable Energy Generated On-Site

A breakthrough technology providing a green renewable hydrogen fuel requiring no carbon based fossil fuel nor utility electricity for its generation yielding neither CO₂ nor any other polluting and greenhouse emissions.

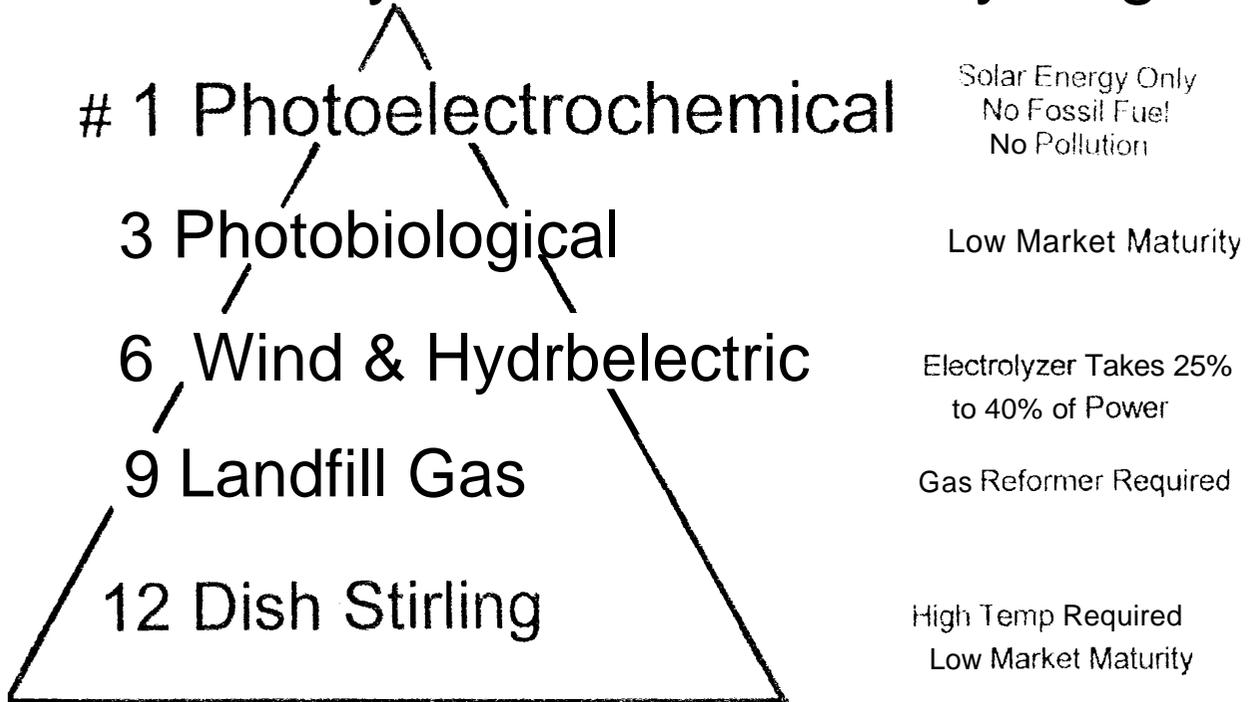
• The Product and the Technology

The product developed here can provide **on-site hydrogen generation using only renewable energy sources to produce hydrogen** as fuel for energy needs. The system is designed for installation at homes, business, and government facilities. Hydrogen generated by this method may be used for domestic electricity for heating and cooling by fuel cell, fuel for filling hydrogen cars and trucks – either fuel cell or internal combustion conversions -- and/or for on-site fuel for commercial, industrial, and government to burn in combustion air conditioning, refrigeration, ovens, furnaces, and kilns, etc.

Our technology is developed as an on-site **direct photoelectrochemical water splitting system to generate hydrogen** that uses only renewable energy of the sun or local low wind. This is an **electrochemical splitting of water sytem** to derive hydrogen. Using this product reduces the demand for oil and natural gas, which is short supply domestically and much of which now comes from foreign countries that are often very unstable politically, many of which harbor terrorist

threats to the United States. Hydrogen generated on-site by this method replaces requirements for fossil based coal, oil, and natural gas as energy sources.

Hierarchy for Renewable Hydrogen



Environmental and Societal Impacts. This is a sustainable process using only water that yields neither CO₂ nor any other polluting and greenhouse emissions. Implementing the system provides social justice yielding no air pollution or pollution to water sources providing health benefits to humans and animals worldwide. Domestic dependency on oil is reduced. Financial performance is anticipated that with will repay investors in five to seven years.

Sincerely Yours,


Thomas W. Oakes, PhD

"19th century was the century of the steam engine.

20th century was the century of the internal combustion engine.

21st century is the century of hydrogen and the fuel cell."

"Whoever Controls Energy Wins!" "" @