



## Frequently Asked Questions

### What is the “hydrogen economy?”

The “hydrogen economy” refers to an anticipated shift in the world’s dependence on fossil fuels—toward the use of hydrogen as our primary fuel in vehicles and industry.

Many people equate the idea with still-on-the-drawing-board hydrogen fuel cell vehicles, or other futuristic concepts, but Eden Energy takes a much broader view that encompasses transitional hydrogen strategies that are practical today.

### Is the hydrogen economy really imminent?

We believe so. And hope so. The fact is the world is running out of liquid hydrocarbon fuels. As environmental and geopolitical pressures continue to grow, the use of hydrogen gets very attractive very quickly. Fortunately, hydrogen is a fuel that can be made from many different sources—including natural gas, at present—and in the future from sources such as ethanol, gas from garbage and sewage treatment plants, solar, wind, and hydro-powered sources.

### What is Eden Energy’s role in this hydrogen economy?

Eden Energy is playing a pivotal role in giving forward-thinking companies and governments a “head-start” on the road to the hydrogen economy. Our technologies generate pure hydrogen on site at its point of use, blend hydrogen with other fuels to realize significantly better performance and environmental characteristics from existing engines, and address challenges in the handling, transport and storage of hydrogen and hydrogen-based fuels.

Eden’s experts, who have dedicated full careers to hydrogen, share this experience with a growing base of global customers who share our commitment to the world’s most promising fuel source.

### How far in the future must we look for hydrogen’s payback?

Eden Energy is making hydrogen a commercially viable choice today. For example, our patented premium fuel Hythane® provides more benefit per dollar of hydrogen than pure hydrogen in fuel cells. For companies operating in places such as California in the U.S., Eden Energy is supplying the kind of technology and products that will enable them to survive increasingly stringent regulations, without tearing up their assembly lines or drastically re-designing their products.

In the short term, near-zero emission fuels are necessary, and Hythane® provides a perfect solution. Additionally, the infrastructure installed to support Hythane® is the same one that will give our customers a first-mover advantage as new hydrogen strategies are developed and implemented.

## What technical or business advantages does Eden Energy have?

One of the most obvious benefits to working with Eden, is the ability to reap the rewards of the hydrogen economy today—whether you measure those rewards as environmental, economic, performance, or improved stability of supply.

We believe that we have assembled the world's foremost collection of hydrogen experts into a cross-discipline team with virtually unlimited potential.

Relationships with significant players throughout the globe have come about, because our company stands out as the only company bringing world class technology to the market across all areas: production, transport and storage, and utilization.

## Where are Eden Energy's customers located?

Like our sales and manufacturing capabilities, Eden's customers are located all over the world. We've sold our on-site hydrogen generation units to everyone from bus fleet operators in China, and float-glass manufacturers in Europe.

Our Hythane® fuel has been selected to power one million new buses in the major cities of India, while it is also in use at the San Francisco International (U.S.) Airport.

And our cryogenic piping, valves, and fittings are in use across the globe (at virtually every major physics laboratory) as well as being used by NASA at several testing sites throughout the United States.

## Can a hybrid fuel blend really provide any real environmental benefit?

Absolutely. Hythane® is the cleanest burning alternative fuel available today. It reduces greenhouse gas emissions by as much as 95% when compared to gasoline and diesel fuels. Hythane significantly outperforms unblended natural gas fuels as well, providing up to a 20% reduction in CO<sub>2</sub>.

In addition to dramatic decreases in greenhouse gases, Hythane® reduces exhaust emissions of carbon monoxide (CO) by 70 percent, non-methane organic gas (NMOG) by 87 percent, nitrogen oxides (NOx) by 87 percent, volatile organic compounds (VOCs) by 89 percent, and produces only negligible amounts of particulate matter (PM).

