



# ENERGY: THE ROAD AHEAD



Rep. John Boehner .....page 2  
 Rep. Fred Upton .....page 2  
 Sen. Orrin Hatch .....page 2  
 Gary Doer, Canadian Ambassador .....page 4  
 Rep. Don Young .....page 4  
 Sen. John Thune .....page 6  
 Sen. David Vitter .....page 6  
 Sen. John Hoeven .....page 6

Rep. Lee Terry .....page 8  
 Rep. Tim Murphy .....page 8  
 Rep. Steve Scalise .....page 8  
 Rep. Pete Olson .....page 10  
 Rep. David McKinley .....page 10  
 Phyllis Cuttino and Philip Brennan .....page 10  
 Charles T. Drevna .....page 12



# Keystone XL: The Choice of Reason

After more than four years of comprehensive and exacting economic and environmental review by the U.S. State Department, the Obama administration will soon make the decision about whether to approve the Keystone XL pipeline from the oil sands in Alberta, Canada, to refineries in America's Gulf Coast.

America's desire to effectively balance strong environmental policy, clean technology development, energy security and plentiful job opportunities for the middle class and returning war veterans mirrors that of the people of Alberta.

And these joint values reflect the actions of the Government of Alberta. This is why choosing to approve Keystone XL and oil from a neighbor, ally, friend and responsible energy developer is the choice of reason.

The State Department has indicated that Keystone XL will not have a significant impact on the environment. Yet some still argue Keystone should be decided on emotion rather than science and fact about Canada's responsibly developed oil sands resource.

Learn more about the oil sands and Alberta's environmental track record at [oilsands.alberta.ca](http://oilsands.alberta.ca)

## Why Keystone XL is the choice of reason:

- More energy from a reliable ally with a strong environmental track record
- Less gasoline in the tank from unstable foreign regimes
- 42,100 direct and spinoff jobs for Americans during construction\*
- An average of 138,000 American spinoff jobs per year for the next 25 years from continued oil sands development\*\*

## Did you know?

- In 2008, Alberta was the first place in North America to legally require all large industry to curb greenhouse gas emissions, and Alberta already has a \$15-per-tonne price on carbon.
- Alberta is committed to pushing the bar higher on its leading climate change policy that already includes a \$1.3 billion investment in carbon capture and storage and a fund that is helping to finance more than 40 clean technology projects.
- Canada and the U.S. share one of the world's closest trading relationships. In 2012, for every dollar of oil the U.S. imported from Canada, 90 cents returned through Canadian imports of goods produced in the U.S. This compares to 33 cents for oil imported from Saudi Arabia and 46 cents for Venezuela.
- Greenhouse gas emissions from the oil sands in Alberta make up just over 1/10th of one per cent of the world's emissions.

\* Source: U.S. State Department

\*\* Source: Canadian Energy Research Institute, July 2012 (CERI)





# Put One Million Americans to Work

**Harness the heat  
to create new jobs  
and make our country  
more competitive.**

Each year, America's utilities and factories send enough heat up their chimneys to power all of Japan. But with existing, proven technologies, we can harness that wasted energy, dramatically cut electricity costs, and make our manufacturers more competitive.

According to Oak Ridge National Laboratory, significantly increasing our industrial energy efficiency would spur more than \$200 billion in new private investment in the U.S. and create up to 1,000,000 jobs.\*

Learn more about industrial energy efficiency at [www.PewTrusts.org/industrialefficiency](http://www.PewTrusts.org/industrialefficiency)

## 475 businesses agree.

4 Thought Energy LLC  
5 Lakes Energy, LLC  
ABB  
Acuity Power Group, Inc.,  
Consulting Engineers  
Aegis Energy Services, Inc.  
Affiliated Engineers Inc.  
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Affordable Solar Hot Water and Power  
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Algae Aqua-Culture Technology, Inc.  
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Alliance to Save Energy  
Alodyne, LLC  
Aloha Communications  
Contractors, Inc.  
Alphabet Energy, Inc.  
AltraGen Corp.  
Ameresco  
American Biomass Corporation  
American Combustion Service, Inc.  
American Council for an  
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American DG Energy Inc.  
American Gas Association  
American Solar  
Anguil Environmental Systems, Inc.  
Applied Engineering Services, Inc.  
Applied Hydrogen Technologies Inc  
Archimatic LLC  
ArCHPower Solutions  
Area Partnership for Economic  
Expansion (APEX)  
Aries Energy  
Arkansas Advanced  
Energy Association  
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Ashlawn Energy, LLC  
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Avalon Energy Services, LLC  
Axiom Engineers  
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BARC Electric Cooperative  
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Battaglia Electric Inc.  
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Biomass Thermal Energy Council  
BLT Sustainable Energy, Inc.  
Blue Flint Ethanol  
Blue Honey Bio-Fuels  
Blue Planet Energy, Inc.  
BlueGreen Alliance  
Bombard Mechanical  
Brayton Energy, LLC  
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Company, Inc.  
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Sanitation Agencies  
California Business Alliance  
for a Green Economy  
California Clean DG Coalition (CCDC)  
California Department of  
General Services  
California Energy Storage Alliance  
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South Carolina Small Business  
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South Jersey Gas  
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Southland Industries  
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UGI Utilities, Inc.  
Underground Energy  
Union of Concerned Scientists  
Union Energy, LLC  
United Association of the Plumbing  
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3 local chapters  
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University of Michigan  
University of Minnesota  
Uponor  
Urban Grid  
US SolarWorks, LLC  
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Van Ert Electric Company, Inc.  
Vanalt Electrical Construction  
Vegawatt  
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Velcro USA  
Veolia Energy North America  
Vineyard 29  
Viridian  
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W.W. Williams - Onsite Energy Group  
Wagner Solar Inc.  
Walden Asset Management  
Waldron Engineering &  
Construction, Inc.  
Warren Energy Engineering, LLC  
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WES Engineering  
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Westerlund Communications Inc.  
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WI Sustainable Business Council  
Wilson Engineering Services, PC  
Wilson Solarpower Corporation  
WindPole Ventures  
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Wm A.J. Shaeffer's Sons Inc.  
World Alliance for  
Decentralized Energy  
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\*Oak Ridge National Laboratory. Combined Heat & Power:  
Effective Energy Solutions for a Sustainable Future, 2008.

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After all, it's our home, too.



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# BROKEN /'BRŌ-KĒN/

**DEFINITION: DAMAGED, DEFECTIVE, FRACTURED, UNWORKABLE**

**SYNONYM: THE RENEWABLE FUEL STANDARD**



Eight years of unrealistic biofuel mandates under the failed Renewable Fuel Standard (RFS) has been long enough – it is time to end this broken program once and for all. If the EPA does nothing, the nation will soon hit the E10 blendwall—the point at which no more ethanol can

be blended into the fuel supply without placing consumers at risk for both economic and engine damage.

Full repeal is the only answer to an unworkable and broken RFS. Take action. Visit [act.afpm.org](http://act.afpm.org) and tell Congress to repeal the RFS today.



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# WHO SUPPORTS BUILDING KEYSTONE XL?



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**"...it makes sense to me."**

*The Hill, 5/8/12*

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But on Keystone XL, they do. It will create jobs here at home, and bring energy to America safely and responsibly.

*Learn more at API.org.*

**IT'S TIME. BUILD THE KEYSTONE PIPELINE.**

# Washington unites against the RFS



By Charles T. Drevna

AFPM President

With rampant partisanship in Washington, it is refreshing when a number of diverse organizations as well as both Republicans and Democrats on Capitol Hill come together to unite around a policy goal. One such policy goal that has been uniting Washington is fixing the failed Renewable Fuel Standard (RFS).

The RFS was hyped to Americans as the pathway to a cleaner

and greener U.S. energy future, yet has proven to be anything but. Environmentalists, food producers and livestock groups, anti-hunger advocates, auto, boat and small engine manufacturers, the refining industry and members of both political parties are working hard to revisit the RFS.

The rationale is clear. One of the many consequences of ethanol mandates included in the RFS is potential engine damage, which independent studies show result from the use of E15, a gasoline containing 15 percent ethanol. Last year, the EPA approved E15 use in vehicle models built in 2001 and later. But nearly every automobile manufacturer has said their warranties would not cover E15 use because of its corrosive nature and potential to harm engines, leaving consumers on the hook for costly repair bills.

Unfortunately, the damage doesn't stop in our engines. Consumers are also paying more at

the pump AND the grocery store because of the ethanol mandates and expanded biofuels production.

Ethanol contains 33 percent less energy than regular gasoline, which means lower fuel economy and more frequent trips to the pump. When you factor in that corn ethanol delivers two-thirds the energy content of gasoline, ethanol is actually more expensive than gas per mile driven.

And beyond the pump, American families are feeling the effects at the grocery store, as well. Since the RFS was expanded in 2007, prices for cereal and bakery products in the United States have risen 77 percent; prices for meat, poultry, fish and eggs increased 78 percent; and prices for vegetable oil and fats are up a staggering 444 percent. Last year, the average U.S. family of four was hit with \$2,000 in increased food costs. This dramatic change in food affordability is due in

large part to booming prices for corn brought on by the RFS.

In addition to putting engines at risk and lightening consumers' wallets, the RFS also puts refiners in a costly predicament thanks to the volatile prices of Renewable Identification Numbers, or RINs. A RIN is a credit assigned to track each gallon of ethanol produced or imported into the United States and blended into the fuel supply. Fuel refiners and importers are required to purchase RINs to demonstrate to the EPA that the mandated amounts of ethanol have actually been blended into consumer fuels.

Since the RFS mandates using more ethanol than can safely be mixed into the fuel supply, refiners are required to hand in more RINs to meet the mandate than will actually be available. As RINs become scarce, their cost skyrocketed, from 2-3 cents at the end of 2012 to as much as \$1.48 per gallon just last week.

The scarcity of RINs may also force refiners to reduce domestic supply and could lead to higher consumer fuel costs.

What's more: it's not just American consumers, automakers, agriculture producers and refiners that have taken serious issue with the RFS. Environmental groups, along with global hunger advocates, continue to stress the negative impacts of using food for fuel. Congress originally included biofuels mandates in the RFS with the intention of reducing U.S. greenhouse gas emissions. But countless research has shown that ethanol fails to deliver on its promise of lower emissions and can actually harm our environment. Land-use change needed to accommodate biofuels feedstock is expected to double greenhouse gas emissions over the next 30 years.

Internationally, biofuel mandates are so harmful that the United Nations recently asked

the U.S. to suspend the RFS because it is increasing the cost of critical staple foods around the world, driving the poor deeper into poverty. The total amount of ethanol produced in the United States in 2011 was 13.95 billion gallons, enough to feed 570 million people that same year.

Taken all together, it is abundantly clear that the growing concern over the RFS is one shared by many. From its impact on food and fuel prices, to potential engine damage and the detrimental environmental impacts, the RFS is proving costly for U.S. businesses and families. It is time for Congress to repeal the Renewable Fuel Standard before even more damage is done.



ENERGY ENERGY

## AEROSPACE, DEFENSE & HOMELAND SECURITY



SPECIAL REPORT:  
SALUTING AMERICA'S MILITARY & VETERANS

Coming September 25, 2013  
In The Washington Times

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# CANCER ANSWER?

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# ENERGY IS HERE.

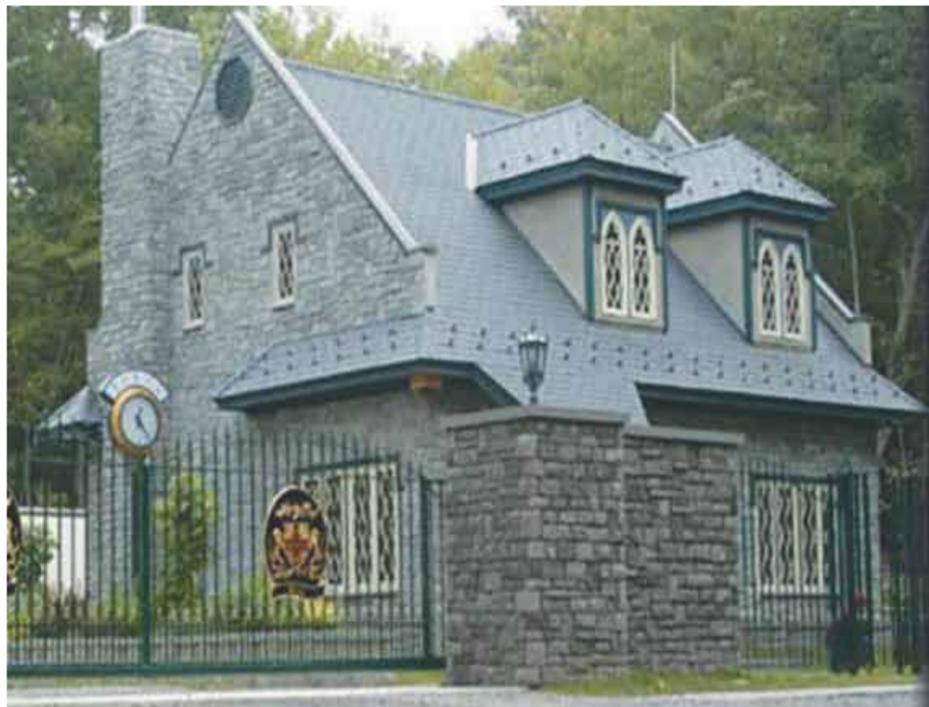
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HERE AND NOW.**

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# Beyond this Gatehouse is what may well be the "Key" to Cold Fusion — Light Water —

with a bond angle of 114° that may aid in creating heat with cold water... using 2% or less of the energy it creates to generate enough energy to light a home, power the family car or fuel an 18-wheeler on a busy highway.

Water—H<sub>2</sub>O (hydrogen hydrogen oxygen) with a simple bond angle of 104° is absolutely essential to life. All life. Not just people and animals, but all organic life on Earth which includes every organic and inorganic living thing on this planet. A space traveler approaching Earth would be amazed at the one key difference between Earth and all of the other planets in our solar system it appears blue. Our planet looks blue not because water is blue, because it isn't. It is the oxygen molecules present in the atmosphere that make it appear blue. NASA calls Earth the "big blue marble." Most scientists are fascinated by the anomaly, but at least one, an engineer by trade, became ever more fascinated by those simple 104° bond angle water drops that still make the world look blue from space. But that engineer and inventor—John Ellis™ of Crystal Clear™—turned water completely upside down using a radically different, patented method of distillation that permanently changes the bond angle of water from 104° to 114°.

Over 50 years ago John Ellis™, who holds over 28 patents in everything from aeronautical design to the most unique water distilling systems in the world stumbled across the process to alter the property of water with the most unique distillers invented by man. Why distillers? Because John Ellis™ became fascinated by the curative characteristics of water. Water is a solvent and a transporter of all of the elements that enter our bodies. Every nutrient we consume as fuel is transported to every cell in our body by water. Our bodies, while carbon-based, are 96% water. The blood that courses through our veins is largely water. That blood, which carries oxygen to every organ in our body does so because water makes blood liquid enough to flow. Without water as a transporter, your blood would thicken into sludge, and just like clean oil is needed to lubricate industrial gears and keep that machinery running smoothly, water is the lubricant that keeps our body parts working smoothly because water is also the cleanser that clears waste from our body.

Add to that John's natural curiosity about...well, just about everything. So when the Ellis family entertained pharmaceutical pioneer Elmer Bobst (head of what was Warner Lambert at that time, now Pfizer), Mary Lasker, founder of the American Cancer Society and a man known to the Ellis family only as "Otto." At the Ellis estate, John was fascinated by the views of his guests. Otto piqued John's interest to delve deeper into water—simple water—to determine its curative properties. Only, the water John Ellis™ electron distillers created was not simple. The idea came from Otto, who turned out to be Baron Otto von Bolshwing—a man with a CIA dossier that any movie director would have paid a fortune to convert into a movie script.

What started John's mind on this odyssey was a comment Otto made: "The only home water system that will work to clear pathogens from the body must change the properties of water, and subject water to intense ultraviolet radiation and heat by repeatedly recycling that water hundreds of times per gallon—not just once!" Then Lasker said something that chilled Ellis to the bones. "Millions of people will become susceptible to cancer [not because they are genetically predisposed to it but] because when the mixtures of drugs and latent disease markers are flushed into the city's sewer system and end up in the ground water supply, eventually to be reprocessed back into our drinking water supply because water treatment plants use a 'single pass' purification, distillation and filtration system..." Those drinking that water will consume whatever pathogens and waste particles were not filtered by nature nor killed in the purification and distillation process at the treatment facility. Remember, we live in a world that reuses everything. Nature is, itself, the world's greatest recycler. What you drink and expel today will quite possibly be in someone else's cooking pot tomorrow.

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Edward Coty, a Washington Post Foreign Service writer wrote an article on January 27, 1992, page A10 about a "miracle well" in Tlacote, Mexico. His article began: "By the thousands they waited; men, women and children, equipped with plastic jerrycans and tranquil faith in miracles that has adorned Mexican history since pre-Hispanic times.

"The line stretched alongside a dusty road for more than a quarter of a mile one day last week. On other days it strung out for more than a mile as hundreds of thousands of sick and lame line up for the "light water" in Jesus Chahin's well—the miracle water that is said to cure everything from AIDS and cancer to obesity or high cholesterol.

"For me, all of these things are God's miracles," said Mary Guadalupe Aguilar, a Dominican nun who drove 175 miles from Puebla along with a fellow nun and a priest, Father Juan Crespo, who has prostate cancer.

"Chahin, a wealthy rancher, has been making the water available free to the public since May, 1991 ever since he accidentally discovered its healthy properties by observing the swift recovery of a farm dog who had lapped some of it. But Chahin quickly dismissed the reporters continued reference to "miracle water," by explaining he was using distillers purchased from Crystal Clear in the United States, and the "curative power" comes from the constant movement of water from one metal tank (the distillers) to another. Whenever any of those in search of a miracle through references to Christian faith, Chahin said he tells them there's no miracles here, only science.

"But Chahin, a Roman Catholic himself, makes sure when those seeking water speak of miracles, they understand the water has no divine power. "The water is scientific," Chahin told the Washington Post, but man is God's creation."

Millions of people go to John Ellis.com every year. Thousands of people buy one or more of the Crystal Clear™ distillers that permanently turns the bond angle of his water from 104° to 114°, or they buy gallons and gallons of his water. For that reason, Crystal Clear™ is now the best known distillers in the world. And, for that same reason, sooner or later someone who needs John Ellis water™ for something other than drinking would read the John Ellis™ ads and apply John's water for some other scientific application. All scientific advances begin with curiosity.

The curious person was David Davies, CEO of Powergate Technologies, LLC which has been researching and developing HHO (hydrogen-hydrogen-oxygen) hybrid conversion systems for trucks and cars since late 2007. Powergate's current hybrid system adds 25% to 35% gains in fuel mileage. In addition to creating a fuel-efficient HHO conversion hit for cars and trucks, Powergate is also perfecting a zero-pollution, extremely efficient home heating and cooling system that burns HHO generated from tap water. Add to that the possibility of buying an HHO electric generator that serves as a back-up system to your power company's electrical system.

Okay, now you're curious. What would Davies want with John Ellis' 114° bond angle water, the stuff you drink? Davies discovered that the properties about John Ellis™ water, that makes thousands of American homes buy his water, may well work in an entirely different application. It might even be the key to something called "cold fusion." John Ellis™ water may well be the catalyst that makes cold fusion really work.

Davies, like scores of other HHO developers was quick to grab what information they could from the late Stanley Meyers' 44 patents on HHO technology when the patents expired after Meyers' death in 1997. Meyers claimed to have perfected the science behind HHO powered automobiles which is like claiming you have perfected Cold Fusion) by producing 300% more energy than the electricity required to generate the hydrogen needed to operate the vehicle from water. Meyers was a deliberately obscure inventor who equipped his dune buggy with a HHO fuel system and ran it on nothing but tap water for three years.

**As Meyers continued to defend his statements of generating 300% more energy than the electricity consumed to create it, scientists continued to refute his claims by saying an over-unity device was impossible. To prove he was correct, Meyers subjected his patents to three years of rigorous testing by the US Patent Office, proving beyond a shadow of a doubt that his HHO invention really worked. The one problem with Meyers' work is that because he constantly feared someone would steal it, he cloaked his discoveries and methods in obscure terminology that he simply made up to protect his work. He used that created terminology in his patent applications, keeping his code secret. Meyers' Water Fuel Cell, a variation of which is now being used by Davies and everyone else experimenting with HHO, was subjected to three years of testing by the Patent Office and Meyers claims have been substantiated.**

Davies had one problem with his invention—he couldn't achieve the 300-to-1 ratio Meyers claimed in his notes. In Meyers' notes, Davies observed the question Meyers asked himself: "How do we switch off the covalent bond of the water molecule, and do it economically?" He answered himself: "We need a way to switch off the bonds and not process the water molecule in any way. Normally the oxygen atom has 8 protons and 8 electrons.

But when the oxygen atom accepts the negatively charged hydrogen electron there is an electrical imbalance. The oxygen atom still has 8 protons, but because of the hydrogen atoms, it has 10 electrons. Meyers realized that because there is no electromagnetic field between hydrogen and oxygen, all he had to do was reverse the electrolysis process. Under Newton's second law, all Meyers had to do was set up opposite electrical charges to make the positive field attract the negative charge. The positive field, according to Coulombs Law, would repel the positive charge and the positive field would then attract the negative charge. When Meyers' patent clerk realized Meyers was describing a form of cold fusion in his patent application, he said: "Why in the world did no one ever think of this?" I think someone did. His name was Michael Faraday.

Faraday may have theorized cold fusion in the early 1800s, long before the technology to achieve it existed. Meyers may have achieved the concept in 1997, but David Davies wasn't getting the results he wanted.

On April 23, 2013 John Ellis™ received a fax from David Davies concerning what the as many as 10,000 pilgrims a day carrying their jerrycans to Jesus Chahin's well called "miracle water." Davies needs some "exceptional" water. In his fax, Davies said:

"I've been researching and building hydrogen generators for big trucks since 2007. So, when a friend of mine sent me a copy of the John Ellis™ water advertisement from a magazine I went ahead and requested a free sample of John Ellis™ water to test with my new HHO (hydrogen-hydrogen-oxygen) cell design.

**"After mixing KOH and well water for the electrolyte, I connected my cell to my Pulse Width Modulator that pulses energy from a 12-volt battery. As suspected, the amps shot up to over 35 amps blowing a few 30 amp fuses. So, I added two cups of hydrogen peroxide to dilute the electrolyte. "The cell had excellent HHO output and the amperage immediately dropped a little bit down to 29 to 30 amp range where it remained. Every day I ran the cell for about 15 minutes and the amps remained in the same 29 to 30 range.**

Then my 4 oz. free sample of John Ellis™ water arrived so I put 10 drops of the water into the electrolyte. I continued to run the cell several times a day for 15 to 30 minutes and, to my surprise, the amperage kept getting lower.

It was using less of the battery's power to make hydrogen. A couple of days later the cell was still producing lots of HHO, But the amps had dropped to about 15 amps, then to 12, then to 7.5 amps. So, I decided if a little more John Ellis™ water could make the electrolysis so efficient, I would add another 10 drops. The amps continued to drop. I was dumbfounded. My electronic engineer said there had to be something wrong with my ammeter or I messed up my experiment somehow. After seven days of testing, it remained steady at 1 amp—but the HHO output was the same as when the cell required 33 amps.

Today, I decided to save the electrolyte with the John Ellis™ water and use it to test a brand new cell in case there was something defective with the original test cell. To my total amazement, the cell began to produce lots of HHO as it was "broken in"...but the amps dropped from one amp to an indicated zero amps. The ammeter goes up to 60 amps so the calibrations are coarse, but even so, my new cell is using no more than 1/2 amp to produce lots of HHO.

As a researcher who devotes all of his time in the study of using water for the fuel process, this appears to be a breakthrough since I'm producing abundant HHO (lots of energy when burned), using almost no electrical power to generate the HHO fuel. This is the cleanest energy on the planet since the only emissions when HHO is burned is pure H<sub>2</sub>O. If the John Ellis™ water is used with my new cell design, fuel mileage will go way up. The HHO can also be used to heat and power your home because they are no harmful emissions, and it is so efficient the device, using John Ellis™ water as a booster, consumes very little Electricity."

Each new discovery man makes is a new first step of a new journey to even more important discoveries. Stanley Meyers started the journey that David Davies now walks. Davies footsteps just crossed paths with the footsteps of engineer and scientist John Ellis who discovered that H<sub>2</sub>O with a bond angle of 114° instead of 104° permanently alters water and makes HHO burn a hundred times more efficiently.

About the same time Davies was starting Powergate, Dennis J. Klein of Clearwater, Florida formed his own company, also in the footsteps of Stanley Meyers' genius. His company is called Hydrogen Technologies Applications. He is also using HHO to power cars. He branded his product as Aquygen® gas (a new spelling for the word "oxygen.") Klein converted his Ford Escort to use HHO. He calls his hybrid HHO system HHOS for "a hybrid hydrogen-oxygen system."

What makes Klien's HHO application interesting is that after converting his Escort into a HHO hybrid, he began experimenting with other applications for HHO gas. Klein converted a normal acetylene torch into a HHO torch. When he lights up the torch, he can place his bare fingers at the metal tip of the torch just below the flame—and it remains cool to the touch. Yet the flame of the torch is so hot it will immediately cut a building brick in half with a heat comparable to the heat of the sun. The heat was so intense, it took only seconds to burn a hole completely through a cannonball-sized piece of charcoal. Three seconds turned a brass ball into a glowing sphere and tungsten lights up like a fluorescent tube. Steel slices on contact. Yet, the instant Klein turned off the torch, it was still cool to the touch. That is Cold Fusion.

If Cold Fusion has been around since before 1997, why are our cars powered by gasoline, and our homes heated, cooled and lighted by coal and oil? Because, until David Davies put ten drops of John Ellis' 114° bond angle H<sub>2</sub>O in the hydrogen cell he was experimenting with, HHO consumed too much of the power it produced while creating it. **But it just may be that the world's purest and most pathogen-free drinking water just may be the key to Cold Fusion. In fact, if you really think about it, when you look at the John Ellis water™ for drinking, you could probably call it "cold fusion for the body."**

**About John Ellis Water®** ....The 82 year old inventor is a Choate School and Lafayette College Engineering graduate. At just 17 years old, he invented a scientific measuring device that is still used worldwide. After working as an Oil Well Engineer, a Design Engineer at Douglas Aerospace and Honeywell Engineer, he started his own business at age 30 and invented a switch that operates (on-off) within .0001 of an inch. Honeywell and Military/Industrial users say, "He's the only person that knows how to produce it!" Likewise, textbook sciences claim "you can't change water properties" but **John Ellis HAS changed the properties of water...for the benefit of all mankind!**



**LISTEN TO A TOLL FREE RECORDING AT 1-800-433-9553**  
Watch a video online of John Ellis, 82 year old Inventor • [www.WaterCuresAnything.com](http://www.WaterCuresAnything.com)