







































Rep. John Boehnerpage 2
Rep. Fred Uptonpage 2
en. Orrin Hatchpage 2
Gary Doer, Canadian Ambassadorpage 4
Rep. Don Youngpage 4
en. John Thunepage 6
en. David Vitterpage 6
en John Hoeven nage 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

### American Energy: our new economic frontier



By Rep. John A. Boehner Speaker of the House (R-OH)

Representing Ohio's 8th Congressional District

At a recent speech before the National Association of Manufacturers, I challenged leaders in both parties to embrace a new economic frontier that will fuel robust economic growth, revitalize manufacturing, and make us a nation of builders again: American

Just days later, President Obama gave a speech on the same topic - except his was an attack on American energy.

visor said "a war on coal is exactly what's needed," but that's far from the only target.

Thanks to improvements

in technologies, like combining hydraulic fracturing and horizontal drilling, natural gas production on state and private lands is up 40 percent and oil is up 26 percent since 2007. However, federal oil and natural gas production has already dropped by more than 14 percent on the president's watch, and now his administration is expanding its reach and taking aim at the energy boom that's happening outside its control. Making matters worse, on federal lands the administration has proposed new regulations that would impose a one-sizefits-all policy on states that have been safely and effectively managing this type of energy production for years.

The Obama administration's energy freeze extends offshore too, with a five-year leasing plan that puts 85 percent of those areas off limits.

Indeed, one White House ad- This is the fewest number of new lease sales in history, and dismantles a bipartisan agreement reached in 2008 to lift the long-standing moratorium on offshore energy exploration and development.

Energy costs are a make-orbreak issue for businesses large and small. Keeping our affordable resources under lock and key only hurts our ability to rebuild our manufacturing sector, create jobs, and make America more competitive.

A true all-of-the-above energy strategy that taps the full potential of America's resources will unleash a wave of innovation and prosperity. It is a key tenet of the Republican Plan for Economic Growth and Jobs, and it will make life easier for American families and small businesses struggling with fewer jobs and higher energy bills.

As part of our all-of-theabove energy agenda, the House recently passed legislation to open up America's most resource-rich offshore areas to energy exploration and development. Recognizing that our energy future must encompass all types of power, we've passed bipartisan legislation to reduce unnecessary and duplicative costs holding back hydropower development - a renewable energy source that will bring jobs and revenue to rural areas. These efforts will continue, as will our fight for the widely-popular Keystone pipeline.

After more than four years of delay, we passed a bill to green-light the Keystone pipeline and remove legal barriers to its construction. The project is backed by an overwhelming majority of Americans, and has become a rallying point for workers. From construction to manufacturing to refining, the Keystone pipeline will create tens of thousands of new jobs in America and pump nearly a million barrels of oil a day to U.S. refineries, making us less dependent on unstable sources of foreign energy. And it will prevent jobs and energy

from being shipped overseas to China. But while the benefits of Keystone are clear, its future under this administration is

The president now says he will approve the pipeline only if it does "not significantly exacerbate the problem of carbon pollution." While some speculate that the president is signaling his intention to reject the pipeline, doing so would violate the standard he himself has laid out. According to the State Department, approvingthe Keystone pipeline will have "no significant environmental impact," as those resources will be developed regardless of whether they're shipped to America or China. We should keep Keystone jobs and energy right here in North America.

The House will continue working to advance an all-ofthe-above energy policy to create jobs and make energy more affordable. What we need now is a partner in the White House whorecognizes American energy for the new economic frontier that it is, and reverses course on the policies that are holding us back. Once we stop this war on American energy and put in place common-sense policies that expand American energy, we can revitalize U.S. manufacturing, bring jobs home, and begin a new era of robust economic growth.President Obama should put his political calculations aside, stop standing in the way of American energy, and join us in the effort to restore our nation of builders.



### Securing our energy future



By Rep. Fred Upton (R-MI)

Representing Michigan's 6th Congressional District

nologies and private sector in-This energy boom is transform-

and it has the potential to be demand for energy. This, while only add to the existing regula- and affordable energy, is being creators from higher energy of our generation. But instead an increasingly hostile regula- of red tape already dispensed of taking steps to foster this tory environment that will also by EPA. Over the past four and dent is proposing to reverse it low-sulfur coal. with new energy-related reguglobal competitiveness.

America is in the midst of thereby raising the cost of en- to become the world's largest raise the cost of gasoline by up mittee, requires that before EPA America. The Energy Consumnovations that have allowed the unemployment line. Al- safely and responsibly develop developers to tap into rich re- though U.S. emissions in virtu- our resources. With so much sources and unlock a bounty ally every category are already at stake, leadership matters. of affordable energy supplies. on the decline, these new rules That's why it is so troubling ing our economy, helping to carbon dioxide emissions. As our energy future squarely at revive factories, and creating the administration works to the mercy of his Environmental new jobs and investment op- regulate American coal out of Protection Agency. portunities across the country. existence, China and India are Our energy renaissance pro- reportedly building hundreds plans to impose greenhouse the prospect of new economic checks and balances are necesvides the promise of a 21st- of new coal plants in the com- gas regulations on new and century industrial revolution, ing years to meet their growing existing and power plants will possible by access to reliable and protect consumers and job

lations and top-down govern- be able to compete in a global ment mandates that will de- marketplace we must find a stroy jobs and undermine our way to keep energy affordable and reliable. The good news is The administration's re- that America has been blessed cently announced climate ac- with an abundance of energy tion plan would impose ex- resources - we are the largest pensive or unachievable new producer of natural gas, we rule (which EPA estimates will authored by Rep. Bill Cassidy handicap our manufacturers, embrace this supply abundance yet more job losses and higher than \$1 billion, the agency must energy future back on course. and put more Americans in and move forward with a plan to energy prices for American report to Congress on certain will have little effect on global that the president is placing

The president's announced

For American companies to array of new rules imposing trol of our energy future from are implemented. billions of dollars in compli- EPA. The House will soon vote Utility MACT rule (estimated the Energy Consumers Relief on energy producers totaling transparency and oversight of up to \$9.6 billion annually) to EPA's most expensive energyconsumers, businesses, and cost, benefit, energy price, and manufacturers.

nation's energy policy through be prohibited if the Department its environmental policies, of Energy determines, in conseeking to regulate where the sultation with other relevant administration was unable to agencies, that it would cause legislate. Our new era of en- significant adverse effects to ergy abundance, along with the economy. These sensible growth and job creation made sary to rein in EPA's overreach

the American success story American companies are facing tory requirements and reams threatened by these costly government mandates.

Standing up for jobs and afjob impacts. A proposed bil-EPA is effectively setting our lion-dollar energy rule would

prices. It only makes sense that we should fully understand the costs of new regulations and growth and rebirth, the presimake it more difficult to export a half years, the agency has fordable energy, the House is their potential impacts on jobs proposed and finalized a broad taking action to take back con- and the economy before they

America is at a critical crossance costs, ranging from EPA's on commonsense legislation, roads. We can either choose higher energy prices and inby the agency to impose costs Act, which will increase the dustrial stagnation, or we can embrace our energy abundance and its promise for our nation's the agency's proposed Tier 3 related rules. The legislation, manufacturers and our overall economy. It is clear the presigreenhouse gas regulations have the world's largest supply cost \$3.4 billion annually once (R-LA) and advanced by the dent and his administration on America's power plants, of coal, and we are on track fully implemented and could Energy and Commerce Com- have chosen the wrong path for an energy renaissance and on ergy, which will only serve to oil producer. To achieve our to 9 cents per gallon). The new finalizes new energy-related ers Relief Act is a step in the the brink of a manufacturing drive up families' energy bills, full energy potential, we must power plant rules will result in rules estimated to cost more right direction to help get our



### President Obama's energy policies holding the economy hostage



By Sen. Orrin Hatch (R-UT)

Representing the state of can energy - coal.

In February, President Obama spoke to the American public in his annual State of the Union address and said that "no area holds more promise than our investof talking about it, we're finally poised to control our own energy future."

ing more.

to stand in the way of the Key- creation that comes with that. stone XL pipeline and the jobs that come with it.

it seems to mean a "war" - in the DC said it would be limiting rewords of one of the President's search, demonstration and, most energy advisors - on one of the important, commercial producmost abundant forms of Ameri-

eral government owns about 66 that about 200 square miles of percent of the land in the state. land previously-approved for What does that mean? It means that bureaucrats in Washington longer be developed. That repcan limit the development of resents roughly a third of the ments in American energy." He American energy in our state. lands proposed by the Bush went on to say that "after years Utah can lead the way with the administration. energy resources we have. We can create jobs through the re- is what the most Americans had

to control our own future" seems natural gas. But Washington to be stopping domestic energy continues to stand in the way of production in favor of import- opening up more public lands for domestic energy produc-It seems to mean continuing tion, and in turn limiting the job

Here's a perfect example. Last fall, the Bureau of Land Man-And perhaps most troubling, agement (BLM) in Washington, tion of oil shale and tar sands in Utah and several other west-In my state of Utah, the federn states. In Utah, that meant commercial leasing would no

It's hard to imagine that this coverable oil from oil shale, oil in mind when the President said

much "promise."

which will create thousands of jobs across the country.

partisan group of 19 of my Senate colleagues – 10 Republicans, 10 Democrats – in writing to Secrethe five months since.

Then most recently, mere one of the President's energy ad-

visors called for a "war on coal."

Unfortunately, "finally poised sands, coal, coal-to-liquids and that American energy holds took the stage at Georgetown the development of American University and said "we need energy, not the importation of Also hard to imagine is why to act" on climate change. The foreign sources. They deserve President Obama refuses to ap- President seems to forget the American energy that lowers prove the Keystone pipeline, fact that his climate agenda costs, not causes them to "sky-- cap-and-trade - was shot rocket." And this can all be done down by both Republicans and Shortly after President Democrats. How bad would the Obama spoke so enthusiasti- President's cap-and-trade en- serve action, not lip service. My cally about developing more ergy policies be for our already state of Utah stands ready to help American energy in his State of struggling economy? Consider- lead the way of our country's the Union speech, I joined a bi- ing the fact that the President economic recovery through enhimself said energy costs would "necessarily skyrocket" under President and an Administration his wishlist, it's hard to imagine that will let us do it. tary of State John Kerry urging that a struggling family in Sandy, quick approval of the pipeline. Utah, or Chicago, Illinois would It's been radio silence since in be too happy about paying more for the energy their family needs.

> The fact is that when it comes hours before what was couched to American energy production, as yet another major speech by the Obama Administration has the President on energy policy, been far more talk than action.

Americans deserve an energy agenda that works. They Hours later, the President deserve policies that encourage

in a responsible and safe way.

But most importantly, we deergy development, but we need a



### 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



### 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.



<sup>\*</sup> Source: U.S. State Department

<sup>\*\*</sup> Source: Canadian Energy Research Institute, July 2012 (CERI)

### Go with Canada



By His Excellency Gary Doer, OM Canadian Ambassador to the United States

Much has been made about the proposed Keystone XL project. But there is more to the Canada-U.S. energy relationship than going from 81 to 82 pipelines between our two countries.

Canada is the United States' largest trading partner. Every year, there is more than \$700 billion in two-way trade between our two countries. In fact, a truck crosses our shared border every three seconds, every single day. Canada is the number one export market for 38 American states, contributing to more than eight

million American jobs.

partnership is energy. Knit together by a vast, interlocking net- Canada is also expanding its work of pipelines and transmission lines, Canada is a leading from other renewables. Wind supplier of all forms of energy to the United States, including three million barrels of oil and of electricity in Canada. The petroleum products per day, well average annual growth rate for over the combined U.S. imports of oil from Saudi Arabia and 40 percent over the past 10 years. 1990.

ports comes from Canada, fathe world. Canadian electricity not only provides a reliable source of energy; it also plays a critical role in our collective efforts to reduce greenhouse gas emissions (GHGs). 63 per cent of the electricity generated in Canada is renewable. Canada is has introduced stringent emiswell positioned to provide the sion standards for new and exist-U.S. with clean, renewable, and ing coal-fired electricity plants. reliable electricity for decades to come. Agreements with electricity companies from both our countries also allow us to assist

each other in restoring power At the heart of that economic following natural disasters.

> Beyond hydro-electric power, capacity to generate electricity and solar photovoltaic (PV) are now the fastest growing sources wind and solar has approached

Since 2006, Canada has in-Almost every kilowatt of vested more than \$10 billion in electricity that America im- green infrastructure, energy efficiency, clean energy techcilitated by proximity and the nologies and the production of largest shared electrical grid in cleaner fuels and smarter electricity grids. These investments contribute to our goal of reducing GHG emissions by 17 percent below 2005 levels by 2020 - a target shared by both the U.S. and Canada.

> To reach this target, Canada This standard will lead to a phase out of coal plants using traditional technology.

> > Canada has also established

tough new regulations to reduce energy needs while lessening is consistent with our nations' GHG emissions from vehicles. Canada is working closely with the U.S. on the development of all of its vehicle and engine on both sides of the border.

emissions are at their lowest to the Canadian Energy Research level since tracking began in Institute, with future growth in

While both the U.S. and Canada are working hard to develop alternative sources of energy, it's clear that oil will remain a dominant fuel for years to come. In fact, according to the International Energy Agency, fossil fuels will continue to be a major most optimistic scenarios for the development of alternatives. Finding reliable, stable sources of oil is critical.

Canada has the third largest oil reserves in the world at 173 billion barrels. The oil sands represent 97 per cent of Canada's reserves and are an enormous strategic asset in meeting American dependence on unstable foreign suppliers.

exciting economic opportunities emission regulations, to ensure for Americans. More than 1,000 common standards are in place American companies supply goods and services to Canadian Canada's per capita GHG oil sands producers. According oil sands production reaching 4.5 mb/d by 2035, oil sands development could support an annual average of about 170,000 indirect stewardship. and induced jobs in the U.S. and \$15 billion to the U.S. economy and secure sources of energy, between 2011 and 2035.

Canada and Mexico have the source of energy in the world in resources to meet all of Ameri-2035. That is true even under the cas' future needs for imported oil. The proposed Keystone XL pipeline would transport oil from America's partner in providing Canada, Montana and North Dakota to the Gulf Coast. KXL

historic energy, environmental and economic interests. Three The oil sands also present environmental assessments by the State Department have determined that KXL would have no significant environmental impacts. KXL would create tens of thousands of American jobs, enhance U.S. energy security and be done in an environmentally responsible manner by a country that shares a common commitment to environmental

As Americans look to the contribute an annual average of future and to their need for safe they can do so knowing that just such a supplier is close at hand. With a stable democracy, strong economy and proven environmental record, Canada is the energy North America needs to build the future we seek.



### Developing oil sands responsibly

rowed his wife's washing machine in 1921 to conduct an experiment with a heavy petroleum product called oil sands, little did he realize he was unlocking the future prosperity of Alberta, Canada. By "washing" oil sands in a hot water process, he successfully separated the oil from the sands and proved that this sticky product, which was once used to repair canoes or in the US over the next 25 years, pave roads, could be upgraded and increase American GDP by to commercial grade oil.

Fast forward almost 100 years and thanks to technological advancements in extraction and upgrading, the oil sands are one of the biggest drivers of Alberta's America. We also know there said for the other foreign counand Canada's economy.

to the United States.

America's largest source of imported oil, constituting a textbeneficial relationship. Continued oil sands development is expected to lead to an average of 138,000 spinoff jobs annually

heavy oil they produce, which and responsible energy supplier already fills pipelines supplying to the U.S. The same cannot be With established reserves of new pipelines like Keystone feed U.S. energy demand. 169 billion barrels - the third XL. Alberta is committed to largest in the world - the heavy strong environmental policy, stand that Alberta, and specificrudes that form the oil sands clean technology development, cally projects like Keystone XL, areas are poised to address the a healthy energy sector, eco- are not looking for a free pass. world's increasing demand for nomic growth and plentiful job Far from it. As a world-leading oil. Oil sands production has opportunities for the middle responsible energy producer, we

rels a day and that number will and decision makers on both on what we are doing, and ad- by informed debate and diathe right balance and moving

book example of a mutually responsible oil sands development. And we are prepared to work with our federal government and our American friends to push the bar higher in addressing climate change.

are questions about proposed tries and regimes that currently

Americans should also under-

That's why Alberta has deaccessible database of industry ctions past, present and future, available at www.oilsands.altal monitoring and reporting our vision is broad enough to derstands what we're fighting for. initiative will eventually spread province-wide.

> Alberta welcomes the scrutiny. We have nothing to hide and much more to gain from informed discussions of the

When Dr. Karl Clark bor- already reached 1.7 million bar- class. The challenge for policy know there is additional focus issues. Good science is driven embrace the environment and meet. We continue to push in- to information allows people We stand ready to demon- while lessening the impact of ask questions about oil sands open and transparent about the public reporting is a model for all jurisdictions to follow, and we

Through our policies and our environmental performance dent Obama, North Americans water, air, land, and biodiversity. shouldn't have to choose be- We're taking bold steps in con-We know there are questions Americans can be confident that berta.ca. That's also why we're tween jobs, growth and security tinued development of the oil about Alberta's oil sands and the Alberta is the safest, most secure setting up an arm's-length on the one hand, and strong sands and to ensure the world agency to oversee environmen- environmental protection on knows that this critical resource tal monitoring in the oil sands the other. It's up to all of us to is being developed responsibly. region of northeastern Alberta. nurture our deeply rooted part- It's a matter of putting the facts This science-based environmennership, and demonstrate that into the debate, so everyone un-

the economy. This is what Cancontinue to grow, as will exports sides of the border is striking ditional responsibilities for us to logue. Open and easy access ada-US energy trade is about This is what our friendship and Indeed, Alberta is already our countries forward, together. dustry to improve performance to form their own opinions and our whole relationship is about.

> The best in all of us will make strate our strong track record on oil sands development on the industry performance and regu- our path to energy independence environment. And we will be latory oversight. We think our also be our path to economic

> > In Alberta, we work conknow that the trend for oil sands stantly to balance the need for veloped a comprehensive and production is to lower emissions. economic development with To echo remarks by Presi- the imperative to safeguard our



ENVIRONMENT ENVIRONMENT ENVIRONMENT

### Energy independence deserves its vote in the Senate



By Rep. Don Young (R-AK)

Representing the At Large District of Alaska

are sick and tired of high energy prices. From the gas they pump into their cars to their home electricity bills, high energy costs are plaguing the pocketbooks of

Reasonably, Americans expect and special interest elites. their elected officials in Washington to address these prob- who are already seeing their lems in a smart, bipartisan and incomes shrink, their home valresponsible manner.

quick fixes thrown at the prob- for politically-favored, expensive United States must become en- another Solyndra, Al23, or Everergy independent; and the good news is that we have the ability to do so.

above" energy plan, but sadly his definition of "all of the above" House of Representatives in off by President Obama, and apmeans driving up the cost of the January 2011, House Republi-

Instead, average Americans, ues diminish, and their retire-Throughout my 40 years in ment savings lose value, can Congress, I have seen plenty of hardly afford to pay a premium lem, but to truly address it, the energy. Americans cannot afford green Solar bankruptcy.

offer a different approach, one Since taking office over four that offers to relieve high energy years ago, President Obama prices and leaves more money in Americans can all agree they has advocated for an "all of the the wallets of American families.

Since taking control of the

with less disposable income to and inefficient energy sources legislation promoting the reral resources.

> Over the past two and half been focused on advancing poliput Americans back to work. And there's no better job creation program than responsiresources.

So far, the House has passed However, House Republicans scores of legislation that would increase exploration and development on federal land, lower barriers to investment, stop job killing regulations, open areas to offshore development closed prove the Keystone XL Pipeline.

spend on food, bills, and leisure. favored by his political backers sponsible development of natu-specifically, the House has en-Senate, refused to even take a gaged on multiple fronts to increase energy development years, House Republicans have in the Arctic National Wildlife As the 113th Congress continues, Refuge, the National Petroleum I hope we find a willing partner cies that grow our economy and Reserve, the Beaufort and Chukchi Seas, and elsewhere. These areas alone could provide millions of barrels of oil every day bly developing our own natural to a thirsty domestic market for generations to come.

Unfortunately, despite the continued aggressive actions by the House, the Democrat controlled Senate continues to chug along ignoring a problem even exists. Regardless of what energy source you support, the Senate is asleep at the wheel, not sending one piece of energy legislation inexpensive, reliable fossil en- cans have been committed to All of these policy improvements of any significance to the House ergy that propelled America into moving the country toward true will lead to jobs, jobs, while during the entirety of the 112th Americans and leaving families prosperity, in exchange for costly energy independence through lowering the high cost of energy. Congress. By the same token,

For my home state of Alaska the Democrats who control the vote on the myriad of legislative proposals passed by the House. with our Democratic friends across the Capitol.





### 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

### 475 businesses agree.

4 Thought Energy LLC 5 Lakes Energy, LLC Acuity Power Group, Inc., Consulting Engineers Aegis Energy Services, Inc. Affiliated Engineers Inc. Affordable Comfort Inc Affordable Solar Hot Water and Power Air Systems Inc. Albright College Algae Aqua-Culture Technology, Inc. Alliance for Industrial Efficiency 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 Energy-Efficient Economy 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** Asheville Area Chamber of Commerce Ashlawn Energy, LCC Association of State Energy Research and Technology Transfer Institutions (ASERTTI) Atlantic Energy Concepts Atlantic Renewable Energy Services, Inc. Avalon Consulting, Inc. Avalon Energy Services, LLC Barber-Nichols Inc. BARC Electric Cooperative Bascom Construction, Inc. Battaglia Electric Inc. Big Town Mechanical, LLC **Biomass Power Association** 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 **Bucknell University** Burns & McDonnell Engineering Company, Inc. Burns Engineering, Inc. California Association of **Sanitation Agencies** California Business Alliance for a Green Economy California Clean DG Coalition (CCDC) California Department of **General Services** California Energy Storage Alliance California Power Partners Cannon Boiler Works Inc Capstone Turbine Corporation Carr & Duff Inc. Cascade Power Group Caterpillar Inc. Cavanaugh Electrical Contracting Inc. CCI Energy ccrd CE3 Cedar Tree Enterprises, Inc Chapel Hill - Carrboro **Chamber of Commerce** 

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Instrumentation and Controls Inc. WBE & WOSB Integral Power Integrated CHP Systems Corp. IntelliGen Power Systems
International Association of Heat and Frost Insulators and Allied Workers International Brotherhood of **Electrical Workers Local 98** International District **Energy Association** J.P. Rainey Co. J.W. Carrigan LLC Jay Industries, Inc. JDMT Inc. JPods, Inc. K&I Sheet Metal Kattner Associates LLC Kawasaki Gas Turbines - Americas Kent State University, Facilities Planning and Operations Kentucky Association of Manufacturers **Kestrel Engineering Group Inc.** Keystone Energy Efficiency Alliance Kickham Boiler & Engineering, Inc. Kilowatt Ours Koda Energy LLC **Kraft Power Corporation** kWh0URS. Inc. Leber Electric **LED North America** Leva Energy Inc Liberty Duct LLC LighTec. Inc. Lloyd's Refrigeration **Longwood Energy Group** 

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M Gitlin Co. Inc.

Magniture Maine Micro Furnace, Inc. Mark E Vermeer, PLC Masonic Villages of Pennsylvania **Master Stainless Steel** McKamish, Inc. McKinstry **Mechanical & Service Contractors** Associations - Eastern PA and **Greater Delaware Valley Mechanical Contractors Association of America** Meredith Management Corp. MESA Landscape Architects MGM Resorts International Michaels Energy Michigan Environmental Council Michigan Land Use Institute Midwest Cogeneration Association Midwest Renewable **Energy Association** Miller Bros Minnesota Municipal **Utilities Association** Minnesota National Guard MMC Contractors West Inc. Monkeytech International LLC Moose River Lumber Company, Inc. Nashua Farmers' Exchange, Inc. Nashville Wire Products National Electrical Contractors **Association and 18 Regional Chapters** National Grid National Insulation Association New Earth Metals, LLC **New England Clean Energy Council** New England Wood Pellet New Mexico Green Chamber of Commerce New York Presbyterian Hospital NewLoop Energy Newman & Company, Inc. Nexant Next Step Energy LLC No Fossil Fuel, LLC North Carolina State AFL-CIO North Carolina Sustainable **Energy Association** North Dakota Association of Rural Electric Cooperatives North Star Energy Consulting, LLC Northampton Generating Company, L.P. Northeast Clean Heat and **Power Initiative** Northeast Sustainable **Energy Association** Northern Indiana Public Service Company Novel Energy Solutions, LLC NRG Thermal LLC **Nuvera Fuel Cells Ohio Environmental Council** Operation Green Jobs Chicago **Orion Energy Systems** Outpost Solar **OutSmart Power Systems, LLC** Pacific Energy Company Paramount Group, Inc. Patriot Renewables, LLC Pennsylvania Biomass **Energy Association** Pennsylvania State University, College of Agricultural Sciences, **On-Farm Research Program** Pepperell Mill Campus Philadelphia Gas Works (PGW) Pleasant View Gardens Polartec, LLC **Power Management Company** 

Powers Energy of America, Inc. Pratt & Whitney Power Systems

Primary Energy Recycling

Prime Solutions, Inc

princetongreen.org

**Pure Strategies** PWI Engineering Qualcomm Incorporated Quality Connection of Indianapolis Quality Mechanical Quasar Energy Group, LLC R.E. Lesniak R.E. North, Inc. Rahr Malting Co. Real Energy Recast Energy Recovered Energy Resources, Inc. Recycled Energy Development **RENEW Wisconsin** Renewable Sales LLC Renovo Power Systems Resolute Marine Energy, Inc. Resource Dynamics Corporation ReVision Energy Revolution Energy Solutions LLC **RH** Irving Homebuilders RMF Engineering Robbins Lumber, Inc. Roy Morrison and Associates LLC Royal Metal Works RPM Mechanical RTP Environmental Associates Inc. Rudd Asset Management LLC Rural Advantage Ryan Mechanical S3H Inc. San Francisco State University Saulsbury Hill Financial, LLC Saunders Hotel Group Save Energy Systems, Inc. Scobell Company, Inc. Seacoast Energy Alternatives Seattle Steam Company Second Generation Energy Self-Gen, Inc. Sheet Metal and Air Conditioning **Contractors' National Association** Sheet Metal Contractors Association of Central Indiana Sheet Metal Workers' International Association Sheet Metal Workers International Association, Local 20 Shelly Electric Company Short Elliott Hendrickson Inc. (SEH) Sidel Systems USA Inc. Siemens Corporation Sierra Construction Services Sierra Nevada Brewery Co. Silva Energy, LLC Smardt Chiller Group Inc. SMRT Architects and Engineers Solar Energy USA Solar Heating Services, LLC Solar Plexus Power, LLC Solar Turbines Incorporated SolarZentrum North America, Inc. Solberg Manufacturing, Inc. Solstice Architecture SourceOne, Inc., A Veolia **Energy Company** South Carolina Association of CDCs South Carolina Small Business Chamber of Commerce South Jersey Gas South Jersey Industries South Shore Mobility Inc. Southeast Energy Efficiency Alliance Southern New Hampshire University Sustainability Department Southland Industries Southwest Air Conditioning SSM Industries Star Harvest Solar Statistics & Controls, Inc. Summerall Electric Co., Inc. SunRise Solar Inc. Superior Electric Sustainable Futures Communications, LLC Sustainable New Energy SustainX, Inc Symbiotic Strategies, LLC

Teamsters Local 391 Tecogen Inc. Tennessee Environmental Council Tennessee Solar Energy Association Terra Shares Texas Combined Heat & **Power Initiative** Texas Renewable Energy Industries Association The Association of Union Constructors The Brevoort-New York City The Buckeye Brewing Company The Cool Solutions Company The Illinois Science & **Technology Coalition** The Lenox Hotel The Minnesota Project The Pew Charitable Trusts The Stella Group, Ltd. The Stratford Companie The Superior Group, A Division of Electrical Specialists, Inc. Thermo Systems Thermogenics Inc. Titan LED Tom Wood Automotive 317.987.4890 Trane TransEnergy LLC Treadwell Institute Tricomm Services Corporation Trinity Green Services Tropenas Company Tuck Hinton Architects Turbo Thermal LLC TVC Systems Twin Willows Construction U.S. Clean Heat and **Power Association** UGI Utilities, Inc **Underground Energy Union of Concerned Scientists** Unison Energy, LLC United Association of the Plumbing and Pipefitting Industry United Management & Consultants United Steelworkers and 3 local chapters University of Iowa University of Michigan University of Minnesota Uponor Urban Grid US SolarWorks, LLC Utility Workers of America Van Ert Electric Company, Inc. Vanalt Electrical Construction Vegawatt Vela Gear Systems Velcro USA Veolia Energy North America Vineyard 29 Viridian Visionary Industrial Insulation W.W. Williams – Onsite Energy Group Wagner Solar Inc. Walden Asset Management Waldron Engineering & Construction, Inc. Warren Energy Engineering, LLC **Washington Gas Waste Management** Wellons Energy Solutions Group WES Engineering West Side Hammer Electric Westerlund Communications Inc. Western Michigan University WI Sustainable Business Council Wilson Engineering Services, PC Wilson Solarpower Corporation WindPole Ventures Wisconsin Farmers Union Wm A.J. Shaeffer's Sons Inc. **World Alliance for Decentralized Energy** Zapotec Energy, Inc.

Tarm USA, Inc.

TAS Energy

First State Electric

Fond du Lac Tribal and

Community College

FuelCell Energy, Inc.

FVB Energy Inc.

**GE Energy** 

FLS Energy

FloDesign Wind Turbine Corp.

Gallagher-Kaiser Corporation

Gas Technology Institute

### Stop holding up jobs for Americans



By Sen. John Thune (R-SD)

Representing the state of South Dakota

our economy and the recent epidemic of bad news about the negative economic effects of the president's health care law, you'd think the president would be ready to seize any opportunity to create jobs and grow our economy. In fact, the president is giving a speech today on the importance of focusing on job

Yet right now, the president is would create thousands of jobs

for American workers without Venezuela. The Keystone pipe-

without the federal government having to spend a penny.

Given the sluggish state of kota, like the other states along the pipeline's route, would see gish economy. It would promote hundreds of new construction American energy security and jobs, plus significant increases in revenue to state and local cally supported by a bipartisan governments once the pipeline majority in the House and Sen-

also be a significant step forrefusing to approve a project that rels of oil per day from volatile can people. Yet despite all this,

spending a dime of taxpayer line would increase American energy production and reduce Almost five years ago, Trans- our dependence on oil from Canada applied for a presidential these countries. With a compermit to build the Keystone bination of oil from Canadian XL pipeline, which would carry oil sands and U.S. shale oil and up to 830,000 barrels of oil per gas production, North America day from Canada and the Upper could be energy self-sufficient Great Plains to U.S. refineries on by 2030. Building the pipeline the Gulf Coast. Construction would also further strengthen of the pipeline would support our relationship with Canada, 42,000 jobs in the United States our nation's largest trading

Approving the pipeline is a My own state of South Da- no-brainer. It would be a significant shot in the arm to our slugindependence. It is enthusiastiate as well as by unions, whose The pipeline wouldn't just members would benefit from the benefit our economy. It would many jobs created by the pipeline. No taxpayer dollars would dependence. The United States And poll after poll has shown currently imports 4 million bar-strong support from the Ameriplaces like the Middle East and the president has stubbornly

refused to approve Keystone.

To justify his opposition, the concerns. He says the pipeline instead of to us. Additionally, reshould only be approved if it bate" climate change and insists that further study is needed. Yet already conducted four environmental reviews and has concluded that the pipeline would not significantly impact climate

10,000 pages of environmental The president's stimulus bill, reviews have concluded that the overall environmental impact of the pipeline will be minimal. In lion failure. American workers fact, not building the pipeline could actually be worse for the economic hardship thanks to environment. Pipelines are actually one of the safest and cleanest ways to transport oil relative to out about increases in insurshipping it by truck or rail.

ward in achieving energy in- be required for its construction. mit does not mean Canada will hiring. And now the president leave this oil in the ground: one is endangering even more jobs way or another, Canada will be transporting this oil. Denying the tal regulations. permit just means Canada will

ronmentally friendly way – and fining the oil in the United States refining the oil in China.

So far, the president has defor more than 1,760 days – that's close to five years. During that been through a steep recession and a recovery that never Additionally, more than seems to pick up much steam. holding Americans hostage to which was supposed to turn our economy around, was a \$900 bilare facing the prospect of more the president's health care law - every day a new story comes ance premiums, reduced worker Denying the pipeline per- hours, or businesses that aren't with crippling new environmen-

It's time for the president to

be transporting it in a less enviaactually do something to create jobs by approving the Keystone president cites environmental likely transporting it to China pipeline. There is no excuse for further delay.

The president's own admindoes not "significantly exacer- is cleaner and more efficient than istration has confirmed that the pipeline will benefit our economy without harming our his own State Department has layed approval of the pipeline environment. The only possible reason for the president to continue to withhold his approval is time, American workers have to curry favor with the extreme environmental wing of his party.

The president should stop the whims of the environmental lobby and approve the pipeline and the thousands of jobs it will create. It's time to get the American economy moving again.



ENERGY ENERGY ENERGY ENERGY ENERGY

### "Sue and Settle" and the Carbon Tax



By Sen. David Vitter (R-LA)

Senator David Vitter of Louisiana is the top-ranking Republican on the Senate Environment and Public Works Committee.

At once, the Obama Administration has advanced the most aggressive, far-left environmental agenda ever and developed the most secretive, behindclosed-doors way of doing it. And that's not by accident. Hiding its full plans from the pubsweeping effect - lost jobs and higher energy prices.

One favorite technique the

far-left agenda in relative obscu- advances its aggressive envirity is through "sue and settle." This is how it works: a far-left messy Congressional hearings environmental group sues a federal department or agency, like regulatory obligations. Then, plan and discuss the matter without the involvement of any others, including affected business, landowners, and state and local governments - they draft agreement.

this scheme. Because such a set- 20 years, the EPA has met CAA tlement is counted as a "win" for rulemaking deadlines just two the environmental group plainall of its costs and attorney's fees, pick and choose what areas to lic is essential because of their creating a revolving fund for its focus on, such as New Source would prefer to do this behind process for the EPA administracontinuing activity, courtesy of Performance Standards and Utilour wallets.

Obama crowd uses to advance its the Obama Administration, and involvement in the process.

ronmental agenda. No need for or opposing arguments.

During this Administration's the Environmental Protection tenure, these friendly settlement Agency (EPA), claiming that the agreements have become the government is not satisfying its norm for the environmental activist community, allowing them after the group and the EPA to force action at the agency. Unfortunately, the resulting regulation often has large scale, negative economic impacts for states, businesses, and landowners.

Environmental groups partica settlement agreement com- ularly see "sue and settle" deals mitting the agency to regulate as a way to get the EPA moving There's even a bonus prize in Act (CAA) programs. In the last percent of the time. Because of ity MACT regulations that target Presto: the left, including coal, gaining enormous leverage

turns its attention to the recently these secret "sue and settle" left to try to use "sue and settle" to establish a carbon tax or its equivalent.

ident Obama laid the groundwork to implement regulations that effectively introduce a carthe summer, or heats their home of government.

the lookout in particular for the tax is not on the table, or even regarding what the EPA is up to. in the room.

During a June 25 speech, Prescrucial part of their extreme to make a difference in stopping agenda without Congressional

The answer is they're trying bon tax on Americans. Now to their darndest. And the Admin- Hard-working Americans debe clear, a tax on carbon is a tax istration clearly has found a suc-serve to know exactly what's a certain sector of the economy on the specific rule-making they on our energy supply. It is an cessful loophole with "sue and being proposed and the impacts or type of private property. All want. The EPA is notorious for economic burden that would be settle" that allows them to force it would have on the environthat's left is to get the presid- missing statutory rulemaking clearly felt by every consumer - unpopular policy on the Ameri- ment, as well as energy prices ing judge to bless their friendly deadlines on virtually every- every American who drives to can people without input from and jobs. thing - particularly Clean Air work, uses air conditioning in the public and other branches

To combat this, Republicans Because a carbon tax will be on the Environment and Public a real body blow to the economy, Works Committee made "sue tiff, that suing group is awarded this, environmental groups can it makes perfect sense that the and settle" abuse a major issue Administration and its allies during the recent confirmation closed doors. They already know tor. As a result, we won several there's zero chance Congress concessions from the EPA, which will pass a carbon tax. During will shed more light on the the Budget Resolution debate agency's actions. This includes

As the Obama Administration in March, Senator Sheldon requiring the EPA to publish Whitehouse (D-R.I.) offered a on two websites the Notices of announced Climate Action Plan, carbon tax amendment, which Intent to Sue (NOI) and Petitions was soundly defeated 41 to 58 in for Rulemaking upon receipt. consent decrees will facilitate the Democrat-led Senate. In the Those websites are already up EPA and environmentalists ef- House, the Republican majority and running and will give afforts to raise energy costs. Be on has made it clear that a carbon fected parties far more notice

But more work remains. We So will President Obama and still need a heck of a lot more his far-left allies implement this transparency and accountability the hidden far-left environmental agenda that could put our economy further in trouble.



ENVIRONMENT ENVIRONMENT ENVIRONMENT

By Sen. John Hoeven (R-ND)

Representing the state of North Dakota

The headlines now regularly report the United States is breaking some new record in fossil fuel energy development. "The United States is on track this year to attain record levels of domestic production of fossil fuels, making the country the most energy independent it has been since 1990," a newspaper article proclaimed last fall.

In both 2011 and 2012 the U.S. broke all-time production records, thanks to places like my home state of North Dakota and

tion's centralized and heavyhanded approach to regulation will only continue to discourage nation's energy resources.

new approach to American energy development, a "states first" approach. It is, after all, states like my home state of North Dakota, as well as Alaska, Wyoming, Texas and others that are measures included building a driving what many are calling pro-growth tax environment an energy revolution by making that invited investment; updating the most of our energy resources geological studies of the Bakken and doing so with good environ- oil formation; improving inframental stewardship.

was up 25 percent, portending we called Empower North Da-Virtually all of this growth is we worked to create a business happening on state and private climate that encouraged energy lands, not because of the sup- companies across all industry port and encouragement of the sectors to invest in our state. federal government, but in spite We created the kind of legal, tax of it. In fact, this administra- and regulatory certainty that attracted capital, expertise and jobs in North Dakota.

North Dakota's oil industry the investment, innovation and is a good example of how this knowhow of the private sector, works. Ironically, ten years ago, and undermine the competence oil companies had left or were and experience our states have leaving our state's oil patch for demonstrated in managing the a host of reasons: better returns elsewhere, inadequate technol-That's why I am proposing a ogy, an aging workforce, lack and insufficient data about our oil reserves.

To turn that around, we built a climate for investment. Our structure; and creating a pipeline North Dakota blazed this trail authority to expand transport

oil fields.

grown to become the 2nd largest oil-producing state in the nation, surpassing Alaska, Oklahoma, Louisiana and California. Notably, our energy policies were not about government spending. They were about our state creatinvestment that generated revreduce taxes several times over the decade.

provide states with the authority they need to create a business environment that will encourage energy investment. For example, proach to fracking was underthe Domestic Energy and Jobs scored by a U.S. Chamber study Act, or DEJA, is a package of 13 of shale energy production rediverse energy bills addressing both traditional and renewable development.

DEJA is designed to is expected to invest more than

others. Moreover, by April of this over the last decade by building capacity. These steps drew bil- streamline and simplify regula- \$5 trillion, create nearly 3.5 milyear, domestic oil production a comprehensive energy plan lions of dollars of investment to tions, boost domestic energy lion jobs and generate more than our oil patch, which unleashed supplies, build American en- \$2.5 trillion to in local, state and yet another record year in 2013. kota. Through Empower ND, the potential of North Dakota's ergy infrastructure - including federal tax revenues. It will do all Since 2006, North Dakota has Empower North Dakota, it's a legal, tax and regulatory environtrue all-of-the-above approach ment that allows it. to energy development that will help drive America's overall eco- we are poised to realize a longnomic recovery and help ad-

A second measure I have introduced, the Empower States ing an environment for private Act, is vital to the recent remarkable growth of shale oil extrac- develop American energy right enues, broadened the economic tion. It will help to ensure that here at home to meet our needs, base and actually enabled us to states retain primary authority to manage hydraulic fracturing. The bill takes a states-first Since becoming senator, I approach because states know of transportation infrastructure have advanced similar initia- their land, their geology and tives in the U.S. Senate that will their water resources and have a vital stake in protecting their environment and citizens.

The need for a sensible apleased late last year. The study projects that between 2013 and 2035, the shale energy industry

America needs a states first, all-of-the-above approach to energy development the Keystone XL pipeline. Like that, I believe, only if we have a

> At this moment in our history, elusive goal - true energy secuvance us toward energy security. rity. We must seize this opportunity to make America stronger, safer and more financially secure by giving states the flexibility to now and for the future.





are good for this home too.



At Georgia-Pacific, we're proud to have been recognized by the American Forest & Paper Association with its Leaders in Sustainability energy efficiency award. The award is part of the association's Better Practices, Better Planet 2020 Sustainability Awards program. In just two years, Georgia-Pacific's efficiency efforts in its large pulp and paper mills reduced our energy use by more than 2 trillion Btu.

In addition, the company uses woody leftovers and byproducts called "biomass' to generate more than half the energy needed to run our mills. Today we're responsible for more than 12% of all the electricity in the U.S. generated from renewable woody biomass. While we use most of this renewable energy, we also support renewable energy development by selling some of it in the form of renewable energy certificates. These efforts reflect our long-standing commitment to sustainability at every level of our organization, meeting the needs of our planet and our customers.

After all, it's our home, too.



GP.com

### It's time to build the Keystone Pipeline



By Rep. Lee Terry (R-NE)

Representing Nebraska's 2nd Congressional District

Since I've been in Congress to limit our nation's energy dependence from the OPEC cartel. That's precisely why I've fought energy plan.

The OPEC countries that we rely on for our energy needs have interests that are often at odds with our own. The case is made by the recent offer of asylum by OPEC country Venezuela

sabotage U.S. national security method of transporting crude sands overseas to refine these tion about classified surveillance

pendence is approving the Keystone Pipeline.

the Keystone Pipeline there have emissions. been over 15,000 pages of environmental reviews. The latest draft environmental impact statement from the Department significant impact on the envi- Pipeline. one of my top priorities has been ronment if Keystone were apclimate change in June, President Obama said that, "allowing the so hard for an all-of-the-above Keystone Pipeline to be built on carbon pollution and run And our national interest will be EIS all but acknowledges that problem of carbon pollution."

to Edward Snowden who is well the President to understand is ness to build a pipeline to the labor leaders tell me the pipeline filibuster proof majorities to not known for deliberately trying to that the Keystone Pipeline is a West to ship crude from the oil will create up to 2,000 jobs.

interests by leaking informa- from the oil sands to our refiner- developments under Chinese ies in the Gulf. So whether or not Keystone is approved, oil sands One option available that development will continue to will help move us toward on occur at the same rate. There- economic security that could North American energy inde- fore, per the State Department's be gained by building Keystone started on this critical infrastrucown draft environmental impact would be another reason the statement, if the Keystone Pipe-In the 1,700 days since the line were approved, there will initial permits were filed to build be a negligible effect on carbon another one of the President's

Under this standard set by the President and the science found in the State Department's draft EIS, we should expect the of State says there would be no speedy approval of the Keystone

I would take it one step forproved. In a recent speech on ward to argue that by not approving the Keystone Pipeline there would be a more damaging effect requires a finding that doing so contrary to our national interest. would be in our nation's interest. The State Department's draft served only if this project does other countries will continue to not significantly exacerbate the explore oil sands. For instance, if we don't approve Keystone,

carbon emission standards.

But to put it in the President's perspective, the job creation and tunately loos like we'll miss anpipeline should be deemed in our nation's interest. In yet jobs tours, he pointed out how energy independence that would streamlining the federal permitting process would help create jobs by building critical infrastructure projects. Ironically, the President gave this speech at the try with a reliable and plentiful manufacturing facility of a busi- supply of energy is an answer nessman who had testified the that makes economic sense. The previous day before the House Small Business Committee that approving the Keystone Pipeline was about jobs.

It's estimated that the Keystone Pipeline will create up to 20,000 jobs directly related to the construction of the pipeline and another 118,000 jobs at manufacturing facilities like the President The important thing for China has indicated a willing-visited. Back at home in Omaha,

approve the necessary permits to build Keystone. But unforture project.

Oil is a commodity and susceptible to market pressures and priced at market prices. The that over 2/3 of Americans supcome from Keystone could cushion gasoline price spikes caused by turmoil in cartel countries in Middle East. Providing our coun-830,000 barrels of oil per day will prime the pump to reduce our nation's energy dependence on these hostile nations, create jobs, and strengthen our relationship with our nation's number one trading partner.

The State Department has said there will be no significant impact to the environment. The Senate has already voted with only build the pipeline but to

It would be easy for the Presistop the endless studies that condent with the stroke of a pen to tinue to delay the project. The House voted in a bipartisan manner to approve my legislation the Northern Route Approval other construction season to get Act which issues the necessary permits that would be required should the project be deemed in the national interest.

> Public opinion polls show port moving forward with this critical infrastructure project. There is no reason for more delays. The science is right and the support is there. It's time to build the Keystone Pipeline.



### Securing Our Energy Future



By Rep. Tim Murphy (R-PA)

Representing Pennsylvania's 18th Congressional District

of nations across the globe. wind will always be limited by nents worry that drilling will Countries like Ukraine are eager natural fluctuations: the sun lead to environmental degradato develop their own reserves, must set and the wind subsides. tion, fracturing has been used while others such as Germany Given that natural gas and fossil to extract natural gas for the last are actively engaged in seri- fuels are necessary for future six decades in the United States ous deliberations on shale gas energy generation, chemical from at least 1.5 million wells. My drilling. Why? Because natural

states to abundant domestic sup-sources becomes all the more plies. This is a homegrown issue for my congressional district The Marcellus Shale, the most geopolitics. productive natural gas field in economic potential.

production, and transportation, home state of Pennsylvania has gas success stories are shifting the question of who controls been safely producing shale gas Revenue reports in a five-year commonsense regulation, other

important.

Consider the three key areas in Southwestern Pennsylvania. of environment, economy, and

the United States, covers nearly gas from shale rock, 99.5 perthe entire state. Our experiences cent of it is water and sand. with shale gas and hydraulic The remaining one-half percent fracturing provide an important is comprised of naturally ocand instructive example to those curring additives used to make nations looking to unlock their the drilling process more efficient. Nonetheless, the number We know future energy needs of chemical additives has been in the United States and other reduced to four or even three

global energy's balance of power access to, and regulations for, by fracturing for years. Contrary period the drilling industry paid countries can tap into the natunever experienced one case of direct groundwater contamination, ever. A recent study by the Department of Energy's National looking at drinking water safety confirms this. To get natural gas right, nations can and must set latest technologies are deployed.

With domestic production dustries like steel and chemidevelopment of shale gas. The understated. Pennsylvania Department of

mentary" films, our country has The Department of Energy re-\$250 billion annually to federal government revenue.

nations for energy has real and sobering consequences. Take strong environmental standards for instance the events of 2009, that can be updated, upgraded or when Russia cut off natural gas modified when needed and as deliveries to Ukraine following a price dispute, or when Egypt unilaterally terminated a gas conof a safe, reliable energy source tract with Israel in 2012. Then of Western nations cannot be met in the case of newer wells, and like shale gas, the impact on the course there was the 1973 Arab Natural gas production is by current solar and wind tech- as research continues industry economy is sizable. Shale gas embargo when oil shipments to booming, changing the eco- nologies. Despite massive gov- is expected to use even fewer. supports 245,000 jobs in Penn- the United State's were cut off for nomic and geopolitical fortunes ernment subsidies, solar and And although fracturing oppo-sylvania, and affordable energy five months, resulting in snarled has revitalized US domestic in- lines of drivers and empty filling stations. Energy independence, cals. Now, billions of dollars are and its simultaneous impact on flowing into the state economy the security, safety, and financial following the expanded safe well-being of a nation, can't be

With careful exploration and

away from belligerent producer- these critically needed energy to the claims of certain "docu- over \$1.1 billion in state taxes. ral gas revolution and begin to lower their energy prices while ports shale gas contributes over expanding economic growth. The breakthrough technology of hydraulic fracturing has been As for the geopolitical con- proven safe over and over again Of the mixture used to free Energy Technology Laboratory sequences of domestic versus in Pennsylvania and elsewhere. foreign energy, relying on other In the balance of "power" debate nations literally cannot afford to ignore, let the actual evidence of the Marcellus Shale in Southwestern Pennsylvania be your



ENVIRONMENT ENVIRONMENT **ENVIRONMENT ENVIRONMENT** ENVIRONMENT

### Time for DC liberals to ditch the Carbon Tax



By Rep. Steve Scalise (R-LA)

Representing Louisiana's 1st Congressional District

Hard work, grit, and determination built America. Those values remain at the core of what makes our nation the greatest country in the history of the world. That same spirit lives on today in states like Louisiana where the domestic energy industry creates high-paying American jobs for middle class families and helps lead our march towards energy independence.

their heads in the sand, want to the Institute for Energy Research change all that. They ignore shows that a strong majority common sense and unbiased of American voters oppose a facts, in a mad rush to pursue carbon tax. I'm proud to lead their radical agenda of restrict- the effort to oppose a national ing American energy develop- carbon tax in Congress. With ment at any cost.

tive - a nationwide carbon tax. our nation from the threat of yet-Regardless of the name, and it another liberal job-killing tax. has had many over the years, the effect of a carbon tax will always energy reserves, the paradigm on families and fewer jobs here at ergy scarcity to the new blessing home. Make no mistake - imple- of energy abundance. We must menting a carbon-tax under the continue this positive trend toguise of environmental regula- ward American energy security tions is just the latest salvo in the if we hope to control our own liberals' pursuit of their radical destiny. Simply put, a carbon tax agenda, and yet another attempt is a step in the wrong direction, to feed their unquenchable thirst and will just be used as another for job-killing tax hikes.

people and the House GOP refuse to be steamrolled by Wash- to see the real-world effects of ington liberals seeking to im- such radical proposals. Just last regulations (See: Obamacare) abandon their push for a carbon

more than 145 cosponsors to our Their latest proposal is nothbill, a powerful group of carbon ing new really, just the same tax opponents is organized and repackaged and renamed initia- ready to act swiftly to defend

When it comes to America's be the same - higher energy costs has shifted from the threat of ensource to fund more bloated Fortunately, the American wasteful Washington spending.

We need only look abroad plement radical polices behind week, high energy prices and threaten to devastate millions tax, admit the devastating impact

But Washington liberals, with closed doors. A recent survey by diminished competiveness in the more families and small busi- of their reckless big government global marketplace forced Aus- nesses. Americans need solutralia to announce they would tions from Washington, not more Republicans to achieve Ameriditch their version of a carbon job-killing regulations and taxes. can energy independence and

> will increase the cost of virtu-Manufacturers recently found that a carbon tax would drop in energy-intensive sectors of and common-sense regulations. non-energy intensive sectors. down a road choked with radi-It would also force the cost of calgovernment regulations, bignatural gas to increase by more government overreach, and the than 40 percent and cause the slow dissolve of the American price of gas to spike by more than Dream as we know it. 20 cents per gallon.

It's been proven that a carbon ton liberals to seek new ways tax will lead to more Ameri- to implement radical policies can jobs forced overseas, and in the pursuit of their extreme represents Louisiana's First agenda has pushed our nation to ally every manufactured good the brink. Two distinct paths are serves on the House Energy that families purchase. A study laid out before our nation. The and Commerce Committee and by the National Association of future holds endless potential if is the Chairman of the Republiwe choose the free-market path can Study Committee, a group towards energy independence of more than 170 conservative output by as much as 15 percent with less government intrusion our economy and 7.7 percent in Diverging from that path leads

Washington cannot continue American families are already handcuffing hardworking Amerstruggling to stay afloat in the ican families and small busifailed Obama economy. More nesses to a stagnant economy than four and a half years of and a bleak future. It's time for failed big-government laws and the liberals in Washington to

policies, and work with House The penchant for Washing- finally get our economy back on track.

> Congressman Steve Scalise Congressional District. He members in the House.



### BROKEN /'BRO-KIN/

## 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 and tell Congress to repeal the RFS today.



### **AFPM**

American Fuel & Petrochemical Manufacturers

afpm.org



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### US Energy Security and it's impact on Foreign Policy



By Rep. Pete Olson (R-TX)

Representing the 22nd Congressional District of **Texas** 

In the last five years, the American energy renaissance has transformed our nation from a beggar on the global energy stage to a titan. For our economy, the benefits seem never ending. For our national security, they are just beginning.

Throughout the 20th century, US foreign policy was closely countries imposed an oil boycott degrees to tap specific strata of the Obama economy. Parts of

on America in retaliation to our fossil energy, often far from the Ohio, hurt by losses in the manu- of Energy has approved two ex- we are writing the next great project power and influence.

calated. By the middle of the have slumped dramatically. 2000's, oil imports reached epic

vation came to the rescue when marked by political instability. the well-known and well-used process of hydraulic fracturing sance is creating wealth in our was meshed with the newer own backyard. Our abilityto tatechnology known as directional precord amounts of oil shale large scale - as long as the Obama ships loaded with gasoline and drilling. Directional drilling al- has cut unemployment in North Administration stays out of the diesel stream from the Gulf of tied to our energy needs. In lows producers to send a drill-bit Dakota to 3.3%. That number way-to turn cheap and abundant Mexico headed for foreign ports. the 1970s, Arab oil-producing straight down and then turn 90 looks like a typo in the era of

military support for Israel in surface drilling site. Along with facturing industry, have been port facilities and many more are chapter in our nation's history. its war against Egypt and Syria. advancements in locating these Americans were soon waiting resources, these technologies in long lines at gas stations. Our began unlocking over a century reliance on foreign energy al- of previously unreachable relowed other nations to wound serves of American oil and gas our economy, exposing an Achil- - assets primarily under private les' heel in America's ability to land. The result has slashed US crude oil imports to nearly seven Our dependence on unre- million barrels per day - and fallliable foreign energy only es- ing. Imports from OPEC nations

Equally remarkable has been levels -nearly 11 million barrels the utter collapse in imports of per day. At the same time, US natural gas from overseas. Since companies spent billions build- 2007, imports of liquefied gas ing facilities to importliquefied have dropped by a remarkable natural gas. American energy 77%. The increase in our domesdollars were being sent out of tic natural gas supply has sigthe country, often landing in the nificantly reduced our reliance coffers of potential adversaries. on energy suppliers like Egypt, Fortunately, American inno- Algeria and Nigeria - countries

The American energy renais-

revitalized. Drilling activity in waiting in line. These facilities It is a narrative that, if allowed Pennsylvania has brought in over will ship American gas overseas to flourish, can mean energy \$200 million in local revenue to allies like Japan, India and security, national security, and last year alone. The economy of Eastern Europe, strengthening economic growth and opportu-South Texas, historically a place our alliances, giving those na- nity. American energy security with limited opportunities, now tions a better option for energy, flourishes, and a generation that and increasing our leverage with tally transform how we interact previously would have had little our common adversaries. to hope for now commands highshale.

tion. For example, the private in US oil production, Iranian sector is paving the way on a tankers sit in their ports while natural gas into liquefied natural

paying skilled jobs supporting new era of American energy the rigs drilling the Eagle Ford dominance will impact our foreign policy is only beginning to outlook and role will be. A clear This paradigm shift means emerge. We know that only a deenergy dollars stay in the USin- cade ago, an embargo of Iranian sufficient America will allow us stead of heading off to unstable oil by America's global partners suppliers or hostile governments would have been nearly imposlike Venezuela. It will also trans- sible - they needed their oil too form our future national security much. Now, US energy security andforeign policies. Our path has the power to offer alternato self-sufficiency will necestives to our allies and influence sarily change our outlook and their interactions with Iran as approach to the rest of the world. well as other rogue regimes. We must further this revolu- Today, thanks in part to increases

The American energy regas for export. The Department naissance has just begun and

has the capacity to fundamenwith our global partners and An understanding of how this less friendly nations. We should begin to study and better understand what our future global perception of an energy selfto better consider and appreciate what our approach to, and engagement with, the rest of the world will be.



### Basing crucial economic and Energy-related decisions on flawed scientific climate models



By Rep. David McKinley (R-WV)

Representing West Virginia's 1st Congressional District

Imagine picking up an old issue of Newsweek magazine. As you flip through the pages, you come across a story that describes a rapidly changing change plan depends on unreli- construction workers, mechanglobal climate with ominous deable theories, much like those ics, pharmacists, and teachers. scriptions of extreme weather that previously forecast a cooling The coal industry is the lifeblood on the "unanimous" consensus - sands of scientists who disagree - gets taken away, entire commuamong the scientific community. with the so-called consensus on nities suffer. Sound familiar?

Curiously you look at the date were similar predictions of America deserves better.

global cooling during the 1970's from the New York Times, Time pursued by the Obama Administional Academy of Sciences.

later, these predictions have plants- will hurt millions of states that use little coal. For inclimate models. Unfortunately

ence. Policy makers are now mining to manufacturing, and basing crucial economic and en- reduce average family incomes ergy-related decisions on these by \$1,000 per year. climate models that once again may prove to be as incorrect now America, these anti-coal policies is right on climate change and according to Dr. David Bernstein the problem they've identified. as they were in the 1970's.

What if they are wrong?

manmade global warming.

The anti-coal policies being than 20%.

this would cost 500,000 jobs New York pays \$1000 more in hurting our economy. But there is another differ- in industries ranging from coal

The negative shock to the Man may be contributing to economy will not only be felt by not an isolated article. There and unscientifically simplistic. will increase electric bills for on global carbon output. And and health. families and businesses by more according to the U.S. Energy

But today, nearly 40 years the construction of new power from coal have lower costs than share within 7 years. electric bills than a family in West Virginia.

What if they are right?

events. The forecast is based period. There are tens of thou- of many small towns, and if that Public Policy Institute shows rithmically increased. that if the United States stopped

Some will see an even greater the growth of carbon emissions gambling our financial security Magazine, NASA and the Na- tration-from shuttering existing increase. States like West Vir- from the rest of the world would by blindly following the flawed power plants to discouraging ginia which generate electricity make up for the United States' climate models used by Presi-

proven to be bogus because they Americans and lead to fewer stance, in 2011 the average price vacuum. China and India are sued a similar agenda to deal were based on flawed scientific jobs and higher electricity bills. per kilowatt hour for a home opening a new coal power plant with their own projected climate It's widely acknowledged the in West Virginia was around every week. It is becoming in- change using the "consensus" of climate alarmism is still alive and President and his allies intend to 8 cents. New York, which only creasingly evident that President scientists of that era. well. This time the doomsayers zero out coal-generated electric- gets 6% of its electricity from Obama's unilateral pursuit of are predicting increasing tem- ity eventually. But according to coal, pays more than twice that. his "war on coal" will have little decisions using facts and analyperatures and manmade global a Heritage Foundation report, Each year an average family in impact in America other than sis grounded on tested scientific

Obama argues that reducing car- Obama and his advisors. To do bon emissions will minimize otherwise, we risk a self-inflicted For the sake of argument, let's the occurrence of asthma and wound to our economy with ill-In the coal fields across assume that President Obama other respiratory diseases. But advised policies that won't solve would devastate communities. America should reduce carbon and other noted immunologists, They will not only impact thou- emissions. The question is what there is no direct link between President Obama's climate sands of coal miners, but also will these policies do to slow carbon output and asthma. In climate change and improve fact, even as greenhouse gas emissions have declined, the A report by the Science and incidences of asthma have loga-

emitting ALL carbon dioxide ideologically-driven climate today, the impact on global tem- change plan will have an immeperatures would be a negligible diate negative impact on hardon the magazine: April 28, 1975. a limited degree to the global coal country, but by anyone that reduction of 0.08 degrees Celsius working Americans, effecting The title of the article is "The temperature changes of the past uses electricity. Shifting from by 2050. Removing the United jobs and the cost of electricity, Cooling World," describing a 150 years; but to argue that man low-cost electricity from coal States entirely from using coal while having negligible impact coming global ice age. This was alone is to blame is irresponsible to other more expensive sources would also have little impact on temperatures, carbon output,

The economic cost to

Information Administration, Americans is too high to risk dent Obama. Imagine if policy America doesn't exist in a makers in the 1970's had pur-

Congress should be making data, rather than giving in to the On the health side, President political theories of President



**ENVIRONMENT ENVIRONMENT ENVIRONMENT ENVIRONMENT ENVIRONMENT** ENVIRONMENT

### Efficiency starts with industrial systems





#### By Phyllis Cuttino and Philip Brennan

Phyllis Cuttino directs clean energy programs for The Pew Charitable Trusts. Philip Brennan is CEO of Echogen Power generates 82 gigawatts of elec-Systems.

You might be surprised to learn ratepayers and makes manufacturthat in many states, most power plants operate at efficiency levels of just 33 to 45 percent. That means as much as two-thirds of the fuel used to produce electricity is released into the atmosphere and wasted. Fortunately, there's a better way of doing things.

As consumers, it's hard to imagine paying for 10 gallons of gas and being able to use only three. But that's exactly what local businesses often experience as they pay their utility bills. Wasted fuel (coal, natural gas, or bio-

ers less competitive. By finding ways to deploy technologies that reduce waste and promote efficiency, we can help businesses 521 megawatts -- is generated by save money on energy, achieve clean energy goals, and grow the manufacturing sector, which, in Ohio for instance, employs more than 660,000 people.

technologies, which have been waste heat recovery and comused in some form for more than bined heat and power systems 100 years, can help. The easiest to qualify as renewable power efficiency gain is normally the technologies. In turn, that decisimplest as well, such as turning sion will enable the state to meet mass) at power plants hurts the heat into power through various its renewable energy and energy than 160 GW in industrial energy

methods of "co-generation." Waste-heat recovery, for example, uses available heat in the exhaust from existing manufacturing and power plants to produce additional power. Another co-generation technique is combined heat and power, which captures waste heat that normally would be expelled through cooling towers to generate electricity. Using these methods, businesses can achieve energy efficiencies of 75 percent or greater.

The United States currently tricity -- about 8 percent of total U.S. production -- from the more than 3,700 facilities using these efficient technologies. In Ohio, though, less than 2 percent of the state's electricity-- approximately about 45 businesses, hospitals, and universities using industrialefficiency systems.

Some states have taken on this challenge. Ohio is serving Industrial energy-efficiency as a model for others by allowing

percent of its energy from renew-

able sources by 2025. International estimates that it is possible to capture more than 10 GW of waste heat in just Ohio, which would deliver electricity to customers at a lower cost than almost all other generating technologies.

goals and the right incentives. Last August, the White House industrial efficiency 50 percent by 2020 and of studying barriers to deployment with stakeholders. This is an excellent first step, but more needs to be done.

man (R-Ohio) and Jeanne Shaheen (D-N.H.) introduced bipartisan legislation to help manufacturers and new users of these technologies deploy them more broadly through a revolving grant fund to the states. Federal efforts to improve tax incentives for investment in industrial-efficiency projects can complement their work.

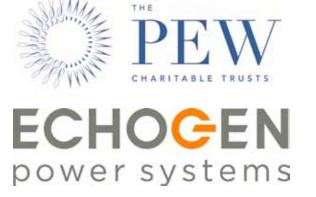
A national increase to more

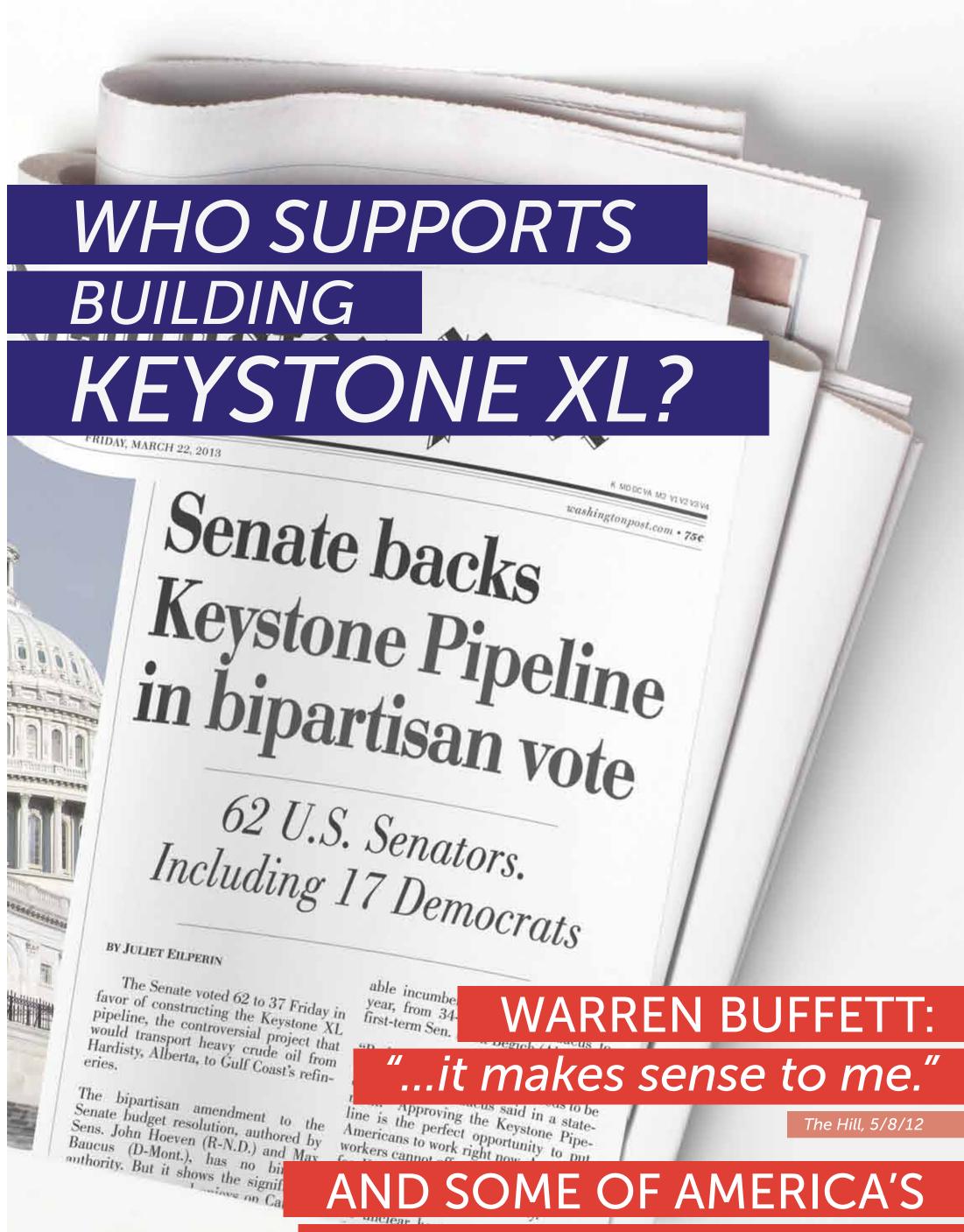
efficiency goal of producing 25 efficiency -- double current capacity -- could create as many as 1 million highly skilled jobs, ac-That gets us moving in the cording to the Oak Ridge National better. The consulting firm ICF efficiency of power generation allow American businesses to could result in more than \$200 billion in private investment over energy secure. 10 years, according to a study by the Industrial Energy Consumers trillion-dollar opportunity in the of America.

across the country to strengthen To get there, we need national their competitiveness by promoting these strategies to lower energy costs and increase proannounced a goal of increasing ductivity. Research by The Pew proper incentives, businesses and Charitable Trusts consistently shows that countries with consistent energy policies, such as China, Germany, and Japan, realize increased private investment Recently, U.S. Sens. Rob Port- as well as manufacturing and job

growth. Here in the United States, industry leaders have told congressional and federal leaders that we need to adopt clear, consistent, right direction, but we can do Laboratory. And improving the long-term energy policies that thrive and make our country more

> We know there is a multiclean energy sector. With such Now is the time for businesses a great potential to deploy additional industrial-efficiency technologies, it is critical to establish policies that allow companies to pursue these opportunities. With manufacturers can embrace these innovations, create jobs, and bolster the state's economic position. And this is precisely the kind of jump start our economy needs.





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### 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 El5 use because of its corrosive increased 78 percent; and prices such policy goal that has been uniting Washington is fixing the failed Renewable Fuel Standard

producers and livestock groups, anti-hunger advocates, auto, boat working hard to revisit the RFS.

The rationale is clear.

included in the RFS is potential engine damage, which independent studies show result from the use of El5, a gasoline conyear, the EPA approved E15 use Since the RFS was expanded in and later. But nearly every automobile manufacturer has said nature and potential to harm engines, leaving consumers on the hook for costly repair bills.

Unfortunately, the damage cans as the pathway to a cleaner sumers are also paying more at in food affordability is due in \$1.48 per gallon just last week. United Nations recently asked

and greener U.S. energy future, the pump AND the grocery store yet has proven to be anything because of the ethanol manbut. Environmentalists, food dates and expanded biofuels production.

Ethanol contains 33 percent and small engine manufacturers, less energy than regular gasothe refining industry and mem- line, which means lower fuel bers of both political parties are economy and more frequent trips to the pump. When you factor in that corn ethanol delivers One of the many conse- two-thirds the energy content quences of ethanol mandates of gasoline, ethanol is actually mile driven.

And beyond the pump, American families are feeling the eftaining 15 percent ethanol. Last fects at the grocery store, as well. in vehicle models built in 2001 2007, prices for cereal and bakery products in the United States have risen 77 percent; prices their warranties would not cover for meat, poultry, fish and eggs 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 The RFS was hyped to Ameridoesn't stop in our engines. Confood costs. This dramatic change

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 American consumers, automakthanks to the volatile prices ers, agriculture producers and of Renewable Identification refiners that have taken serious Numbers, or RINs. A RIN is a credit assigned to track each gallon of ethanol produced or hunger advocates, continue to imported into the United States more expensive than gas per 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 countless research has shown for U.S. businesses and families. consumer fuels.

> more ethanol than can safely be mixed into the fuel supply, refiners are required to hand in needed to accommodate biofuels than will actually be available. As RINs become scarce, their the next 30 years. cost skyrockets, from 2-3 cents at the end of 2012 to as much as dates are so harmful that the

large part to booming prices for The scarcity of RINs may also the U.S. to suspend the RFS beforce refiners to reduce domestic cause it is increasing the cost of supply and could lead to higher consumer fuel costs.

issue with the RFS. Environmental groups, along with global 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 that ethanol fails to deliver on It is time for Congress to repeal Since the RFS mandates using its promise of lower emissions and can actually harm our environment. Land-use change more RINs to meet the mandate feedstock is expected to double greenhouse gas emissions over

Internationally, biofuel man-

critical staple foods around the world, driving the poor deeper What's more: it's not just 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 the Renewable Fuel Standard before even more damage is done.



### Aerospace, Defense & Homeland Security



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### **CANCER ANSWER?**

### Standard Water Tests Don't Tell You What's In Your Water

John Ellis® complained about it for years until the Associated Press called him and tested the water in a major city in the northeast KNOWN FOR THEIR GOOD WATER (AP 3/10/08). GUESS WHAT!! 57 DRUGS in the drinking water (you would be surprised if they didn't get Cancer, MS etc) and 41 million people didn't even know it!! WHERE DO THE DRUGS COME FROM? When millions of people flush their toilets, the drugs and the Disease Markers for their diseases (expressed in a Blood Test which is why they are taking the drugs), are flushed into an aquifer and end up in your spring water, well water, bottled water and eventually your tap water (above)!! WE HAVE THE ONLY PRODUCT THAT CAN DESTROY THESE MAKERS BECAUSE ordinary water products DON'T PROCESS THE WATER LONG ENOUGH! Oncologists from Sloan Kettering (another just retired after 30 years at Sloan) confirmed an investigation by The Washington Post as far back as 1/27/92: "Cures Anything" 10,000 people/day along with a description of our worldwide patents ("The curative power is the result of movements of water between two metal tanks" which was removed from the original article, on our website, by dishonest competitors so they could use it!!). Our home water machines process water with INTENSE ULTRAVIOLET MODULAR FREQUENCY and HEAT 100's of times/gallon (NOT ONCE!!) TO MAKE SURE WE GET THEM ALL including bacteria that travel with the steam in an ordinary distiller (even a **CORNING** Lab Still) including a tiny virus that causes hepatitis, that can survive 30 minutes of boiling, and go through ANY ordinary distiller, filter, reverse osmosis or "PH ionizer" making them **USELESS** (they don't want you to know that) while also producing **POOR BLOOD FLOW** to the extremities

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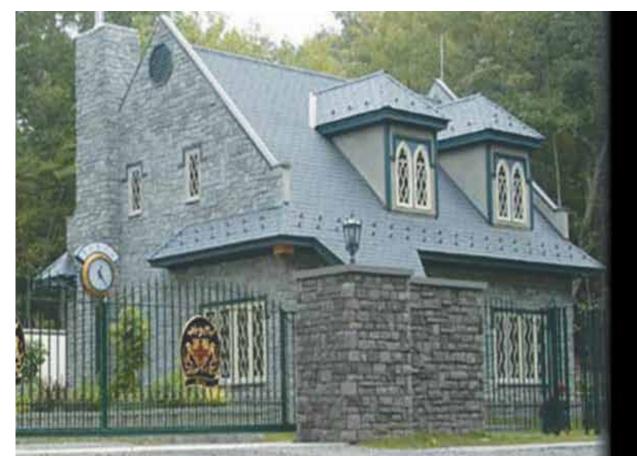
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# Beyond this Gatehouse is what may well be the "Key" to Cold Fusion—Light Water—

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—H2O (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<sup>TM</sup> of Crystal Clear<sup>TM</sup>—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<sup>TM</sup>, 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<sup>TM</sup> 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<sup>TM</sup> 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.

#### \*\*\* \*\*\* \*\*\*

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  $104^{\circ}$  to  $114^{\circ}$ , 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 if or something other than drinking would read the John Ellis 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> 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<sup>TM</sup> water advertisement from a magazine I went ahead and requested a free sample of John Ellis<sup>TM</sup> 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

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FREE WATER
SAMPLE CALL
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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  $Ellis^{TM}$  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<sup>TM</sup> 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 H2O. If the John Ellis<sup>TM</sup> 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<sup>TM</sup> 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 H2O with a bond angle of  $114^{\circ}$  instead of  $104^{\circ}$  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 H2O 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<sup>TM</sup> 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!