

# What does wind power mean **for America?**

CLEAN. AFFORDABLE. HOMEGROWN.



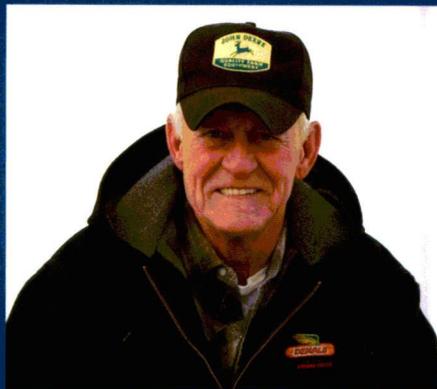
# Wind power is a new cash crop

Wind power benefits rural America in more ways than one. Wind power production has breathed new life into American rural communities and helped conserve water supplies during times of persistent drought.

Driving much-needed private investments into rural areas, American wind power adds tens of billions of dollars a year to the U.S. economy. Farmers, ranchers and other landowners receive lease payments of approximately \$120,000 over a 20-year period for each wind turbine installed on their property. When wind power grows to supply 20 percent of America's electricity by 2030, payments to rural landowners will amount to more than \$600 million a year.

Wind power uses virtually no water in generating electricity, while most other types of power plants use substantial

amounts, often in drought-stricken areas of the country. In 2012, American wind power generation conserved more than 30 billion gallons of fresh water, or 130 gallons per person.



*"I've farmed for 47 years and lived on this place for 43 years. The wind towers have really been a boon to this area. We raised 3,000 hogs, which was quite a few back then, but now that's nothing. It's like everything else, get big or get out. The wind towers gave us another \$20,000 a year in income. I just think they're fantastic. I wish the whole farm was covered with them."*

Tim Hemphill, corn and soybean farmer and wind farm leaseholder, Milford, IA

Wind energy brings taxes and other revenue to local communities, benefiting county and local services including schools, health care facilities and roads. In Sherman County, Oregon, for example, taxes, fees and assessments on wind projects have brought in approximately \$21 million over the past nine years. That money has helped fund essential public services, paid for additional sheriff's deputies, built a library, and helped the county emerge from the shadow of the economic recession.

*"Sherman County School District has benefited from wind power in a variety of ways. We are not in the budget crisis most districts have because we have resources from wind energy to prevent having to do cuts in our programs."*

Ivan Ritchie, school superintendent, Sherman County, OR

*"Wind energy will stand up next to any other form of energy when given a fair shake."*

- U.S. Senator Charles Grassley (R-IA), father of the wind energy Production Tax Credit

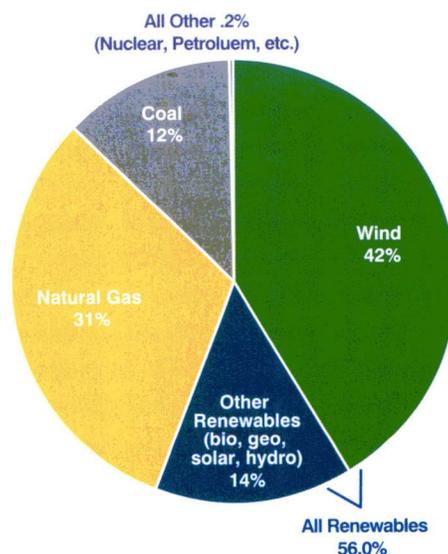
*"Wind is an important piece of the nation's energy policy as we look to decrease our reliance upon foreign oil and reduce emissions of greenhouse gases."*

- The Denver Post

*"With the passage of the PTC, the wind industry can get back to doing the important work of moving America toward a clean energy future, a direction that will benefit middle-class American workers and ensure America leads the world in clean energy manufacturing."*

- U.S. Senator Mark Udall (D-CO)

## U.S. ANNUAL POWER CAPACITY ADDITIONS DURING 2012



The American wind industry continues to show record-breaking growth as a U.S. power provider. Wind energy produced 3.5 percent of the nation's electricity in 2012, and was the year's No. 1 source of new electric generating capacity.

Data Source: AWEA, EIA, SEIA, SNL  
Source: AWEA

# Wind power is creating quality jobs and saving consumers money

**American wind power saves consumers money.** Adding wind energy to the generation mix reduces electricity prices, helps protect against future price shocks, and makes the energy market more competitive.

Because it has zero fuel costs, wind energy protects consumers from volatile fossil fuel prices, much like a fixed-rate mortgage protects homeowners from fluctuating interest rates.

**In 2012, wind became the number one source of new U.S. electric generating capacity.** There's now enough clean, affordable, American wind energy to power the equivalent of over 15 million homes.

Wind power is a key vehicle on America's road to economic recovery. Wind energy has added a brand new manufacturing sector in the last decade with over 550 factories stretching across 44 states.

**American wind power now supports tens of thousands of well-paying jobs**, and is capable of growing to support many more.

The U.S. Department of Energy has found that wind power could grow to supply 20 percent of the nation's electricity by 2030 and support 500,000 American jobs.

**And wind energy is increasingly "made in the USA"** – nearly 70 percent of a wind turbine's value is now American-made, further reducing costs by avoiding shipping these large components from overseas.

Hands down, the American people support the development of clean, affordable, homegrown wind power. Polls have found that nearly nine out of 10 voters – Republicans, Democrats, and Independents – believe increasing the amount of energy the nation gets from wind is a good idea.

**That's because wind power doesn't just generate electricity.**

It powers economic development. It offers a new source of steady income to family farmers and ranchers. It opens the doors of factories previously mothballed. It sends clean energy to our homes and businesses, while helping cushion families' and small businesses' budgets from skyrocketing fuel prices.

**No wonder Americans want more wind power.**

## WIND WORKER PROFILE:

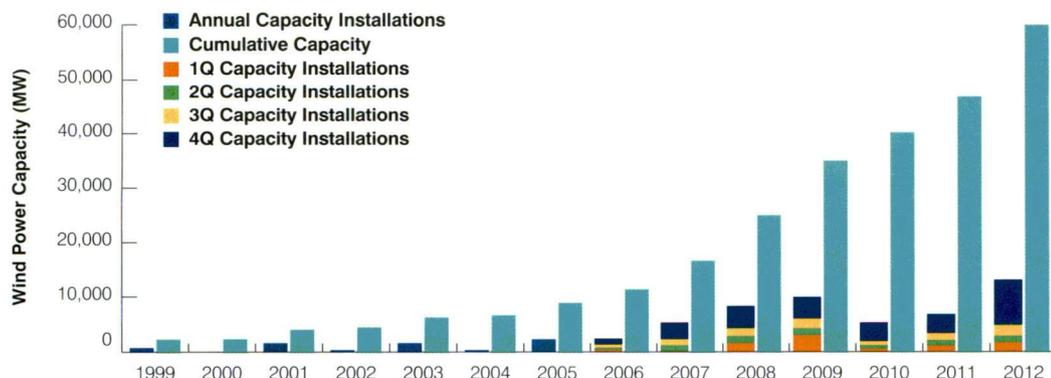
**Alan Anderson, EDF Renewable Energy, Mojave, CA**

Alan served in the U.S. Army for seven years, stationed at Fort Polk in Louisiana, Fort Hood in Texas, and Fort Belvoir in Virginia. He served tours of duty in Iraq and Afghanistan, where he specialized as a power generation equipment tech and a Patriot Missile crew member. When he returned home, Alan enrolled in the Veterans Vocational Training Program at the Clean Energy Center of California, which provides wind energy industry-funded job training at no charge.

*"I was very interested in returning to power generation after I left the service. Through the program offered at the Clean Energy Center, I was able to enhance my skill set and find a lucrative career in the wind energy industry here in Kern County," Alan said.*

*"It's definitely not your 9-to-5 desk job. I like the challenges associated with working in the field. This career is enjoyable and it's advancing me towards my future goals."*

## U.S. ANNUAL AND CUMULATIVE WIND POWER CAPACITY GROWTH (UTILITY-SCALE WIND)



Source: AWEA

**A single policy, the wind production tax credit (PTC), successfully incentivized \$25 billion in private investment in U.S. wind farms in 2012. The PTC more than pays for itself in local, state and federal taxes over the life of those projects.**

# Innovation + ingenuity = **American wind power**

The growing success of American wind energy production and component manufacturing is an example of the power of technological innovation. And wind energy's fixed-price advantage further enhances the industry's cost-competitiveness.

Tower heights are getting taller and rotor diameters (wingspan of the blades) are getting wider, allowing developers to access higher wind speeds and capture more energy in areas previously not considered to have economic wind resources.

Innovative wind industry manufacturing is now creating jobs in virtually every part of the nation, even in areas without significant wind project activity, such as the Southeast – now a wind manufacturing hub. This includes wind-specific manufacturing facilities as well as many businesses that have diversified into supplying the wind industry.

It makes economic sense to manufacture such large, heavy objects close to where they will be installed, thus saving on transportation costs which can amount to 20 percent of the cost of a wind farm. This geographic diversity, along with the array of U.S. factories now producing the 8,000 components that go into a wind turbine, have laid the groundwork for continued expansion of the U.S. wind power supply chain.

Furthermore, the wind industry is committed to an even more efficient and cost-effective future, with turbine manufacturers as well as component suppliers continuing to conduct advanced research and development on wind technology in dedicated facilities.

Predictable policies are critical to wind energy's achieving full cost-competitiveness with other forms of energy, as wind becomes ever more efficient and affordable.



## Wind power benefits the environment

**Of all our energy sources, wind power has the lowest environmental impact of any utility-scale source of electricity, and reduces the threat of climate change – the greatest threat to biodiversity.**

**Wind energy emits no air or water pollution. It requires no mining or drilling for fuel, uses virtually no water, and creates no hazardous or radioactive waste.**

**Since the only fuel wind turbines need is the wind itself, they avoid the environmental risks or degradation from fuel exploration, extraction, transport, shipment, processing, and waste disposal.**

**Even with its relatively low impacts, the wind industry holds itself to a higher environmental standard and does more to study, avoid, minimize, and mitigate wildlife impacts than any other industry.**

**Resulting conservation programs by wind developers save habitat and help protect birds.**

**And, currently installed wind power will avoid nearly 100 million metric tons a year of carbon dioxide emissions, already equal to 1.8% of the entire country's carbon dioxide emissions.**

**The combined benefits of wind energy make it far friendlier to wildlife and humans than other more traditional forms of energy production.**

### **WIND POWER BY THE NUMBERS**

**#1 source** of new U.S. electric generating capacity (42% of installations in 2012)

**60,000 MW** of wind capacity installed in the U.S., over 45,000 wind turbines.

**Over 550** manufacturing facilities in 44 states

**890** wind projects across 39 states plus Puerto Rico (through end of 2012)

**\$25 billion** in private investment (2012)

**80,000** good quality, well-paying jobs (2012 FTEs)

**Over 30 billion** gallons of fresh water conserved (2012), since wind energy uses virtually no water

**100%** pure, clean energy source

# Wind power is a good deal for America.

## That's why Americans want more of it.

America is a nation of innovation, ambition and opportunity.

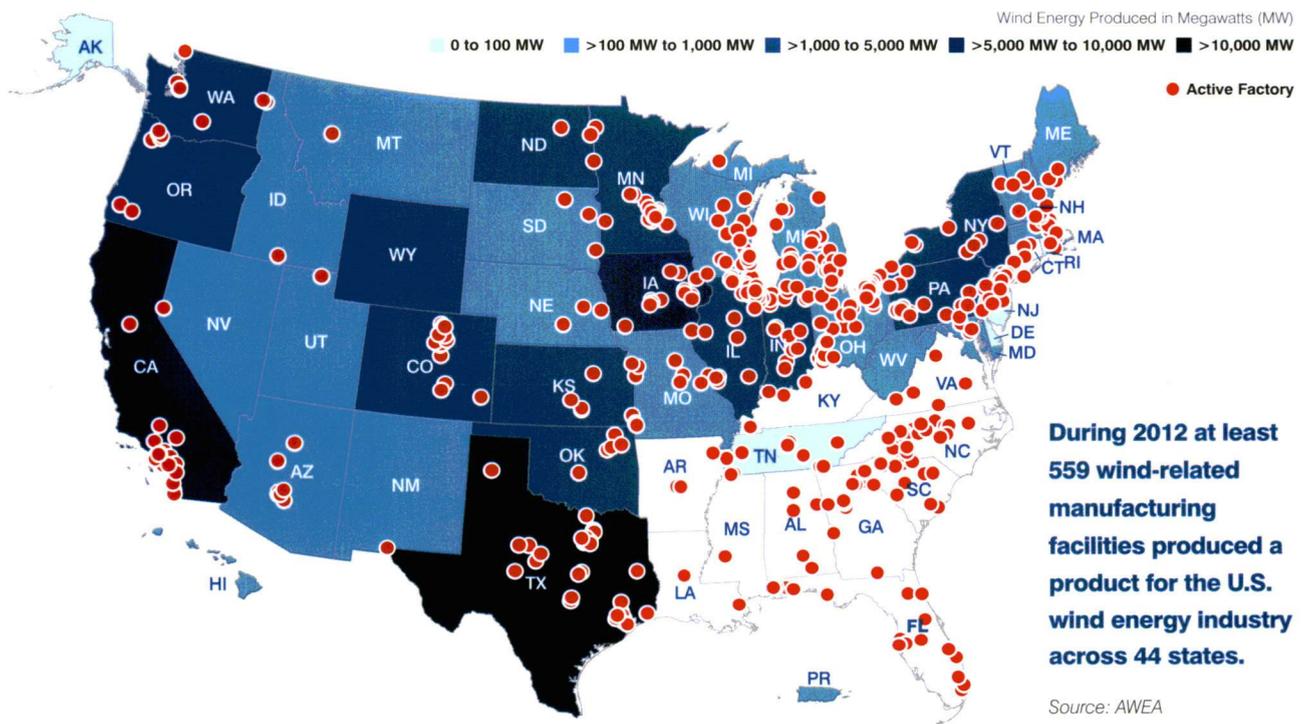
We rise to meet challenges and come away stronger, safer and more competitive.

Our nation's growing demand for energy has unleashed the full measure of American vision and entrepreneurship. Wind power made in the USA is a clean, abundant and affordable part of our energy supply—and is bringing value to American consumers now.

***“The wind power movement is providing us with a unique opportunity to advance energy as industry. By doing so, we have the ability to leverage our tremendous resources with ground-breaking technologies...while advancing an industry that will lead to long term job creation.”***

– Governor Chris Christie (R-NJ)

### ACTIVE WIND-RELATED MANUFACTURING FACILITIES



The domestic content of wind turbines has grown from less than 25 percent prior to 2005 to approximately 67 percent at the end of 2011, according to U.S. International Trade Commission data and analysis from the U.S. Department of Energy.



To learn more about wind power, or the  
benefits of AWEA membership

**please visit [www.awea.org](http://www.awea.org)**



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The cover photo shows turbines at the Top of the World Windpower Project near Casper, Wyoming, which can produce enough electricity to power 60,000 homes.  
Photo © Duke Energy

## Doug Ahlstrom

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**From:** Ben Rasmussen  
**Sent:** Monday, June 23, 2014 4:58 PM  
**To:** Doug Ahlstrom  
**Cc:** Dean Espinoza; David Dobbins  
**Subject:** City Prosecution Services

Doug- Please forward the following thoughts to the council.

I have had the privilege of serving as City Prosecutor in Draper for six and a half years now. I understand that the council's proposed budget for the coming year, eliminates my position, and that of my assistant in favor of putting prosecution services out for bid. I respect the city's desire to use taxpayer resources wisely, but there are a number of services which I provide, of which I'd like to make sure the council is aware.

In addition to handling all the criminal matters that come before the Justice Court and a number of matters in District Court, I handle a number of other things that would not traditionally fall under contract services.

1. I am a 24 hour resource to the Draper Police Department. I have advised the sergeants and their officers that they're free to call me any time. They all have my personal cell phone. I've stepped out of church on Sunday, answered the phone late at night, and fielded questions from officers multiple times a week, whether in my office, or over the phone.
2. The police department staff come to me with their questions about GRAMA requests, which alleviates a lot of questions needing to go through the City Attorney's Office.
3. I work closely with Rachel in the Crime Victims Services office to answer questions crime victims have and to make sure their needs are met.
4. I have provided training to officers on a few occasions, training them to deal with changing issues in criminal law and procedure.
5. This year, I was privileged to be invited to make a presentation in Officer Barnes' criminal justice class at Corner Canyon High to help the high school students learn about the criminal justice process.
6. I work with Lori and Becky in the Finance Department to deal with bankruptcy issues that arise. I review all the bankruptcy notices that come through the city, provide counsel to the Utility Billings Department, and prepare and submit claims when funds become available through the Bankruptcy Court.
7. I am a close asset to the court staff. When questions arise, it is valuable to have a full-time attorney across the hall. I'm able to talk to a number of court patrons immediately when they come in with questions. This can save them the need to come to court at times or help them understand the process if they still choose to come.
8. I have consulted with the Code Enforcement office in determining the most effective means of helping achieve compliance when code issues arise. My involvement in these matters frequently speeds compliance significantly.
9. The city currently has at least four condemnation cases active in the courts. I understand there are more in the pipeline. I have prepared the Complaints and motion work on these cases. The services I provide in this regard would either fall back to the City Attorney or have to be handled at great cost by private counsel.
10. In the same regard I have briefed a number of other issues in District Court and on appeal on behalf of the city. At least one of our condemnation cases is threatening to immediately take appeal if the judge grants the city occupancy. Another criminal case, is threatening an appeal over the constitutionality of the Justice Courts. If these come to fruition, they will require extensive time in briefing and dealing with the appeals before higher courts.
11. I have been the City Attorney's go to source for legal research when a number of questions have arisen.
12. I have provided back up to the City Attorney from time to time in attending Planning Commission meetings and one City Council meeting I can recall.
13. I have assisted in employment appeal hearings early on in my time with the city.

14. I'm present for all court hearings on behalf of the city. I'm able to bring early resolution to a number of matters, which saves the court considerable resources. Not all prosecutors attend arraignments or deal with pleas in abeyance. My full time status allows me to deal with these matters quickly and fairly.

Some of these services would be available from a contract prosecutor. Many of them would not, or would be billed extra at significant expense. Many would end up being sent to outside counsel at additional cost. Some of them are hard to quantify because they come from working in a community for a while, while forming good working relationships with the staff in other departments, and are not easily replaced.

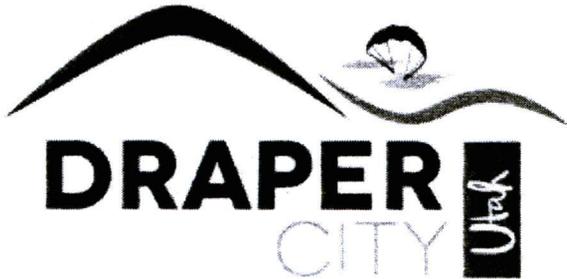
Along the same lines, I believe my assistant's services are valuable to the city. Dean Espinoza has a great comportment for working the public and the staffs of attorneys who are seeking discovery from my office. He is thorough in taking care of discovery and subpoena issues and it is valuable to have him close during court and throughout the process to follow up on needs quickly as they arise.

Finally, I know the council will get complaints from time to time from dissatisfied constituents. Some feel they've been mistreated or don't like how their court case was handled. While I'm not perfect, I know I have a reputation amongst my colleagues as being tough, but also fair. I wish every abuse victim who's been helped to get out, every person who's been helped in recovering restitution for injury, every crime victim who's found justice, and every parent who's had a child helped in their battle with addiction would also write a letter to their elected officials. Sadly, they do not. But they've expressed their appreciation to me enough that I know that there are many people who greatly appreciate my work as a prosecutor, which is something that brings me personal satisfaction.

I hope the Council will consider the services that my office provides to the city. I think they're well worth their cost to the city and I would be grateful if given the continued chance to provide them.

*Ben Rasmussen*

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