

# Energy-Wind

by TidewaterCurrent

Part of Energy



## France to invest €3.5 billion in offshore wind energy

ewind.es



**TidewaterCurrent** "the projects will create 10,000 industrial jobs. The wind farms are planned for construction near Treport, in northern France, and near the Noirmoutier and Île d'Yeu islands on the Atlantic coast."  
January 16, 2013



## Japan to build world's largest offshore wind farm

newscientist



**TidewaterCurrent** "The project is part of Fukushima's plan to become completely energy self-sufficient by 2040, using renewable sources alone. The prefecture is also set to build the country's biggest solar park."  
January 16, 2013



## An Offshore Wind Power Line Moves Ahead

nytimes



**TidewaterCurrent** 1.14.13 - "An audacious plan to lay a multibillion-dollar wind power transmission spine under the seabed from southern Virginia to the New York City area will take a step forward on Tuesday with an announcement of plans for the first leg, a 189-mile segment running from Jersey City to a spot south of Atlantic City."

January 15, 2013



## Bright future for wind industry fuels wind energy center at JMU - Madison Magazine Fall 2012

jmu.edu



**TidewaterCurrent** Virginia - JMU participates in a state-wide initiative to promote wind energy. The school organized a tour of a wind farm in Greenbrier County for municipal officials in SW Virginia counties where there is interest in wind development. The School also runs the Wind for Schools program which has helped install turbines at four schools so far and loans wind measuring equipment to state residents.

January 14, 2013



## National Nuclear Security Administration Awards Contract for Largest Federal Wind Farm to Siemens

ewind.es



**TidewaterCurrent** The farm will generate approximately 45 million kilowatts of electricity annually – greater than 60 percent of Pantex's annual electricity needs....Using an Energy Savings Performance Contract, Siemens will provide a turn-key wind farm system for 20 years that includes a five-year service, maintenance and warranty agreement with operating and maintenance options from years six through ten. Siemens will also provide an annual energy production guarantee. The government payment to them will come directly from the value of guaranteed energy savings generated from the Pantex wind farm."

January 18, 2013

## Maryland Agrees To Fund Offshore Wind Farm Survey

mdcoastdispatch



**TidewaterCurrent** 1.11.13 "OCEAN CITY -- A future offshore wind energy farm off the coast of Ocean City inched a little closer to becoming a reality last week when the state Board of Public Works approved a \$3.3 million contract for a private firm to conduct a geophysical survey of the proposed site about 10 miles off the coast."

January 14, 2013



## Offshore Wind Creeping Towards Reality on the East Coast

renewableenergyworld



**TidewaterCurrent** Transmission line off NJ planned. "According to the Atlantic Wind Connection, led by Trans-Elect, the New Jersey line will cost an estimated \$1.3 billion and begin construction in 2016....The project has the potential to create more than 20,000 jobs and push \$9 billion in the New Jersey economy and \$2.2 billion in local tax revenue, according to an IHS Global Insight study. The line is also expected to bolster renewable growth in the state, which has mandated that 22.5 percent of its electricity be sourced from renewables by 2021. "

January 15, 2013



## DoE issues RFP for collegiate wind energy competition

ewind.es



**TidewaterCurrent** 1.12.13 - "The U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) recently issued a Request for Proposals (RFP) to participate in DOE's inaugural National Collegiate Wind Competition."  
January 14, 2013



## Maryland wind farm legislation might just breeze through session - Baltimore Business Journal

bizjournals



**TidewaterCurrent** 1.11.13 - "Gov. Martin O'Malley first fielded a bill to the General Assembly in 2011 advocating a 200-turbine wind farm about 10 miles off Maryland's East Coast, and he plans to reintroduce the legislation this year."  
January 12, 2013



## Wind turbine contract awarded

delmarvanow



**TidewaterCurrent** 1.11.13 - Crisfield, MD - "Construction of a 750-kilowatt wind turbine next to Crisfield's sewage treatment could begin as soon as April after City Council members this week awarded a \$3.2 million contract for the work." The City expects to save \$150,000 to \$200,000 a year.  
January 14, 2013



## Aging lighthouse gains new life as beacon for offshore wind industry

science.nbcnews



**TidewaterCurrent** 1.8.13 - Virginia - "The Department of Energy has \$3.2 million in funding to turn the Chesapeake Light Tower, formerly run by the Coast Guard, into the Reference Facility for Offshore Renewable Energy. It will primarily validate models and instruments the industry uses to assess offshore wind resources."  
January 12, 2013



## Port of Milwaukee saves on utility bills from wind turbine

jsonline



**TidewaterCurrent** "1.10.13 - In its first nine months of operation, the port says the project generated more power than was used by the port administration building and resulted in more than \$5,000 in revenue for the port."

January 12, 2013



## BP, Shell Back Development of World's Longest Wind Turbine Blade

bloomberg



**TidewaterCurrent** The Energy Technologies Institute "will build blades as long as 100 meters (328 feet) for turbines at sea, ...Offshore blades are currently 60 to 75 meters long."

January 7, 2013



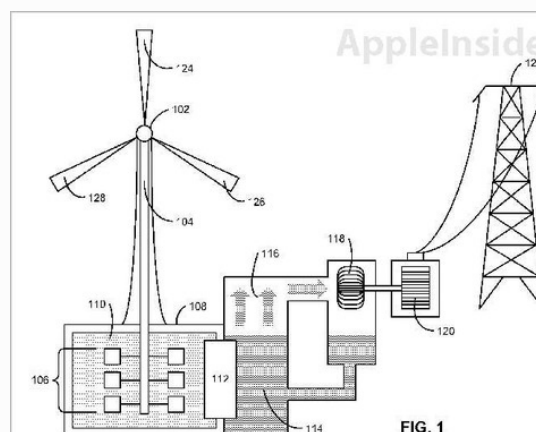
## North American Windpower: Fishermen's Energy Expects To Begin Construction On Offshore Wind Project This Year

nawindpower



**TidewaterCurrent** 1.3.13 - Six demonstration turbines are to be installed 3 miles of the Atlantic City coast. Commercial operation is expected by 2014.

January 8, 2013



## Apple's wind turbine technology uses heat, not rotational energy to generate electricity

appleinsider

**TidewaterCurrent** 12.27.12 - The on-demand system stores energy as heat which can be used when needed to generate steam to spin a turbine connected to an electric generator. It's unknown if the company plans to develop the technology discovered in a patent filing.

December 27, 2012



## Google invests \$200 million in Texan wind power | SmartPlanet

smartplanet



**TidewaterCurrent** 1.10.13 - 70 turbine farm is near Amarillo.  
January 10, 2013



## Wind Industry Secures Tax Credit, But Damage May Be Done : NPR

npr



**TidewaterCurrent** 1.3.13 - "The wind energy industry is dependent on something even more unpredictable than wind: Congress...Congress renewed the tax credit for a year, but the industry had no idea which way it would go, so it had to prepare for the worst. Nobody wanted to gamble on starting a project that wouldn't be competitive. So after rushing to complete as many projects as possible before the tax credit expired, developers stopped planning for the future. Some companies had to lay off workers. Some manufacturers went bankrupt."

January 5, 2013

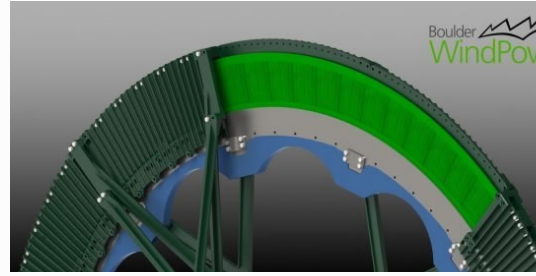


## North Myrtle Beach at headwind of offshore power efforts

myrtlebeachonline



**TidewaterCurrent** 12.31.12 - "A group centered in North Myrtle Beach has been researching land-based wind energy since 2009, an effort that has led to an idea of creating a locally-based offshore wind farm cooperative. The plan calls for selling stock in the effort, which would create an investor-owned wind energy cooperative much like those created to provide electricity to rural America in the early 20th century."  
January 3, 2013

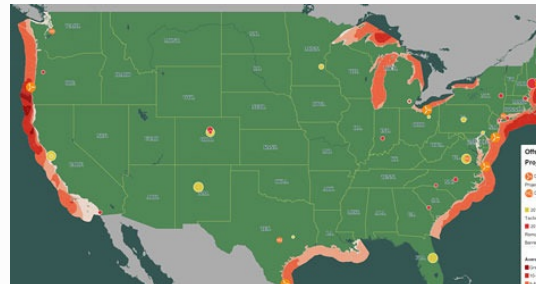


## Wind power embraces the circuit board design, via a startup

gigaom



**TidewaterCurrent** 12.14.12 - Light-weight circuit board motor weighs 40% less than iron models.  
December 15, 2012



## Offshore Wind Projects Announced for Virginia and 6 More Coastal Locations - Tidewater Current | Fall 2012

tidewatercurrent



**TidewaterCurrent** 12.12.12 - "US Energy Secretary, announced a six year initiative to support projects that will jump start the US offshore wind industry."  
December 12, 2012



## Wind turbines start spinning at S.C. Johnson

jsonline



**TidewaterCurrent** South Carolina - "The two Mount Pleasant turbines will "add a bit more wind to Windex...S.C. Johnson is the state's third wind project to be built this year, all led by private companies rather than electric utilities. The others are the two-turbine Cashton Greens wind farm near La Crosse and the six turbines being erected in Verona by software developer Epic Systems Inc." December 19, 2012



## Wind Developer Offers Scholarships to High School Seniors

treehugger



**TidewaterCurrent** First Wind of Boston is offering 15 one time scholarships and one renewable scholarship to graduating seniors, Application details included, but applicants must live in a community near one of the company's wind projects. December 23, 2012





## NC closer to producing offshore wind energy :: WRAL.com

wral



**TidewaterCurrent** 12.12.12 - "The U.S. Department of the Interior has designated sites off Cape Fear and the northern Outer Banks for development of offshore wind energy, Gov. Beverly Perdue said Wednesday....North Carolina has the best offshore wind resources on the East Coast according to studies from the University of North Carolina at Chapel Hill and the U.S. Department of Energy's National Renewable Energy Laboratory." December 13, 2012



## Offshore wind energy benefit sealife, says study

ewind.es



**TidewaterCurrent** 12.5.12 - Several studies cited. Author notes that further research is needed and that wind farms must be carefully planned and sited not to "dramatically disturb sensitive marine environments." December 6, 2012



## North American Windpower: Virginia Offshore Wind Project Will Use Alstom Turbines

nawindpower



**TidewaterCurrent** 12.24.12 - Dominion will install two Haliade 150 turbines approximately 22 miles off the coast of Virginia Beach. The turbine is based on Alstom's Pure Torque technology and is combined with a permanent magnet direct drive generator and a 150-meter rotor to reduce the cost of offshore wind power by "increasing reliability and availability, improving drivetrain efficiency, boosting energy yield, and reducing operations and maintenance costs," according to Alstom December 24, 2012



## Buffett's MidAmerican Energy boosts wind capacity to 3.71GW

rechargenews



**TidewaterCurrent**

December 11, 2012



## New Radar System Can Tell Planes and Wind Turbines Apart

treehugger



**TidewaterCurrent** 12.3.12 -

"Traditional radar detects aircraft using a rotating antenna that horizontally sweeps a radar beam at regular seconds-long intervals to pick up any objects, but the new Holographic Radar system uses a stationary array that receives radar signals from all directions continuously."

December 4, 2012



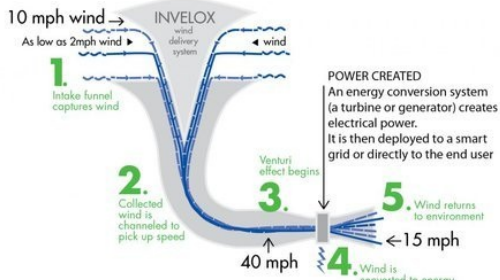
## Offshore wind farm developers promise to keep whales' interests in mind

nj



**TidewaterCurrent** 12.12.12 - "The developers are pledging to reduce or avoid loud noises that could affect the whales by avoiding building towers and doing other activities at the peak of whales' migratory season."

December 12, 2012



## New Ducted Wind Generator Design Claims Higher Output, Lower Costs

treehugger



**TidewaterCurrent** 12.7.12 - In SheerWind's device wind is channeled to create higher velocities for energy production. "several demo units are being field tested near their facility in Chaska, Minnesota, and are currently collecting data on their operation and efficiency. The company also says that utility-scale demonstration units are planned for this year. F"  
December 9, 2012



## U.S. Offshore Wind Market Becoming 'Real' With European Interest

businessweek



**TidewaterCurrent** 12.5.12 - The Dept. of Interior announced lease auctions for waters offshore of Massachusetts, Rhode Island and Virginia. "Developers including Spain's Iberdrola SA (IBE), Electricite de France SA and Ireland's Mainstream Renewable Power Ltd., have filed official "indications of interest" for the first competitive lease auction for U.S. offshore wind farms, scheduled for next year."  
December 6, 2012



## Texas Grid Sets New Wind Power Record & Aims Much Higher

cleantechnica



**TidewaterCurrent** 11.29.12 - "Earlier this month, Texas set a new record for the percentage of electricity generated by wind power, a staggering 26 percent of total supply across the state's main grid system."  
November 30, 2012



## USA: O'Malley to Reintroduce Offshore Wind Bill

offshorewind.biz



**TidewaterCurrent** 11.29.12 - Maryland - "Gov. Martin O'Malley will again try to introduce a similar bill on ensuring funding for an offshore wind farm which failed twice to make out of the General Assembly"  
November 29, 2012



## 15.6 GW Of Wind Power In Brazil By 2021

cleantechnica



**TidewaterCurrent** 12.4.12 - "About one billion dollars in wind power sales are expected there from General Electric alone... in each of the coming 10 years. Several other manufacturers will also be providing turbines for the surge, but GE will be a dominant player. (GE actually just achieved a milestone this year when it installed their 300th Brazilian wind turbine.)"  
December 4, 2012

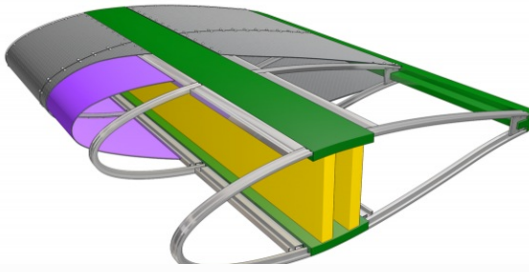


## Bird Migration Corridors in Connection with Offshore Wind - Public Lecture Series: Science in Action

usgs.gov



**TidewaterCurrent** Wednesday, December 5, 2012, 7:00 PM Title: A Bird's Eye View: Offshore Wind Energy By: Alicia Berlin, Ph.D. and Allan O'Connell, Ph.D. lectures can be followed live via our @USGSLive Twitter account.  
November 30, 2012



## GE Experiments With Cloth-Covered Wind Turbine Blades «

earthtechling



**TidewaterCurrent** 12.3.12 - "GE is developing a fabric-covered blade design that could substantially lower the overall cost of building a wind turbine....According to GE, this new blade design could reduce blade costs 25%-40%, making wind energy as economical as fossil fuels without government subsidies. The \$5.6M ARPA-E project will span three years. GE's blade architecture will be built to achieve a 20 year life with no regular maintenance to tension fabrics required."

December 3, 2012



## Interior Announces First-Ever Renewable Energy Lease Sales on the Outer Continental Shelf

doi.gov



**TidewaterCurrent** 11.30.12 - "BOEM announced the Proposed Sale Notices today to offer 277,550 acres in two "Wind Energy Areas" – one area offshore Virginia and the other area of mutual interest offshore Massachusetts and Rhode Island. The areas proposed for leasing are expected to be able to support more than 4,000 megawatts (MW) of wind generation – enough electricity to power an estimated 1.4 million homes." The sales will be held next year.

November 30, 2012



## Cape Wind Power Deal Brings Offshore Wind Closer

greentechmedia



**TidewaterCurrent** 11.29.12 - "State regulators approve another power deal for electricity from Cape Wind, and project backers say it will help them secure financing to build the offshore wind farm."

November 29, 2012



## Seafloor Platform Cloaks Big Ocean Waves

mashable



**TidewaterCurrent** 11.23.12 - A rippled sheet of metal placed in the thermocline reduced surface waves and could thereby protect structures, like wind turbines placed offshore.

November 25, 2012



## Wind turbines popping up at some Virginia schools

[hamptonroads.com.nyud](http://hamptonroads.com.nyud)



**TidewaterCurrent** 11.25.12 - The turbines were built as part of James Madison University's Wind for Schools program,  
November 25, 2012

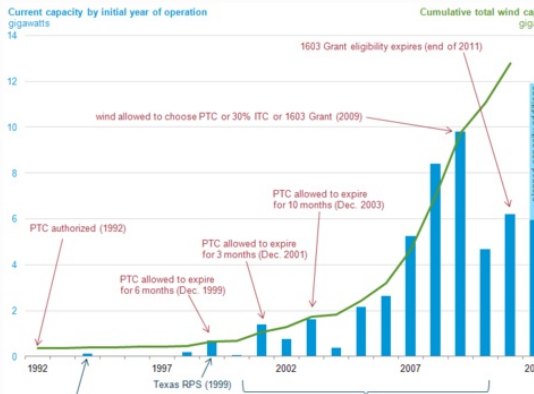


## Environmental Group Says Wind Energy Will Create Jobs

wina



**TidewaterCurrent** 11.23.12 - A report by the National Wildlife Federation estimates that up to 300,000 jobs could be Virginia Virginia and 13 more coastal states as a result of wind energy-projects.  
November 23, 2012



## The rise and fall of the U.S. wind industry, in one chart

washingtonpost



**TidewaterCurrent** 11.26.12 - "To get a sense of the wind boom over the past two decades — and how Congress and the states have nurtured it — check out this new chart from the U.S. Energy Information Administration. It shows the policies that have led to boom and bust cycles over the years. (PTC stands for production tax credit, which subsidizes new wind generation by 2.2 cents per kilowatt-hour):"

November 27, 2012



## Establishing a Wind Powered Economic Zone: North Myrtle Beach Reaches for Offshore Wind - CleanEnergy Footprints

blog.cleanenergy



**TidewaterCurrent** 11.26.12 - "By becoming a wind powered economic zone, North Myrtle Beach hopes to be able to provide the equivalent of 100% of its power usage from a nearby offshore wind farm in the not-too-distant future. "

November 27, 2012



## US governors cross party lines in support of windfarm subsidies

guardian.co.uk



**TidewaterCurrent** "governors from both parties urged Congress to extend subsidies for windfarms."

November 14, 2012



## Minn. man buys surplus N.C. light tower for research

hamptonroads



**TidewaterCurrent** 11.21.12 - "the platform out in the Atlantic is a launching pad for research into wind power and other technologies."  
November 21, 2012

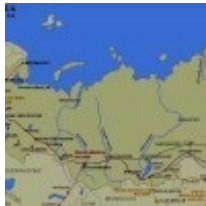


## Turbine Blades Made Out Of Vegetables To Solve Wind's Hidden Pollution Problem

fastcoexist



**TidewaterCurrent** 11.14.12 - National Science Foundation (NSF) is funding research at the University of Wichita to identify materials for biodegradable turbine blades.  
November 15, 2012



## Ambitious Wind Energy Plan Unveiled in Russia

ewind.es



**TidewaterCurrent** 11.21.12 - "The plan, dubbed RUSTEC, would see dozens of onshore wind farms built across the Murmansk region and plugged into a "power bridge" carrying the energy into the European grid via Norway or Finland."  
November 23, 2012



## Five ways wind power can survive without tax credit extension

csmonitor



**TidewaterCurrent** 11.20.12- Historically cheap money for financing a low risk product commodity everyone needs, among other things, will likely keep the industry alive if the PTC is not extended,  
November 20, 2012



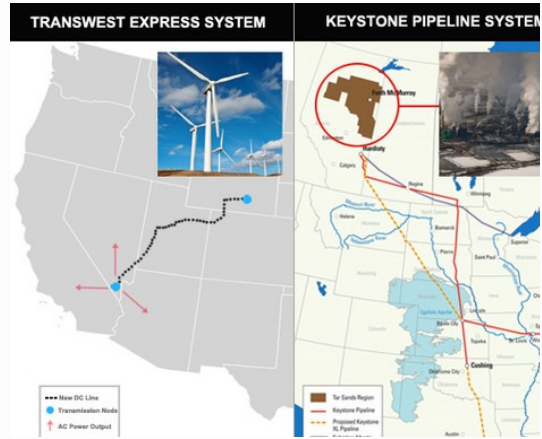


## Wind Farm Withstands Sandy's Wrath | OnEarth Magazine

onearth



**TidewaterCurrent** 11.15.12 - Ocean City, NJ - Turbines survived Sandy without a problem and could likely survive stronger winds by "using a combination of automatic brakes, strong foundations, and other adaptations, modern turbines can survive wind speeds of 120-135 mph...some manufacturers make turbines that can withstand even higher winds for deployment in hurricane-prone areas."  
November 16, 2012



## How would you spend \$7 billion?

mnn



**TidewaterCurrent** Good analysis of energy options and costs - Keystone Tar Sands Pipeline system v. Transwest Wind Connection Project.  
November 14, 2012



## Save USA Wind Jobs - 400 Wind Manufacturing Facilities are at Risk

saveusawindjobs



**TidewaterCurrent** Listing of Political, Editorial, and consumer endorsements for the extension of the PTC.  
November 14, 2012



## Cuba's Two Wind Farms Survive Hurricane Sandy - Forbes

forbes



**TidewaterCurrent** 11.6.12 - "Both of those wind farms were hit by hurricane Sandy with wind speeds of up to 110 miles per hour and neither of them had any major damage and continued to provide electricity for the local grid."  
November 7, 2012



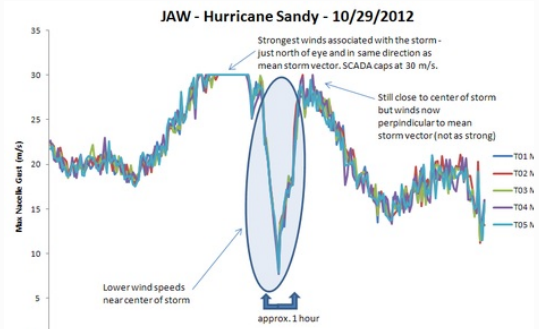
## Winds of economic change - Three New England farms on track to begin operations before the end of the year promise to bring clean energy, tax revenue, and jobs to economically hard-hit regions - The Boston Globe

bostonglobe



**TidewaterCurrent** 11.14.12 - "The projects not only put people to work in rural communities," said Paul Gaynor, chief executive of First Wind, the Boston company that developed Blue Sky East, "they also generate tax revenues for small towns to help keep taxes down and pay for important community priorities."

November 14, 2012



## Sandy is Gone, Wind Power is On - CleanEnergy Footprints

blog.cleanenergy



**TidewaterCurrent** "Thus far, it appears that no wind turbines suffered catastrophic failure because of Sandy. ...The Atlantic City Utility Authority's five-turbine wind farm, the Jersey Atlantic Wind project (JAW), also survived Sandy. Those turbines are just two miles from the beach - and a lot of the casino hotels actually get tourists requesting turbine-view rooms. Those touristy turbines also drew Sandy's eye - literally. Here's a graphic of wind speeds from the JAW wind turbines - notice that huge 1 hour drop? Yeah, that's Sandy's eye passing right over the city."

November 8, 2012



## Pattern Energy begins operations at first commercial wind energy project in Puerto Rico

ewind.es



**TidewaterCurrent** 10.30.12 - "Finca de Viento Santa Isabel wind farm will produce up to 95 MW, enough to power the equivalent of 30,000 average homes."

October 30, 2012



## Wind Power Revolution: The World's First Timber Turbine

designbuildsource.com.au



**TidewaterCurrent** Made with 99% renewable resources, the 100 meter tall German turbine has a long service life and is easy to erect and dismantle. "The Hanover turbine will now undergo a testing phase with the aim to be supplying current by the end of 2012....Meanwhile, a 140-metre tower is also in development. The extra height should allow the turbine to generate between 30 and 40 per cent more electricity than on a conventional mast, while construction cost would be 20 per cent lower."  
November 13, 2012

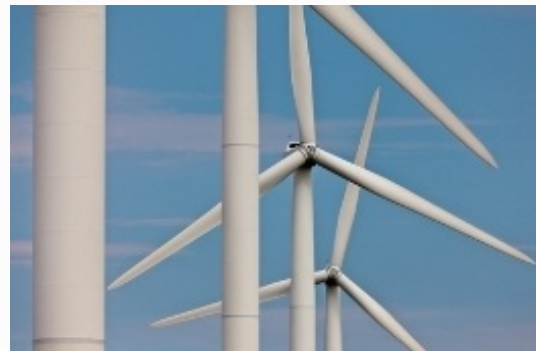


## Hurricane Sandy's impact on wind turbines minimal

ewind.es



**TidewaterCurrent** 11.4.12 - Some sites have not yet been assessed, but over 2/3 of facilities report only minor damage. t  
November 5, 2012



## Wind Farm Operating Costs Fall 38% in Four Years, BNEF Says

renewableenergyworld



**TidewaterCurrent** 11.1.12 - Bloomberg New Energy Finance Report.  
November 1, 2012



## Benefits of wind energy confirmed: Half a million cars worth of pollution and a billion gallons of water saved each year

phys



**TidewaterCurrent** 11.2.12 - Savings reported for Colorado "according to a report released today by Environment Colorado. Between 2000 and 2011" November 5, 2012



## Kite power getting off the ground in Germany

gizmag



**TidewaterCurrent** 11.1.12- "kite power station" would see kites attached to cables measuring around 700 meters (2,297 ft) long, which would allow the kites to fly at heights of 300 to 500 meters (984 to 1,640 ft). Unlike the "Flygen" systems that have the turbines built into the kite, the NTS system would tether the cables to vehicles on the ground that are pulled around a circuit on rails by the power of the wind. The kinetic energy of the vehicles is then converted into electricity by way of a generator." November 2, 2012



## E.ON Climate & Renewables secures financing for Texas wind farm - The Sacramento Bee

sacbee



**TidewaterCurrent** 10.30.12 - J.P. Morgan, Wells Fargo invest in \$223.6 million deal October 30, 2012



## New Eggbeater VAWT Design Claims 35% More Power than Competitors

treehugger



**TidewaterCurrent** ""The DARWIND5's new advanced airfoil, blade shape, and Smart Pitch Angle Regulation "SPAR" system combine to deliver quiet, responsive power generation in low mount turbulent wind sites where no other competitor dares to go. 35% MORE KILOWATT Hours than the same priced, same sized leading competitor at a 25% lower mount height." - Harvistor"  
November 1, 2012



## Sway Turbine has developed a 10 MW offshore wind turbine, named the ST10.

ewind.es



**TidewaterCurrent** 10.23.12 - Innovatively designed low weight mega offshore turbine reduces cost by 15-20%."  
October 23, 2012



## Renewable energy will overtake nuclear power by 2018, research says

guardian.co.uk



**TidewaterCurrent** 10.29.12 - In the UK.  
October 30, 2012



## Radar technology can solve wind energy aviation issues

ewind.es



**TidewaterCurrent** 10.23.12 - "Cambridge Airport in the south-east of England has signed a deal to use so-called 3D holographic radar technology. Its creators claim that the technology is the first of its kind that can reliably discriminate between wind turbines and aircraft based on differences in their behaviour."  
October 23, 2012



## Japan takes leap into offshore wind power

[japantimes.co.jp](http://japantimes.co.jp)



**TidewaterCurrent** 10.25.12 - "A new wind turbine stands 3 km off Choshi, Chiba Prefecture"  
October 25, 2012



## Appeals Court allows home wind turbine in Orono

[startribune](http://startribune)



**TidewaterCurrent** 10.22.12 - Minnesota - "A wind turbine that looks like a gargantuan upside-down egg beater may soon be back in business near Lake Minnetonka. The Minnesota Court of Appeals ruled Monday that the city of Orono was wrong to deny a permit for the turbine, which city resident Jay Nygard had built on his property."  
October 23, 2012



## Investors Worth \$800 Billion Lobby for Wind Energy Tax Credit

[ewind.es](http://ewind.es)



**TidewaterCurrent** 10.26.12 - Wind industry blames Congresses (namely the Republican opposition therein) for layoffs. Refusal to renew the PTC has created economic uncertainty and put a hold on project development. The PTC is responsible for the creation of some 75,000 jobs and some \$20 million in private investments in the industry are held by Americans. These investors, who stand to lose a lot, are now appealing to Congress. Unlike the appeals made in defense of industry workers, maybe this groups' concerns will be heard.  
October 26, 2012



## Wind energy grows nearly 20% in Canada in 2012

windpowerengineering



**TidewaterCurrent** "Wind energy's contribution of clean power to the country's electricity supply is expected to grow by nearly 20 per cent by the end of 2012 ....Every 1,000 MW of new wind energy drives \$2.5 billion in investments, creates 10,500 person-years of employment, and provides enough clean power for over 300,000 Canadian homes."

October 22, 2012



## Modern Day Don Quixotes Fight to Save Wind Power Tax Credit

cleantechnica



**TidewaterCurrent** 10.19.12 - Military veteran group called Operation Free is lobbying for extension of the wind tax credit. "Their support of wind power is based on the national security threat posed by oil dependency, a threat that is bound to intensify unless the U.S. gets serious about transitioning to more secure and reliable forms of energy"

October 20, 2012



## The Cape Wind Offshore Wind Farm Will Protect Nantucket Sound

ewind.es



**TidewaterCurrent** Big environmental groups like NRDC, New England's Conservation Law Foundation, and Mass Audubon, the Massachusetts group dedicated protecting birds and wildlife, support the Cape Wind project. They recently applied for and were granted "friend of the court" status in litigation filed by Alliance to Protect Nantucket Sound, which is trying to stop the project and they are now trying to spin it as an environmental cause.  
October 12, 2012



## DISTRIBUTED WIND POLICY COMPARISON TOOL

eformativeoptions



**TidewaterCurrent** "As part of a project funded by U.S. Department of Energy (DOE), the Policy Tool uses a dashboard-interfaced pro forma financial model to calculate the impact rebates, tax credits, feed-in tariffs (FITS) and other incentives and policies have on project economics."  
October 22, 2012





## Portable 50kW Wind Turbine Unveiled (Video)

cleantechnica



**TidewaterCurrent** 10.16.12 - "What makes this new turbine stand out is the fact that it can literally fold itself back into a container the size of a standard 40' ISO shipping container and be driven to its destination with a tow truck."

October 18, 2012



## Creating a Hybrid Hydro-Wind System on a Spanish Island

renewableenergyworld



**TidewaterCurrent** 10.8.12 - Wind and pumped storage facility under construction on El Hierro is expected to replace 65% of the energy produced by transported (expensive) diesel.

October 8, 2012



## McDonnell remains mum on credit for wind energy

hamptonroads.com.nyud



**TidewaterCurrent** 10.10.12 - With a National Offshore Wind Energy conference being held this week in Virginia Beach, Virginia Gov. Bob McDonnell has no position on the PTC extension, although "he champions wind energy in Virginia and especially offshore wind power."

October 10, 2012

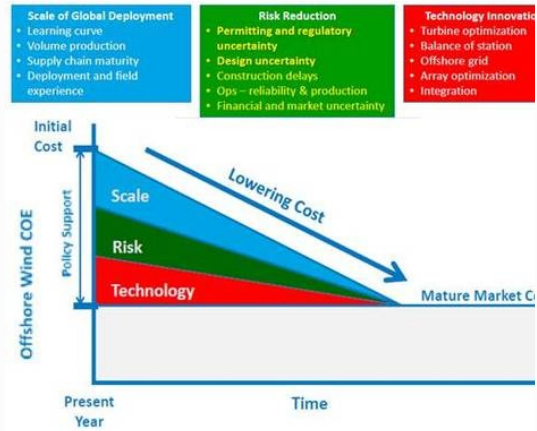


## Virginia targets ocean wind area with survey, met towers

rechargenews



**TidewaterCurrent** 10.8.12 - "The Virginia Department of Mines, Minerals and Energy (DMME) has submitted an application to BOEM to lease four small blocks within the offshore area for research that will include installation of two new meteorological towers. The towers will include platforms to monitor wind speeds, water levels, waves, and bird and bat activities within and around the area before and after wind farms are built there."  
October 8, 2012



## When Will US Offshore Wind Be Cost-Competitive?

greentechmedia



**TidewaterCurrent** 10.11.12 - Participants at the AWEA conference this week are looking for answers to this question. Based on the chart pictured, the only answer put forward is sometime in the future. The author notes that with economies of scale the price could become competitive and that with the AWC and government initiatives to reduce risk that it is becoming a "more bankable" industry. Good information provided otherwise about where the US industry stands.  
October 12, 2012



## Report: Mid-Atlantic offshore wind industry would create 70,000 jobs, generate billions

washingtonpost

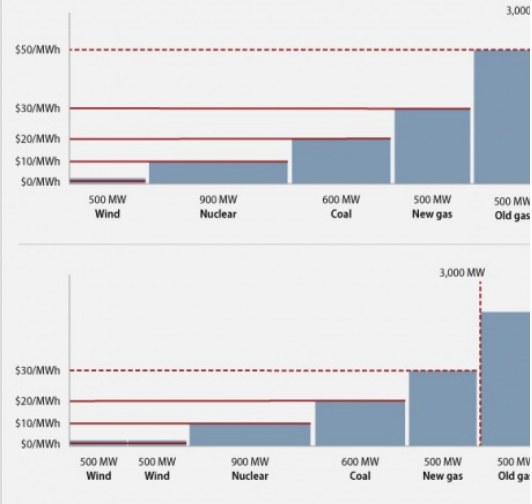


**TidewaterCurrent** 10.10.12 - "Backed by the Internet titan Google and other investors, the Atlantic Wind Connection is moving forward with the construction of a 380-mile power line that would enable up to 7,000 megawatts of electricity to be produced at offshore wind farms from Virginia to New Jersey."  
October 11, 2012

FIGURE 1

### Adding more wind power reduces prices in electricity markets

In the first example, the market clearing price is \$50. In the second example, more wind pushes the most expensive plants out of the mix, and the clearing price is reduced to \$30.



## Wind Power Lowers Electricity Prices, And How

cleantechnica



**TidewaterCurrent** 10.12.12 -

Fascinating read on the energy market and how rates are determined. Wind production can and does reduce the price to consumers, but on the other hand conventional energy producers may not earn as much as they would if wind were taken out of the equation. Companies like nuclear Exelon are not happy about the impact on their bottom line and want to see the wind PTC expire (although they too receive a nuclear PTC). At any rate "A recent study of the Midwest Independent System Operator, for example, found that large amounts of wind could save consumers \$200 per year."

October 12, 2012



## Gamechanging Vestas V164 Wind Turbine Continues Groundbreaking Development (8MW Wind Turbine!)

cleantechnica



**TidewaterCurrent** 10.3.12 - The offshore turbine should be ready for installation in 2014.  
October 4, 2012

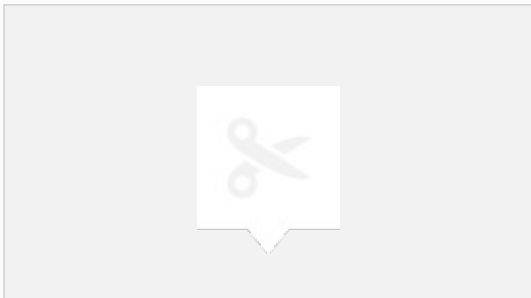


## South Carolina Offshore Wind Farm Could Produce Thousands of Jobs, Billions in Wages and Government Revenue

cleantechnica



**TidewaterCurrent** 10.8.12 - Clemson study touts the potential of offshore wind in South Carolina. Good summary and link to the the study.  
October 8, 2012



## Obama blocks Chinese purchase of US wind farms

phys



**TidewaterCurrent** "It was the first time in 22 years that a U.S. president has blocked such a foreign business deal." The farms are located near an Oregon Naval facility that tests unmanned drones.  
September 29, 2012



## Developer seeks Block Island wind project approval

www2.turnto10



**TidewaterCurrent** 10.2.12 -

"Deepwater's plan is to install five turbines as a demonstration project before moving forward with a larger wind farm in federal waters off Rhode Island and Massachusetts. If the plan receives all necessary approvals, the wind farm could be in operation as early as the fall of 2014."

October 2, 2012



## New, scalable wind turbine design makes debut : CompositesWorld

compositesworld



**TidewaterCurrent** This is one technology to watch. The conical sail like shape of the Windstrument ranges from 1-4 ft in diameter and operates in wind speeds as low as 2 mph. It is made using recycled plastics and is claimed to provide energy at costs lower than coal while also being bird friendly.

October 5, 2012



## Google's Shout Out to a Wind Energy Deal with Utility

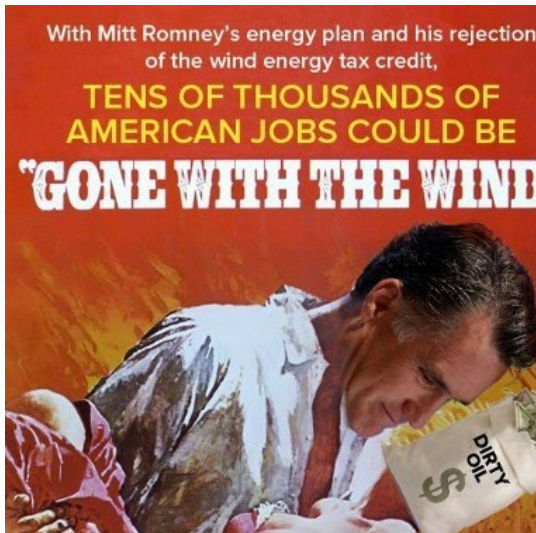
renewableenergyworld



**TidewaterCurrent** 9.26.12 -

Interesting! The purchase agreement compels the utility to supply wind energy and it would seem if there is enough demand from consumers and more such deals negotiated that the wind industry will grow.

September 26, 2012



## Mitt Romney hates wind energy

ewind.es



**TidewaterCurrent** 10.2.12 - "Politico reported that senior Senate sources have said that Romney's opposition to extending the PTC "derailed" a bipartisan Senate agreement to renew the tax credit. The New York Times similarly reported that "Senate Republicans removed" the PTC extension from the Senate Finance Committee's tax extenders package "to show their loyalty" to Romney." October 3, 2012



## Greenpeace Energy Turns Wind Power into Gas Power

cleantechnica



**TidewaterCurrent** 9.26.12 - Through electrolysis water is converted to hydrogen using excess wind energy. September 26, 2012



## Surprise, surprise: Wind turbines do lower carbon emissions

newstatesman



**TidewaterCurrent** "Climate sceptics have long made the counter-intuitive claim that wind turbines don't actually reduce carbon emissions, but data analysed by the Guardian's environment blog suggests that as well as being counter-intuitive, it's just plain false." September 27, 2012



**FREE EVENT - Town Hall Meeting  
-Offshore Wind: A "Wind - Win" for  
Virginia - Sierra Club**

action.sierraclub



**TidewaterCurrent** Thursday, October 11, 2012, 7:00-8:30pm Virginia Aquarium IMAX Theater 717 General Booth Blvd., Virginia Beach, VA- RSVP required.  
September 24, 2012



**Va. betting on offshore wind**

delawareonline



**TidewaterCurrent** 9.26.12 - "Virginia is seeking to survey a vast expanse of the ocean floor and document wind, waves and wildlife offshore to smooth the way for development of wind turbines by energy companies."  
September 27, 2012



## High-Altitude Wind Energy: Huge Potential — And Hurdles

blog.cleantechies



**TidewaterCurrent** 9.25.12 -

"Proponents say, however, that in some ways high-altitude wind power could end up being easier to deploy — and cheaper — than traditional wind energy. Construction costs will be markedly diminished with no need for giant steel and concrete towers, and there will be no need for the yaw mechanism that keeps standard turbines facing into the wind as wind direction changes."

September 25, 2012



## Siemens Develops More Efficient Wind Turbine Blades Based on Dinosaurs!

inhabitat



**TidewaterCurrent** 9.18.12 - The new designs are being developed to increase efficiency and reduce noise on older turbines.

September 19, 2012



## Facing many challenges, wind power is shrinking

bendbulletin



**TidewaterCurrent** 9.21.12 - Major turbine manufacturers, like Gamesa, Siemens and Vestas are laying off workers. Likewise, so are supporting industries, like component manufacturers and tower builders. The extension of the PTC could have prevented this.

September 21, 2012





## Power East Coast via wind? Doable with 144,000 offshore turbines, study says

usnews.nbcnews



**TidewaterCurrent** 9.14.12 - Good national coverage. The authors are not suggesting that all these turbines be sited off the coast from Virginia to Maine, but half that might be a realistic expectation.  
September 15, 2012



## Rim Drive turbine is poised to push offshore wind to new limits

rechargenews



**TidewaterCurrent** 9.21.12 - Similar to the small scale Honeywell Windtronic turbine, the Rim Drive developed by a Florida entrepreneur, generates energy from the blade tips. But Herbert Williams is looking to produce bigger machines and he wants to take them offshore. With no gear box, he hopes to do so for less than conventional turbines. Pictured is a demo unit being tested on the St. Johns River. A larger unit is expected to be tested this year which may be connected to the grid.  
September 22, 2012



## Wind energy at Cape Cod to save \$1 million a year

af.mil



**TidewaterCurrent** 9.13.12 - "Air Force Space Command is preparing to install two 1.6 megawatt utility-scale wind turbines at Cape Cod Air Force Station, Mass., located at the Massachusetts Military Reservation. The new turbines will be similar to these two already in place at the MMR and will offset more than 50 percent of the station's annual electrical purchases."  
September 13, 2012



## NWF's new report - The Turning Point for Atlantic Offshore Wind Energy: Time for Action to Create Jobs, Reduce Pollution, Protect Wildlife & Secure America's Energy Future.

nwf



**TidewaterCurrent** 9.13.12 - National Wildlife Federation's just released report highlights the need to develop offshore wind energy resources that could cleanly power 14 million homes while creating 300,000 jobs and generating \$200 billion in economic activity.  
September 14, 2012



## UGE's New Hybrid Sanya Streetlight Goes Off-Grid For Big Savings

inhabitat



**TidewaterCurrent** Urban Green Energy of NYC is launching their new Sanya street light with the installation of 100 units near Beijing.  
September 5, 2012

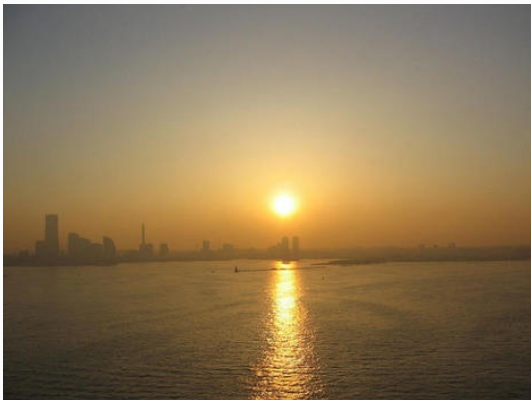


## Wood Could be the Future of Wind Turbine Masts

treehugger



**TidewaterCurrent** 9.7.12 - TimberTower, a German company, is building wooden towers that are both taller, cheaper and easier to transport than those made of steel.  
September 10, 2012



## Japanese consortium formed for new offshore wind push

rechargenews



**TidewaterCurrent** 9.4.12 - "Hitachi-Zosen, Toshiba and five other Japanese companies are planning to build "several hundred" megawatts of offshore wind farms over the next decade."  
September 4, 2012



## The Earth Has Enough Wind Energy Potential To Power All Of Civilization

businessinsider



**TidewaterCurrent** 9.10.12 - Not one but two recently published scholarly reports find that there is the potential for wind to provide 10-20 times the energy needed on earth. The issue is cost. Links included to the reports.  
September 11, 2012



## Japanese consortium to invest £962m in offshore wind power | Energy and Environmental Management (EAEM) Magazine

eaem.co.uk



**TidewaterCurrent** 9.4.12 - "The new wind farms may use exciting new wind turbine designs, such as the one illustrated above, which has been undergoing field tests at Kyushu University." The Wind Lens designers estimate the device can provide 2-3 times the energy than a typical turbine and the base is modular so the farm can easily be enlarged.  
September 7, 2012



## Biggest Offshore Wind Farm in the World Planned in Scotland

cleantechnica



**TidewaterCurrent** 9.5.12 - 339 turbines will supply a whopping 40% of residential energy in Scotland.  
September 6, 2012



## The Aerogenerator X is a Huge Next-Gen Wind Turbine With More Power, Less Weight

inhabitat



**TidewaterCurrent** 8.30.12 -  
August 30, 2012



## A shift in winds ideal for vessel

courierpostonline



**TidewaterCurrent** 9.2.12 - Weeks Marine based out of Camden, NJ is readying a barge for the erection of offshore wind turbines. It is the first such vessel being prepared for offshore wind development in the country.

September 2, 2012



## Mighty Wind: U.S. Wind Turbine Capacity Now Equals 11 Nuclear Plants (or 44 coal plants)

rdmag



**TidewaterCurrent** 8.31.12 - 20% of US energy could be supplied by wind by 2030 (South Dakota and Iowa have already reached that milestone). In addition, some 30 billion gallons of water a year are currently being saved by using wind instead of coal or nuclear.

September 2, 2012



## Proposed N.C. wind farm on collision course with Air Force fighter jets

charlotteobserver



**TidewaterCurrent** 8.31.12 - In addition to concerns voiced by the Air Force, the US FWS also have concerns about the impact of the proposed Beaufort County wind farm on eagles in the area. More info will be available after a Sept. 10 briefing.

September 2, 2012



## Cleveland State University wind turbines at Progressive Field are overachievers

cleveland



**TidewaterCurrent** 9.3.12 - Corkscrew device lights up ball park stadium at night and deflects wind into the turbines generating more than 4 times the energy than if the turbines were sited alone.  
September 4, 2012



## Vestas supplies its first wind turbines with intelligent aviation lights

ewind.es



**TidewaterCurrent** 8.28.12 - "The Obstacle Collision Avoidance System – or OCAS – is an innovative solution that only activates the lights when an aircraft is operating in the immediate vicinity of a wind power plant"  
August 28, 2012



## Bird-safe wind turbines soon may take flight

dailyrecord



**TidewaterCurrent** 8.31.12 - NJ company is looking to develop the technology and employ veterans in the process. The technology is not discussed in great detail, but as pictured, the device funnels and concentrates flowing air into a very small turbine. In the article it seems more likely they are pursuing a residential market, instead of commercial production.  
September 2, 2012



## Offshore wind test project planned

delawareonline



**TidewaterCurrent** 8.23.12 - As many as 10 wind turbines could be erected off the Coast of Delaware if federal funding (available and applied for) is forthcoming for testing various technologies. The point of the University of Delaware project is to identify and validate reliable technologies. Several major turbine manufacturers are supporters of the project.

August 24, 2012



## Wind Wildlife Mapping Tool Now Includes Critical Habitat for Endangered Species in U.S.

treehugger



**TidewaterCurrent** 8.24.12 - GIS Overlays of 225 endangered species included in the Wind Wildlife assessment tool developed by the Nature Conservancy and the American Wind Wildlife Institute. The tool will help companies comply with US Fish and Wildlife siting guidelines. Links to the guidelines and the mapping tool included.

August 25, 2012



## Proposed Long Island Wind Farm Could Supply 350,000 kWh of Electricity to NY

inhabitat



**TidewaterCurrent** 8.28.12 - "The plans are expected to be approved in the next few weeks, which means that construction could begin within the next few months."

August 28, 2012



## Michigan Tower Maker Struggles As Wind Wanes «

earthtechling



**TidewaterCurrent** 8.24.12 -

Numerous US layoffs from major companies, like Vestas, Siemens and Clipper, have been announced by the wind industry in recent months as the prospect of future projects remains unsettled without the PTC. The impact of the slow down in the wind industry is trickling down and being felt by the US based support industry too. Tower manufacturers, movers and constructors who recently were trying to play catch up in an industry that was growing like gangbusters are now also scaling back.

August 25, 2012



## Testa Talks Turbine: Checking In On The South Side's Wind Turbine

chicagoist



**TidewaterCurrent** 8.25.12 -

Testa Produce in Chicago built its LEED Platinum distribution facility among the brownfields of what used to be the Union Stock Yards. But what is catching peoples attention from miles around is the massive 250 ft. wind turbine that produces 30% of the facility's energy (and on 15 days last year 100%). The payback on the wind turbine is 10 years. Solar panels provide another 10% of energy requirements and they will also power two electric delivery trucks beginning next month. See more architecture news in Sustainable Design - Green Building.

August 26, 2012



## First Floating Wind Turbine Receives Certification [Video]

breakbulk



**TidewaterCurrent** 8.15.12 - The 2 MW floating turbine is moored off the coast of Portugal.

August 16, 2012





## Largest Building-Integrated Wind Power System in U.S. Installed in Oklahoma City

treehugger



**TidewaterCurrent** 8.16.12 -  
August 18, 2012



## The Power Above: Kite Power Seeks High Altitude Power – ecomagination

ecomagination



**TidewaterCurrent** 8.9.12 - Kite Gen of Italy aims to use kites to capture high altitude winds (the densest renewable power source there is). Unlike other kite technologies, they plan to capture energy on the ground via a yoyo type system. Polyethylene strings tethering the kites reel in and out on a spinning drum attached to an alternator.  
August 22, 2012



## Free Wind Technology Certification Training Continues

cleantechnica



**TidewaterCurrent** 8.17.12 -  
Community college in New Mexico offers free one semester certificate course in wind energy.  
August 17, 2012



## Cape Wind wins FAA approval; federal agency declares turbines pose not threat to planes - The Boston Globe

bostonglobe



**TidewaterCurrent** 8.16.12  
August 16, 2012



## Offshore Wind Energy Development Picking Up Pace

sustainablog



**TidewaterCurrent** 8.16.12 - Great overview of international offshore wind farm development including analysis of the US policy and developments. 12 countries have offshore wind farms and another 20 are planning projects. The US has not yet developed a project and although late to the game, China is developing capacity fast and could meet 20% of their energy needs with offshore wind by 2020.

August 17, 2012



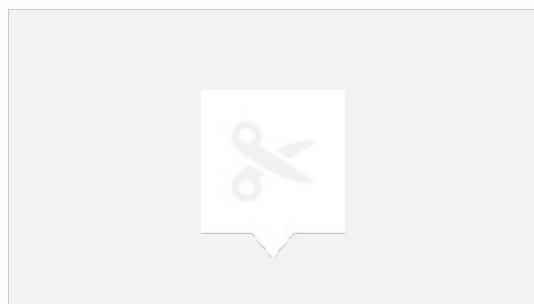
## Feds taking input on proposed offshore wind farm

summitcountyvoice



**TidewaterCurrent** 8.14.12 - The Danish company Statoil has proposed a facility some 12 miles off the coast of Maine could show feasibility of floating turbines.

August 14, 2012



## N.C. wind projects stalled; buyers, activists blamed

hamptonroads



**TidewaterCurrent** 8.4.12 - Three proposed projects have no forward movement.

August 8, 2012



## October 9-11 - American Wind Energy Association Offshore WindPower Conference & Exhibition

tidewatercurrent



**TidewaterCurrent** October 9-11 - Virginia Beach, VA August 12, 2012



## GE unveils charge point for wind-powered cars

businessgreen



**TidewaterCurrent** 8.14.12 - Urban Green Energy and GE have teamed up and are planning to deploy wind powered electric vehicle charging stations in the US and Australia later this year. See more snips in the Eco Transport collection. August 15, 2012



## Migrating geese avoid wind farms

bbc.co.uk



**TidewaterCurrent** 8.10.12 - After monitoring Pink-footed geese for several years, UK researchers find that they are avoiding offshore wind farms in their travel route. August 11, 2012



## Wind turbine with record-breaking rotors

phys



**TidewaterCurrent** 7.30.12 - 75 meter blade is the largest fiberglass component cast in one piece that weigh 20% less than conventional blades. It will be installed this fall in Denmark for testing. July 31, 2012



## Walmart Erects Its First Megawatt Wind Turbine In California - Forbes

forbes



**TidewaterCurrent** 8.6.12 - With 100 stores sporting solar panels, Walmart is continuing its quest for 100% renewable energy. A one megawatt turbine was just installed at the Red Bluff, CA distribution center that will supply 15-20% of the facility's electricity.  
August 7, 2012



## Colorado Utility Got a Record 57% of Its Electricity From Wind Power

treehugger



**TidewaterCurrent** 8.6.12 - Xcel energy on one evening in April set the US record.  
August 6, 2012

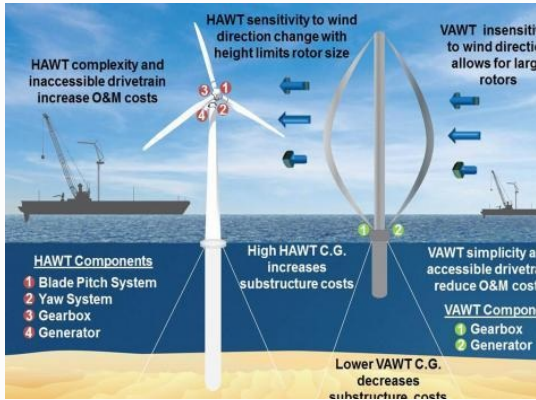


## Bladeless wind energy technology company looks for manufacturing partner

power-eng



**TidewaterCurrent** 7.31.12 - Tunisia company Saphon has designed a bladeless system to capture and/or store wind energy and convert it to electricity via a hydraulic motor. The company claims it is more efficient than traditional generators. See more in Energy-wind collection.  
August 1, 2012



## Offshore use of vertical-axis wind turbines gets closer look

phys



**TidewaterCurrent** 7.30.12 - Sandia explores VAWT design for offshore installation as they can reduce the cost power produced. They have better scalability, their center of gravity is lower so substructure costs are reduced, and they are less complex in design, requiring less maintenance. July 30, 2012



## Triple Win for Biofuels on Capitol Hill; \$100M for Military Biofuels; Tax Extenders Package; Algae wins tax credit parity

biofuelsdigest



**TidewaterCurrent** 8.3.12 - Committee level action still requires full Senate Vote and conference with the House of Representatives. August 5, 2012



## 7 Popular Myths About Wind Power (Debunked) -

revmodo



**TidewaterCurrent** Good summary. Misinformation includes concerns regarding avian deaths, global warming, expense, noise, reliability, aesthetics, property value, and safety. July 27, 2012



## Romney opposes wind tax credit | SmartPlanet

smartplanet



**TidewaterCurrent** 7.31.12 - The author indicates that he continues to support "\$4 billion in oil and gas subsidies for companies that have rarely been more profitable" August 1, 2012



## Incredible Satellite Images Of The World's Largest Wind Farms

businessinsider



**TidewaterCurrent**

July 28, 2012



## U.S. Ready to Lease Offshore Wind Areas

offshorewind.biz



**TidewaterCurrent** 7.24.12 - Auction expected by the end of the year. July 27, 2012



## Hexicon floating wind farm proposal fails EU funding bid - maltatoday.com.mt

maltatoday.com.mt



**TidewaterCurrent** 7.27.12 - Investors are interested, so planning continues despite the setback.  
July 29, 2012



## Wind turbine launch ceremony today

jdnews



**TidewaterCurrent** 7.26.12 - Morehead City, NC - The turbine will generate power while serving as a demonstration project to help educate the public about the benefits of small wind power as a viable, clean source of energy.  
July 29, 2012

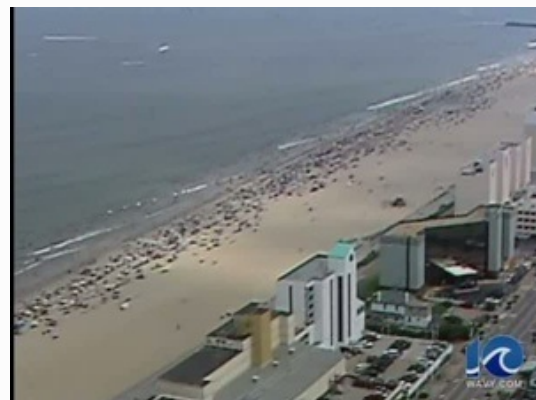


## Altaeros Energies offers interns few perks, but chance of making a big idea happen - The Boston Globe

bostonglobe



**TidewaterCurrent** 7.29.12 - Lured by the prospect of creating a revolutionary technology, a Flying Wind Turbine, interns make up half of the company's employees.  
July 29, 2012



## Push for offshore wind power in Va. | WAVY.com | Virginia

wavy



**TidewaterCurrent** 7.23.12 - In letter to Obama, environmental groups ask for more support developing offshore wind.  
July 24, 2012



## Dave Hakkens' Wind Oil Machine Produces Oil From Nuts and Seeds With Every Passing Breeze

inhabitat



**TidewaterCurrent** 7.20.12 - Includes a nice "how to" Wind oil video.  
July 20, 2012



## Brazil To Invest Heavily In Wind Power «

earthtechling



**TidewaterCurrent** 7.26.12 - As noted in the article, international investors are lining up to get a piece of the action. Here's the summation: "So – a government committed to renewable energy, a banking structure willing to be flexible to underwrite its development and a determination to site a number of the wind farms in impoverished regions of the country – it would seem that Brazil has become a wind power investor's dream."  
July 26, 2012



## Europe's offshore wind power capacity up 50% in a year

euractiv



**TidewaterCurrent** 7.20.12 - In Europe, wind farms are attracting funding from pension funds and other institutional and corporate investors. If the PTC were extended, it's likely the same would happen here, creating jobs and clean power.  
July 20, 2012





## 1,000 GW of Wind Power Could be Generated in Atlantic

cleantechnica



**TidewaterCurrent** 7.26.12 - Author is right on target: "The fact that the US is such a wealthy and technologically advanced country with some environmental awareness and regulations but has such a glaring absence of offshore wind power is beyond shocking." The offshore generating capacity is phenomenal off our shores. Meanwhile, Europe increased offshore generation by 50% last year. Clean Technica (<http://s.tt/1j3ZZ>)  
July 26, 2012



## John Anderson column: Wind turbines aren't threat to human health, evidence suggests

greenbaypressgazette



**TidewaterCurrent** 7.23.12 - Massachusetts Department of Public Health Report and Wisconsin Department of Health Services literature review refute claims by Sen Frank Lasse that wind power is harmful to health.  
July 23, 2012



## GE Turbines Help Greenko Drive Wind Power Cost Below Coal

businessweek



**TidewaterCurrent** 7.18.12 - In India 57% of energy projects are coal based. With the price of wind energy falling below coal, investors will look develop projects there.  
July 18, 2012



## Cape Wind starts construction survey in Nantucket Sound

wickedlocal



**TidewaterCurrent** 7.13.12 - More info on the Cape Wind project. The company is moving forward but there are still court cases being appealed and political maneuvering that could continue to hold up the project.  
July 14, 2012



## Clear skies for offshore wind turbines off Atlantic City shore

nj



**TidewaterCurrent** 7.19.12 - Fishermen's Energy project consisting of 6 turbines located 2.8 miles off Atlantic City's coast has received all approvals to move forward. Now they just have to work out the financing.  
July 20, 2012



## Promoting wind energy in Virginia Beach | WAVY.com | Virginia Beach, Va.

wavy



**TidewaterCurrent** 7.16.12 - Yesterday the Sierra Club rallied at First Landing State Park on the shores of the Chesapeake Bay to promote offshore wind power and renewal of the PTC.  
July 16, 2012

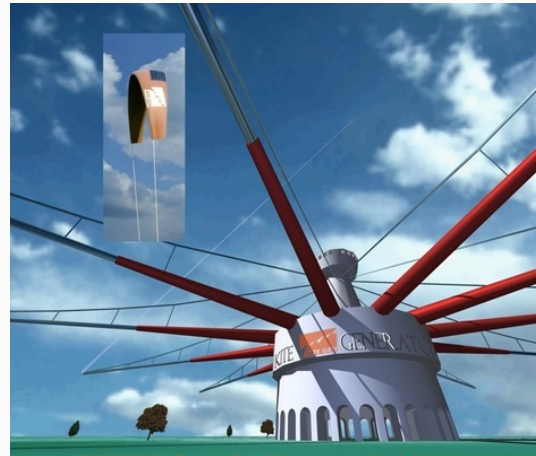


## Tiny Rooftop Turbine Could Make Urban Wind Farms A Reality

gizmodo



**TidewaterCurrent** 7.17.12 - Not exactly tiny, the 10 ft. tall with a 12 ft. diameter, vertical axis turbine spins at low speeds with little noise or vibration and can capture winds from any direction, even turbulent city wind. The developers are working at scaling up the energy produced.  
July 19, 2012



## Harnessing the jet stream for wind turbines | SmartPlanet

smartplanet



**TidewaterCurrent** 7.12.12 - High altitude wind energy. Total wind energy in the jet stream is 100 times what is currently used globally. 2 different methods have been developed to capture the energy in the strong steady winds and can be viewed in video links.  
July 18, 2012



## Cape Wind's monopole manufacturing job might go to an overseas contractor after all

blogs.wickedlocal



**TidewaterCurrent** 7.12.12 - It's not a done deal yet. Cape Wind is now conducting studies of the seabed in Nantucket Sound and is looking to begin work in 2013. Mass Tack is still hopeful they will win the pole manufacturing job.  
July 14, 2012



## While Cape Wind is debated, land-based development of wind power takes off - Boston.com

boston



**TidewaterCurrent** 7.9.12 - With high energy costs, wind development is moving forward on land in the North East. Waiting for offshore approvals, on shore projects with close to the amount of generating capacity have been developed onshore.  
July 9, 2012

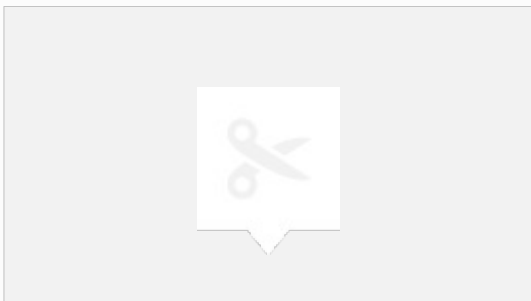


## Community Wind Arrives Stateside

renewableenergyworld



**TidewaterCurrent** 7.5.12 - Common in Europe, community wind projects are now growing at faster rate than commercial projects in the US. Farmers, public and private schools, colleges, tribal governments, municipalities, electric cooperative and business are buying into wind. A number of projects are highlighted included a project in Boston that reduced the town's street lighting bill to zero.  
July 9, 2012



## Offshore Wind Farms in US Waters Would Generate Both US and Foreign Maritime Jobs

renewableenergyworld



**TidewaterCurrent** 7.12.12 - Offshore wind could theoretically produce 4 times what is currently generated in the US. But even if the PTC is passed we don't have the skilled workers or equipment needed to develop the resource and would likely have to turn to foreign sources for assistance.  
July 13, 2012

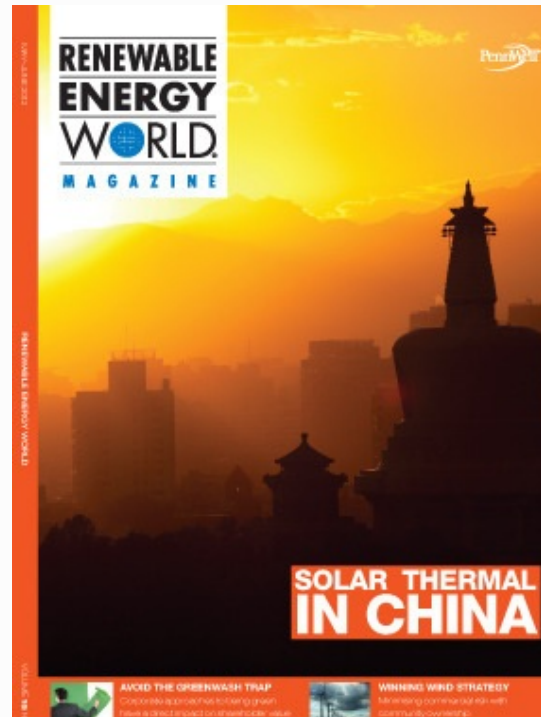


## DIY Wind-Powered Water Pump Made from Bike Parts

treehugger



**TidewaterCurrent** 7.6.12 - Builder is looking for feedback and improvements. Video included.  
July 7, 2012



## Wind Turbine Blades Push Size Limits

renewableenergyworld



**TidewaterCurrent** 7.10.12 - Are 20 MW turbines on the horizon??? The UpWind report (from 48 partners in the public and private sector) indicates that they are feasible. A 7 MW was debuted last year and GE announced plans to develop a generator for 10-15 MW devices.  
July 10, 2012



## Bird Charity to Build Gigantic Wind Turbine

treehugger



**TidewaterCurrent** Royal Society for the Protection of Birds in the UK is installing a wind turbine. The society is concerned about the impact of turbines on birds but feels with proper design and siting, wind is a much better option than fossil technologies. July 7, 2012



## Scientists Begin Mapping Ocean Floor off Maine Coast

mpbn



**TidewaterCurrent** 7.2.12 - In preparation for a wind development off Boothbay Harbor in Maine, scientists are collecting data on the ocean floor as well as collecting data on bird, bat and marine mammal populations in the area. July 3, 2012



## NASA researchers aim to help get airborne wind power systems off the ground

gizmag



**TidewaterCurrent** 7.4.12 - Researcher at NASALangley in Virginia have developed an autonomous system to fly energy generating kites. They've tested the system at low altitudes and now hope to test the system at the Wallops Island facility at high altitudes where winds are consistently strong. July 6, 2012



## Renova Strives for World's Cheapest Wind Power in Brazil: Energy

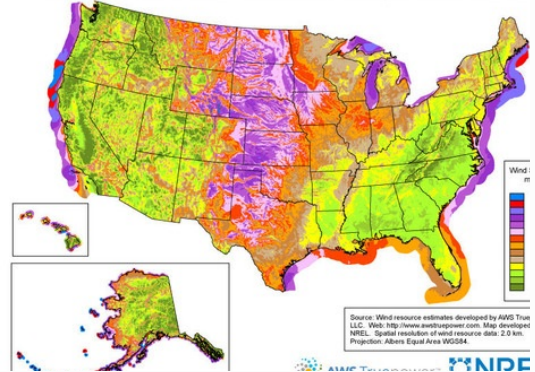
bloomberg



**TidewaterCurrent 7.2.12** - Brazil is looking to double wind production and wind companies would like to take advantage of some of the most consistent winds on the globe. Renova's first of several farms just began operating and they expect to produce the cheapest wind energy in the world.

July 3, 2012

United States - Land-Based and Offshore Annual Average Wind Speed at 80 m



## Area offshore Mass., RI closer to seeing wind projects following US environmental assessment

washingtonpost



**TidewaterCurrent 7.2.12** - Stage being set for leasing process as Bureau of Ocean Energy Management completes offshore assessment that will simplify the process expected to begin as early as next year. Interested parties have 30 days to make comments on the assessment.

July 3, 2012



## Hawaiian Cable Project 'May Boost Hopes' For US Offshore Wind «

earthtechling



**TidewaterCurrent** 7.2.12 - 25% of energy in Hawaii must be supplied by renewables by 2020. The inter-island HVDC cable will allow for the distribution of energy developed on different islands to be shared among currently unconnected grids. Planners expect that the grid will be able to support 1/3 of energy from renewable sources, considered a game changer if successful, which will have a positive impact on East Coast wind development. More info here: <http://energy.hawaii.gov/resources/hawaiiis-energy-future-depends-on-an-inter-island-undersea-cable-system> July 3, 2012



## Out with Wind Turbines, in with Windstalks?

designbuildsource.com.au



**TidewaterCurrent** 6.28.12 - Windstalks containing piezoelectric disks (the same technology employed in light up shoes) are planned for Masdar City in Abu Dhabi. As the stalks sway in the wind the disks compress and generate a current. <http://designbuildsource.com.au/wind-turbines-windstalks> June 30, 2012



## Wind Helping to Power Beach Manufacturing Plant

tidewatercurrent



**TidewaterCurrent** 6.26.12 - Stihl Incorporated in Virginia Beach installed 2 Honeywell Windtronics turbines and is looking to install 7 more. The devices pictured rooftop on the ClearSense Building in downtown Durham, N.C. represent a design innovation, as energy is generated at the blade tips instead of at a hub based generator. <http://tidewatercurrent.com/summer2012/Features.html#wind> June 26, 2012





## Turbine Tech Turn Up: Machines for an Evolving Market

renewableenergyworld



**TidewaterCurrent** 6.19.12 - Great read on the current status of the major players in wind (including offshore) with info on projects and turbines being developed.  
<http://www.renewableenergyworld.com/rea/news/article/2012/06/turbine-tech-turn-up-machines-for-an-evolving-market?page=all>  
June 25, 2012



## Winds of Change: The Wind Industry Is Leaving the US

greentechmedia



**TidewaterCurrent** 7.2.12 - Without the PTC, industry leaders are looking to make investments outside the US. There is demand and political support for wind development in Latin America, India and Canada. Why waste their time, energy and resources here? Renova expects its farms in Brazil will produce the world's cheapest wind power.  
July 3, 2012



**The global boom in wind energy | Wind energy provides 3 percent of the global demand for electricity and will soon be delivering more electricity than nuclear power plants**

dw.de



**TidewaterCurrent** 6.29.12 - Great piece on the growing global wind energy trend. Reason for the global boom is price. Wind is competitive with coal in Europe and if you factor in the true cost of coal, the energy produced by wind would be much cheaper.

<http://www.dw.de/dw/article/0,,16058358,00.html>

June 29, 2012



**Wind turbine built in Marshall unveiled**

battlecreekenquirer



**TidewaterCurrent** 6.22.12 - New vertical axis wind turbine being tested in Michigan. Built by Johnson systems and ArborWind Power, the companies hope to market the machine to industry and agribusinesses like dairy farms and greenhouses to supplement grid supplied power.

[http://www.battlecreekenquirer.com/article/20120622/NEWS01/306220017/Wind-turbine-built-in-Marshall-unveiled?](http://www.battlecreekenquirer.com/article/20120622/NEWS01/306220017/Wind-turbine-built-in-Marshall-unveiled?odyssey=tab%7Cmostpopular%7Ctext%7CFRONTPAGE)

[odyssey=tab%7Cmostpopular%7Ctext%7CFRONTPAGE](http://www.battlecreekenquirer.com/article/20120622/NEWS01/306220017/Wind-turbine-built-in-Marshall-unveiled?odyssey=tab%7Cmostpopular%7Ctext%7CFRONTPAGE)

June 24, 2012



## Fort Lauderdale Hilton to Install Wind Turbines

travelhostelite



**TidewaterCurrent** 6.14.12 - 6 Vertical axis wind turbines will be installed on the Hilton's rooftop this Fall. Solar panels are to be installed as well. <http://www.travelhostelite.com/eco-kudos/>

June 14, 2012



## Principle Power and partners inaugurate the first Portuguese offshore wind turbine

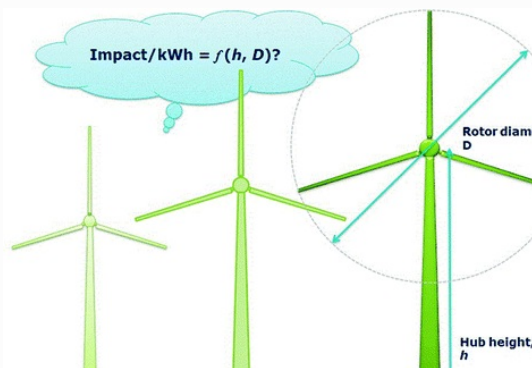
power-eng



**TidewaterCurrent** 6.19.12 - Vestas turbine installed on floating platform called the Windfloat. It is the first offshore turbine installed in Portugal and the first installation on this floating platform system.

<http://www.power-eng.com/news/2012/06/19/principle-power-and-partners-inaugurate-the-first-portuguese-offshore-wind-turbine.html>

June 19, 2012



## Bigger Is Better for Wind Turbines

cleantechnica



**TidewaterCurrent** 6.20.12 - Study in Environmental Science & Technology concludes that larger turbines produce more clean power without corresponding increases in material and constructions costs.

<http://cleantechnica.com/2012/06/21/bigger-is-better-wind-turbines/>

June 21, 2012



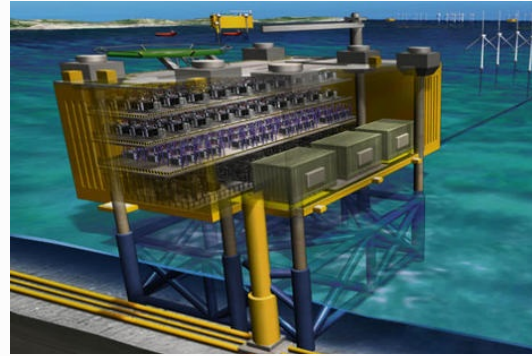
## Wind News Around the World

sustainablebusiness



**TidewaterCurrent** 6.12.12 - Covers a lot of recent news from around the world, features a first: bank financing of an offshore wind project in the UK. A private equity firm is also partnering with Renovalia Energy investing in wind farms in Europe and North America. And FERC has approved a 500 mile high voltage direct current transmission line that will send renewable energy from Iowa, Nebraska, S. Dakota and Minnesota east.

<http://www.sustainablebusiness.com/index.cfm/go/news.display/id/23780>  
June 13, 2012



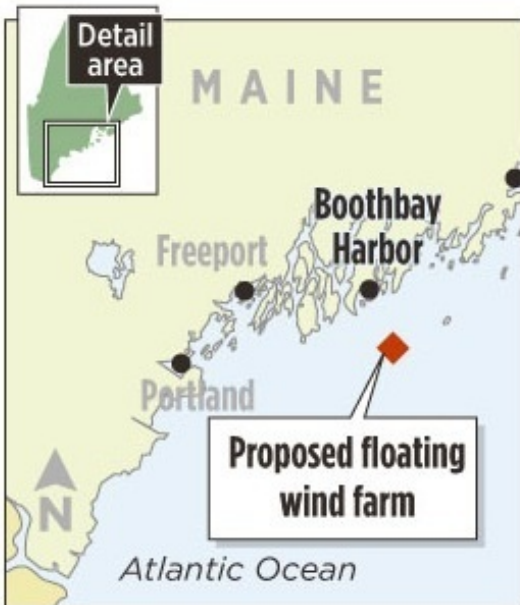
## In Depth: Building a US offshore transmission backbone

rechargenews



**TidewaterCurrent** 6.8.12 - The Bureau of Offshore Energy Management wants to fast track East Coast offshore wind development. Despite a petition to the shelve a right of way application by Dominion Resources, the Atlantic Wind Connection, a HVDC transmission line for offshore wind energy, will undergo an environmental review for the 61 meter wide corridor stretching from Virginia to New Jersey. Dominion either needs to bite the bullet and invest in offshore wind or stand back and watch as someone else does it. Once the AWC is operational, there will be interest.

<http://www.rechargenews.com/energy/wind/article315079.ece>  
June 11, 2012



Source: Statoil North America Inc.  
STAFF GRAPHIC | MICHAEL FISHER

## Norwegian company touts its plan for wind farm off Maine coast

pressherald



**TidewaterCurrent** 6..15.12- Public meetings planned this month to discuss a floating turbine project. Statoil is looking to test 4 turbines 12 miles off Boothbay Harbor like the Hywind prototype pictured. [http://www.pressherald.com/news/interest-of-wind-farm-company-runs-deep\\_2012-06-15.html](http://www.pressherald.com/news/interest-of-wind-farm-company-runs-deep_2012-06-15.html)  
June 15, 2012



## Wind Mapping Study Looks at Turbine Feasibility for Boston High-Rises

marketwatch



**TidewaterCurrent** 6.6.12 - A sky farm of ten 50 kW vertical axis turbines on top of high-rise can supply 10% of energy demand. Info at: <http://easternwindpower.us/about/>  
June 7, 2012



## 10 COMPANIES INTERESTED IN MASS. OFFSHORE WIND DEVELOPMENT

power-eng



**TidewaterCurrent** 6.4.12 -

Massachusetts is gearing up for offshore wind development. Aside from 10 companies vying for offshore leases that would provide 4,000 MW of electricity (enough to power 1.7 million homes), a wind technology testing center has been established in the state and Siemens and other global leaders in the wind industry are also setting up shop there.

<http://www.power-eng.com/news/2012/06/04/10-companies-interested-in-mass-offshore-wind-development.html>  
June 6, 2012



## Wind power cheaper than conventional sources, find plethora of studies - Renewable Energy Magazine, at the heart of clean energy journalism

renewableenergymagazine



**TidewaterCurrent** 5.30.12 - Global Wind Energy Council cites numerous recent studies (including a US report from the Michigan Public Service Commission) finding that the true cost of wind power is considerably cheaper than conventional energy production.

[http://www.renewableenergymagazine.com/article-wind-20633-48-Wind\\_power\\_cheaper\\_than\\_conventional\\_sources,\\_find\\_plethora\\_of\\_studies](http://www.renewableenergymagazine.com/article-wind-20633-48-Wind_power_cheaper_than_conventional_sources,_find_plethora_of_studies)  
June 4, 2012



## GE Readies for Waning Wind Power

businessweek



**TidewaterCurrent** 6.7.12 - With rising costs and environmental concerns associated with fossil fuels, the wind industry should literally be taking off. Instead, anticipating a slow down in wind projects, as the PTC has not been extended, 10,000 US jobs are likely to be lost this year. If congress does not act to extend it, next year that figure will rise to a 37,0000. Even if Congress does act, it will take time for production rates (and jobs) to rebound in the industry.

<http://www.businessweek.com/articles/2012-06-07/ge-readies-for-waning-wind-power>

June 8, 2012



## Even Karl Rove supports wind energy. Will Romney get on board?

leanforward.msnbc.msn



**TidewaterCurrent** 6.6.12 - Karl Rove, and in general the Republican party, is for the renewal of the Production Tax Credit for wind. If that's the case, why hasn't it already been renewed?? ?? Projects are being cancelled or pushed back and jobs lost. The author goes on to discuss Romney's position, which he has yet to make known. Whether he supports the PTC or not, Romney's comments on renewable energy are at best skeptical.

[http://leanforward.msnbc.msn.com/\\_news/2012/06/06/12088947-even-karl-rove-supports-wind-energy-will-romney-get-on-board?lite](http://leanforward.msnbc.msn.com/_news/2012/06/06/12088947-even-karl-rove-supports-wind-energy-will-romney-get-on-board?lite)

June 10, 2012



## Could Floating Wind Turbines Solve Our Energy Crisis?

worldcrunch



**TidewaterCurrent** 6.3.12 - Pictured, Sway, the World's first full-scale floating wind turbine, assembled in the Amøy Fjord (L.C.Nøttaasen). Unfortunately, the small scale test turbine sank in a storm, that would not be strong enough to take down a full scale model. Undamaged, it will be floated again so testing can resume. With so much untapped energy in offshore wind and deep water in many locations, floating turbines are the only option and represent an area of great growth for the industry.  
<http://www.worldcrunch.com/could-floating-wind-turbines-solve-our-energy-crisis/5480>  
June 5, 2012



## GE wind turbines installed at Vietnam's first offshore wind farm

ewind.es



**TidewaterCurrent** 6.1.12 - Vietnam has offshore turbines before we do and we are helping to finance the project and a US company (GE) is providing the turbines. Two turbines have been installed with 8 to follow by the end of the summer then the first phase of the project will be connected to the grid. An additional 52 are planned for the farm.  
[http://www.ewind.es/noticias.php?id\\_not=18855](http://www.ewind.es/noticias.php?id_not=18855)  
June 1, 2012



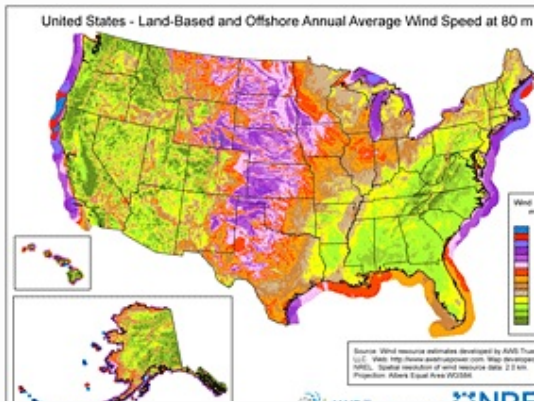
## Harvest the Wind

switchboard.nrdc



**TidewaterCurrent** 6.1.12 - A new book "Harvest the Wind" by Philip Warburg highlights the lives of folks working in the wind industry around the country, including a truck driver who delivers the 130 foot long turbine blade pictured. The authors notes the resurgence in manufacturing jobs the industry has created. Pity the industry has scaled back the last year as concerns over government support mount (in particular, the production tax credit for wind).  
[http://switchboard.nrdc.org/blogs/plehner/harvest\\_the\\_wind.html](http://switchboard.nrdc.org/blogs/plehner/harvest_the_wind.html)  
June 2, 2012





## Wind Program Newsletter: Energy Department Releases New Land-Based/Offshore Wind Resource Map

[apps1.eere.energy.gov](http://apps1.eere.energy.gov)



**TidewaterCurrent** Map shows predicted annual wind speeds at 80 m heights. More info: [http://wind.energy.gov/resource\\_assessment\\_characterization.html](http://wind.energy.gov/resource_assessment_characterization.html)  
May 31, 2012



## KiteGen's High Altitude System Generates Affordable Wind Energy With Kites

inhabitat



**TidewaterCurrent** 5.31.12 - Gigawatt class energy production touted by KiteGen with new large winged kite concept. Company expects that a carousel composed of kites could produce enough energy to power 5,000 homes per year. Link to youtube video included.  
<http://inhabitat.com/kitegens-power-systems-are-the-next-stage-of-wind-energy-generation/>  
June 1, 2012

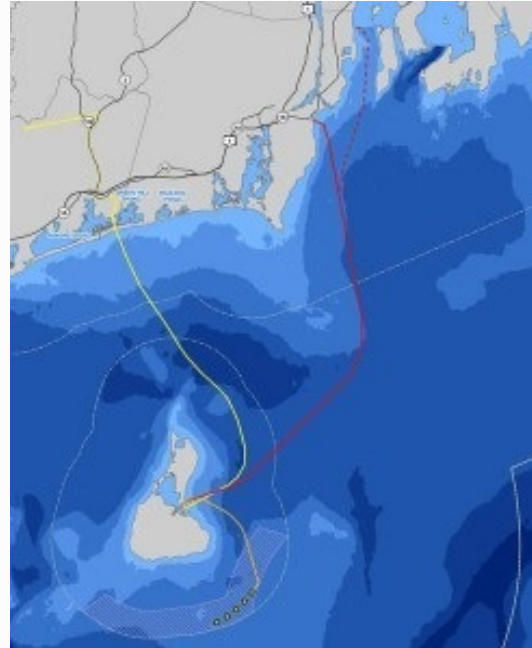


## MAJOR WIND DEVELOPERS HAVE PLEDGED TO VOLUNTARILY INCORPORATE BIRD-FRIENDLY GUIDELINES IN THE CONSTRUCTION OF NEW WIND ENERGY PROJECTS AND TO MODIFY EXISTING TURBINES - Audubon Magazine

audubonmagazine



**TidewaterCurrent** The Department of the Interior announces new wind farm siting guidelines to protect wildlife. US Fish and Wildlife Service to be in on siting deliberations and measures are to be taken to protect birds.  
<http://www.audubonmagazine.org/articles/birds/audubon-view-1>  
May 31, 2012



## Little State Making Big Progress on Offshore Wind

blog.nwf



**TidewaterCurrent** 5.29.12 - This article from the National Wildlife Federation highlights the organizations support of offshore wind as a clean part of our energy future. What's special about the Block Island project is that data was collected by federal and state agencies as well as the developer to identify a site location that minimizes impact to marine mammals, birds, bats, fisheries and benthic habitat.  
<http://blog.nwf.org/2012/05/little-state-making-big-progress/>  
May 30, 2012



## Any Deepwater Wind competitors must step forward

renewablesbiz



**TidewaterCurrent** 5.23.12 -

Transmission process started in Rhode Island for the Block Island Offshore Wind Farm. Before BOEM can approve Deepwater Winds proposed transmission line, they need to ensure there is no competitive interest in the projects. <http://www.renewablesbiz.com/article/12/05/any-deepwater-wind-competitors-must-step-forward>  
May 24, 2012



## Test of Floating Wind Turbine at US Site Next Year

marinelink



**TidewaterCurrent** 5.25.12 - University of Maine testing of a floating offshore wind turbine planned for this summer has been pushed back to next summer due to permitting issues. The Monhegan test turbine at feet tall is a one third scale model of what ideally will be sited in a farm 20-40 miles off the coast. <http://www.marinelink.com/news/floating-turbine-test344991.aspx>  
May 25, 2012

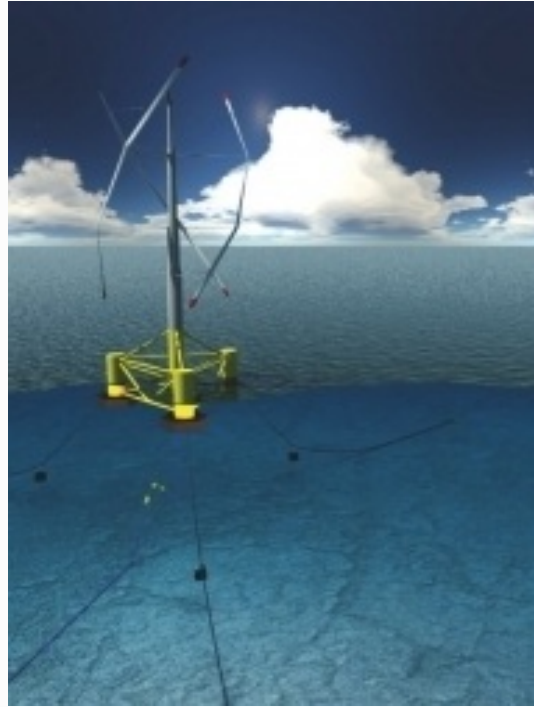


## Eco sail freighter loses berth to gas-guzzling superyacht | Sailing news | Yachting Monthly

yachtingmonthly



**TidewaterCurrent** 5.22.12 - Wind powered freighter promoting sustainable transport delayed by headwinds on a transatlantic voyage ironically loses easily accessible berth to gas guzzling yacht. Yachting Monthly will feature a story on the Tres Hombres sailing vessel and their transport scheme next month. <http://www.yachtingmonthly.com/news/531707/eco-sail-freighter-loses-berth-to-gas-guzzling-superyacht> May 23, 2012



## Shaking up offshore wind

ecogeneration.com.au



**TidewaterCurrent** 5.29.12 - Boulogne-sur-Mer, France. The Vertiwind project is testing a prototype floating vertical axis wind turbine (VAWT). Before going offshore, tests are currently being conducted onshore where pitching and oscillating motions are being simulated to mimic an ocean environment. The floating VAWTS are less sensitive to pitching motion than floating horizontal axis turbines and they have a lower visual impact at 100 m tall. [http://ecogeneration.com.au/news/shaking\\_up\\_offshore\\_wind/075441/](http://ecogeneration.com.au/news/shaking_up_offshore_wind/075441/) May 29, 2012



## Invenergy's Roanoke Co. plan delayed until 2015 - [www.roanoke.com](http://www.roanoke.com)

roanoke



**TidewaterCurrent** 5.26.12 - Roanoke, VA - Plans to develop a mountaintop wind farm expected to be up and running by the end of the year, have been pushed back. Invenergy cites the uncertainty of the renewal of the production tax credit and the lack of a renewable energy standard in Virginia as motivation for this move. This follows Gamesa's move to shift its test of an offshore wind turbine from the Virginia Coast to the Canary Islands, for the same reasons. <http://www.roanoke.com/news/roanoke/wb/309396>  
May 27, 2012



## Wind farm controversy buffets tiny Block Island

theday



**TidewaterCurrent** 5.27.12 - Great article about the Block Island wind debate. It could be home to the first offshore wind farm. Deepwater Wind plans to install 5 turbines 3 miles off the island. Currently energy is provided via diesel generators at a cost of \$ .60 kWh compared to \$ .15 elsewhere, so the expense of the installation makes good economic sense. The island can literally be totally powered by the the strong winds that blow around it. Yet despite the environmental and economic benefits, there are those that are concerned about the view. Some think their property value will decline as a result of the installation. Only time will tell, but property owners may be surprised - values could increase. <http://www.theday.com/article/20120527/NWS01/305279956/-1/nws>  
May 27, 2012



## Energy Ball Wind Turbines Harness Exhaust Air

windworksenery



**TidewaterCurrent** Exhaust air spins turbine atop of Hyatt's Olive 8 in Seattle. See Video.  
May 17, 2012

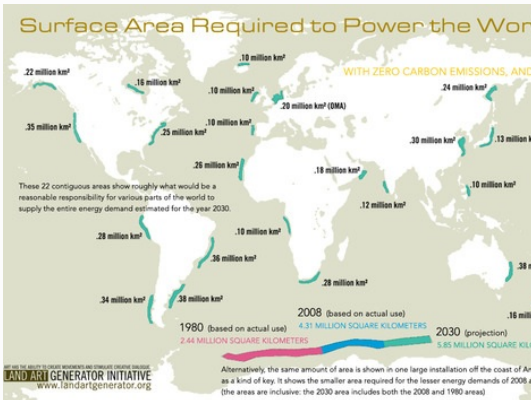


## Why Did Gamesa Abandon Virginia? -Offshore Wind Wire

offshorewindwire



**TidewaterCurrent** 5.17.12 - With the approval necessary to move forward with an offshore demonstration turbine, needed to gather data for a commercial undertaking off Virginia's shores, Gamesa has turned it's back on the project and elected to instead install their demo turbine off of the Canary Islands. The company cited lack of federal support as cause for the move. Similarly, Statoil, considering a floating turbine off the coast of Maine, also indicated the need for federal support. - <http://offshorewindwire.com/2012/05/17/analysis-why-did-gamesa-abandon-va/>  
May 18, 2012



## Area required to power the world

c1cleantechicacom.wpengine.netdna-cdn



**TidewaterCurrent**  
May 18, 2012



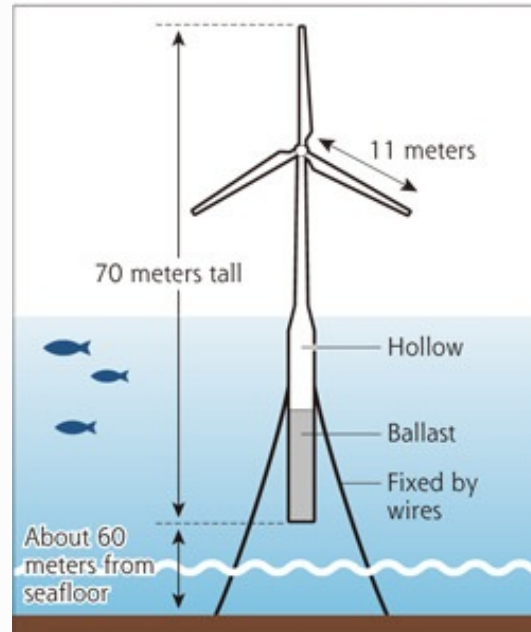
## 14 US Wind Energy Leaders Meet at White House over Call to Extend Wind Production Tax Credit before Congress Goes on Summer Recess

cleantechnica



**TidewaterCurrent** 5.22.12 - With production tax credits for wind energy ending this year, investment in numerous projects has waned. For example, Gamesa moved their offshore demo project from the Chesapeake Bay to the Canary Islands. Finally, today we see a glimmer of hope for PTC extension. A bipartisan group met today at the White House with industry leaders. Let's hope they can act fast.  
<http://cleantechnica.com/2012/05/22/14-us-wind-energy-leaders-meet-white-house-call-extend-wind-production-tax-credit-congress-goes-summer-recess/>  
May 22, 2012

## Environment Ministry's floating wind turbine model

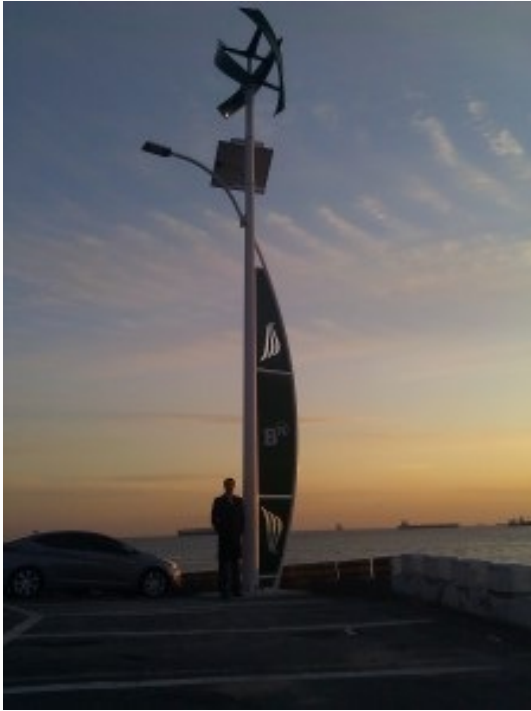


## Floating wind turbine test to start soon

yomiuri.co.jp



**TidewaterCurrent** 5.17.12 - Japan has an ambitious offshore wind program. A floating offshore turbine is to be tested later this month. The demo turbine is small (100 kW with 11 meter blades). After initial tests, a larger model will be deployed for testing. The goal is to install 143 turbines producing as much energy as nuclear reactor between 2016-2020.  
<http://www.yomiuri.co.jp/dy/national/T120516004934.htm>  
May 20, 2012



## Small Wind Energy Goes Urban In Italy, Korea, Brazil And Texas - Forbes

forbes



**TidewaterCurrent** 5.17.12 - Urban wind installations providing energy right where it is needed. All over the world, cities are installing the small turbines and saving money. Likewise, companies like Urban Green Energy based in New York City, are reaching the residential market. Not surprisingly, the US supports the greatest generating capacity. - <http://www.forbes.com/sites/jenniferhicks/2012/05/17/small-wind-energy-goes-urban-in-italy-korea-brazil-and-texas-yes-texas/?ss=innovation-science>  
May 18, 2012

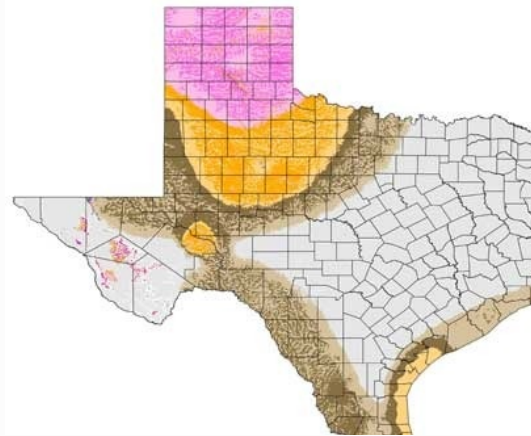


## Offshore Wind: Making an American Industry, Part 2

renewableenergyworld



**TidewaterCurrent** 5/14/12 - An up to date piece that looks at endeavors to develop offshore wind from Delaware to South Carolina, with a good focus on Virginia.  
May 14, 2012



## ERCOT: Texas increased renewable generation by 13 percent in 2011

power-eng



**TidewaterCurrent** With wind contributing the lions share, renewable energy production increased 13% in Texas in 2011.  
May 17, 2012





## Vertical-Axis Turbine: New Take On Wind Potential «

earthtechling



**TidewaterCurrent** 5/14/12 - Russian designers claim efficiency of 84-89% of new quiet VAWT. - <http://www.earthtechling.com/2012/05/vertical-axis-turbine-new-take-on-wind-potential/>  
May 15, 2012

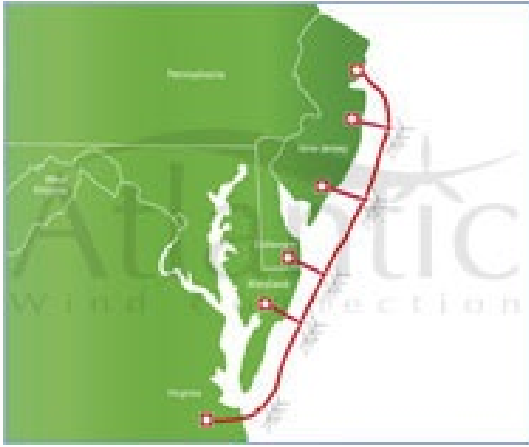


## Small Wind-Turbine Maker Sees 'Energy Clusters' «

earthtechling



**TidewaterCurrent** 5/10/12 - Sauer Energy looking to develop community wind projects with it's vertical axis WindCharger which can generate power with 5 mph winds. They would like to see the turbines placed in cluster in and around urban areas (so energy is not lost in transmission).  
May 11, 2012



## Google-Backed Offshore-Wind Grid Gets Environmental Review

bloomberg



**TidewaterCurrent** 5/14/12 - The Atlantic Wind Connection to stretch from Virginia to New Jersey to proceed with environmental review for the Interior Department. - <http://www.bloomberg.com/news/2012-05-14/google-backed-offshore-wind-grid-gets-environmental-review.html>  
May 14, 2012

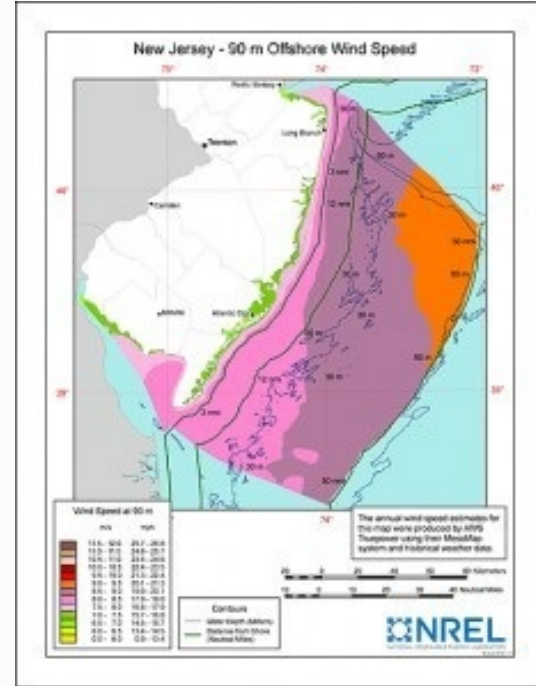


## Gamesa reaches a critical milestone in its offshore strategy: the first offshore prototype to be installed in Spain

gamesacorp



**TidewaterCurrent**  
May 7, 2012



## New Jersey Takes Slow, Steady Approach to Offshore Wind

blog.cleantechies



**TidewaterCurrent** 5/17/12 - With a state policy in place to support offshore wind, Fishermen's Energy, a partnership of commercial fishing companies, is planning a demonstration project in state waters. - <http://blog.cleantechies.com/2012/05/17/new-jersey-takes-slow-steady-approach-to-offshore-wind/>  
May 17, 2012



## 73.5-m blades fly on the largest offshore wind turbine in the world

windpowerengineering



**TidewaterCurrent** 5/8/12 - Largest offshore wind turbine - The 6 MW wind turbine sited off the shore of France by Alstom sports the world's longest blades. The LM composite blades will keep loads down and boast energy productions. -

<http://www.windpowerengineering.com/design/mechanical/blades/73-5-m-blades-fly-on-the-largest-offshore-wind-turbine-in-the-world/>

May 9, 2012



## Conservative thinktanks step up attacks against Obama's clean energy strategy

guardian.co.uk



**TidewaterCurrent** 5/8/12 - Subversion plan by fossil fuel funded advocacy groups to taint the wind and solar industries and the Obama administrations support of the renewable sector made public in this article from the Guardian (a large and reputable U.K. news source). -

[http://www.guardian.co.uk/environment/2012/may/08/conservative-thinktanks-obama-energy-plans?](http://www.guardian.co.uk/environment/2012/may/08/conservative-thinktanks-obama-energy-plans?newsfeed=true)

newsfeed=true

May 9, 2012



## Wind Powering America: WPA Webinar: Careers in Wind Energy

windpoweringamerica.gov



**TidewaterCurrent** 5/16/12 - 3 p.m EDT - This free webinar is part of the U.S. Department of Energy's Wind Powering America 2012 webinar series. It will provide an overview of the wind energy careers from an industry perspective. The webinar will focus on recent work in defining wind energy careers while highlighting some of the critical, but lesser known, career paths in the wind industry. The webinar is free; no registration is required.

May 8, 2012



## Offshore Wind: Making an American Industry, Part 1

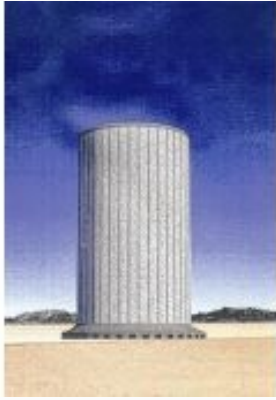
renewableenergyworld



**TidewaterCurrent** 5/11/12 - Northeastern states taking the lead in the race to build the country's first offshore wind farm. Block Island residents could be the first to enjoy power from offshore wind turbines. Deepwater is hoping to have final permits in several months meaning power production could begin as early as 2014. -

<http://www.renewableenergyworld.com/rea/news/article/2012/05/offshore-wind-the-making-of-an-american-industry-part-1>

May 11, 2012



## Firm proposes first-of-kind electricity towers in San Luis

yumasun



**TidewaterCurrent** 5/6/12 - Maryland's Clean Wind Energy is planning the development of a new type of wind generator in Arizona. Hot dry air in the tower will be cooled with water from the Sea of Cortez, causing it to fall at speeds of 50 mph or more spinning turbines and creating electricity. The company expects the project to produce electricity for 1.6 million homes. The Project is on the agenda for San Luis City (AZ) Council next week.- Read more:  
<http://www.yumasun.com/articles/city-78831-towers-san.html#ixzz1uBPsJUW4> and  
<http://www.yumasun.com/news/towers-78018-energy-city.html>  
May 7, 2012

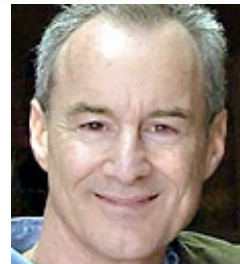


## North American Windpower: New Bill Proposes To Extend Wind Energy PTC, Slash Oil Subsidies

nawindpower



**TidewaterCurrent** 5/1/12 - The bill - Investing to Modernize the Production of American Clean Energy and Technology (IMPACT Act) -  
[http://www.nawindpower.com/naw/e107\\_plugins/content/content.php?content.9777](http://www.nawindpower.com/naw/e107_plugins/content/content.php?content.9777)  
May 5, 2012



## Waging the Battle to Build the U.S.'s First Offshore Wind Farm (Cape Wind)

e360.yale.edu



**TidewaterCurrent** 5/2/12 - Interview with Jim Gordon -  
[http://e360.yale.edu/feature/cape\\_winds\\_jim\\_gordon\\_decade\\_to\\_build\\_first\\_offshore\\_wind\\_farm/2523/?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+YaleEnvironment360+%28Yale+Environment+360%29](http://e360.yale.edu/feature/cape_winds_jim_gordon_decade_to_build_first_offshore_wind_farm/2523/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+YaleEnvironment360+%28Yale+Environment+360%29)  
May 2, 2012



## Wind Power, Birds Just Fine Together, Study Says «

earthtechling



**TidewaterCurrent** 5/3/12 - UK Wind Power Study finds conducted in collaboration with the Royal Society for the Protection of Birds, indicates bird population unharmed by giant turbines. - <http://www.earthtechling.com/2012/05/wind-power-birds-just-fine-together-study-says/>  
May 5, 2012



*Sandeel catch at Horns Reef. In the catch more sand gobies, one pipefish and small scupin (only the snout visible) can be recognised. One larger specimen*

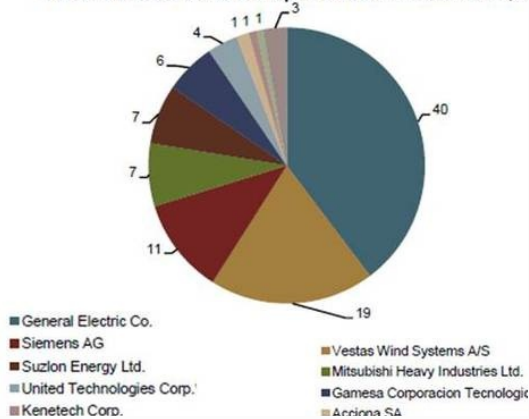
## Fish Thriving Amid Offshore Turbines, Danes Say «

earthtechling



**TidewaterCurrent** 5/4/12- Danish Study at offshore wind farm reports that native species to the area and new species are thriving. - <http://www.earthtechling.com/2012/05/fish-thriving-amid-offshore-turbines-danes-say/>  
May 5, 2012

Cumulative market share of top 10 turbine manufacturers (%)

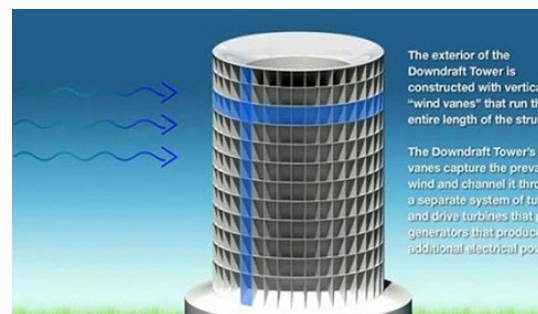


## GE Still Dominates US Wind Manufacturing but New Faces Are Emerging

greentechmedia



**TidewaterCurrent** 5/1/12 - <http://www.greentechmedia.com/articles/read/ge-still-dominates-u.s.-wind-making-but-new-faces-are-emerging/>  
May 2, 2012



The exterior of the Downdraft Tower is constructed with vertical "wind vanes" that run the entire length of the structure.

The Downdraft Tower's vanes capture the prevailing wind and channel it through a separate system of turbines and drive turbines that produce additional electrical power.

## Enormous Desert Wind Tower Plan Inches Forward

earthtechling



**TidewaterCurrent**  
April 27, 2012



## Don't believe the headlines. Wind farms do not cause 'global' warming.

csmonitor



**TidewaterCurrent** 4/30/12 - The Christian Science Monitor. Satellite data (not ground measurements) indicate a night time warming trend associated with a few Texas wind farms on the ground. Interpretation of the data suggests the tall spinning turbines pull warmer air down to ground level - redistributing heat (not necessarily causing warming). The authors of the study indicated that more needs to be investigated. - <http://www.csmonitor.com/Science/2012/0430/Don-t-believe-the-headlines.-Wind-farms-do-not-cause-global-warming>  
May 1, 2012



## Wind turbine creates water from thin air

edition.cnn



**TidewaterCurrent** 4/30/12 - [http://edition.cnn.com/2012/04/29/world/eole-water-turbine/?hpt=hp\\_c2](http://edition.cnn.com/2012/04/29/world/eole-water-turbine/?hpt=hp_c2)  
April 30, 2012



## Floating Offshore Wind Turbine Collaboration Announced Between US, UK

treehugger



**TidewaterCurrent** 4/24/12 - <http://www.treehugger.com/renewable-energy/floating-offshore-wind-turbine-collaboration-united-states-united-kingdom.html>  
April 29, 2012

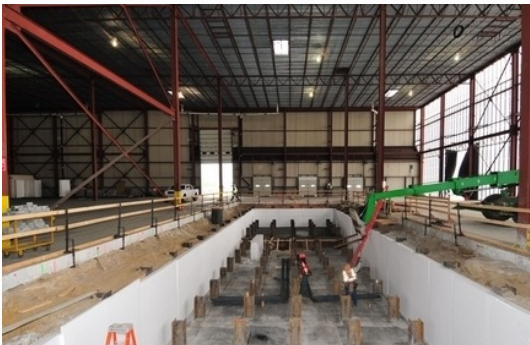


## **U.S. Offshore Wind Farms: The Race is On? Virginia may become the first state to actually have an operating offshore wind farm in the water**

energy.aol



**TidewaterCurrent** 4/20/12 -  
<http://energy.aol.com/2012/04/20/u-s-offshore-wind-farms-the-race-is-on/>  
April 29, 2012



## **Charleston area wind power industry could be an important source of new South Carolina jobs - Clemson Wind Turbine Drivetrain Testing Facility Largest in the World**

postandcourier



**TidewaterCurrent** 4/29/12 -  
<http://www.postandcourier.com/article/20120429/PC05/120429158/1010>  
April 30, 2012