

Energy-Solar

by TidewaterCurrent

Part of Energy



ODU receives large solar energy grant | WAVY.com | Norfolk, Va.

wavy



TidewaterCurrent 1.18.13 - Dominion Power grants ODU \$500,000 for solar energy research.
January 20, 2013



Fish farm or PV power plant?

worldfishing



TidewaterCurrent "For a fish farm, predatory birds are pests that kill and damage the farm's fish stocks. Power company ABB says that perhaps the most effective and profitable way to protect the fish is to camouflage the water with a structure - like a roof-top photovoltaic power plant."
January 21, 2013



Sacramento News & Review - Off the grid - Plug'd In - Green - January 17, 2013

newsreview



TidewaterCurrent Solarized art at Boys and Girls Club to power electronic devices.
January 19, 2013

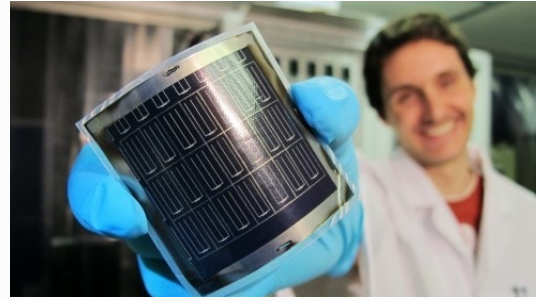


Solar-Powered Water Treatment Plant Developed

cleantechnica



TidewaterCurrent "In Phoenix, Arizona, SunPower Corporation developed a 7.5 megawatt (MW) solar power plant, constructed to help power a water treatment plant....SunPower's solar power plant is expected to save the water treatment facility \$4 million over a 20 year period."
January 17, 2013



Empa claims new world record for solar cell efficiency

gizmag



TidewaterCurrent 1.20.13 - "The efficiency of Empa's flexible polymer foil-based thin solar cells bests the record of 20.3 percent efficiency for CIGS solar cells on glass substrates, and also equals that of the most efficient polycrystalline silicon wafer-based solar cells. The next step is to scale-up the technology to be suitable for large scale, roll-to-roll manufacturing, and Empa is collaborating with a start-up company named Flisom to help bring this about."
January 20, 2013



Army's largest solar array dedicated in New Mexico

nbc29



TidewaterCurrent "At White Sands, Siemens Industry Inc. will be operating the new solar array and selling the electricity to the missile range. Officials said the Army will own the renewable energy credits associated with the solar plant and will use them toward meeting federal renewable energy mandates. Construction of the 4.1 megawatt array took about eight months. Work was completed in December, and officials expect the system to save White Sands more than \$930,000 a year."
January 17, 2013



Rising Solar Energy Output Drives German & French Power Prices To Record Lows

cleantechnica



TidewaterCurrent "federal government actions and energy policy reform in Germany have created an environment and conditions that have diversified, expanded, and made Germany's economy more dynamic, robust and resilient, driving employment to record-high levels and improving social and environmental conditions....Just yesterday, Bloomberg reported that contracts to deliver electricity for 2014 in Germany and France dropped to record-low levels. The reason? "Rising solar output is expected to cut demand for other electricity sources."

January 18, 2013



Bonnaroo Unveils First Permanent Festival Solar Array | Green Up Music

greenupmusic



TidewaterCurrent 1.9.13 "In a groundbreaking effort to actively reduce its carbon footprint, Bonnaroo organizers and representatives from Knoxville-based Sustainable Future and Vermont-based Encore Redevelopment announced this week the completion of construction and installation of the country's first permanent solar array for a music festival. "

January 14, 2013



Solar ship aims to soar

bbc



TidewaterCurrent 1.13.13. - "Solar panels - spread across the topside of the aircraft - power an electric motor, which then turns a propeller and provides the thrust necessary for taking off, flying and landing. The aircraft is suspended by a giant helium-filled balloon, which generates lift statically (exactly like a blimp.) The buoyancy from the helium also helps counterbalance the weight of the solar panels and batteries."
January 15, 2013



Financing complete for largest solar powered US military community

pv-tech



TidewaterCurrent 1.8.13 - "True Green Capital Management and financier CIT Group have announced the closing of a US\$35 million contract for the construction of a 12.3MW installation at...the privatised military family housing community at Joint Base McGuire-Dix-Lakehurst, New Jersey."
January 14, 2013

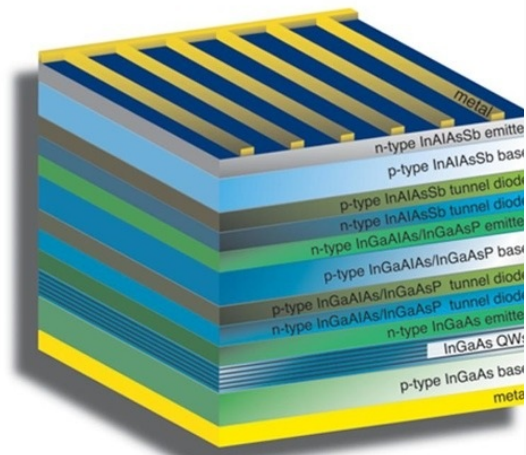


Los Angeles DWP unveils solar power buyback program

latimesblogs.latimes



TidewaterCurrent "Described as the largest urban rooftop solar program of its kind in the nation, the so-called feed-in-tariff program would pay customers 17 cents per kilowatt hour for energy produced on their own equipment. The DWP has already accepted more than a dozen applicants and will be taking dozens more as it accepts contracts for up to 100 megawatts of solar power through 2016." January 12, 2013



Triple-Junction Solar Cell Being Developed By US Navy Is To Break Through The 50% Conversion Efficiency Barrier

cleantechnica



TidewaterCurrent "A 'multi-junction solar cell', is essentially, a solar cell where each specialized 'junction' is designed to very efficiently absorb and use different wavelength bands in the solar spectrum." A new alloy material identified could deliver phenomenal efficiency. January 15, 2013



Virginia Co. Purveys Wines with a Double Dose of Sunshine - Tidewater Current | Winter 2013

tidewatercurrent



TidewaterCurrent 12.23.12- Solar derived fruit of the vine stored in sun run warehouse January 4, 2013



RPS Webinar: Solar Valuation in Utility Planning Studies - Wed. Jan 16, 2-3 p.m.

cleanenergystates



TidewaterCurrent The Collaborative provides a forum for the exchange of experiences and lessons learned regarding the implementation of state Renewable Portfolio Standard (RPS) policies and the marketing of RECs or renewable energy credits across the U.S.

January 3, 2013



New York sales-tax break puts shine on new solar panels

lohud



TidewaterCurrent "A state sales-tax exemption that kicked in this week, along with a newly extended federal incentive and lower prices for solar panels, are expected to make commercial solar systems even more attractive for businesses this year."

January 4, 2013



Tesla's solar powered super chargers hit the east coast

gigaom



TidewaterCurrent 12.26.12 - Six of the superchargers were installed in Ca. and two on the East Coast in Wilmington, DE and Milford, Ct. Tesla is offering free charging to model S owners. Charge time is only 30 minutes.

January 6, 2013



MidAmerican Solar Acquires 579-Megawatt Antelope Valley Solar Projects From SunPower

cleantechnica



TidewaterCurrent Warren Buffet's company just completed the deal for "two projects — located in Kern and Los Angeles Counties in California — will form the largest solar photovoltaic power development in the world, creating an estimated 650 jobs during the construction phase."

January 3, 2013



Solar energy generation in city parking lots begins

havasunews



TidewaterCurrent PPA in Lake Havasu, AZ - "The project, including the solar energy panels and metal beams on the city property, is not owned by the city. It's owned by Lake Havasu City Solar, LLC, which was set up by and financially backed by LG International. The city will be buying energy from Lake Havasu City Solar, LLC at a fixed cost which is under the cost of what the city pays UniSource and the rate will increase no more than two percent each year for 20 years,..." "The utility cost savings are an improvement, there are no upfront costs to the taxpayer and local jobs were created," Nexsen said." January 4, 2013



Solar Eclipses Navy Power Costs - Tidewater Current | Winter 2013

tidewatercurrent



TidewaterCurrent 12.16.12 - Power purchase agreement allows installation of Navy's largest solar array without upfront costs and offers significant power purchase savings. December 22, 2012

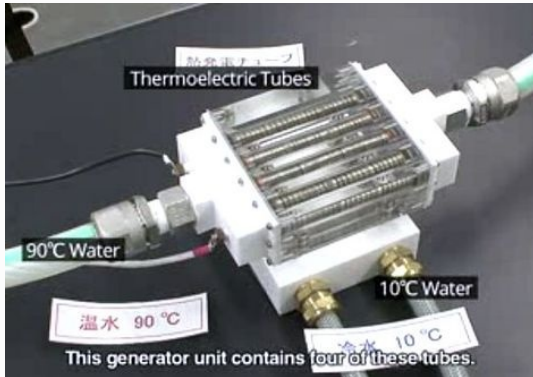


Minnesota's First Community Solar Project Doubles Down On Local

cleantechnica



TidewaterCurrent 12.17.12 - Panels built locally will be used in 40 kW community project. "Participation in the community solar project lowers the payback period for solar, as compared to individual ownership, by 7-12 years." December 22, 2012



World's first thermoelectric tubes to produce clean energy from hot water | Eco Chunk

ecochunk



TidewaterCurrent "Researchers at Panasonic have developed the world's first thermoelectric tube that can produce clean energy from hot water piping, meaning that electricity could be generated using the piping itself."

January 3, 2013



ODU engineers helping to design future of solar power

hamptonroads



TidewaterCurrent "Energy-producing solar panels will be bolted onto the frame, and the motorized system will tilt the panels to track the sun for maximum efficiency....ODU hopes to be one of as many as 50 sites around the state in a pilot solar-generation program planned by Dominion. Given the OK by state regulators in November, Dominion plans to erect solar arrays capable of generating 30 megawatts of electricity - enough to power 6,000 homes."

December 27, 2012

RENEWABLE

Solar Cooling: The Next Frontier for Distributed Generation?

renewableenergyworld



TidewaterCurrent "This past August, the International Energy Agency (IEA) released a report which found that solar thermal technology could meet one-sixth of the world's heating and cooling demands, saving 800 megatons of carbon dioxide emissions a year by 2050. What's more, solar cooling could help avoid the need for new transmission capacity, saving energy consumers money and making our electric systems more sustainable....Flareum Technologies, for example, recently completed installation of a solar-powered air conditioning system to provide cooling power to the Bangalore offices of Siemens Technologies. This system produces 200 kWh of cooling power while reducing the carbon footprint of the office by 30,000 tons of emissions annually and saving Siemens more than \$12,000...

January 3, 2013



Solar Grid Parity Comes to Spain - Forbes

forbes



TidewaterCurrent "Spain has gotten to the point that utility-scale programs can be envisioned without subsidies. Of course, this is also made possible by the glut of solar panels flooding world markets. At present, solar panel production capacity exceeds supply by a factor of two to one, and prices have fallen by two-thirds over the past two years. Once supply tightens up, the economics may change somewhat. At the same time, efficiencies and technologies will continue to improve and the dynamic for increased solar penetration will likely grow. "

December 27, 2012

RENEWABLE

National Coal Mining Museum Fits Solar Panels

renewableenergyworld



TidewaterCurrent Wales coal museum boasts 200 rooftop solar panels "Coal is such an important part of Wales' heritage and yet green energy will play a major part in its future. Asolar powered coal-mining museum is a fantastic way to celebrate this national journey," said Peter Walker, Museum Manager of Big Pit. But it's far from just symbolic — the museum will benefit from huge reductions in energy bills and a solid return from the feed-in tariff."

December 22, 2012



Plug and Save DIY Solar Power System Makes Residential Green Energy More Accessible Than Ever

inhabitat



TidewaterCurrent Plug and play mobile system by Sun Invention can be sited anywhere and includes built in battery storage and inverter.

December 21, 2012



Peel & Stick Solar Panels: Game Over For Disposable Batteries... Eventually

cleantechnica



TidewaterCurrent "Asolar panel so small, light, thin, and flexible that you can stick it onto just about anything has been developed by engineers at Stanford University. Clean Technica (<http://s.tt/1xx7n>)"

December 21, 2012



A Kickstarter For Solar, With A Twist: Invest In Crowdfunded Solar Projects And Make Some Cash

fastcoexist



TidewaterCurrent Through the Mosaic platform "instead of just getting paid back for investing in a solar project, you can now make money. One recently completed project, a 47 kW system at a youth employment training agency in Oakland, is offering an expected 6.38% annual rate of interest over its 60-month term"

December 19, 2012



Solar Powered Prisons in California Represent Big Savings for Taxpayers

sustainablog



TidewaterCurrent 12.19.12 - SunEdison provides built and maintains solar facility developed under a Power Purchase Agreement (PPA). "The beauty of this arrangement is that the state didn't have to pony up a large initial investment: SunEdison installed the panels on marginal lands near the prisons, owns them, and maintains them. The CDCR simply agrees to buy power at a set rate for the term of the contract. "

December 20, 2012



The Beauty of Floating Solar Panels

sustainablebusiness



TidewaterCurrent 12.4.12 - "Kyocera's 70 MW solar plant, which is under construction, will jut out into Kagoshima Bay" Video link included to Italian floating plant.

December 12, 2012



Who Needs College? Young Entrepreneur Bets On Bright Idea For Solar Energy : NPR

npr



TidewaterCurrent Great story about Peter Thiel's 20 under 20 program to drive innovation. Eden Full dropped out of Princeton to participate in the program and is developing a cheap efficient solar tracker, which boosts energy conversion 40%. Using "a dripping water filtration system creates the weight that slowly moves the panel. The simple system gives villagers both more solar power and clean water."

December 18, 2012



US to Invest \$29 Million in Solar Technologies

renewableenergyworld

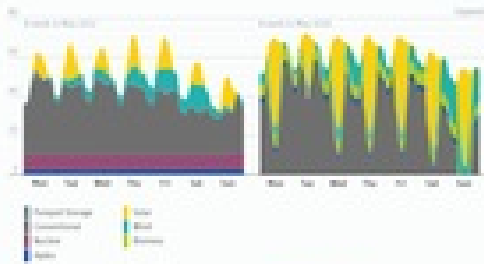


TidewaterCurrent 12.12.12 - \$21 million for plug and play solar technologies and \$8 million for better solar forecasting to assist grid operators.

December 12, 2012

Renewables need flexible backup, not baseload

Renewable power should not be used in 2012 and 2020. Courtesy: Renewables International



100 GW of PV installed worldwide

renewablesinternational



TidewaterCurrent "BSW-Solar estimates based on current installation trends that the world crossed the 100 gigawatt threshold for photovoltaics this week. In a signal sent to the climate conference currently being held in Doha, the organization also estimates that the solar power produced by these installations reduce climate-unfriendly emissions by 70 million tons each year."

December 13, 2012



SolarCity Awarded Hire Power Award For US Job Creation

cleantechnica



TidewaterCurrent 12.7.12 -
"SolarCity's award win shines a light on the whole solar industry which has driven job creation eight times faster than the overall economy," said SolarCity's VP of Human Resources, Linda Keala. "SolarCity provides consumers with clean, renewable energy that can be more affordable than rising utility bills and this has created domestic solar development jobs that can't be easily outsourced."

December 10, 2012



Scientists develop solar PV fabric using energy generating thread > Data > Research - Click Green

clickgreen.org.uk



TidewaterCurrent 12.6.12 - "For the first time, a silicon-based optical fibre with solar-cell capabilities has been developed that has been shown to be scalable to many meters in length. The research opens the door to the possibility of weaving together solar-cell silicon wires to create flexible, curved, or twisted solar fabrics. The findings by an international team of chemists, physicists, and engineers, led by John Badding, a professor of chemistry at Penn State University, have been published today."

December 6, 2012



Norfolk Home to Virginia's Largest Solar Array - Tidewater Current | Fall 2012

[tidewatercurrent](http://tidewatercurrent.com)



TidewaterCurrent 10.19.12 - 2 MW project scheduled to go online by the end of the year.

December 4, 2012



Solar Panels for Every Home - NY Times Op-Ed by David Crane and Robert F. Kennedy Jr.

[nytimes](http://nytimes.com)



TidewaterCurrent 12.12.12 - "Solar panels have dropped in price by 80 percent in the past five years and can provide electricity at a cost that is at or below the current retail cost of grid power in 20 states, including many of the Northeast states. So why isn't there more of a push for this clean, affordable, safe and inexhaustible source of electricity? First, the investor-owned utilities that depend on the existing system for their profits have little economic interest in promoting a technology that empowers customers to generate their own power. Second, state regulatory agencies and local governments impose burdensome permitting and siting requirements that unnecessarily raise installation costs. Today, navigating the regulatory red tape constitutes 25 percent to 30 percent of the total cost of solar..."

December 14, 2012



THE SPEEDWELL CONSERVATION CAROUSEL

nationalzoo.si.edu



TidewaterCurrent 12.4.12 - National Zoo Solar Powered Carousel Opens in Washington.
December 4, 2012



Clifton Park approves agreement on solar panels in landfill - News - Community News (cnweekly.com)

[cnweekly](http://cnweekly.com)



TidewaterCurrent Heliosage of Virginia gets project approval for solar landfill project in Saratoga Springs, NY. The project will be the largest solar installation in New England.
November 30, 2012



Solar Power Saves Delaware Town Taxpayer Dollars «

[earthtechling](http://earthtechling.com)



TidewaterCurrent 12.1.12 - "Already in the first six months of operation, the solar array has saved the town about \$6,100 in energy costs compared to the building's prior year of utility costs — a savings that is more than the array's projected annual savings."
December 3, 2012



Sunrun Bringing \$0 Upfront Home Solar To Long Island

[cleantechnica](http://cleantechnica.com)



TidewaterCurrent 12.5.12 - "Sunrun's efforts to offer solar service to more homeowners was successful with the cooperation of the Long Island Power Authority (LIPA), which opened doors to such solar service so that more homeowners could access clean power while supporting local jobs."
December 5, 2012



Solar Gives Marines In Afghanistan Needed Assurance «

earthtechling



TidewaterCurrent 11.30.12 - "The Marines now report that a logistics regiment has installed several Ground Renewable Expeditionary Energy Network Systems (GREENS) – solar arrays with rechargeable batteries that can put out 300 watts of electricity – to provide critically needed backup power in Regional Command Southwest, an area of operations that includes Helmand and Nimroz provinces in Afghanistan."
December 1, 2012



Virginia regulators OK Dominion solar project

cnbc



TidewaterCurrent 11.29.12 - "Dominion plans to build and operate up to 30 megawatts of company-owned solar generation facilities at various locations by leasing rooftops of commercial, industrial, and public government buildings. The project would generate enough electricity to power about 6,000 homes during peak daylight hours."
November 29, 2012



HELIO SAGE
WISDOM IN SUN

County being eyed for fourth solar project

vancnews



TidewaterCurrent 11.28.12 - Warren County, NC - "According to paperwork filed with the North Carolina Utilities Commission, HelioSage, based in Charlottesville, Va., is seeking state and federal approval to develop a 4.99-megawatt solar system on 50 acres of land off of Red Hill Loop Road near Warrenton."
November 29, 2012



Report: Saudi Arabia touts \$109bn solar strategy

businessgreen



TidewaterCurrent 11.26.12 -
November 27, 2012



Solar Cost Comes Down, Down, Down

solarnovus



TidewaterCurrent 11.27.12 - "The average cost of going solar in the US continued to decrease significantly in 2011 and through the first half of 2012, according to a report released today by the Department of Energy's Lawrence Berkeley National Laboratory."

November 27, 2012



High Concentration Solar Power Gets Test Run At Edwards Air Force Base

cleantechnica



TidewaterCurrent 11.26.12 - "According to Semprius, overall, its HCPV module has achieved world record efficiencies up to 33.9 percent, at least double the efficiency of several other modules. As a further boost for the U.S., Semprius is manufacturing its innovative solar technology inside country borders (in Henderson, NC)."

November 27, 2012



Blackouts Show the Bright Side of Rooftop Solar | OnEarth Magazine

onearth



TidewaterCurrent 11.26.12 - A hybrid system that is tied to the grid but has a battery back will continue to operate when the power goes out, but it is more expensive. Still those folks who had battery back up after Sandy (some highlighted in the article) were pretty happy,

November 27, 2012



Solar From Nevada Indian Reservation To Help Power LA

theenergycollective



TidewaterCurrent 11.25.12 - "The city council this week approved [PDF] a 25-year power purchase agreement with K Road Moapa Solar for up to 250 megawatts of power from a solar power plant on tribal land of the Moapa Band of the Paiute, north of Las Vegas."

November 25, 2012



Ripasso Energy sets new solar-to-electricity world record

ewind.es



TidewaterCurrent 11.22.12 - "The technology is based on parabolic mirrors and Stirling Power Converters (SPC). During the initial operation a new solar-to-grid-quality-electricity efficiency world record of 32 % has been achieved."

November 23, 2012



Major European support for first large solar project in North Africa

eib



TidewaterCurrent Morocco - "The Ouarzazate solar complex aims to reach a potential capacity of 500 MW, which is equivalent to powering a city of 250,000 inhabitants. Once fully developed, this solar complex will be one of the largest in the world." This is one part of the Mediterranean Solar Plan, which aims "to deploy 20 GW of additional renewable energy capacity by 2020."

November 23, 2012



Landfills & Brownfields Become America's Energy Sites for Solar Arrays

renewableenergyworld



TidewaterCurrent 11.26.12 - "A developing trend has been to utilize this land and construct a solar photovoltaic (PV) array on the surface. These solar landfill caps are in New Jersey, New York, Massachusetts, Texas, California, and Georgia."

November 27, 2012



U.S. Special Forces in Afghanistan Give You 5 Good Reasons to Support Solar Power

cleantechnica



TidewaterCurrent 11.2.5.12 - Solar is less expensive than fuel in remote regions, aircraft and trucks diverted for fuel deliveries are freed up for other missions, it provides better quality energy to power up sophisticated electronics than diesel generators and they are easier to transport.

November 26, 2012



Concentrated Photovoltaics (CPV) That Can Deliver \$60/MWh?!

cleantechnica



TidewaterCurrent 11.24.12 - "The RayGen technology is based on a similar principle to that of Solar Systems, where the latter is using big dishes to focus the power of the sun on a receiver, RayGen proposes to use heliostats (or mirrors) to direct the sunlight. Cart says this delivers a 50 per cent reduction in the mass versus competing technologies and should give it a manufacturing cost of less than \$1 a watt. He says this will translate into an LCOE of \$50-\$60/MWh."

November 26, 2012



A SOUTHERN COMPANY

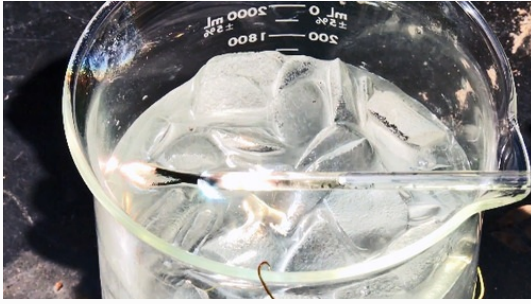
SEIA Applauds Georgia Power Solar Roadmap (Georgia Power Advanced Solar Initiative)

cleantechnica



TidewaterCurrent 11.21.12 - "the company intends to create one of the nation's largest voluntarily-developed solar portfolios by an investor-owned utility."

November 22, 2012



Futurity.org – From icy water to steam via nanoparticles

futurity



TidewaterCurrent 11.19.12 - RICE (US) — New technology that uses nanoparticles to convert solar energy directly into steam is so effective it even works with icy cold water. November 20, 2012



Solar panels will be installed on 4,700 homes at Ft. Bliss

examiner



TidewaterCurrent 11.15.12 - Texas - "This project is the first and largest phase of a 5-year plan to build more than \$1 billion in solar energy systems for up to 120,000 military homes throughout the United States." November 16, 2012



Bayonne school stays in power after Sandy: thanks to a solar system from Flemington company

nj



TidewaterCurrent The lights at the school stayed on, however, because of its unique solar backup system. November 13, 2012



A Breakthrough PV Module Rating System?

greentechmedia



TidewaterCurrent 11.20.12 - Principal Solar Instituted used 7 "characteristics and used publicly available data, largely from the manufacturers themselves...to create a model that would show the modules' 25-year lifetime energy production [LEP]." Link to complete interactive listings. November 21, 2012



Best Solar Chargers to Have for Emergencies

treehugger



TidewaterCurrent
November 19, 2012



Solar Power Tower Going Up In South Africa «

earthtechling



TidewaterCurrent 11.7.12 - Includes info on other projects in Spain, US and China.
November 9, 2012



Amenergy files to bring utility-scale PV project in NC

cleanenergyauthority



TidewaterCurrent 11.9.12 - The New Mexico based company has filed an application with the North Carolina Utilities Commission for a 21.5 MW project near Asheville.
November 12, 2012

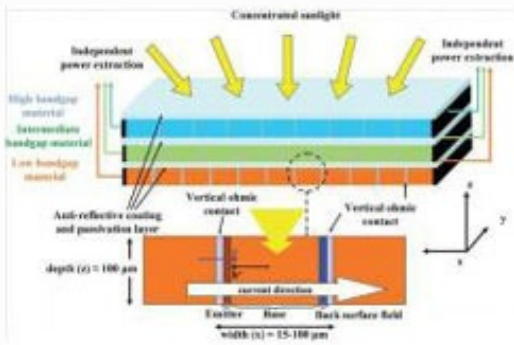


Largest Solar Power Neighborhood In Southwest Built In New Orleans

cleantechnica



TidewaterCurrent 11.7.12 - 8 block area home to 420 kW of solar electric production.
November 7, 2012



Researchers develop new design for concentrator solar cell - R&D Magazine

rdmag



TidewaterCurrent 11.8.12 - "When irradiated from the side, it generates solar conversion efficiencies that rival, and may eventually surpass, the most ultra-efficient photovoltaics." November 8, 2012



SCV Habitat For Heroes Goes Solar With Green Convergence

hometownstation



TidewaterCurrent 11.10.12 - "SCV Habitat for Heroes have partnered with Green Convergence, a Valencia-based SunPower Elite solar energy system installer, to provide new systems for military veterans' homes at no cost to the owners." November 11, 2012



Using rust and water to store solar energy as hydrogen

phys



TidewaterCurrent 11.11.12 - "Kevin Sivula and his colleagues purposefully limited themselves to inexpensive materials and easily scalable production processes in order to enable an economically viable method for solar hydrogen production. The device, still in the experimental stages, is described in an article published in the journal Nature Photonics." November 11, 2012



New Solar Module Efficiency Record Set, 33.5% Efficiency

cleantechnica



TidewaterCurrent 10.31.12 - "The National Renewable Energy Laboratory (NREL) tested the module back in May, confirming "an outdoor operating efficiency rating of 33.5%" November 1, 2012



Solar: America's Fastest Growing Job-Creation Engine? - Forbes

forbes



TidewaterCurrent 11.5.12 - Solar Foundation's annual Jobs Census indicates that the solar industry has added 13,800 jobs so far this year, a growth rate of 13%. The author notes that solar "is amongst the fastest – if not the fastest – growing sectors in the U.S. economy."
November 5, 2012



Sol Design Lab grows artistic solar charging station business

cleanenergyauthority



TidewaterCurrent 10.31.12 - Marketing only at music festivals, a young entrepreneur is selling solar bike and electronic charging stations. The stations are located in Amherst and Cape Cod, Mass., San Francisco and Austin.
October 31, 2012



Greenpeace uses solar to bring power to Sandy victims

cleanenergyauthority



TidewaterCurrent 11.6.12 - Greenpeace's solar truck is "Parked at a storefront at the corner of Rockaway Beach Boulevard and 113th Street, the solar truck is the only spot with electricity for several blocks." November 6, 2012



Shedding light on solar energy in Hampton Roads

hamptonroads.com.nyud



TidewaterCurrent 11.3.12 - A stunning and sustainable home on the Lynnhaven River in Virginia Beach. Another snip (<http://snip.it/snips/333821>) highlights the largest solar array in Virginia sited closeby at the Norfolk Naval Station. November 3, 2012



Norfolk Home to Virginia's Largest Solar Array - Tidewater Current | Fall 2012

tidewatercurrent



TidewaterCurrent 10.19.12 - 2 MW project scheduled to go online by the end of the year. October 23, 2012



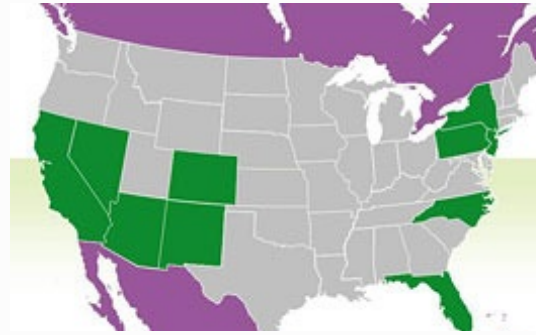
The world's most energy efficient refrigerator

sunfrost



TidewaterCurrent Runs on AC or DC direct from solar panels or other renewable sources.

November 1, 2012



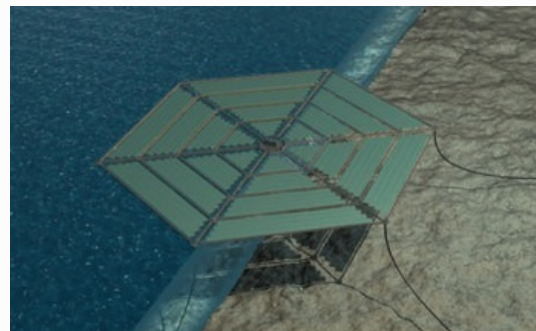
Top Ten US Solar States

solarnovus



TidewaterCurrent "Consistency in policy is key to encouraging solar development and private financial investment, but the top states have also shown an ability to adapt their policies; adjust incentives, be open to creative new policies"

October 23, 2012



Could solar islands be the new offshore wind farms?

businessgreen



TidewaterCurrent 10.25.12 - Floating flexible thin film panels that can produce enough energy for 30,000 people??? Interesting idea, but until all roofs are covered, there doesn't seem to be a real need or cost justification to move into the sea.

October 25, 2012



Sunseeker team building a two-passenger solar-powered airplane

gizmag



TidewaterCurrent 10.25.12 - "the Sunseeker Duo is still a work-in-progress, and in order to help bring the project to completion, the Sunseeker team has turned to Kickstarter to raise funds. If all goes to plan, project leader Eric Raymond aims to make a series of flights worldwide, beginning with a circumnavigation of the Americas, with the goal of highlighting the benefits of solar technology."
October 26, 2012

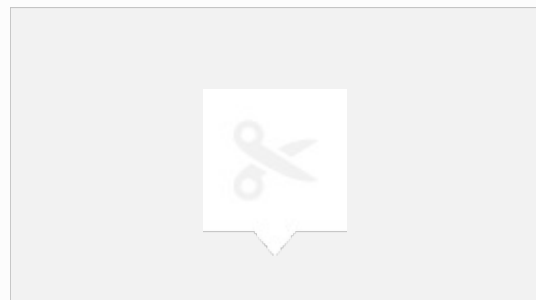


Sun + air = solar-powered electricity at SDSU

cleanenergyauthority



TidewaterCurrent "Researchers at San Diego State University (SDSU) are developing a concentrating solar power (CSP) technology that superheats air to power a generator. The technology is being developed as an alternative to water-based CSP systems, which need water sources, despite the fact that their ideal location is in the desert."
October 30, 2012



Duke building big solar farm on NC coast

renewablesbiz



TidewaterCurrent 10.10.12 - 12.5 MW solar farm being built in Beaufort County.
October 22, 2012



Solar Project Saves Music Programs in California School District

cleantechnica



TidewaterCurrent "The newly installed SolarCity systems at Firebaugh High School, Middle School, and Hazel Bailey Elementary will allow the district to pay less for clean solar power than it would for fossil fuel utility power. The district is expected to save more than \$900,000 in the systems' first five years of operation, and several million over the life of the system."

October 29, 2012



Dick Clarke solar powers homeoffice with boat

manly-daily.wherelive.com.au



TidewaterCurrent 10.24.12 - Australia

- When the boat is not out on the water, it powers builder's home.

October 23, 2012



SolarCity scores first utility deal, and why that's important

gigaom



TidewaterCurrent 10.18.12 - "Kauai is one of the Hawaiian islands and is home to nearly 68,000 residents. It's set a goal of generating renewable energy to meet 50 percent of its needs by 2023. The project announced Thursday will be one of the three solar farms, totaling 30 MW, that are being developed by the Kauai utility."

October 19, 2012

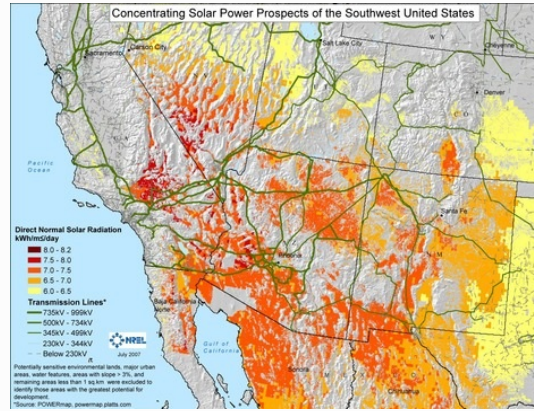


Running on sunshine: how to charge your electric car with solar panels

csmonitor



TidewaterCurrent 10.10.12 - "Since going solar and electric motive transport, our monthly electricity cost has average only \$13, as this is the basic connect fee that PG&E charges to be on the grid,"...AND with "time of use" metering for charging the cars at specific off-peak times, we have Zero energy costs for powering the cars," SEE MORE in Clean - Eco Transport October 11, 2012



Obama Administration Approves Roadmap for Solar Power on Public Lands

ewind.es



TidewaterCurrent 10.12.12 - "The Programmatic Environmental Impact Statement (PEIS) for solar energy development provides a blueprint for utility-scale solar energy permitting in Arizona, California, Colorado, Nevada, New Mexico and Utah by establishing solar energy zones with access to existing or planned transmission, incentives for development within those zones, and a process through which to consider additional zones and solar projects." October 12, 2012



Largest Transparent Photovoltaic Roof in the US

cleantecnica



TidewaterCurrent™ "A special process provides the semitransparent solar cells with square cut-out openings. This leads to transparency levels of around 10 percent. The staggered arrangement of the solar cells in individually manufactured solar glass modules leads to additional transparency for daylight. The result is an aesthetic solar roof as a multifunctional solution: it not only protects against environmental influences but also uses existing surfaces for the production of renewable energy while rendering natural lighting and shading possible."

October 20, 2012



Can Integrated Photovoltaics Boost The Construction Industry?

designbuildsource.com.au



TidewaterCurrent Pike Research reports that the BIPV market will quadruple by 2017.

October 7, 2012



Lobsterman turns to solar energy to cut costs

necn



TidewaterCurrent 10.8.12 - First solar powered wharf in Maine is located in Harpswell. Great video.

October 9, 2012



Avatar Director Installs Net-Zero Studio

sustainablebusiness



TidewaterCurrent 10.5.12 - James Cameron's Manhattan Beach studios are covered with 3,692 solar panels.
October 7, 2012



IKEA Plugs-In Georgia's Largest Private Solar Rooftop Array on Savannah Distribution Center

greenbuildingelements



TidewaterCurrent 10.9.12 - This is Ikea's 34th completed solar project. With the completion of 5 projects in process, US locations will generate 38 MW of energy from the panels.
October 9, 2012



Walmart, Costco among top solar-using companies

csmonitor



TidewaterCurrent Here are the top 10 retail giants in terms of capacity: Walmart, Costco, Kohl's, IKEA, Macy's, McGraw Hill, Johnson & Johnson, Staples, Inc, Campbell's Soup, Walgreens.
October 8, 2012



Colorado Schools Will Cut Carbon Emissions Dramatically with Solar

sustainablog



TidewaterCurrent 10.8.12 - 5,000 panels will be installed on 14 Boulder schools by SolarCity, eliminating 110 million pounds of carbon dioxide emissions annually. When completed, over half of Boulder's schools will be solar powered.
October 8, 2012



Semprius opens solar panel factory in Henderson [The News & Observer (Raleigh, N.C.)]

equities



TidewaterCurrent
September 27, 2012



Hampton Roads gets solar-powered trash cans

wtvr



TidewaterCurrent 9.22.12 - Solar is powering all kinds of devices, including traffic lights, parking meters and now trash cans. The solar power operates a trash compactor which reduces the frequency and resources needed to empty the cans.
September 26, 2012



Sharp Introduces New See-Through Solar Panels -

revmodo



TidewaterCurrent Set to be launched Oct. 1 in Japan, the Semi transparent and fairly low efficiency (6.8%) panels can be integrated into building design along balconies or to replace windows.
September 26, 2012



US Military Support for Solar Energy

solarnovus



TidewaterCurrent 10.3.12 - "The US military is leading by example. It's helping the US become more energy independent, and it's also fighting for civilians to be able to more easily access solar power."
October 3, 2012

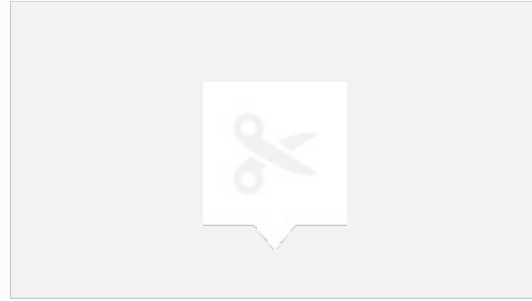


Apple to build another 200 acre solar farm in North Carolina - Greener Ideal

greenerideal



TidewaterCurrent With the first 100 acre solar facility at it's data center almost complete, another 220 site has been purchased nearby for even more generating capacity.
September 27, 2012



Georgia Finally Getting Some Solar Energy

sustainablebusiness



TidewaterCurrent "Under the Georgia Power Advanced Solar Initiative, Georgia Power is targeting 210 MW of solar by 2015, enough to supply 20,000 households....The timing of its announcement is especially interesting, coming just days after a startup, Georgia Solar Utilities, petitioned the state to be registered as a regulated utility – it would compete with Georgia Power and would concentrate entirely on selling solar-generated electricity directly to customers."
September 30, 2012



Why OPEC Likes Solar Power

online.wsj



TidewaterCurrent The Saudis plan to fulfill 1/3 of their energy requirements with solar by 2030.
September 19, 2012



How to: Solar Heater Made of Soda Cans

cleantechnica



TidewaterCurrent 9.20.12 - "How to" video included.
September 20, 2012



Catholic U says parking lot solar panels gives it region's largest solar power installation

washingtonpost



TidewaterCurrent 9.21.12 - 700 solar panels were installed under a power purchase agreement from Washington Gas Energy Systems. September 21, 2012



German Solar Power Capacity Hits All-Time High... Again (More Solar than Rest of Europe)

cleantecnica



TidewaterCurrent 9.24.12 - Germany produces more solar energy than all of Europe combined. September 24, 2012

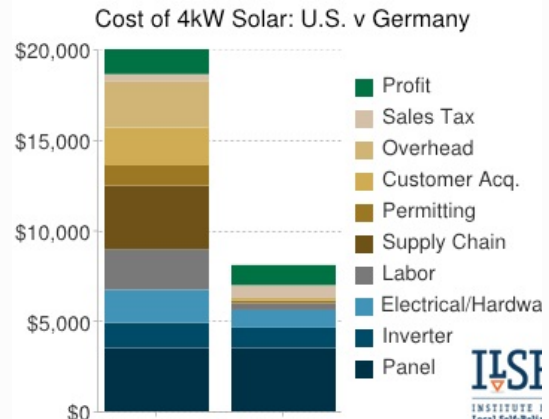


Advanced Solar CPV Manufacturing Plant to Open in NC this Month

cleantecnica



TidewaterCurrent 9.7.12 - With conversion rates over 33%, Semiprius' PV modules are currently the most efficient produced. September 17, 2012



Why We Pay Double for Solar in America (But Won't Forever)

cleantecnica



TidewaterCurrent 9.25.12 - Good News, its just red tape that could be addressed with better policy. Read the full article for the disparity in costs experienced by US and German consumers. September 25, 2012

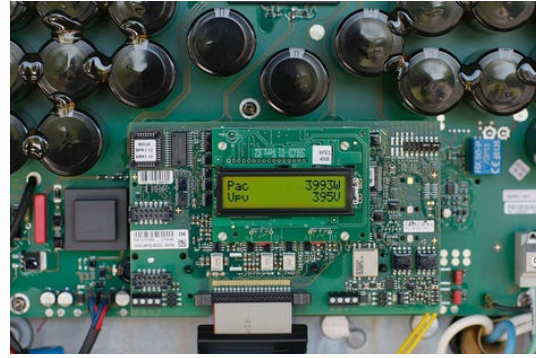


Arizona PV Power Plant Now World's Biggest «

earthtechling



TidewaterCurrent 9.11.2
September 12, 2012



U.S. Solar Industry Anticipates Utility Metering Backlash

bloomberg



TidewaterCurrent 9.13.12 - "The growing use of rooftop solar systems are spurring concern that U.S. utilities may decline to purchase power generated by the panels, according to the Solar Energy Industries Association."
September 13, 2012

K25Z-4 SOLAR AIR CONDITIONER



MSRP \$ 2895

Specifications

OUTPUT 16000 BTU
VELOCITY 300 CFM
VOLTAGE 48 VDC
AMPS MAX 17.5 AMPS
POWER MAX 850 WATTS
E.E.R. 18.8
S.E.E.R. 22.5
DEHUMID 36 L / DAY
LxWxH in. 33.7x22x15.8
Weight lbs. 200

Components

KINGTEC TECHNOLOGIES
MANUFACTURED DC
WINDOW AIR
CONDITIONER

MORNINGSTAR TRISTAR
MPPT 45 AMP SOLAR
CHARGE CONTROLLER

48 VDC SEAL VALVE

Accessori

GRID CONNECT
POWER SUPPLY

EXTERNAL
BATTERY BANK
8 HOUR

SOLAR PANELS
MOUNTING RA

Affordable Solar Powered Air Conditioning In A Neat Little Package Is Finally Here

treehugger



TidewaterCurrent
September 13, 2012

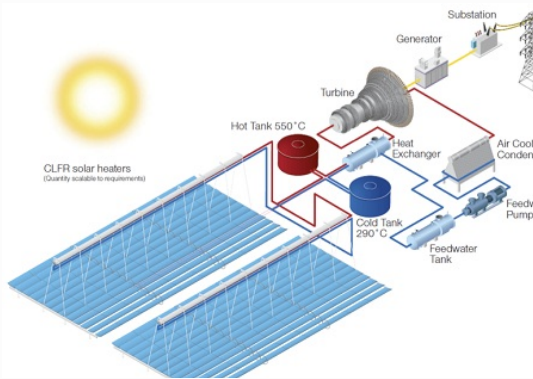


SPI 2012: President Bill Clinton addresses the solar industry

solarnovus



TidewaterCurrent What American need to know: 100,000 people work in the solar industry and even in the economic downturn the industry is growing at 8% "\$22 is still being spent for coal, oil and nuclear for every \$1 spent on our clean energy future"
September 14, 2012



Areva Solar, US Sandia Labs Join Forces for CLFR Molten-Salt Storage

solarnovus



TidewaterCurrent 9.12.12 - "The system draws molten salt from a cold (290°C, 554°F) tank, uses the temperature from the mirrors to heat it to as high as 550°C (1022°F) and passes that hot liquid to a separate tank for storage. When needed, the high-temperature molten salt passes through a heat exchanger to produce steam for electricity generation." September 13, 2012



Interactive map shows potential for rooftop solar energy in New York City

ewind.es



TidewaterCurrent 9.4.12 - According to CUNY, 40% of peak electrical demand could be met if all of the city's suitable rooftops (some 2/3 of rooftops) sported solar panels. September 4, 2012



Sunshine for sale: Co-op offers shares in new solar farm [Chattanooga Times Free Press, Tenn.]

equities



TidewaterCurrent 9.13.12 - Overview of solar generation in Tennessee highlighting a great new cooperative solar purchase program. For \$600, folks can participate in solar power production without the need to install anything on their own property and the return on the investment comes back at \$.22/kWh. "The arrangement between Duck River and the Tennessee Valley Authority is a first-of-its-kind pilot program developed between a local power company and the federal utility that qualifies for TVA's Generation Partners Program, according to Duck River and TVA officials." September 13, 2012



2012 Solar Decathlon Europe: The teams, round one

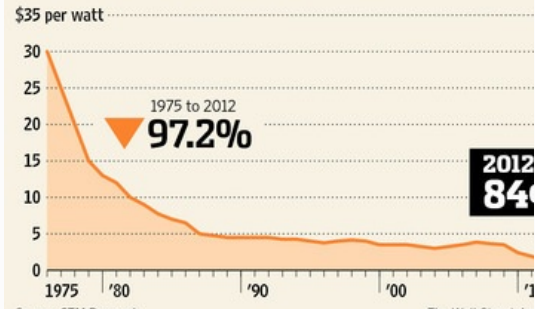
mnn



TidewaterCurrent 9.7.12 - The US is not represented in this event, but there are some very worthwhile entrants. Videos included. For more on eco homes visit the Sustainable Design-Green Building Collection. September 7, 2012

On the Bright Side

The average price for solar panels has decreased



Sun Peaks Through in Solar

online.wsj



TidewaterCurrent 9.9.12 - Good overview of the solar industry in the US. Prices are continuing to drop and for 2012, the US is on pace to install as much solar in this one year as it did from 2000-2010. September 10, 2012



Electric Airplane Maker Unveils Solar-Charging Trailer | Autopia | Wired.com

wired



TidewaterCurrent 9.12.12 - PC Aero of Germany unveils solar powered airplane with its solar charging trailer at the Berlin Air Show. The company claims the plane has a range of 600 miles at a cruise speed of 90 mph. September 12, 2012



Canadian Solar to Brighten North Carolina Energy Picture

designbuildsource.ca



TidewaterCurrent 9.10.12 - "Canadian Solar will handle delivery of the Laurinburg Solar Farm project, partnering with Mortenson Construction, which will take care of installation, engineering and design. All told, the site will generate roughly 3,483 megawatt/hours of clean solar energy per year. That will allow it to power 300 homes from its 10-acre site." September 10, 2012



Town Partners on First Solar Farm

carycitizen



TidewaterCurrent 9.9.12 - Cary, NC - Very smart. Partnering with FLS Energy, the company will install and maintain the system and pay the town \$35,000 a year to lease the South Cary water reclamation facility site. Enough energy is expected to be produced to power 174 homes. Every community should be jumping on the band wagon. And they are in many states. Unfortunately in Virginia, this type of innovation by private companies has been mired in legalities that seemingly give Dominion a power monopoly. September 10, 2012

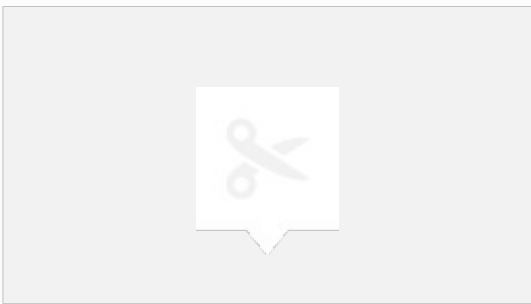


W&L's Solar-Energy System Meets Targeted Capacities - Washington and Lee University

news.blogs.wlu.edu



TidewaterCurrent
August 27, 2012



Dominion Power's wind and solar facade

washingtonpost



TidewaterCurrent
August 27, 2012



Volkswagen Building Massive Solar Park in Tennessee

revmodo



TidewaterCurrent 8.29.12 - The Enterprise South industrial Park installation developed by Phoenix solar It will be the largest solar installation in the state and supply 12.5% of the VW plants energy. August 30, 2012



New River Valley Regional Jail Installs the Largest Solar Thermal System in Virginia | Correctional News

correctionalnews



TidewaterCurrent
August 30, 2012



Why Virginia lags on solar

thecontributor



TidewaterCurrent 8.23.12 - The answer is simple: Virginia lags on solar because the utility (unfortunately not the people) have the power (political power). Good article. The Virginia Assembly should follow the solar vision provided by legislatures in a number of other states, such as Vermont, Massachusetts and more.
August 27, 2012



IBM Researchers Have Developed Record-Breaking PV Cells

cleantechnica



TidewaterCurrent 8.24.12 - The thin cells made from abundant natural materials are cheap and efficient (11.1%) and can be made with simple ink based technologies.
August 25, 2012

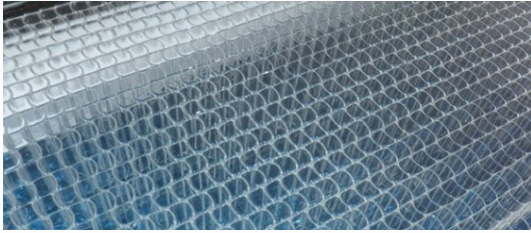


Solar-Powered Concert Stages? Yep, They Really Work

motherjones



TidewaterCurrent
August 20, 2012



Tigi Solar Honeycombs Keep You Warm In Cold Climates «

earthtechling



TidewaterCurrent 8.24.12 - Highly efficient solar thermal water heating system developed in Israel could be used to heat European homes. The system recently won the Intersolar Europe grand prize and the company is looking for financial backing to fully develop the technology.

August 25, 2012



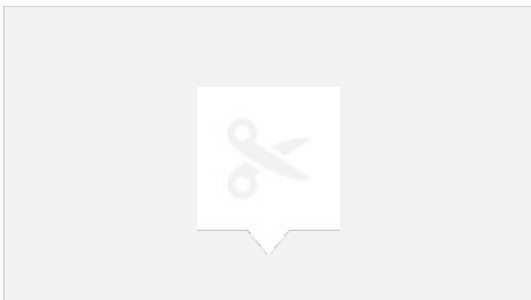
BISEM Installs PV Curtain Wall Retrofit

solarnovus



TidewaterCurrent 8.20.12 - Building integrated solar curtain system retrofitted onto the existing LEED Platinum SMUD customer service center. DC electricity generated by the thin film panels will run a cooling system in the technology demonstration center. See more clips in Sustainable Design-Green Building collection.

August 20, 2012



Solar company to create more than 300 jobs in NC - The Sacramento Bee

sacbee



TidewaterCurrent 8.13.12 - Schletter, a solar power mounting system manufacturer, supplies 25% of mounting systems in the US market. Average pay will be \$41,000/year, much higher than the average in Shelby NC.

August 18, 2012



Hampton Roads Solar Tour - 10/6-10/7/2012

ases



TidewaterCurrent Free 2 day tour is part of the American Solar Energy Society's National Tour. October 6 - the Southside and Gloucester and October 7 - the Peninsula. 10:00 am - 4:00 pm - Registration required at hrsolartour.com. More info about other localities on the ASES.org site.
August 17, 2012



Xcel Energy Sells Out Community Solar Garden Program

sustainablog



TidewaterCurrent 8.21.12 - Within half an hour the utility had 3 times the number of applications for projects than it could accept. "Xcel Energy plans to introduce a total of 4.5 MW of capacity to the grid with solar community gardens each of 500 kW or less. The first will be built by Clean Energy Collective on the property of the Golden Hoof Sustainable Farm and will be finished within a year"
August 22, 2012

Meter Aggregation/Virtual Net Metering



Making Projects Happen with Group Net Metering Policies

renewableenergyworld



TidewaterCurrent Author highlights the benefits of community solar programs, including siting, financing, reduced cost based on economies of scale, reduced default risk and the ability of renters to participate. States in red have some form of group or virtual net metering programs for solar. 8.7.12 - See more posts in Energy-Solar collection.
August 11, 2012



Sunflower-Inspired Solar Power Technology Effortlessly Follows the Sun

treehugger



TidewaterCurrent 8.16.12 - Liquid crystalline elastomer (LCE) was used by University of Wisconsin to develop a solar panel that passively follows the sun. As the material heats up, it contracts causing the assembly to bow towards light.
August 16, 2012



NY Sun Initiative Announces \$107 Million in Incentives for New Solar Projects in New York

inhabitat



TidewaterCurrent 8.14.12 - A small percentage of the funding is for small scale residential projects. The bulk of the money will go to projects over 50kW that have also derived private funding.
August 15, 2012



New Solar Power Design Inspired by Telescope Could Produce Twice the Energy

cleantechnica



TidewaterCurrent 8.9.12 - This looks like promising technology. University of Arizona photovoltaic solar module design uses curved mirrors to focus light and create a more efficient panel. Unlike solar thermal technologies that require water inputs to generate steam, these PV modules do not require the water or space that concentrating solar does.
August 10, 2012



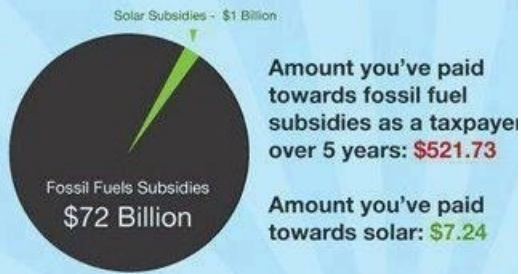
YES, In My Backyard! Local Solar Power Celebration in Charlotte - August 19

prweb



TidewaterCurrent 8.13.12 - YIMBY Celebration planned in Vermont community with a solar collective. A 24 kW system was sited in a meadow 1000 feet from 6 homes that share the energy produced and offsets 20 tons of carbon annually. A tour of the installation, information and free Ben & Jerry's Ice cream will be available at the 10 Stones Meadow August 19 3-6 p.m. More snips in Energy-Solar and Sustainable Development-Green Building collections.
August 14, 2012

What if solar got the same subsidies as fossil fuels?



Places where solar energy is cheaper than grid power*



US Solar Subsidies Versus Fossil Fuel Subsidies

peswiki



TidewaterCurrent What if solar got the same subsidies as fossil fuels? It would be cheaper than grid power everywhere in the US.
August 12, 2012



Ithaca homesteader powers home, car with sun

pressconnects



TidewaterCurrent 7.31.12 - Self sufficient life-style supported with solar panels.
August 1, 2012



Taos community solar garden lets customers buy panels

santafenewmexican



TidewaterCurrent 8.1.2 - \$845 will buy a share. Seven panels totaling \$5915.00 should offset half of your electric bill. The panels with a 50 year life expectancy.
August 2, 2012



Solar3D Unveils Groundbreaking Three-Dimensional Solar Cell Prototype

inhabitat



TidewaterCurrent 8.1.12 - Company claims 25.47% efficiency.
August 2, 2012



How N.J. solar energy outshines the other 49 states

blog.nj



TidewaterCurrent 8.3.12 - Second only to California in solar energy production, NJ has gone from only 6 installations in 2001 to over 15,000 this with 4000 more planned. Bipartisan political support continuing solar incentives is responsible for such success.
August 5, 2012



Turning Unwanted Land into Clean Energy | Get Solar.com

getsolar



TidewaterCurrent 8.3.12 - Second only to California in solar energy production, NJ has gone from only 6 installations in 2001 to over 15,000 with 4000 more planned. Many projects are being sited on brown fields and landfills - land that would otherwise likely go unused. See more in Energy-Solar collection.
August 5, 2012



Mirror, Mirror, Make Me a Kayak ...out of Sunlight

cleantechnica



TidewaterCurrent 7.31.12 - Heliostats concentrate solar energy to help heat ovens that mold plastics into products like kayaks. LightManufacturing's system is scalable and can be adapted to different manufacturing processes that require heat.
July 31, 2012



Putting the sun to work - The Boston Globe

bostonglobe



TidewaterCurrent 7.26.12 - Solarize Massachusetts Program.
July 26, 2012

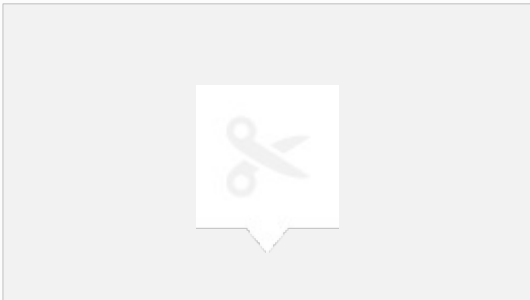


Gazette.Net: Solar industry's prospects looking sunny in Maryland

gazette



TidewaterCurrent 7.27.12 - Solar City Beltsville, MD office expands as local demand increases.
July 29, 2012



Credit Suisse Invests \$200 Million in Sunrun Home Solar Projects

eon.businesswire



TidewaterCurrent 7..25.12 - Sunrun installs over \$1.5 million in solar every day and has more than 24,000 customers in ten states.
July 26, 2012



South Pacific Island of Tokelau To Become The World's First Solar-Powered Nation

inhabitat



TidewaterCurrent 7.25.12 - Some 4032 solar panels and 1344 batteries will be installed to provide power to the 1400 residents of the three Tokelau atolls (now currently reliant on diesel power).
July 26, 2012



OneRoof Energy Planning \$100M Fund, 4,000 Rooftops by Year's End

greentechmedia



TidewaterCurrent 7.30.12. - More third party solar financing announced. Market of solar backed securities could reach \$4,6 billion by the end of the year. More snips in Energy-solar collection.
July 30, 2012

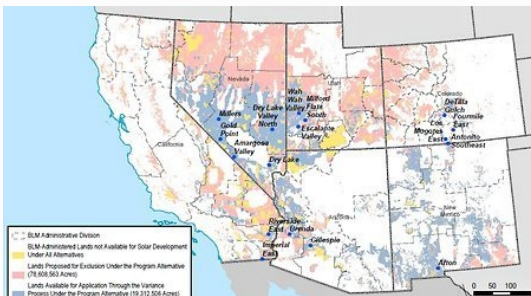


Switzerland Looking To Replace Nuclear Energy With Solar

revmodo



TidewaterCurrent 7.24.12 - The goal is to replace half of the nuclear generation capacity with solar. It's still unclear how it will be achieved.
July 26, 2012



Interior Names Solar 'Hot Spots' Out West

green.blogs.nytimes



TidewaterCurrent 7.24.12 - 17 sites consisting of 285,000 acres of US public land have been identified for fast tracking of solar project development. Some 78 million acres were removed from consideration based on a number of concerns while another 19 million acres are being considered. Solar and environmental groups support the initiative.
July 26, 2012



Smart Grid Demonstration Project at Mueller

pecanstreet



TidewaterCurrent 7.22.12 - In a community sporting the largest collection of solar panels and electric vehicles in the US, a study is being conducted on the integration of clean energy into the smart grid. More info on the Austin Texas project including a link to a PBS video can be found in a snip in Architecture Collection
July 23, 2012



Small Japan village goes all solar - Energy-Solar Collection

news.cnet



TidewaterCurrent 7.19.12 - With rallies against nuclear power taking place, the population of one village is taking more meaningful action. They've installed 216 panels to sell energy to the utility which should cover their town operating cost.
July 19, 2012

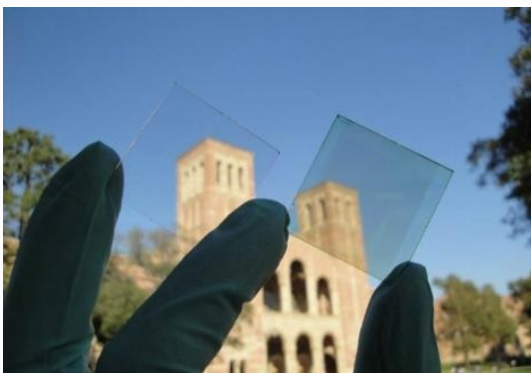


U.S. Military Adding Solar Roofs to More Base Housing - Energy-Solar Collection

cleantechnica



TidewaterCurrent 7.17.12 - Solar City is involved in a long term project to generate 300 megawatts of power from military housing rooftop solar projects. Today they announced 3 additional projects in California and Colorado.
July 17, 2012



Scientists create highly transparent solar cells for windows that generate electricity

phys



TidewaterCurrent 7.20.12 - UCLA team develops a polymer solar cell that absorbs infrared light and transmits the light into an electrical current.
July 21, 2012



NJ Solar Program Gets New Life Under New Law

nj1015



TidewaterCurrent 7.23.12 - Christie signs legislation today that will promote solar installations in the state. Already 2nd in the Nation for solar energy generation, the move supports the industry by increasing the states solar energy requirement in it's renewable energy portfolio.
July 23, 2012



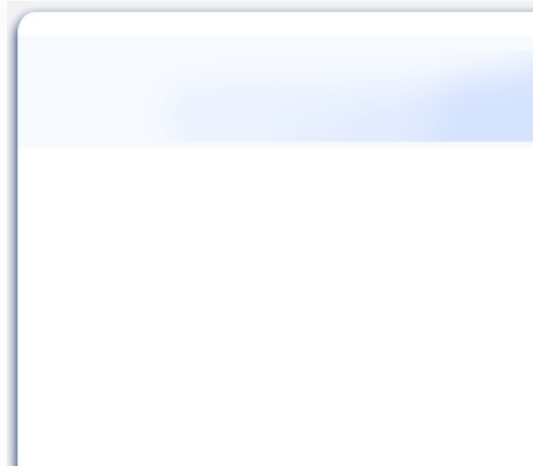
Solar-Powered Ice Cream Cart Keeps Frozen Treats Cool In The Summertime

inhabitat



TidewaterCurrent

July 17, 2012



County inmates in Maryland to live off of solar hot water technology

ecoseed



TidewaterCurrent 7.17.12 - Solar hot water system will save Frederick County \$10,000 per year.

July 17, 2012



IKEA installs 21st PV system in Virginia

pv-tech



TidewaterCurrent 7.11.12 - Largest solar array connected atop Woodbridge store. This the 21st installation for the retailer and 18 more are planned.

July 16, 2012



Following the Sun – Solar Touring Continues this summer as Ra begins it's 131 day Solar Odyssey along the Great Loop

tidewatercurrent



TidewaterCurrent 7.14.12 - Tour to begin in Clearwater on July 22. Links to website included with schedule of stops.
July 16, 2012

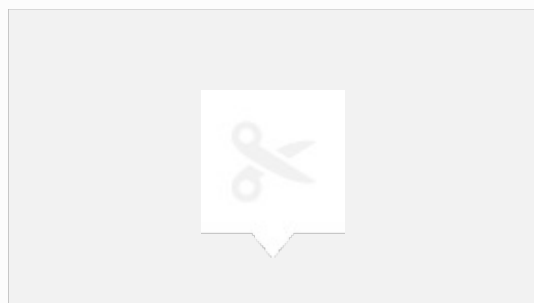


A PACE Rebirth? Sacramento and Ygrene Try to Unlock Green Homes

greentechmedia



TidewaterCurrent 7.16.12 - Author provides a great review of the demise and potential resurgence of municipal financing programs for solar (and other green technologies). There seems to be a lot of interest from lenders to finance rooftop solar and it appears that Sacramento may have figured out a way to allow it despite issues with Fannie May and Freddie Mac. For more Solar news see the "Energy-Solar" TidewaterCurrent Collection.
July 16, 2012



Hertz continues solar push, aims for 3.1 million kilowatts of energy generation

ecoseed



TidewaterCurrent 7.10.12 -
July 10, 2012



Solar gardens nourished by Xcel incentives set to bloom in Colorado

denverpost



TidewaterCurrent 7.15.12 - Great opportunity for renters to participate in solar power production. Colorado has got the right idea. With this kind of promotion solar will soon be ubiquitous (at least in Colorado and the handful of states that allow community programs). Most productive in the summer when electric demand is highest, this kind of program should be implemented in all states to reduce GHG emissions from coal plants.
July 16, 2012

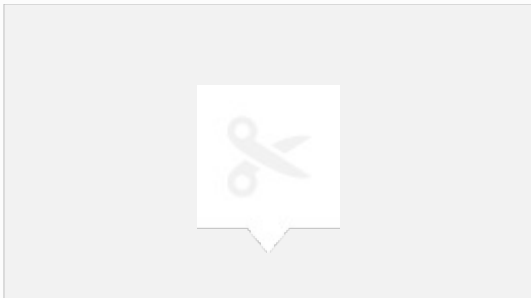


Maryland Gov. Martin O'Malley attends groundbreaking ceremony for largest solar power array in state

articles.herald-mail



TidewaterCurrent 7.7.12 - MD has a 20% renewable commitment by 2022.
July 9, 2012



24/7/365 Power for North America from Solar Towers

theenergycollective



TidewaterCurrent 7.5.12 - Heat collected during the day is stored in molten salt that can be released during the night for electricity.
July 9, 2012



Construction of The World's Largest Solar Bridge Reaches Halfway Point in London

inhabitat



TidewaterCurrent 7.5.12 - Solar will provide 50% of the power needed at the Blackfriars Station. The bridge project consisting of 4,400 solar panels will reduce CO2 emissions by 511 tonnes a year.
July 6, 2012



Community-Owned Solar / Solar Gardens for 4/5 of Americans?

cleantechnica



TidewaterCurrent 7.6.12 - Net metering is important to participating in a community solar garden. In order to offset your energy bill with a that produced in a community system you support, a virtual program needs to be in place. A few states offer the program and more are considering it. Links are provided to the Solar Garden Institute and NREL's guide to community solar,
July 6, 2012



Power-Generating Windows Offer New Horizons for Office Energy Efficiency - Energy-Solar

cleantechnica



TidewaterCurrent 7.7.12 - Power generating solar luminescent windows created with the addition of a thin film added to existing windows could be available in the future. The technology not nearly as efficient as solar panels was develop at Deft University of Technology. But with no where near the expense and the opportunity to add them to existing structures, the technology has great potential.
July 7, 2012

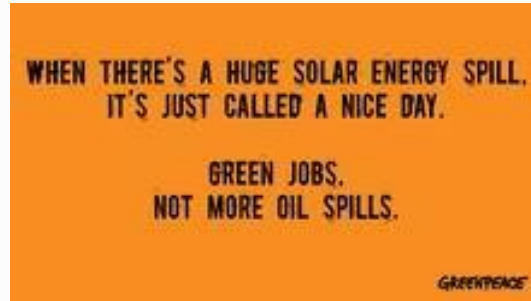


Japan opens solar energy parks

phys



TidewaterCurrent 7.1.12 - Concern over nuclear safety has resulted in a push to develop renewables as a law became effective yesterday requiring companies to purchase renewable energy at a fixed price. Meanwhile 49 out of 50 reactors in Japan closed for safety checks.
<http://phys.org/news/2012-07-japan-solar-energy.html>
July 3, 2012



Greenpeace denied Edmonton billboard space for oil spill ad

theglobeandmail



TidewaterCurrent Vote Solar's Slogan was to be used with permission by Greenpeace on an Edmonton billboard. At the 11th hour, the billboard company backed out on the deal without explanation.
<http://www.theglobeandmail.com/report-on-business/industry-news/marketing/greenpeace-denied-edmonton-billboard-space-for-oil-spill-ad/article4351183/?cmpid=rss1>
July 1, 2012



Solar-Powered Charger for the Apple iPhone

cleantechnica



TidewaterCurrent 6.30.12 - Solar Cell protective case made by EnerPlex uses Ascent CIGS technology to charge iPhone battery.
<http://cleantechnica.com/2012/06/30/solar-powered-charger-for-the-apple-iphone/>
June 30, 2012



Solar Institute to train jobless veterans to install solar panels

articles.sun-sentinel



TidewaterCurrent 7.4.12 - Veterans Affairs Dept. to provide training for vets in the solar sector at Florida's US Solar Institute. The school is the only all solar school licensed by the state and is connected with Underwriters Labs. The program can be completed in a few with weeks with practical job training lasting a few more.
July 5, 2012



Sun's Out, Soup's On: Campbell Does Solar «

earthtechling



TidewaterCurrent 6.27.12 - One sixth of an Ohio Campbell Soup plant is being supplied by solar power. As noted by the author, the project in part was undertaken for marketing purposes and brand improvement. It's a smart business strategy that hopefully will be noticed by more businesses.

<http://www.earthtechling.com/2012/06/suns-out-soups-on-campbell-goes-solar/>

June 28, 2012

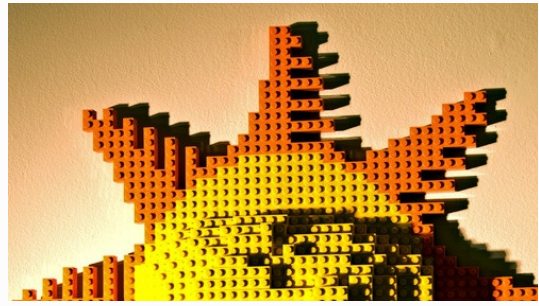


Solar Power Rises from City Dump

cleantechnica



TidewaterCurrent 6.27.12 - Re-powering America's Land Program supports developing brown-fields into renewable energy parks. A Canton, MA solar power project is one more example of landfill to solar projects. The EPA has identified 14 million acres of abandoned industrial sites that could be used in this way. http://cleantechnica.com/2012/06/27/jinko-solar-builds-solar-power-canton-landfill/?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+IM-cleantechnica+%28CleanTechnica%29
July 3, 2012



These Solar Panels Are A Snap

fastcoexist



TidewaterCurrent 6.25.12 - SoCore Energy's modular panels are made to stack like building blocks to any configuration, are easily moved and don't require any special tools or know-how to install. <http://www.fastcoexist.com/1680053/these-solar-panels-are-a-snap>
June 26, 2012



KYOCERA Solar Power Generating Systems Help the Maldives Islands Meet Renewable Energy Goals

global.kyocera



TidewaterCurrent 6..13.12
June 18, 2012



Carbon-based solar cell can absorb near-infrared light

ecoseed



TidewaterCurrent 6.25.12 - MIT carbon based cell can capture and convert near infrared light. Paired with conventional PV technology, would allow the conversion of more light into energy.

<http://www.ecoseed.org/technology/14879-carbon-based-solar-cell-can-absorb-near-infrared-light>
June 25, 2012



Buy solar panels through town

boston



TidewaterCurrent 6.10.12 - The Massachusetts Clean Energy Center has initiated a program in 17 communities to facilitate group purchases of solar panels which provide volume discounts making solar more affordable. Hopkinton is one of the communities. To find out more about how the program is being developed there, visit

<http://www.hopgreen.com/> -
http://www.boston.com/news/local/massachusetts/articles/2012/06/10/buy_solar_panels_through_town/
June 10, 2012



A spotlight on solar energy

technicianonline



TidewaterCurrent 6.6.12 - Durham based Sempruis innovating solar industry with high concentration photovoltaic modules which attain higher efficiencies than standard pv modules.
<http://www.technicianonline.com/features/a-spotlight-on-solar-energy-1.2743163#.T9Ctdo7WrHM>
June 7, 2012

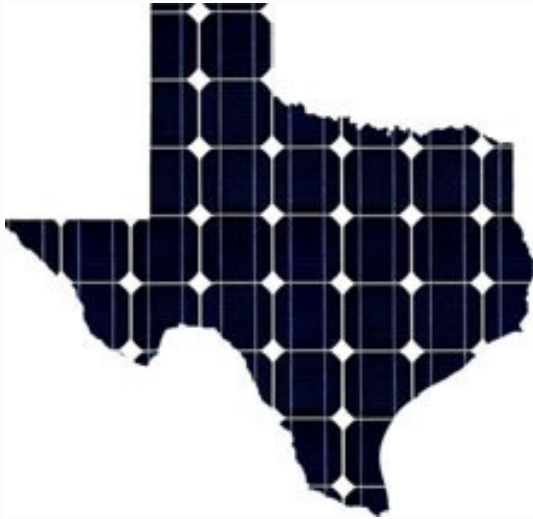


Solar Panels Shade Cattle In Win-Win For Agribusiness «

earthtechling



TidewaterCurrent 5.31.12 -
<http://www.earthtechling.com/2012/05/solar-panels-shade-cattle-in-win-win-for-agribusiness/>
May 31, 2012

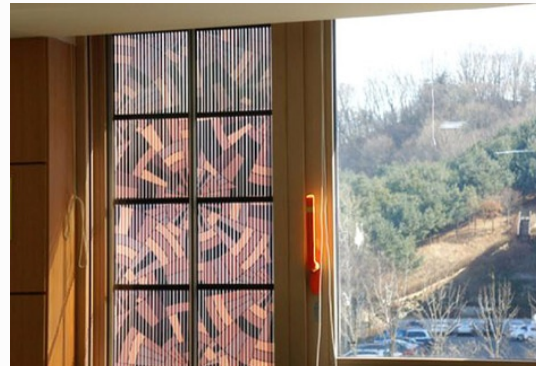


More solar would lower energy costs for Texas in summer months – SEIA -

ecoseed



TidewaterCurrent 6.2012 - Brattle Group study finds that wholesale energy prices would decline in summer with the addition of solar to the electric grid. With capacity issues seen last summer and expected this summer, more solar would serve the state well.
<http://www.ecoseed.org/renewables/solar/14783-more-solar-would-lower-energy-costs-for-texas-in-summer-months-seia>
June 22, 2012

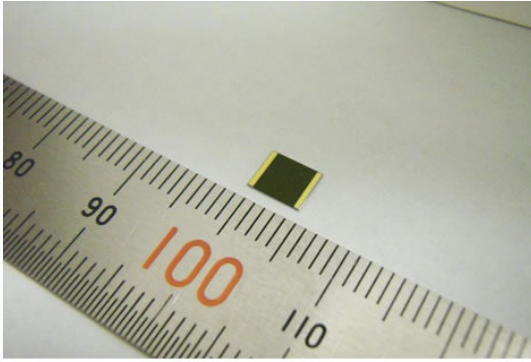


Cheap Dye-Sensitized Solar Cell Moves toward Commercialization - Technology Review

technologyreview



TidewaterCurrent 5.30.12 - Northwestern team achieves high energy conversion with dye sensitized solar cells. The advancement could help the inexpensive solar cell technology to market.
<http://www.technologyreview.com/energy/40473/>
May 30, 2012



Sharp develops concentrator solar cell with world's highest conversion efficiency of 43.5%

phys



TidewaterCurrent 5.31.12 - 43.5% Breakthrough in concentrated solar cell efficiency the result of Japan's New Energy and Industrial Technology Development Organization and confirmed by the Fraunhofer Institute.
<http://phys.org/news/2012-05-sharp-solar-cell-worlds-highest.html>
May 31, 2012



Connecticut's \$10M Package To Boost Residential Solar «

earthtechling



TidewaterCurrent 6.4.12 - CT has committed to produce 27% of its energy from renewables. Now the General Assembly has established a quasi public agency with \$10 million to support residential PV systems through financing solutions that leverage more investment from private capital.
<http://www.earthtechling.com/2012/06/connecticuts-10m-package-to-boost-residential-solar/>
June 4, 2012



SoCalGas demonstrates Cogenra's cogeneration solar system for cooling purposes

gizmag



TidewaterCurrent 6.4.12 - Thermal hot water generated in a dual concentrating PV/thermal system is being used for air conditioning. SoCalGas is testing the absorption chiller technology. The system is smaller than flat panel PV systems and with the production of electricity and hot water it is more efficient than a single solar system.

<http://www.gizmag.com/cogenra-cogeneration-solar-power-socalgas/22801/>
June 5, 2012



Solar Solution: Keeping solar in sight at Washington and Lee University

solarnovus



TidewaterCurrent 5.29.12 - Largest solar installation in Virginia at Washington and Lee. It would be awesome to see more of the projects in the state, unfortunately, without incentives and a number of regulatory hurdles in the state, that's unlikely to be the case. The installers were unable to structure a power purchase agreement with Dominion Power and instead are leasing the panels to the University, which changes the economics of the deal. Dominion is protecting their business, but at the expense of its customers and the environment.

http://www.solarnovus.com/index.php?option=com_content&view=article&id=4985:solar-solution-keeping-solar-in-sight-at-washington-and-lee-university&catid=77:case-studies-and-solar-solutions&Itemid=440

May 29, 2012



Frank Lloyd Wright Foundation Powers Up Solar at Taliesin West

solarnovus



TidewaterCurrent
May 25, 2012



Germany breaks solar energy record

euronews



TidewaterCurrent 5.25.12 - Solar powers 1/3 of Friday energy demand and half of Saturday demand in Germany.

May 27, 2012



Military Base Solar Takes Aim At Grid Parity «

earthtechling



TidewaterCurrent 5.26.12 - California National Guard base at Camp Roberts will test ability of thin film to compete with grid produced energy. The goal of the 1 MW thin film solar installation from Nanosolar is to achieve a levelized cost of energy. While the thin cell technologies don't convert as much sunlight to energy as tradition PV cells, CIGs are much less expensive to produce and Nanosolar utilizes an economical roll-to-roll printing process.

<http://www.earthtechling.com/2012/05/military-base-solar-takes-aim-at-grid-parity/>

May 28, 2012



Taking the solar powered boat out for a spin | todaysthv.com

todaysthv



TidewaterCurrent 5.22.12 - While enjoying a trip down the Eerie Canal, New York sailors are testing their sun powered (only) vessel on a 10 day 363 mile trip. With battery power, the boat can run after the sun goes down. The price for a basic model is comparatively reasonable at \$45,000.

<http://www.todaysthv.com/news/article/211614/70/Taking-the-solar-powered-boat-out-for-a-spin>

May 24, 2012



Solar energy industry is flourishing in Mass. - The Boston Globe

bostonglobe



TidewaterCurrent 5.26.12 - With high energy costs, PV systems are more competitive in Massachusetts. So, it's no wonder it sits only behind CA in a rank of solar markets. Enough solar power is produced to power some 15,750 homes. State and municipal initiatives as well as solar leasing programs are making it easier for consumers to go solar.

<http://bostonglobe.com/business/2012/05/26/mass-solar-sells/SHng2cMVXrfKbLVMQYSfjO/story.html>

May 27, 2012



Green Energy Advocates Criticize Lack of State Incentives

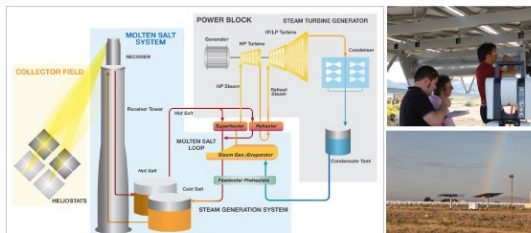
clarendon.patch



TidewaterCurrent 5.26.12 - Great overview of Virginia solar policy (or lack there of). Solar installer based in Virginia generates most of it's business in MD. The company cites lack of state policies promoting solar. Despite designating the state as the "energy capital of the east coast," Governor McDonald recently vetoed the "Solar Freedom Bill" which would prohibit HOAs from banning solar installations.

<http://clarendon.patch.com/articles/green-energy-advocates-criticize-lack-of-state-incentives-d1d1ea8a>

May 27, 2012



Home Magazine Mining the Sky

onlinetes



TidewaterCurrent 5/2012 - Concentrated Solar delivered 24/7 with molten salt storage system. <http://www.onlinetes.com/tes0512-portable-metrology-energy.aspx>

May 21, 2012



Conehead Generators Put A New Spin On Rooftop Solar «

earthtechling



TidewaterCurrent 5.19.12 - Solarphasesc claims their spinning cone solar energy generator produces 40% more electricity than traditional PV panels.
<http://www.earthtechling.com/2012/05/conehead-generators-put-a-new-spin-on-rooftop-solar/>
May 20, 2012

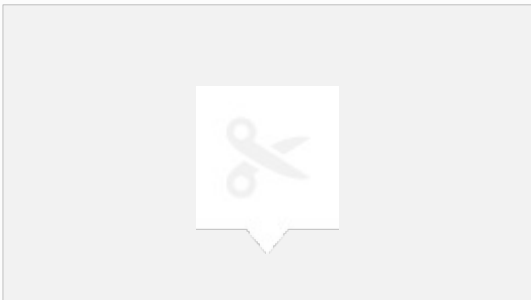


Solar Impulse takes off on first intercontinental flight

phys



TidewaterCurrent 5.24.12 - Departing from Switzerland, a solar powered airplane is undertaking a 2,500 km trip to Rabat, Morocco. Around the world trip is planned for 2014.
<http://phys.org/news/2012-05-solar-impulse-intercontinental-flight.html>
May 24, 2012



New inexpensive, environmentally friendly solar cell shines with potential

phys



TidewaterCurrent 5.23.12 - Northwestern researchers create new inexpensive solar cell based on the dye sensitized Gratzel cell, which mimics photosynthesis.
<http://phys.org/news/2012-05-inexpensive-environmentally-friendly-solar-cell.html>
May 24, 2012



New Jersey Community College Building Largest College Solar Project in America

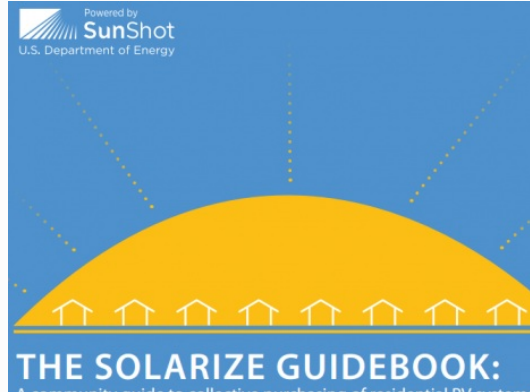
cleantechnica



TidewaterCurrent 5.24.12 - Mercer community college will boast an 8 MW array consisting of 33,500 american made solar panels planted over 45 acres through a lease purchase agreement.

<http://cleantechnica.com/2012/05/24/new-jersey-community-college-building-largest-college-solar-project-america/>

May 24, 2012



Solarize Your Community (Learn How from New Solarize Guidebook)

cleantechnica

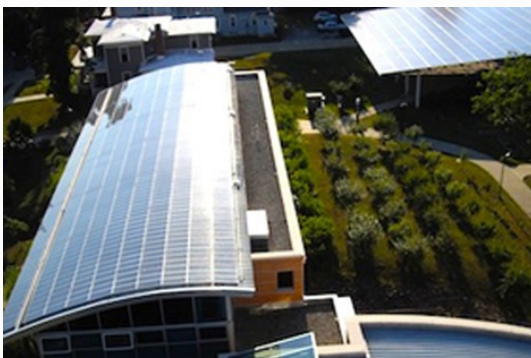


TidewaterCurrent 5.21.12 - The NREL guidebook is available as a PDF at this link:

<http://www.nrel.gov/docs/fy12osti/54738.pdf>. It provides lots of resources for community PV projects including financing, leasing and power purchase agreements.

<http://cleantechnica.com/2012/05/21/solarize-your-community-learn-how-from-new-solarize-guidebook/>

May 21, 2012



Energy-Solar - 2.3MW Oberlin Solar: Small College, Big Power «

earthtechling



TidewaterCurrent
May 18, 2012



Dominion Va. proposing solar-power incentive - Businessweek

businessweek



TidewaterCurrent
May 17, 2012



Biggest CPV Plant in US Now on the Grid at Alamosa

greentechmedia



TidewaterCurrent

May 16, 2012



150 NC residents produce solar power with Progress Energy :: WRAL.com

wral



TidewaterCurrent 5/15/12 - Raleigh, NC - The SunSense Solar PV program offered through Progress Energy helps accepted homeowners reduce the economic impact of solar investment. With 200-300 more installations expected yearly, studies will be conducted to determine the impact of a growing number of small scale generators on the grid.

May 16, 2012



Solar Investing Goes Mainstream

blog.rmi



TidewaterCurrent

May 14, 2012



Turning trash into solar treasure

kxan



TidewaterCurrent

May 8, 2012



ODU'S MARSILLAC CONTINUES TO ATTRACT DOE FUNDING FOR SOLAR ENERGY RESEARCH, WITH \$1.1-MILLION GRANT

odu.edu



TidewaterCurrent 5/10/12 - Researcher at Old Dominion University in Norfolk, VA developing 500 nanometer incredibly thin solar cell. Without loss in energy efficiency, the less expensive cells, have propelled Sylvain Marsillac into PV stardom. In June he will present at a prestigious DOE workshop in Colorado and he has been recognized as a DOE expert in PV technology. - <http://www.odu.edu/ao/news/index.php?todo=details&id=32087> May 15, 2012



Iron Mountain Looks to Solar PV; Johns Hopkins Brings 818kW Online · Environmental Management & Energy News · Environmental Leader

environmentalleader



TidewaterCurrent
May 8, 2012



Dominion Virginia Power cancels Halifax solar test project

www2.timesdispatch



TidewaterCurrent
May 13, 2012



&

blueandgreentomorrow



TidewaterCurrent 5/8/12 - Currently under construction the Topaz solar farm in San Luis Obispo, CA is expected to be the world's largest, powering up to 160,000 homes. - <http://www.blueandgreentomorrow.com/2012/05/08/worlds-largest-solar-project-begins-major-construction/> May 8, 2012



Technology Spotlight: Solar Windows

sustainablebusiness



TidewaterCurrent 5/10/12 - Pythagoras solar windows installed on the Chicago Willis Tower for testing. Two windows on the 56th floor have solar cells inserted between window panels. The cells prevent heat gain and reduce cooling costs and generate electricity. - <http://www.sustainablebusiness.com/index.cfm/go/news.display/id/23693>
May 11, 2012



Wall Street Bank Backs Residential Solar Fund

energy.aol



TidewaterCurrent 5/4/12 - MySolar fund created by Clean Power Finance to provide \$300 million for residential solar leasing. - <http://energy.aol.com/2012/05/04/wall-street-bank-backs-residential-solar-fund/>
May 5, 2012



Kearny Landfill Solar Farm opens with ribbon cutting ceremony, project to serve Hudson and Bergen communities

nj



TidewaterCurrent 5/10/12 - Landfill solar farm powering 450-675 homes in Bergen and Hudson, NJ. - http://www.nj.com/hudson/index.ssf/2012/05/kearny_landfill_solar_farm_op.html
May 10, 2012



Plug 'n Play Solar Systems Could Give Renters a Renewable Energy Option

treehugger



TidewaterCurrent 5/4/112 - Plug and Play Solar - <http://www.treehugger.com/solar-technology/plug-n-play-solar-systems-could-give-renters-renewable-energy-option.html>
May 5, 2012

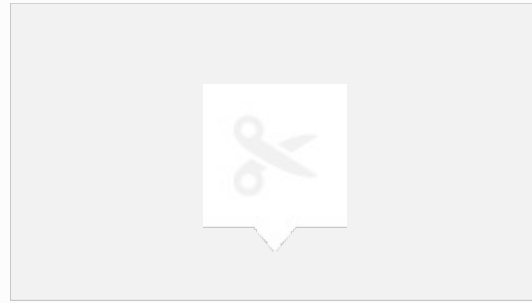


Robeson county officials, college representatives and businesses meeting Wednesday to discuss solar industry

fayobserver



TidewaterCurrent 5/6/12 - North Carolina harvesting solar power - <http://fayobserver.com/articles/2012/05/06/1168744?sac=fo.business>
May 7, 2012



Pennsylvania developer Community Energy plans \$7 million solar farm in North Carolina

bizjournals



TidewaterCurrent 5/7/12 - Sanford NC to be home of 2 MW facility expected to be operating by October. - <http://www.bizjournals.com/charlotte/blog/morning-edition/2012/05/pennsylvania-developer-community.html>
May 7, 2012



New Louisville Brewery Relies on Solar Energy

wfpl



TidewaterCurrent 5/7/12 - Apocalypse Brew Works - <http://www.wfpl.org/2012/05/07/new-louisville-brewery-relies-on-solar-energy/>
May 7, 2012

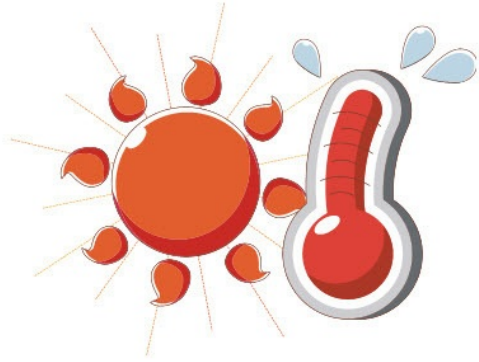


How to Start a Solar Co-op (VIDEO)

cleantechnica



TidewaterCurrent 5/3/12 - Solar Co-op - <http://cleantechnica.com/2012/05/03/how-to-start-a-solar-co-op-video/>
May 3, 2012



Breakthrough in concentrated solar power from partnership between 3M and Gossamer Space Frames

hydrogenfuelnews



TidewaterCurrent 5/6/12 - Lighter more reflective collectors developed by 3M and Gossamer Space Frames will concentrate more energy and bring down the costs of CSP. The technology will be demoed at the Sunray facility in Dagget CA for several months. - <http://www.hydrogenfuelnews.com/breakthrough-in-concentrated-solar-power-from-partnership-between-3m-and-gossamer-space-frames/853465/>
May 7, 2012



Heineken Breweries Go Solar

solarnovus



TidewaterCurrent 5/3/12 - Solar on tap at Heineken - http://www.solarnovus.com/index.php?option=com_content&view=article&id=4831:heineken-breweries-go-solar&catid=37:business-news&Itemid=241
May 3, 2012



PV for All: Low-Income Housing Residents Going Solar

renewableenergyworld



TidewaterCurrent 5/2/12 - Solar Leasing - Whittier Affordable Housing Project in Colorado - <http://www.renewableenergyworld.com/rea/news/article/2012/05/pv-for-all-low-income-housing-residents-going-solar>
May 3, 2012



Planetsolar, Largest Solar-Powered Boat, to Complete Round-the-World Journey on Friday

cleantechnica



TidewaterCurrent 5/2/12 - Solar Boat

<http://cleantechnica.com/2012/05/02/planetsolar-largest-solar-powered-boat-to-complete-round-the-world-journey-on-friday/>
May 3, 2012



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Solar Odyssey - Sun powered boat to set sail from Florida this month making a "Great Loop" in the Eastern US

technorati



TidewaterCurrent

May 2, 2012



Solar energy will help power Back River treatment plant

articles.baltimoresun



TidewaterCurrent Baltimore MD -
Expected to break even in 10 years.
April 28, 2012

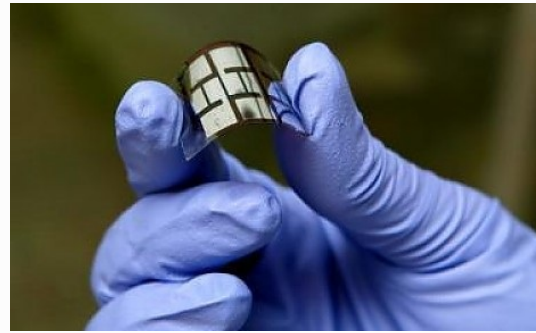


Solarphasec — Solar Power Meets Art

cleantechnica



TidewaterCurrent 5/3/12 - Solar power producing art - Such devices should be ubiquitous! - <http://cleantechnica.com/2012/05/03/solarphasec-solar-power-meets-art/>
May 3, 2012



Princeton, Navy and Air Force Team on Biomimicry Solar Cell Research

cleantechnica



TidewaterCurrent By mimicing the wrinkles in a leaf, solar cell efficiency increased by 47%
April 28, 2012



Condo Owners Fight Homeowner Associations For Their Right to Install Solar Power

inhabitat



TidewaterCurrent
April 27, 2012



Comments sought for Dominion's solar program

wavy



TidewaterCurrent SCC Hearing on Dominion's Solar program - Sept 12, 2012.

May 1, 2012



Nanosolar Meets Benchmarks for Low Cost Thin Film Solar Power - on track for grid parity by 2015

cleantechnica



TidewaterCurrent 4/30/12 - Thin film cells that can be printed in rolls are being installed at Camp Roberts at a cost that will equal or be less than what the base was paying from grid energy. -

<http://cleantechnica.com/2012/04/30/nanosolar-looking-at-grid-parity-by-2015/>

May 1, 2012



Liquid Solar Cells that Can be Painted onto Surfaces

cleantechnica



TidewaterCurrent 4/30/12 - <http://cleantechnica.com/2012/04/30/liquid-solar-cells-that-can-be-painted-onto-surfaces/>

April 30, 2012



Rooftop Solar Chills Massive NJ Food Warehouse

earthtechling



TidewaterCurrent

April 27, 2012



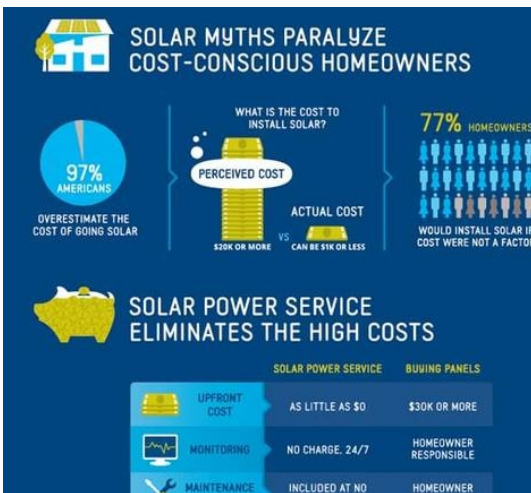
Largest Solar PV Plant in North America Comes On-Line

greentechmedia



TidewaterCurrent

April 27, 2012



97 Percent of Americans Overestimate Cost of Home Solar

greentechmedia



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April 27, 2012