MDV-SEIA'S SOLAR FLARE

ALL ABOUT THE SOLAR WORLD WE LIVE IN

SPRING IS HERE!

MEMBER SPOTLIGHT: PROSPECT SOLAR

As part of MDV-SEIA's competitive quarterly spotlight series, we sat down with Jon Hillis of Prospect Solar to learn more about their work in the region.

Who is Prospect Solar?

Prospect Solar was created in late 2010 when our sister commercial waterproofing, roofing, and green roofing company, Prospect Waterproofing, started receiving requests to bid rooftop solar on commercial projects. Apparently the installers that were providing bids to our general contractor clients were not qualified to install systems on new roofs and still keep the roofing manufacturer's warranties intact. Since we subcontract our installation labor to Prospect Waterproofing we've also had the luxury of being able to grow slowly over the past 3 years, working in specific market segments that are suited to our unique abilities, and installing when projects are ready. To date, most of our installations have been performed in the large scale residential and smaller commercial markets, with many Continued on page 3



A 4.4 kw, 20-panel PV system on the roof of Prospect Solar's Sterling, VA office.

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MARYLAND: \$100 EXEMPTION LAW PASSES

On March 13, the Maryland General Assembly passed a ground breaking piece of legislation that will allow small businesses and microenterprises to raise debt capital from Maryland residents.

The new law minimizes risk to investors by restricting each individual's investment to \$100 and allows small businesses to raise up to \$100,000 in any given year. By allowing borrowers to pay individual investors interest, the new law encourages

Maryland residents to see investment in Maryland as an option for the benefit of their communities and their own financial gain. The law will go into effect as of October 1, 2014.

Why is this important?

Startups and small businesses are the engines that drive our local economies and yet they have a hard time getting the capital they need — including solar businesses.

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BEST ADVICE: SUBMIT A BUSINESS PLAN TO HARVARD, AND GET OUT OF THE WAY

Jigar Shah

In January 2003, I started SunEdison LLC. I was still an employee at BP Solar but had a dream of starting my own company. I added two cofounders and after a few investor meetings, I got the same advice from everyone: "You really need a CFO." Now I was 28 years old and had no idea why I needed a CFO. I asked folks what I should look for and got mealy mouth responses like. "Find someone with gravitas and an attention to detail." As

someone with oodles of selfconfidence with two solid partners, accepting that I needed another person for a business that was not yet off the ground seemed like a dumb idea.

A few weeks later one of my business partners, Claire Broido Johnson, asked me if she could submit our business plan to the Harvard Business School's annual Business Plan Contest. As someone who only attended public universities, I was immediately offended. The last

thing I needed was validation from an Ivy League school. But she was adamant and I think I said something like, "as long as I never have to present or be a part of it, go for it!"

There was one wrinkle; we needed a local student sponsor on our team. Claire chose Brian Robertson, a successful entrepreneur that went back to business school and ran the Harvard Business School Sustainable Development Society — the

same club Claire used to run. I didn't know it at the time, but Brian was a winner. Claire was also a winner, but Brian had an insatiable appetite winning and as you can he guess, and Claire did win the competition - and true to my word I never lifted a finger.

Brian graduated a few months later and then turned down a senior role at Yahoo! to join SunEdison. Once he came on board I went out to the investors and told them that I found

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WARD 3 RESIDENTS BAND TOGETHER TO INSTALL SOLAR AT SIGNIFICANT DISCOUNT

Over 40 neighbors in Ward 3 By are going solar together and getting a group discount, ho with the help of local we nonprofit DC Solar United lov Neighborhoods (DC SUN). By going solar as a group, participants in the bulk incompresse save with approximately 30% off the whole typical cost of installing solar systems on their homes, while also building the community in the process.

their aggregating purchasing power, homeowners of Ward 3 were able to get a much lower price on installing solar panels on their homes than if they had done so individually. They worked with local nonprofit DC SUN, who provided unbiased technical support guided the group through the entire process. DC SUN issued Request

Proposals (RFP) on behalf of the group to solicit competitive bids from local installers.

group Once the had received bids from local installers, fifteen volunteers the from group of participating homeowners formed a committee to choose a single installer for the whole group. The Ward Selection Committee reviewed bids and selected

DC-based Solar Solution to complete all of the installations for Ward 3. Each participant will own their individual system and will sign their own customized contract with the company, but all will receive the group discount. Solar Solution is a solar photovoltaic company that has thrived in the DC market since 2009, installing over

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Continued MEMBER SPOTLIGHT

remedial roofing work as well.

Our team consists of Jim The building where Catoctin Stamer - Owner/President, Jon Hillis - Vice President, Drew Skinner – Lead Estimator, Kevin Graves. NABCEP certified Engineer, Nick Messer - Sales Associate and Marketing, and Clinton Eickelberg – Contract not known the owner had to Administration.

Tell us about one of your recent projects. What is unique about it?

In 2013 we completed a 41 kW array at Catoctin Creek Distilling Company Purcellville, Virginia which is the largest solar array installed in Loudoun County and one of the largest privately owned arrays in Virginia. The owner of Catoctin Creek wanted to create solar powered spirits to

provide an offset of 70% to 85% of his projected energy use. Since the facility was a retrofit of an existing space we had to estimate the new usage projects requiring some sort of from his utility bills at the previous location.

> Creek relocated was the historic 100-year-old Case Building in downtown Purcellville. Since the loading capacity of the existing building's roof structure was include structural renovation in his budget to support the weight of the new equipment on roof. Appearance was also a concern so a low profile ballasted racking system was used.

> Upon completion of the system, Prospect Solar and Catoctin Creek Distilling Company hosted a New Power the Old Dominion event.



Prospect Solar's entrance to their underground building in Virginia.

energy experts and about 80 in Chantilly, Virginia. local residents. Catoctin Creek installation will be the largest may have the only certified array in Fairfax giving Prospect kosher, powered, rye whiskey in the prominent world. Try the Roundstone Northern Virginia.

Do you have any other exciting resident installations in the projects in the pipeline?

environmental and renewable installation at an office building solar Solar the bragging rights to two counties

The DC SEU low-income District of Columbia will also keep us busy through the presentation was held in their We are waiting for final permit summer. We hope to install 20 the greatest extent possible so tasting room and distilling approval from Fairfax County to 25 of these projects this year the system was sized to room, attended by a panel of for a 56 kW commercial with Darrell Green and Trusted Solutions Group.

What opportunities for future growth do you see in the field?

Currently the District of Columbia holds the most promise and unrealized potential for new solar installation in the DC metro area. With the undersupplied market, Renewable Energy Incentive Program, PACE financing option, and the new option of Community Renewable Energy Facility installations there is a tipping point in the near future for commercial installations.

Lack of incentives and low utility prices make Virginia one of the greatest untapped solar markets in the nation. While these issues are roadblocks for



Prospect Solar's project for the Catoctin Creek Distilling Company. Upon completion of the system, Prospect Solar and Catoctin Creek Distilling Company hosted a New Power for the Old Dominion event. The presentation was held in their tasting room and distilling room, attended by a panel of environmental and renewable energy experts and about 80 local residents. Catoctin Creek may have the only certified organic, kosher, solar powered, rye whiskey in the world.

Assembly for sunnier future in Virginia.

On the broader scale, the wars. This all depends on how industry? hard the utilities intend to dig installation costs.

you expect to see?

all parties can agree on and on Twitter as well. methods for determining costs and benefits for all aspect of distributed solar generation there can be no consensus and \$100 the issue will remain. We are hoping a push from the General Assembly and the industry in Virginia will move Under existing federal law, utilities.

What is your stance on distributed generation policy?

distributed generation policy renewables should be allowed small to compete on a level playing generation/distribution correctly priced fuel sources, with no incentives for either, and with decoupling of utilities' profits from their sales competitive generation facilities would communities in our state. slowly shut down and distributed

some, they also present an renewable energy would be The law will allow small opportunity for creative the only source of new energy businesses, based in Maryland, It wasn't that we needed a marketing for others. Recent installed on the US grid from to invite Maryland residents to CFO, it was that my investors achievements in the General this date forth. Getting to that lend them money and get needed to know that I had a renewable point with the current state of repaid, with interest - real co-pilot - one that would energy also give hope for a the renewable energy industry something that was not make sure I didn't quit and one and the investor owned utility possible before the bill. model is the problem at hand.

date as most. More important people to participate. technology, remain county, etc. and get involved at communities. Challenges to existing net that level. Understand what energy metering codes from the market drivers are in the Businesses utilities are just beginning area where you decide to required to file notice with the across the nation and Virginia work. Follow others' blogs in Maryland will likely not be immune. Until the renewable energy industry Commission, rather than going Claire to take the chance and

MARYLAND: Continued

this dialogue forward with the businesses cannot solicit and borrow funds from community members and pay back the loan with interest without extensive and expensive registration with the SEC. By My stance on energy and creating an exemption for small scale lending, the new bill My CFO. We all knew that Brian derives from the concept that will open opportunities for was no CFO. He was a COO, a businesses across Maryland to get loan capital to traditional grow and thrive.

By allowing individuals to from them in 25 days . invest small amounts of money in local businesses and earn a return, of energy. If this were to legislation will build stronger. happen large scale traditional more connected and resilient

generation What does the new law do?

battery backup market is Do you have any final borrow up to \$100,000 in any sought out "winners." Many poised to reap any benefits of thoughts for someone who is given 12 month period; lenders folks who want to be part of the net energy metering interested in joining the will be limited to a maximum of this club, yet only a few \$100 per business per loan.

will only through the complex securities submit the business plan. The registration and reporting best luck is that I did not currently required.

EXEMPTION The bill makes Maryland a than any CFO. leader in the nationwide effort to open new access to capital Sadly, Brian Robertson is no through mechanisms and strengthen our state building a strong local business not about money or ego, it is base.

Continued BEST ADVICE

President, a *doer*, but certainly not a CFO. After introducing potential Brian tο Our investors, he raised money



Brian & Claire accept the award from Harvard

that had skills that I lacked.

Businesses will be able to Ever since those days I have actually make it. These are folks that not only want to win, in their heels. New community My suggestion to you is read 10 The \$100 limit will protect but they have certain humility solar opportunities will also be or so renewable energy articles average investors from large about what it takes to win. able to increase the market 5 everyday for several months losses and because it is low will. They put in the hours and the decreasing and you will soon be as up to encourage a broader group of effort, but know that even that only doubles their chances from 1 percent to 2 percent. What future challenges do current on the policy and The bill will promote closer ties. That doubling gives them a legislation in your state, between businesses and their warm feeling of progress with no external recognition of the fact that we still have a 98 be percent chance of losing.

> Securities The best advice I got was from participate in the presentation, and Brian was light years better

crowd-funding longer with us, the world lost will him too young, but his memory by lives within all of us. Winning is about making the world a better place. Brian left this world a better place.

> If you wish, in Brian's memory, you can donate to The Brian D. Robertson Memorial Solar Schools Fund "BDR Fund" -- to educate 10 million students with solar energy systems at 20,000 schools by 2020.

> MDV-SEIA has partnered with the BDR fund and is working to build solar on schools throughout Maryland, DC and Virginia. It is our hope that by making solar an everyday sight, students will become interested in the industry. We look forward to continued collaboration with the BDR Fund.

Continued WARD 3

650 solar PV systems in the city. This is the second time that Solar Solution has bid successfully on a DC SUNorganized solar Bulk Purchase. In August 2013, Solar Solution was chosen by the Ward 4 Bulk Purchase Selection Committee to complete installations on their homes.

"We had a great experience working alongside DC SUN last year," says Atta Kiarash of Solar Solution. "We're excited to also be the solar installer for the Ward 3 Neighborhood Bulk Purchase group."

Anya Schoolman, President of DC SUN, says the bulk purchase is a win-win solution for encouraging solar in the District:

"This is our sixth bulk purchase in DC since early 2013 and we continue to be amazed by all the interest we receive from homeowners. Going solar as part of a group makes the process much easier navigate. Participants can rely on each other throughout the process while saving money."

ITA DELAYS TRADE **CASE DECISION**

The U.S. International Trade Administration (ITA) postponed its countervailing duty determination by about two months, leaving the solar industry hanging for a while longer.

On March 11, 2014, the ITA notice of gave determination that it needs more time to investigate unlawful subsidies provided by China to the Crystalline Silicon Chinese Photovoltaic (CSPV) products

manufacturing industry. 79 FR "Jeremy is an outstanding For more information on the the complexity of the case fundamental and justified moving the case from science, as a Harvard graduate track for a countervailing duty now junior faculty member at awards case to relevant law and regulations.

action extends expected date of the ITA's to define new the CVD investigation from thereby to the about March 28, 2014 (65 days expanding need for renewable through October 1 of any given initiating investigation) to aboutJune 2, 2014 (first business day past Munday's seminal experiment, submission 130 days after initiation). The the CVD investigation only affects demonstration of a repulsive instructions and nomination CSPV products from China. The Casimir force, was featured as forms. dumping (AD) investigation a cover article in Nature in against CSPV products from 2009. This led him and his SPIE is the international society both China and Taiwan is colleagues to consider how this for optics and photonics, a notunchanged, and a preliminary phenomenon could be applied for-profit determination in that case is to ultra-low static friction founded in 1955 to advance still due on or about June 9, devices and sensors and to light-based technologies. The 2014. Case Nos. A-570-010, A- consider how rotations and Society serves nearly 235,000 583-853.

SPIE 2014 Award Winners

Winners of awards recognizing technical outstanding achievements and service to been society have SPIE, the announced by international society for optics and photonics. The annual awards program recognizes both individual and team technical accomplishments.

Jeremy Munday, an assistant professor at University of Maryland in College Park, Maryland, is the 2014 recipient Early Career the Achievement Award recognition his innovative experimental and theoretical work on photonic engineering for solar energy devices and Casimir forces.

No. C-570-011. ITA stated that record of accomplishment in and the Maryland," said Harry Atwater outstanding "complicated" case track under of the California Institute of team Technology. "I strongly believe accomplishments Jeremy has the intellectual meritorious service to the energy advances."

> first torques could be generated by constituents anisotropic materials. His work offering review journals.

In the field of solar energy professional networking, and conversion, Munday was one patent the pioneers of of incorporating photonic and plasmonic elements photovoltaic converters. That work has been featured on the covers of Nano Letters, Advanced Materials, Journal of Applied Physics, and Applied Physics Letters, and has been cited over 300 times in the last few years.

The SPIE Early Career Achievement Award, given for the first time in 2008, goes to an early career professional in recognition of significant and innovative technical contributions to any of the engineering or scientific fields of interests to SPIE.

13617 (Mar. 11, 2014), Case talent with a proven track 2014 SPIE Award recipients applied www.spie.org/x45.xml.

the "normal" investigation student, Caltech postdoc, and SPIE presents several yearly that recognize individual and technical and the the capacity, presence and energy Society. SPIE urges you to scientific nominate a colleague for his or preliminary determination in frontiers and to also contribute her outstanding achievements. world's Nominations may be made year and are considered active for three years from the date. Visit experimental www.spie.org/x1164.xml for

> from quantum fluctuations between approximately 155 countries, in that field has already been continuing education, books, cited over 450 times in peer- journals, and a digital library in support of interdisciplinary information exchange, precedent. provided \$3.2 million in support of education and in outreach programs in 2013.

Flickering Fate

Bv Bill Sizemore

While Virginia's largest utility electricity enjoyed smooth sailing in the halls of General Assembly, renewable-energy advocates struggled to get a foothold this session.

Dominion Virginia Power which relies overwhelmingly on fossil-fuel and nuclear power generation — easily achieved its top priority in the 2014 session: legislative \$400 million it's spent planning surrounding states." a nuclear plant that may never be built.

achieve their top legislative systems. incentive objective: an other such systems.

provide a telling glimpse of the Richmond.

The credits for installing systems pollutants. derive energy from motion, geothermal power.

That was quickly downgraded from Virginia's \$50 billion budget. on the measure until 2015.

program next year.

outpacing Virginia encouraging energy.

"We have so much ground to to use biomass material. cover," says Tony Smith, president and chief executive "We are in the mix in adding more nuclear capacity of Secure Futures, a Staunton- renewables in a big way," could result in lower rates. based solar-energy company. Botkins says.

In contrast, advocates of state tax credits or other Dominion that have a state- interest group that lobbies the renewable energy failed to incentives for solar-power guaranteed rate of return.

installation of solar, wind and in Virginia is reflected in the participate," initiatives percent of North Carolina's.

> allow homeowners businesses to reduce their renewable-energy electricity bills by tapping a Supporters say the grant politics.

sunlight, wind, falling water, Those surrounding states also The absence of such policies is Redskins football tickets and biomass, waste, landfill gas, have mandatory renewable- driving tides or portfolio standards, which entrepreneurs out of Virginia renewable sources. they say. into a grant program that Virginia has only a voluntary would be capped at \$10 million standard, and Dominion has Dominion took no position on 1 percent of all donations from a year — a minuscule piece of lobbied hard to keep it that the way, arguing that a mandatory measure, but it mounted a full- resources sector. Lawmakers put off any decision standard could drive up rates. court press for the nuclear "They're defending a business write-off, which passed both Delegate Ron Villanueva, a Republican from James City distributed power generation." General Mark Herring. County, says the most he's David Botkins, a Dominion anticipation of launching a He cites a planned series of a third nuclear plant. large-scale rooftop Advocates say it's a baby step installations, the first one on make it less likely that toward catching up with the campus of Old Dominion Dominion rate-payers will see neighboring states that are University; a proposal to build refunds or rate reductions, in two test wind turbines off the even as state regulators renewable Virginia Beach Oceanfront; and project that the company will the conversion of three coal- collect \$280 million in excess consuming generating plants earnings during the next two

permission to write off some "We pale in comparison to our Renewable-energy advocates The resources deployed by

"The problem is, you've got view. program aimed at encouraging The absence of such incentives one player who gets to says and you get innovation."

an free, inexhaustible energy program proposed this year up to \$100 million a year in tax greenhouse gases or other economic impact over five lawmakers, years.

> renewable-energy other perks. require utilities to generate a and into states with a more Therenewable-energy industry minimum of their electricity favorable economic climate, gave a total of \$67,000 in

> > renewable-energy the

solar Critics say the write-off will needs our help." years. Dominion disputes that contention and maintains that

argue that those technologies Dominion at the statehouse need a jump-start to level the dwarf those of the renewable-North Carolina, Maryland and playing field as they compete energy industry — or, for that Delaware, for example, offer with regulated utilities such as matter, virtually any other legislature. The utility employs 11 lobbyists to pitch its point of

Francis The company was the biggest state's puny solar-generating Hodsoll, president of E&E corporate campaign donor to The differing fates of the two capacity, which is less than 5 Frontiers, a Northern Virginia- state candidates last year, based energy consulting firm. swelling their coffers by nearly "It's the nature of markets. \$1 million, according to a political-power dynamics in On-site solar-power systems When you've got competition, compilation by the Virginia Public Access Project, nonprofit tracker of money in

ambitious note. In its original source. And, unlike fossil fuels, would generate some 1,300 Dominion also was the biggest form, it would have authorized solar power releases no jobs with a \$245 million source of gifts and trips to excursions to the Masters golf tournament, Washington

> campaign contributions to Virginia candidates last year energy and

model that works for them," chambers of the Assembly by Virginia Beach Republican and The Senate sponsor of the Smith says. "It's a business overwhelming margins despite the House sponsor of the legislation, Tommy Norment, a model that is threatened by the objections of Attorney languishing incentive proposal, says he hopes Gov. Terry McAuliffe's administration will hoping for now is a \$70,000 spokesman, counters that the The utility said it needed the get on board with the idea. budget provision to allow utility is undertaking several measure as a signal that it has "We need to incentivize the regulations to be written in renewable-energy initiatives. the state's support for building renewable-energy industry," Villanueva says. "It desperately

JOB POSTINGS



Please visit Sol System's website to view all available positions



Associate, Project Finance

Sol Systems is seeking an Paradise Energy Solutions, LLC finance clients to originate and area. solar opportunities as well sources of funding. The role solar project finance expertise, solar creative communication skills, etc.

Associate, Tax Equity

will work with our tax equity commercial investor partners to find the Compensation bring their investment to financial close. The role will To apply please contact Marcus require a combination of at 877-851-9269 project finance expertise, solar experience, written and verbal Project Manager communication skills, project Manage all aspects of project management negotiation skills leadership skills.

Project Manager

Sol Systems is seeking an at 877-851-9269 experienced project manager to join our operations team. In this role, you will work with our developer and EPC partners to manage the successful delivery of solar projects on behalf of investor clients. Project Manager will required to manage communicate between various stakeholders to ensure that all interests are being met during the installation and operation of new systems.

Solar Consultant

associate to join our project has an immediate job opening finance team. In this role, you for a fulltime commissioned will work with our project sales position in Baltimore This position requires project excellent people as communication skills, reaching out to potential new fundamental knowledge of the industry will require a combination of applicable incentives, and a and innovative knowledge, written and verbal approach to sales. The ideal candidate would come with established relationships in the Baltimore area and be able to Sol Systems is seeking a full- sell into both the residential time associate to join our tax and commercial markets, with equity team. In this role, you the primary focus being the market. right projects to meet their negotiable; however standard investment criteria and work plan will include a weekly closely with them throughout commission advance to be the transaction process to offset by commissions earned.

capabilities, delivery, including scheduling, business development efforts, permitting and verifying part and requirements, ordering and delivery.

To apply please contact Marcus

EVENT ANNOUCEMENTS

2014 STRATEGIC PLANNING SESSION MDV-SEIA



April 10th, 1PM-5PM ET 101 Constitution Avenue NW, Washington, DC 20001

Followed by a Happy Hour at the 201 Bar

REGISTER HERE

Help shape MDV-SEIA's future: ioin us at the 3rd Annual Strategic Planning Session. Registration free, but required for this event due to space constraints. Refreshments will be provided.

Members and non-members are welcome to attend, as we want to gain feedback from as many sources a possible in improve order to association. This event will give you the opportunity to connect with the Board of Directors to express what you consider to be the top priorities for our association. We can best serve our members when we know what YOU want us to do. We use information gathered at this meeting to shape our strategic objectives for the vear.

If you are unable to attend, please feel free to send else vour from someone organization or email your thoughts to Dana at director@mdvseia.org

The session will be followed by a happy hour at the 201 Bar in their State Lounge, located at 201 Massachusetts Ave NE. Washington, DC 20002. 201 is offering us extended happy hour prices from 6PM until closing.



Exhibition:

Conference: July 7-9, 2014 **Moscone Center** 747 Howard Street San Francisco, CA 94103

Be a part of North America's most-attended solar event -Registration is free until May 10, 2014!

Join up to 18,000 visitors and 600 exhibitors for solar dealmaking in one of the world's leading solar markets!

MDV-SEIA is pleased announce the partnership with North America. Intersolar Through MDV-SEIA's partnership with Intersolar MDV-SEIA North America, Members are invited to visit exhibition and its complimentary programs Moscone Center free of charge.

Free visitor registration is available with the Promotion Code ISNAGRP202 (value up to \$150).

Additional discounts for the Intersolar North America Conference, taking place at InterContinental Hotel next to exhibition center, are the available for MDV-SEIA members:

- 10% the on Full Package Conference ISGRP302
- 10% on the PV Package -ISGRP802
- 10% on the SHC Package -ISGRP1302

Register for InterSolar here.