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September Conference Call – Talking Points September 10, 2015

9:00am – 9:45am PV
9:45am – 10:00am Solar Thermal

NY-Sun Solar PV Incentive Program

Guest Speakers

Orange and Rockland Utilities, Lenny Leon

- Solar Growth at ORU

<i>Number of Installed Systems</i>	<i>Yearly Total</i>	<i>Cumulative</i>
2011	94	383
2012	189	572
2013	448	1020
2014	955	1975
2015 YTD	1033	3008

- Application Tips
 - Use the on-line Application Portal www.oru.com, project center
 - Automates internal processing
 - For a Complete Application
 - Upload all required documents
 - One-line Electrical Schematic
 - Signed Authorization Letter
 - Site Plan (especially if a new service)
 - Name on Account must match the name on the application documents, (authorization letter)
 - Electrical Schematic must match Application information
 - If mailing documents or application fees send to:
Orange and Rockland Utilities, Inc.
390 West Route 59
Spring Valley, NY 10977
Attn: Distribution Engineering – DG
- In Process Tips
 - E-mail questions/reply to oru_dg@oru.com
 - Be aware of meter pan and service condition
 - If disconnect/reconnect or other service work is required fill out a service upgrade application:
www.oru.com, project center
- Final Approval Tips
 - E-mail final documents to oru_dg@oru.com
 - Electrical Inspection: info should match application
 - Submit Contractor Certification
- How to Contact us
 - E-mail: oru_dg@oru.com
 - Interconnection Process Questions: 845-577-3683
 - Interconnection Technical Questions: 845-577-3542 or 845-577-3229
 - Billing Questions and Inquiries: 1-877-434-4100

NYS Parks, Recreation & Historic Preservation, Daniel McEneny
Daniel.McEneny@parks.ny.gov; 518-268-2162

New York State Historic Homeownership Rehabilitation Tax Credit Program
Please see attached pdf for a summary of the program.

Operations Updates and Reminders

Installer/Contractor Application Process

Eligible Installer/Contractors can apply to participate under the following options:

- Option A: Residential/Small Commercial <200kW Program,
- Option B: Commercial/Industrial >200kW Program, OR
- Option C: Approval to participate in both programs.

If you are currently approved to participate in the <200kW Program only, and wish to participate in the >200kW Program, you must submit a new Installer/Contractor application to participate in the >200kW Program, along with all relevant qualifications.

The turnaround time for approval is typically 2-3 weeks. The application and all required documents are currently available on the Forms/Manuals/Tools section of the website.

If you have any questions on your current participation status in the Program or the qualifications to apply for <200kW or >200kW Programs, please contact Leslie Polsinello.

New Forms

We have updated several project related forms, including: Incentive Request Form, Change/Cancel Request Form and Extension Request Form. Please note the rules for the extension requests have changed and you must provide necessary documentation for all extension requests.

The updated forms are currently available on the Forms/Manuals/Tools section of the website: <http://ny-sun.ny.gov/For-Installers/Forms-Manuals-Tools>. Please begin using the updated versions on all new requests.

The current Program Manual outlines the process for submitting each form.

If you have issues accessing the new forms or have questions on what is required, please contact Leslie Polsinello.

Criteria for Extension Requests

For non-residential extension requests:

- Initial 75% incentive request must have been submitted to appropriate inbox, OR
- Proof that an application was filed at NYS Education Department, AND
- Proof of legitimate and verifiable reasons related to new construction and equipment availability

For residential extension requests, you must submit proof of legitimate and verifiable reasons related to new construction and equipment availability. For example, if the extension request is due to permit delay, you must include the permit application.

Incentive Requests

Any changes/equipment modifications must be sent and processed prior to submitting an Incentive Request and must match Power Clerk.

GJGNY Projects

Effective Friday, September 18, 2015 project applications that select GJGNY financing will be able to upload the proforma tool in excel format and pre-approval letter in pdf format directly into Power Clerk at time of submission.

This change will allow applications to be processed quicker. If GJGNY is selected under the Customer Site Info tab in Power Clerk either (Residential or Non-Residential), the proforma tool and pre-approval letter will be required to reserve the incentive and successfully submit an application.

An updated Program Manual v17.2 will be released shortly to outline these changes.

We are aware of the delay in pre-approvals and we are working on speeding up the process with EFS. In the meantime if you do not have the pre-approval letter at time of submission please submit application as non-GJ and you will need to send in a change order once you have all the necessary documents for GJ application.

If you have submitted an application requesting GJGNY and you see a “GJH” in PowerClerk, this means we are waiting for the pre-approval letter and or proforma tool. If we have requested and not received, your project will proceed without financing and you will need to submit a change order if you would like to pursue financing once approved.

GJGNY Payment Option

Reminder: Residential GJGNY loan disbursement will be initiated by EFS once a copy of the Final Electrical Inspection Certificate has been received by NYSERDA or PSEG Long Island.

This change allows for loan disbursements prior to the final NYSERDA completion paperwork for incentives which also requires the Sign-off/inter-connection letter from utility company or acceptable documentation as outlined in the program manual.



To take part in this process:

Please make sure your project has been approved by NYSERDA and that you have received your GJGNY award letter and that the loan information is correct (**we cannot change the loan amount after EFS has created the loan documents**). You will need to verify that the approved system in Power Clerk has not changed. If there are changes, a change order must be submitted and approved prior to requesting GJGNY loan disbursements.

Please send only the Electrical Inspection Certificate, using the following naming convention: Electrical Inspection, (4 digit installer # + Application #) - Name of Customer (Example. Electrical Inspection – 4000-29000, John Smith) and send to appropriate mail box.

PVForms@nyserda.ny.gov or PVFormsLI@pseg.com

Once received and approved, status will change from “Approved” to “Approved - GJGNY Payment” in Power Clerk.

As a reminder you will need to send in your incentive requests as usual. **There is no change to the requirements for the incentive requests.** Incentive requests must be e-mailed to the appropriate inbox: PVForms@nyserda.ny.gov or PVFormsLI@pseg.com

Application Reminder

If a site has multiple utility meters and you are directly interconnecting a PV system on each of them, please submit a separate project application for each system. For example, a customer lives on the first story of their home, and rents out the second story to a tenant. Each unit has a separate electric meter and utility account. If you are installing a PV system on each utility meter, you will need to submit one application to NYSERDA for each of the two PV systems.

General Time Frames – What to Expect

We receive hundreds of applications, incentive requests and change requests daily. We work diligently to provide updates in a timely fashion. Currently processing time is typically 4 weeks for all types of submissions. Please be patient and please make sure to check Power clerk to verify status prior to following up requesting status if you believe there is a delay.

MW Block Counter

We have made a change to the look of the counter which displays the blocks to proportion of capacity for quick and easier viewing. If you have not visited the counter lately, we encourage you to visit!

And – so far in 2015, the >200kW program has installed over 98.8MWs!

Coming Soon! We are in the process building a on-line platform which will track and update the number of MW's installed in each block on the website.

Which brings us to the last item to discuss under operations.

All forms and resources are located on the NY-Sun website. If you click on the “For Installers” tab and go to Forms/Manuals/Tools (<http://ny-sun.ny.gov/For-Installers/Forms-Manuals-Tools>) you will find all the necessary forms to apply to the program as a contractor as well as all forms pertinent to the application process from start to finish.

Link to website: <http://ny-sun.ny.gov/>

Design Review and Technical Assistance

Approved Shading Tools:

The NY-Sun Residential/Small Commercial Program is now accepting three new shading tools for use in the program. Each of these tools uses remote imaging to create 3-D models of the project site, and can give you a roof's shading losses and TSRF without physically climbing up on the roof.

1. Solar Census uses lidar mapping to create 3-D maps of sections of the state. Currently, Solar Census offers shading information for only Staten Island and the Greater Albany Area. <http://www.solarcensus.com/>
2. Bright Harvest uses satellite imaging to create a 3-D model of a project site on a case-by-case basis. <https://www.brightharvestsolar.com/>
3. Lightmile is a proprietary shading tool developed by SunRun. SunRun partner installers are welcome to submit Lightmile reports as part of their NY-Sun project applications.

Contractors can also continue to submit shading reports from Solmetric Suneye, Solar Pathfinder, or Wiley ASSET. If you have another shading tool that you would like us to evaluate for use in the program, please contact Luke Forster at luke.forster@nyserda.ny.gov.

Upcoming New Code Issues:

With the start of the new code cycle anticipated for adoption in January 2016 we will be addressing some of the issues each month.

690.12 Rapid Shutdown of PV Systems on Buildings PV system circuits installed on or in buildings shall include a rapid shutdown function that controls specific conductors in accordance with 690.12(1) through (5) as follows. (1) Requirements for controlled conductors shall apply only to PV system conductors of more than 1.5 m (5 ft) in length inside a building, or more than 3 m (10 ft) from a PV array. (2) Controlled conductors shall be limited to not more than 30 volts and 240 volt-amperes within 10 seconds of rapid shutdown initiation. (3) Voltage and power shall be measured between any two conductors and between any conductor and ground. (4) The rapid shutdown initiation methods shall be labeled in accordance with 690.56(C). (5) Equipment that performs the rapid shutdown shall be listed and identified.

First responders must contend with elements of a PV system that remain energized after the service disconnect is opened. This rapid shutdown requirement provides a zone outside of which the potential for shock has been mitigated. Conductors more than 5 feet inside a building or more than 10 feet from an array will be limited to a maximum of 30 V and 240 VA within 10 seconds of activation of shutdown. Ten seconds allows time for any dc capacitor banks to discharge. Methods and designs for achieving proper rapid shutdown are not addressed by the NEC but instead are addressed in the product standards for this type of equipment.

CDG Update

The webinar slides and audio recording are now available on the NY-Sun website. <http://ny-sun.ny.gov/About/Stakeholder-Meetings>

Commercial/Industrial (>200kW) Program Updates

1. As of June 2015 incentives can be assigned to whomever you choose but only at the time of application. There is a assignment form that needs to be completed, signed, and submitted with the PowerClerk application. This will be built into PowerClerk in the near future. If you need this form please contact Maureen.leddy@nyserda.ny.gov.

2. When applying please remember to include the utility's preliminary response to the interconnection application. This response will indicate if a CESIR is required for the project
3. Also, please remember to indicate the lead agency that will make the determination of significance under SEQRA. Please request that the local jurisdiction take SEQR lead. If they all opt to not take lead then NYSERDA will take lead, but NYSERDA will need proof that you provided all AHJs the opportunity to be lead agency.
4. Funding is available for NYPA customers.
5. The first of the semi-annual stakeholder meetings has been scheduled for October 26, 2015. An email with participation details will be sent to the Commercial/Industrial Program Stakeholders email list shortly

Questions from Installers

Solar Thermal – PON 2149

Month to Date Budget Status

In July the program received 61 projects, totaling \$1,570,115 in funding.

In August there were 39 projects received, totaling \$648,650 in funding.

To date in September there have been 12 projects received, totaling \$261,878 in funding.

The program does not currently have RGGI funding available for projects that do not offset electrically-heated hot water. We have completely expended our RPS annual budget of \$4.3M. At this time we are able to fund additional electric-offset projects using a funding pool shared among other NYSERDA programs.

All solar thermal collectors must be certified as meeting all applicable standards of the Solar Rating and Certification Corporation and be included in the eligible list found on Powerclerk. It is the manufacturer's responsibility to ensure that the most recent information is available in Powerclerk. You can do so by contacting Marci Brunner at marci.brunner@nyserda.ny.gov to request to have a manual update.

Design Review and Technical Assistance

Shading reports must be taken from the array of the solar thermal collectors. Do not submit shading reports taken from the ground if you are installing a roof-mounted system.

System sizing is very important. One crucial factor in system sizing is determining how many gallons per day a site uses. For all non-residential applications, we require that you submit a calculation or explanation of how many gallons of hot water per day the site uses. This is a significant factor in calculating how much thermal energy your ST system will offset.

Questions from Installers

Contact Information

Participating contractors are encouraged to use the NY-SUN Staff Directory when asking questions relating to the program. This is especially important when you have a time sensitive request. NY-Sun contractors should avoid using the General Inquires email or toll free numbers.

NY-SUN DIRECTORY			
Director	David Sandbank	518-862-1090 Ext 3104	David.Sandbank@nyserda.ny.gov
Office Admin	Maryfrancis Keegan	518-862-1090 Ext 3523	Mary.Keegan@nyserda.ny.gov
Systems Above 200 kW			
	Alison Neligan	518-862-1090 Ext 3397	Alison.Neligan@nyserda.ny.gov
	Maureen Leddy	518-862-1090 Ext 3318	Maureen.Leddy@nyserda.ny.gov
	Lillie Ghobrial	518-862-1090 Ext 3093	Lillie.Ghobrial@nyserda.ny.gov
Systems 200 kW and below and Solar Thermal			
Technical Assistance	Frank Mace	518-862-1090 Ext 3433	Frank.Mace@nyserad.ny.gov
Power Clerk and Contracts	Marci Brunner	518-862-1090 Ext 3415	Marci.Brunner@nyserda.ny.gov
Installer/Contractor/Application Intake	Leslie Polsinello	518-862-1090 Ext 3473	Leslie.Polsinello@nyserda.ny.gov
Technical Assistance	Luke Forster	518-862-1090 Ext 3495	Luke.Forster@nyserda.ny.gov

Incentive Requests	Jason Mangione	518-862-1090 Ext 3482	Jason.Mangione@nyserda.ny.gov
PSEG-LI Staff			
Systems 200kW and below on Long Island			
Manager, Renewable Programs	Robert Boerner	516-408-8328	Robert.Boerner@pseg.com
Lead Analyst, Solar/Wind Programs	Jennifer Rommel	631-844-3835	Jennifer.Rommel@pseg.com
Tech Support/Lead Engineer	Elaine Akley	631-844-3746	Elaine.Akley@pseg.com
Process Lead, Energy Efficiency Support Services	Stacey Wagner	631-844-3508	Stacey.Wagner@pseg.com
Rebate Processing Lead	Linda Cavalluzzi	631-844-3504	Linda.Cavalluzzi@pseg.com
Community Solar			
Program Manager	Max Joel	212-971-5342 ext 3035	Max.Joel@nyserda.ny.gov
	Lisabeth Tremblay	212-971-5342 ext 3632	Lisabeth.Tremblay@nyserda.ny.gov
QA/QC Staff			
Program Manager	Kim Lenihan	518-862-1090 Ext 3410	Kimberly.Lenihan@nyserda.ny.gov
QA Project Manager	Brian Atchinson	518-862-1090 Ext 3382	Brian.Atchinson@nyserda.ny.gov

General Inquiries not NY Sun specific

- Email: info@nyserda.ny.gov
- Phone: 518-862-1090 or 1-866-NYSERDA (Toll free)
- Fax: 518-862-1091
- Hours: 8:30 a.m. - 5:00 p.m., Monday through Friday

Next Call The next conference call we be held on October 8, 2015 at 9:00am. An agenda will be sent out in advance of the call.

About NY-Sun

NY-Sun, a dynamic public-private partnership, will drive growth in the solar industry and make solar technology more affordable for all New Yorkers. NY-Sun brings together and expands existing programs administered by the New York State Energy Research and Development Authority (NYSERDA), Long Island Power Authority (LIPA), PSEG Long Island, and the New York Power Authority (NYPA), to ensure a coordinated, well-supported solar energy expansion plan and a transition to a sustainable, self-sufficient solar industry. To learn more about NY-Sun, visit ny-sun.ny.gov

New York State Energy Research and Development Authority
866-NYSERDA | nyserda.ny.gov

NEW YORK STATE HISTORIC HOMEOWNERSHIP REHABILITATION TAX CREDIT PROGRAM

HELP FOR HOMEOWNERS

If you own a house that is listed on the State and National Registers of Historic Places individually or is contributing to a listed historic district and located in an eligible census tract, you may qualify for a state historic rehabilitation tax credit equal to 20% of the repair costs.

TO APPLY:

- You must own and live in the house.
- The repair costs must exceed \$5,000 and you must spend at least 5% on exterior work.
- All the work must be approved by the Division for Historic Preservation before you begin.

A wide range of work items are eligible, including the repair of walls, floors, chimneys, doors and windows as well as new roofs, mechanical systems, electrical wiring and plumbing. The credit does not cover work outside the house, such as landscaping, fencing and new additions.

For tax credit information, applications and assistance, visit nysparks.com/shpo/tax-credit-programs or call 518-237-8643.

GENERAL GUIDELINES

Take photographs inside and outside your house to show its condition.

Exterior and interior work is eligible and you can undertake a variety of repairs and/or replacements as long as the work does not significantly change your house's overall historic appearance, including but not limited to:

- Structural systems, including foundations, floor joists and ceiling and attic rafters.
- Roofs, including roof coverings, rafters, fascia, soffits, gutters and downspouts.
- Interior work, including floors, walls, stairs, ceilings and trim around windows and doors.
- Utility systems, including heating, ventilation, air conditioning, electrical and plumbing systems as well as fire safety and security systems.
- Windows and doors, including glass, frames, shutters, hardware and storm windows.
- Exterior walls, cornices, porches and foundations, including siding, dormers, brackets, columns, railings, stairs, window and door trim, concrete or masonry walls and chimneys.
- Weatherproofing, including caulking, weather-stripping and some insulation upgrades.



New York State Historic Preservation Office
Division for Historic Preservation
nysparks.com/shpo



Parks, Recreation
and Historic Preservation

FREQUENTLY ASKED QUESTIONS

If I want to apply for the credit, what should I do?

For more information and for an application, visit nysparks.com/shpo/tax-credit-programs or call 518-237-8643.

How do I know if my house is eligible?

Call 518-237-8643 for State and National Registers program assistance.

Can I make my house more energy efficient?

Yes. As long as the work does not alter the house's overall historic appearance. For more information, see the Weatherization Tool Kit on the division's website at nysparks.com/shpo/.

Can I replace my old windows?

Window replacement is an eligible expense if existing windows are not historic or cannot be repaired due to severe deterioration. You must provide photographs of the windows to show their condition and the proposed replacements must be approved by the division. Vinyl or vinyl clad windows are generally not acceptable. Existing windows can be made more energy efficient with proper repair, including the installation of weather stripping and interior or exterior storm windows. For more information, see the Weatherization Tool Kit at nysparks.com/shpo/.

Can I install vinyl siding on my house?

Replacing repairable historic material is never recommended; however, if the historic material cannot be repaired because of the extent of the damage, we recommend that the material is replaced in-kind. The use of modern materials over existing wood siding may lead to future moisture damage to the structure and diminishes the historic appearance of the building. For more information, see Preservation Brief #8: Aluminum and Vinyl Siding on Historic Buildings at nps.gov/tps/how-to-preserve/briefs.htm.

Can I use the credit if I have a rental unit in my house?

Only the work associated with the homeowner-occupied portion of the house is eligible. There are other historic preservation tax incentives for income-producing properties. For assistance, call 518-237-8643.

When can I take the tax credit?

This state income tax credit is taken in the year that the owner receives a Certification of Completion from the Division for Historic Preservation; the certificate is issued when work is completed and Part 3 of the tax credit application is submitted and approved.

What if I am unable to use all of the credit?

The credit can be carried over to subsequent years until it is used. If your household adjusted gross income is below \$60,000, the unused credit can be taken as a refund.