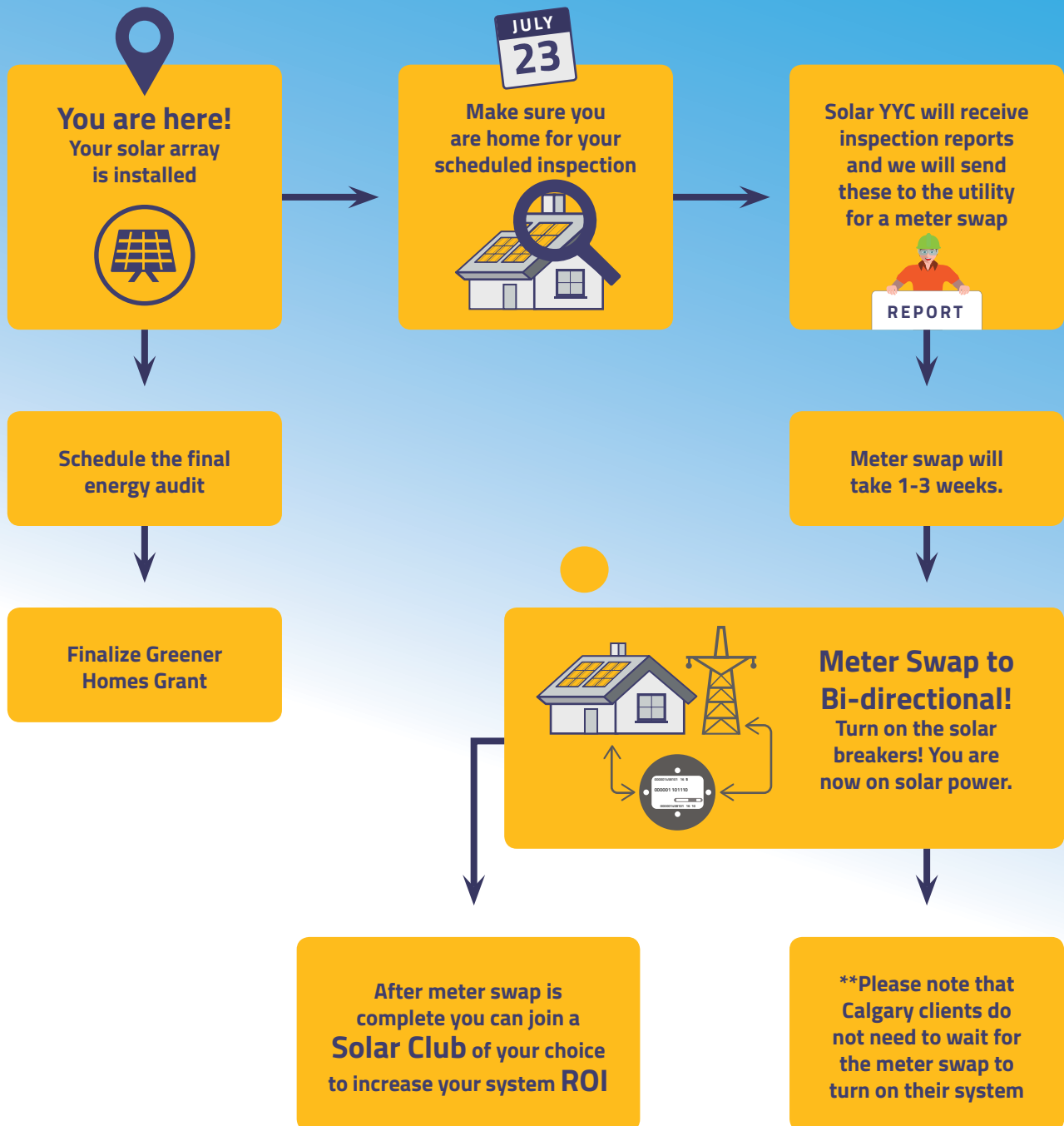


# OWNER'S MANUAL

 **587 296 7375**  
 **[www.solaryyc.ca](http://www.solaryyc.ca)**



Monitoring access info  
is on the next page

# MONITORING SIGN-IN INFO

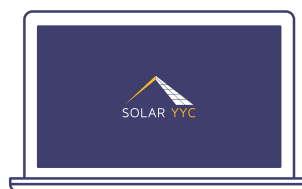
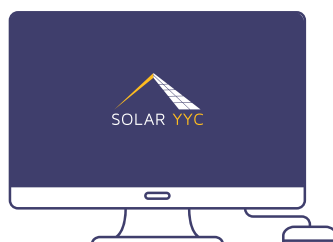
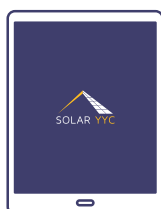
SOLAR YYC

**PROJECT  
START  
PACKAGE**

|                       |   |
|-----------------------|---|
| <b>Inverter</b>       | APSystems   |
| <b>Website</b>        | <a href="https://apsystemsema.com/ema/index.action">https://apsystemsema.com/ema/index.action</a> |
| <b>Mobile App</b>     | by APSystems  |
| <b>Login Username</b> |   |
| <b>Login Password</b> | solaryyc1   |



<https://www.youtube.com/watch?v=vbZAse3d4KM>



# UNDERSTANDING AC-DC WATTAGE

SOLAR YYC

PROJECT  
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PACKAGE

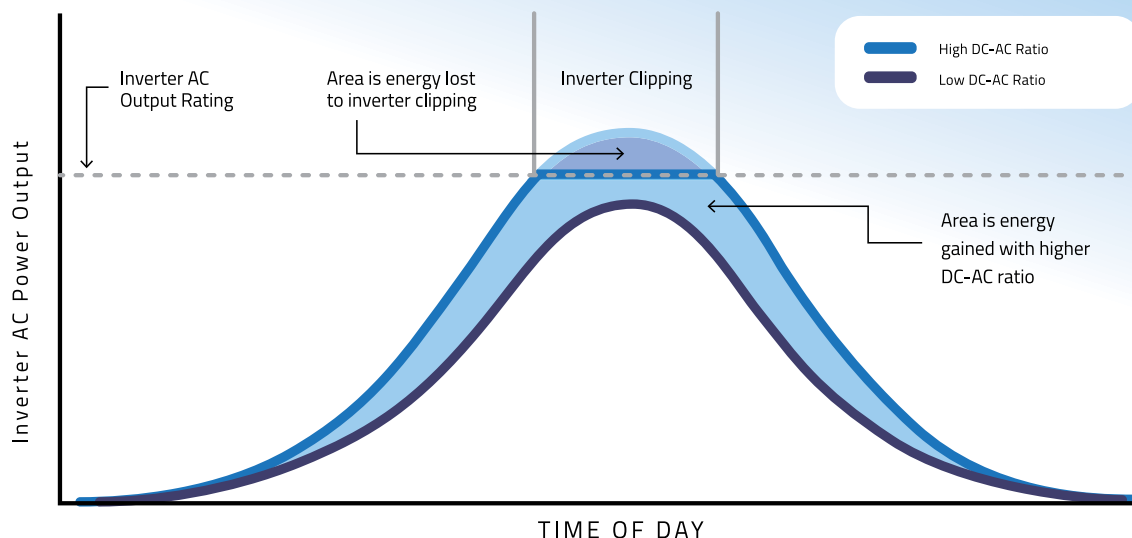
Solar quotes are always given in DC wattage (potential of your solar panel). AC wattage is the potential of your inverter and what you will see on your monitoring platform.

*DC is almost always larger than AC. This is called "inverter clipping" and is best practice.  
Oversizing DC will:*

**1** ■ IMPROVE PERFORMANCE

**2** ■ DECREASE COSTS

\*Please note that the peak output for APSystems QS1 and YC600 is 335 watts (for around 2 or 3 hours).



*For residential solar we aim towards a 1.15-1.2 ratio.  
For commercial solar or ground mount solar we aim for a 1.2-1.4 ratio.  
For more info Google "inverter clipping".*

# UNDERSTANDING YOUR BILL

SOLAR YYC

PROJECT  
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PACKAGE

Most of your solar electricity will go towards powering your property. Only when the property has enough solar power will it send the excess to the meter - where it will be counted as an Export Credit.

Therefore to understand your true savings you can do 2 things:

1. Figure out your total kWh production/ month in the monitoring portal and the subtract export kWh you see on your bill to find what you used "in-house".

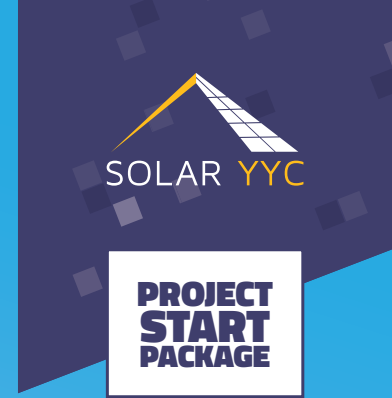
2. Compare a pre-solar bill of the same month to a post-solar bill. Please note that consumption may vary so this method isn't as accurate.

Below is a graph to help with understanding of how solar interacts with your bills. Please note that rates will probably be different.

## ILLUSTRATIVE DIAGRAM FOR A SMALL MICRO-GENERATION GENERATING UNIT



# AFTER INSTALL MAINTENANCE



## General Maintenance

Solar panels are generally “set-and-forget.” Washing or maintenance is not required as seasonal rain or snow will wash away any dirt or buildup.

Special instances where you would need maintenance:

**1** ■ **Build-up of tree leaves in fall:** If large amounts of tree leaves build up over your panels and are not washed away by wind or rain, then maintenance will be needed to remove the leaves.

**2** ■ **Excessive bird droppings:** Bird droppings may not wash away with rain. If you notice excessive bird droppings, you may need to clean the solar panels.

**3** ■ **Critters:** Critters such as pigeons or squirrels may start to roost under your panels. If you notice this please reach out for a Critter Guard quote

## Safety

- Do not climb on roof

## Product Use

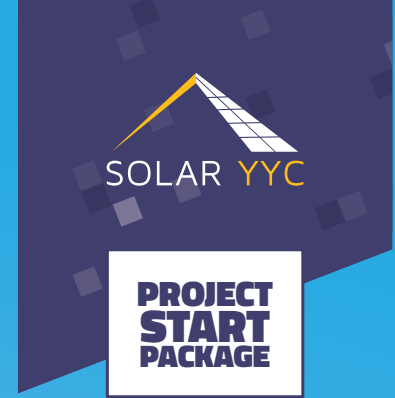
- Only use light or non-abrasive cleaning products; Ammonia or bleach products should not be used.
- A mix of vinegar, dish soap, and water is recommended.

## Maintenance for Snow

Your annual production is calculated assuming your panels will be covered with snow for at least 5 months out of the year. Snow should be left to melt naturally as the labor, time, and equipment required for removal are not worth the amount you will save in production. Let it snow and ignore your production during these months.

If you are keen to remove the snow, please avoid climbing on roofs in the winter. Instead, get a large extendable squeegee to push away the snow. Always prioritize safety and watch out for children or animals when pushing large amounts of snow.

# AFTER INSTALL FAQ



## WHAT HAPPENS AFTER MY INSTALL?

After your installation is completed we will send you a close-out document within 1 business day which includes your monitoring information. We will book a Town or City inspection at this time as well. You will need to leave your system off after install until you have either passed inspection (Calgary) or meter is swapped (Outside Alberta)

## TWO OR MORE OF MY PANELS ARE NOT WORKING. WHAT SHOULD I DO?

Inverters can show 0 for a few reasons including network issues and stagnant inverters. Please reach out to us if this occurs and we will fix the problem within 30 days. If there is snow on your panels and you are getting 0 production please wait until the snow has melted to reach out.

## HOW COME MY OUTPUT ISN'T 100%?

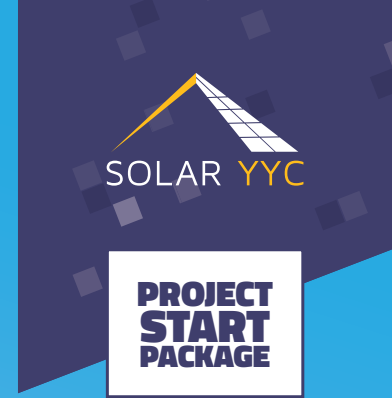
- Your production output will never show 100% on the monitoring app. This is due to 'inverter clipping'. Please see the below article to learn more.

<https://www.acsolarwarehouse.com/news/worried-about-clipping-dont-be/>

## HOW COME I AM NOT RECEIVING CREDITS?

- It takes 2 billing cycles for credit to show up. Please ensure your project has been installed for at least 2 months before checking credits.
- You are only credited when you have extra energy to send back to the grid, you are not credited for the energy you use inhouse. Your homes inhouse usage needs are met first. If there is extra energy left over then you will be credited.

# TROUBLE-SHOOTING



## MONITORING AND NETWORKS

Networks cause the large majority of "issues" with residential solar arrays. Your monitoring may show some panels are down when in fact it is just a missed "handshake" between the comm unit and inverter. Give the monitoring time – if problems persist please contact Solar YYC.

**The array will run regardless of monitoring status.**

## POWER OUTAGES

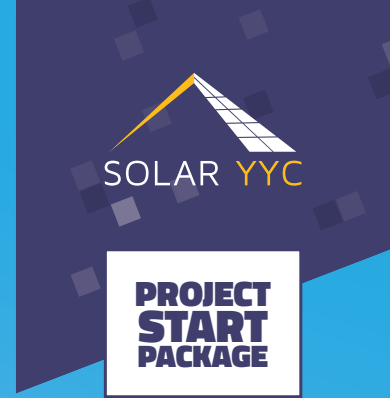
On-grid inverters must shutdown during power outages. This can occasionally trip the breakers in your electrical panel. To reset a breaker properly – fully flip to off position then to the on position.

## WATER DAMAGE

We've never had a leak but it is possible. Please contact us immediately so we can remedy the situation in full.



# ENERGY SAVINGS TIPS!



- Change all lights to LED



- Plug TVs into smart power bars

*(TVs use a lot of electricity even when not turned on)*

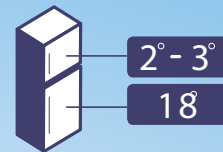


- Unplug infrequently used appliances

*(that second fridge)*



- Ideal fridge temperature is between 2-3 degrees



- Ideal freezer temperature is -18 degrees

- Wash clothes in cold water

*(the detergent does the job not the water temperature)*



- Install a smart thermostat



- Keep that oven door closed



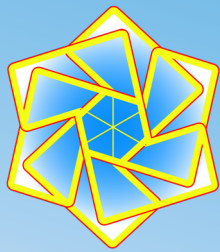
- Install timed bathroom fans



Make the best of your solar investment by  
switching to Foothills Energy Co-op's Solar Club

Visit our landing page or contact Solar YYC for more information  
[www.foothillsenergycoop.ca/SolarYYC.html](http://www.foothillsenergycoop.ca/SolarYYC.html)

# GET MORE FOR YOUR CLEAN ENERGY.



**Solar  
OFFSET**

info@solaroffset.ca  
www.solaroffset.ca

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Curious to  
know more?  
Scan here!



Claim your share of the Alberta carbon offset market.

Solar Offset brings together individual solar and wind system owners to access the Alberta carbon market.



Solar Offset sends you a cheque in the post every year for up to 10 years - two years longer than other programs.

Alberta's TIER Regulation requires large industry to reduce their carbon emissions. If they can't, they can buy offsets from registered projects - like Solar Offset.



Solar Offset sells your offsets and pays you a % of the sales price. This means that as the carbon price rises, you make more.

Solar Offset are carbon experts - having worked in Alberta's carbon markets since they were set up in 2007.



By joining Solar Offset, an 8kW system owner could make between \$3500 and \$4500 in carbon offset payments.

Solar Offset is locally owned and operated and every year we give 10% of our profits to renewables training initiatives for Albertans.



You receive passive income, so once you sign up, and provide your system information, we take it from there!



# EXTENDED CONTRACTOR'S WARRANTY

The contractor signatory below SOLAR YYC Inc. ("Contractor") hereby guarantees

[Redacted] ("Owner") that the construction performed on the structure located at [Redacted] to be free from defects in workmanship for a period of Twenty Five Years from the date of commencement of use, substantial completion or date of notice of completion, whichever is the first to occur: [Redacted] ("Date of Commencement"). The warranty covers associated work and labour costs with replacing defective parts.

**This Extended Contractor's Warranty provides the home owner with the following:**

- 1** Extended Contractor Warranty is transferrable to new owners.
- 2** Labour costs associated to the repairs, replacements or corrections of defective construction at no cost to owner.
- 3** Labour costs associated to the repairs, replacements or corrections of defective equipment at no cost to owner.
- 4** Material costs associated with the replacement of defective manufacturers equipment is subject to manufacturers warranty.

## **Terms and Conditions:**

1. Solar YYC shall be given first opportunity to make any repairs, replacements or corrections to the defective construction at no cost to owner within a reasonable period of time.
2. Construction work has not been subject to accident, misuse or abuse.
3. Construction work has not been modified, altered, defaced, or had unauthorized repairs made or attempted by others.
4. Solar YYC is notified in writing within twenty (20) days of first knowledge of defect by owner or his their agent.
5. Under no circumstances shall contractor Solar YYC be liable by virtue of this warranty or otherwise for damage to any person or property whatsoever for any special, indirect, secondary or consequential damages of any nature however arising out of the use or inability to use because of the construction defect.

**Alex Tyndale**  
p r e s i d e n t

Solar YYC Inc.  
3915 8 St SE  
Calgary, AB  
T2G 3A5



## GOOGLE REVIEW

**We want to hear from you!**

If we did a good job please take 2 minutes to  
leave us a short review on Google.

If there was room for improvement we want to know! Please leave us  
a review and we will do our best to ensure we remedy the situation.



## REFERRALS

Were you please with our service?


Do you know someone who wants to Go Solar?

## WE OFFER A REFERRAL FEE!

Referrals towards residential clients receive a flat  
fee of **\$400** for any completed installation.

Referrals towards other types of clients are on a  
case by case basis, please contact us!



 3915 8 St SE  
Calgary, AB  
T2G 3A5

 587 296 7375

 [pm@solaryyc.ca](mailto:pm@solaryyc.ca)

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 [www.solaryyc.ca](http://www.solaryyc.ca)