



# Execon Solar

Excellent Construction

[www.execonconstruction.com](http://www.execonconstruction.com)





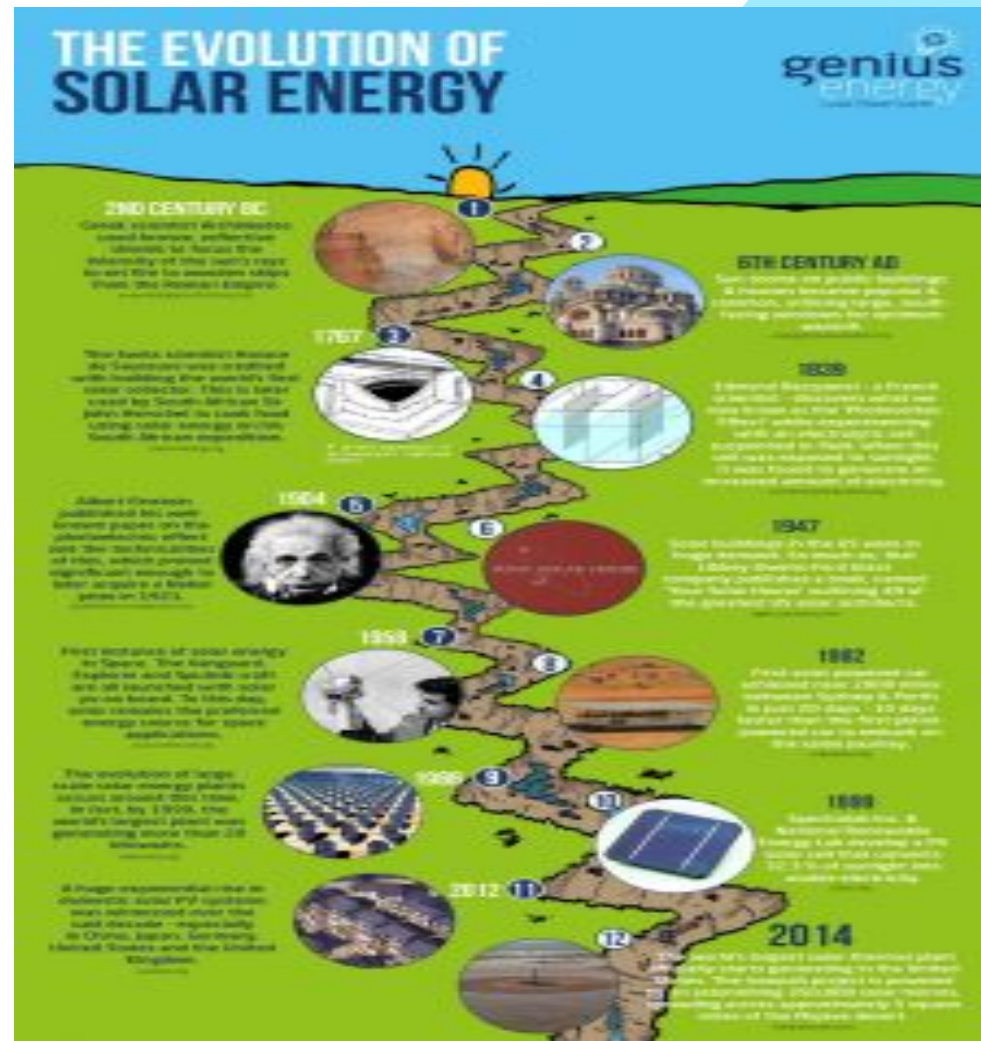
DID YOU KNOW...

**Solar energy is the most abundant energy resource on earth -- 173,000 terawatts of solar energy strikes the Earth continuously. That's more than 10,000 times the world's total energy use.**

VIA [ENERGY.GOV](http://ENERGY.GOV)

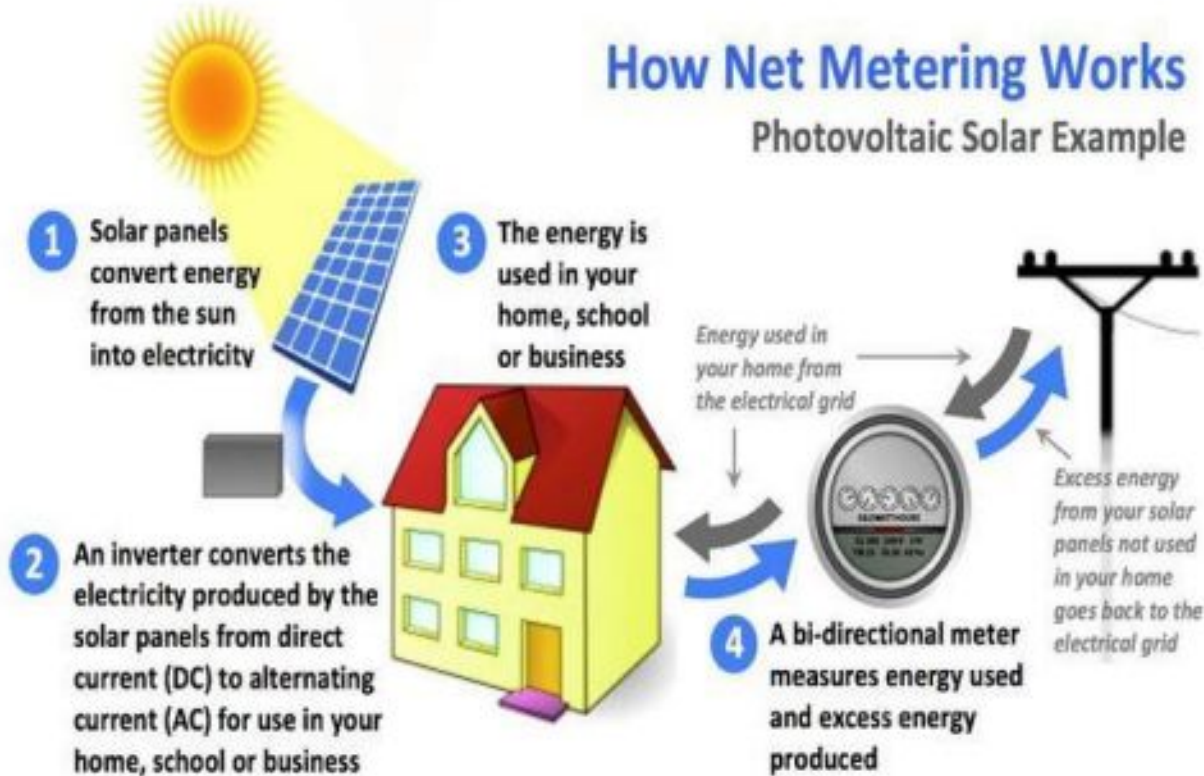
# Proven Technology

The best day to plant a tree was thirty years ago. The second best day is today.



## How Net Metering Works

### Photovoltaic Solar Example

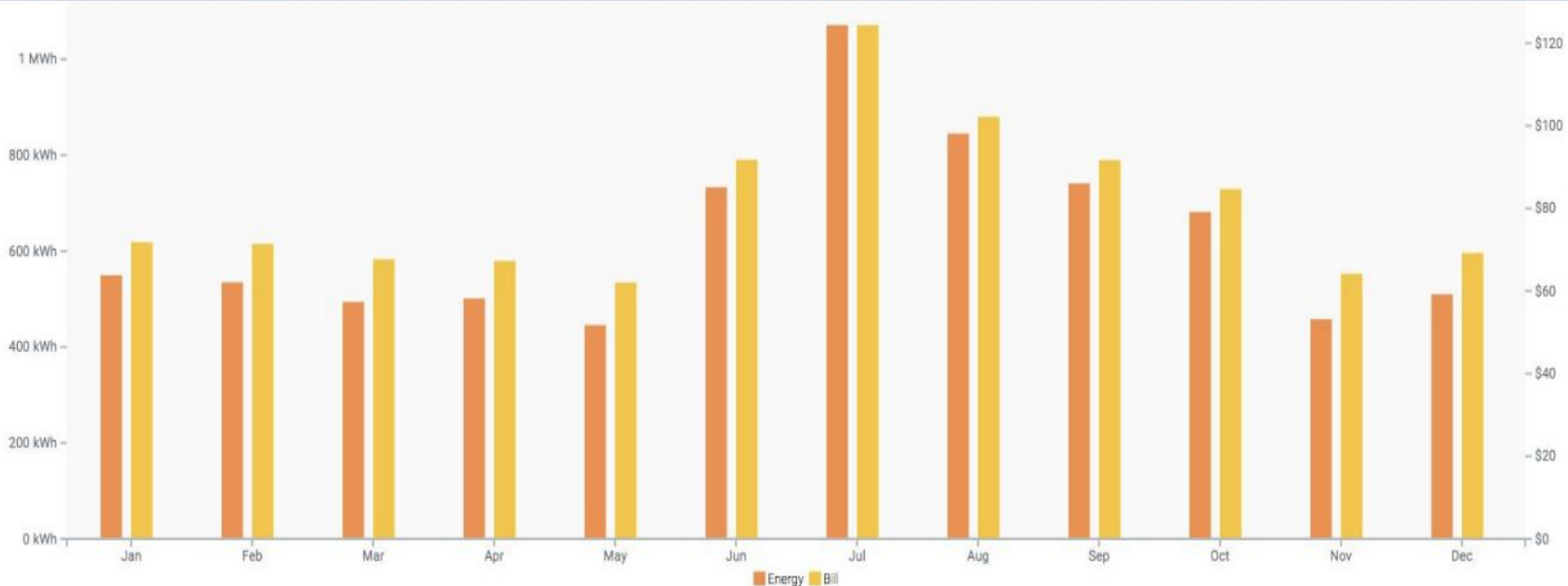


# Prosumer



Service For • Service pour	
[REDACTED]	
Account Number • Numéro de compte	
[REDACTED]	
Meter Number • Numéro de compteur	
[REDACTED]	
Meter Reading (current) Relevé de compteur (actuel)	16464.05
Meter Reading (previous) Relevé de compteur (précédent)	15838.35
kWh Consumption Consommation en kWh	625.70

Account History / Relevé de compte						
Reading Date Date du relevé	kWh kWh	# Days # jours	Average/Moyenne			
			On-Peak Période de pointe	Off-Peak Période creuse	Mid Peak Période médiane	kWh/Day kWh/jour
2020-08-11	625.70	31	3.08	14.70	2.40	20.18
2020-07-11	586.52	30	3.30	13.43	2.82	19.55
2020-06-11	464.17	31	2.80	9.47	2.71	14.97
2020-05-11	497.12	30	3.41	9.44	3.73	16.57
2020-04-11	443.77	31	2.62	9.20	2.49	14.32
2020-03-11	415.61	30	2.42	9.42	2.01	13.85
2020-02-10	413.04	31	2.42	9.05	1.86	13.32
2020-01-10	430.13	30	2.50	9.07	2.77	14.34
2019-12-11	380.91	28	2.84	8.89	1.87	13.60
2019-11-13	425.31	33	1.80	9.20	1.89	12.89
2019-10-11	413.52	30	1.59	9.77	2.42	13.78

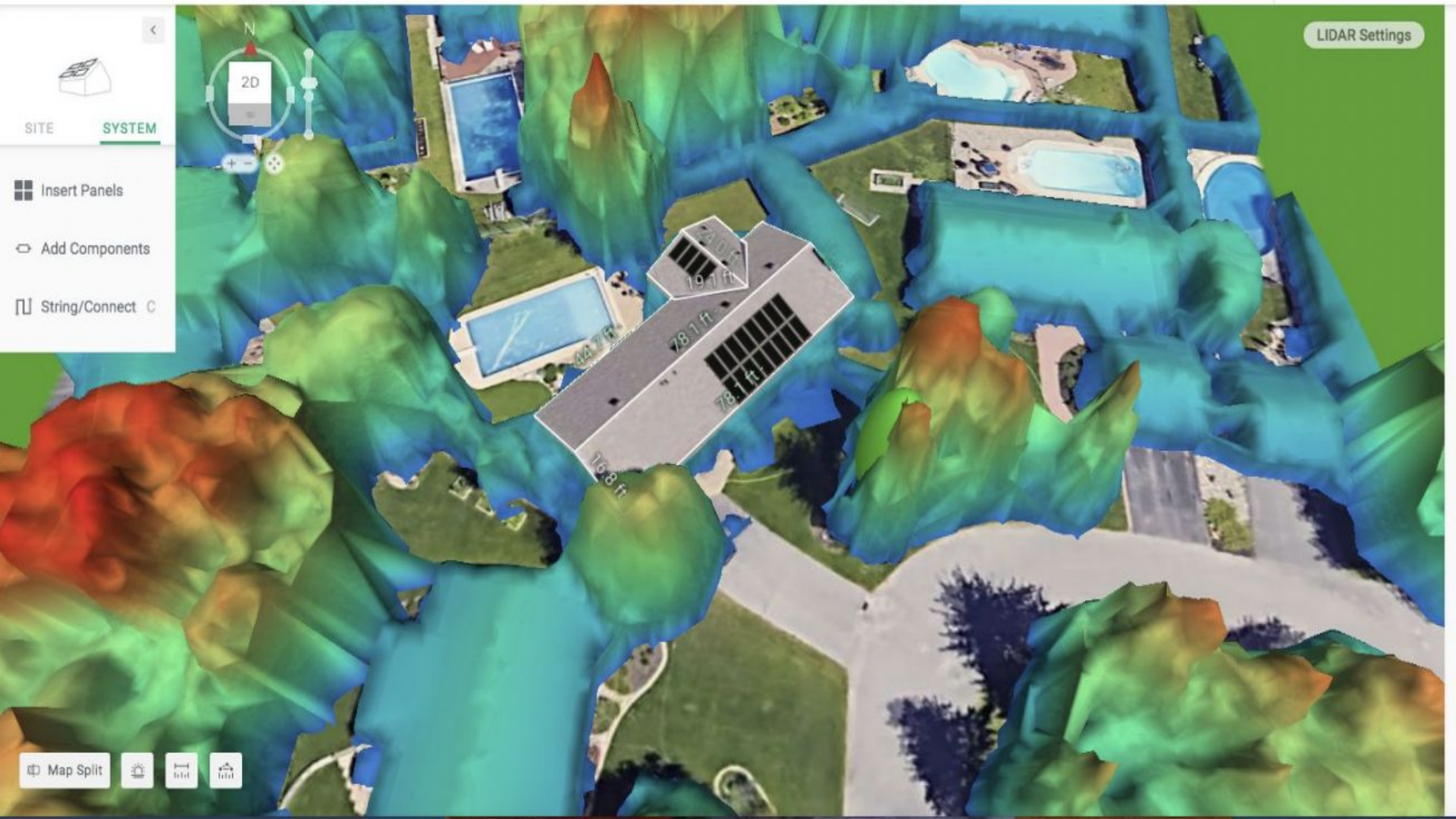
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2,450 or more  
2,100  
1,750  
1,400  
1,050  
700  
350  
0

Array	Panel Count	Azimuth (deg.)	Pitch (deg.)	Annual TOF (%)	Annual Solar Access (%)	Annual TSPF (%)
1	16	135	20	94	96	90
2	4	225	20	93	99	92
Weighted average by panel count	-	-	-	-	96.4	90.4

[illegible]





SITE SYSTEM

Insert Panels

Add Components

String/Connect

Map Split

LIDAR Settings









6471



Industry Collaboration





Government Collaboration



Natural Resources  
Canada

Ressources naturelles  
Canada

## PLANNING & DECISION GUIDE FOR SOLAR PV SYSTEMS

Procedure for Solar Designers, Builders and their Design Teams  
to Quickly Define Solar PV Requirements



Developed by Natural Resources Canada's  
Local Energy Efficiency Partnerships (LEEP) team.

[NRCan.LEEPRNCan@Canada.ca](mailto:NRCan.LEEPRNCan@Canada.ca)

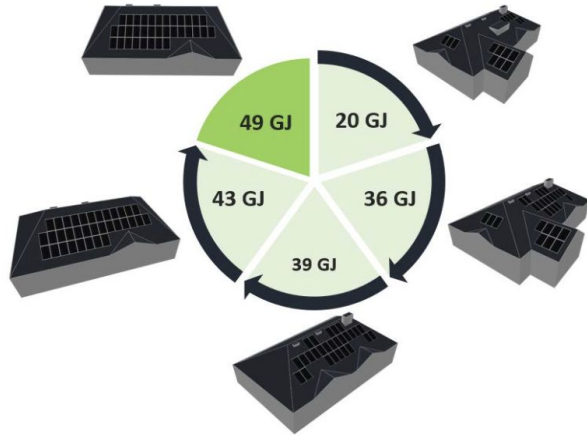
**CanmetENERGY**  
Leadership in ecoInnovation

Canada



# Photovoltaics in the Net Zero Program: Role of the Energy Advisor

- Net Zero vs Net Zero Ready & Solar Ready vs PV Ready
- Importance of PV Design: the Energy “Budget”
- Net Zero EAs serve as the conduit between builders/renovators & PV professionals



Annual Electrical Energy Use: **9000 kWh/year** based on HOT2000

# Net Zero PV Sizing

Available Roof Sections	West	East	South
Size Available (kWp)	12	9.3	No space
Generation (kWh/kWp/yr)	890	890	1020
Annual production (kWh/yr)	<b>10,200</b>	<b>8,300</b>	N/A

## West



## East



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Natural Resources  
Canada

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Canada

Canada





**Notes:**



## Component List

Manufacturer	Model	Quantity
Hanwha Q-cells	Q.Peak Duo L-G7.2 400W	39
Huawei	SUN2000-375W_USP0 (field specs)	39
Huawei	SUN2000-10KTL-USL0 (240V) (REAL SPECS)	1







SENATE DEMOCRATIC  
**GreenJobs**  
SUMMIT





# A HEALTHY ENVIRONMENT AND A HEALTHY ECONOMY

Canada's strengthened climate plan to create jobs and support people, communities and the planet



Environment and  
Climate Change Canada

Environnement et  
Changement climatique Canada

Canada



## NET-ZERO BY 2050

*The Canadian Net-Zero Emissions Accountability Act (Bill C-12)* will require the Government of Canada to achieve net-zero emission by 2050, and to put in place a rigorous process of interim targets, plans and reporting. It will require the Government of Canada to set targets for each five-year milestone from 2030 to 2050. Emission reduction plans will describe the actions the Government will undertake to meet the target. Progress reports and final assessment reports will update Canadians on the implementation of each plan and the emission reductions they are achieving. If a target is not met, the Government will have to explain the reasons why, and indicate what it will do to change course. In addition to creating an expert advisory body, the Act requires Canada's Commissioner of the Environment and Sustainable Development to examine and report on the Government's progress at least once every five years.



# MADE-IN-CANADA MANUFACTURING

The ability of Canadian industry to pivot quickly in response to a national emergency has been on display since the outset of the COVID-19 pandemic. There has been a remarkable mobilization of resources, on a level not seen since the Second World War. Through the "Made-in-Canada" project, in a matter of months, Canadian manufacturers were able to retool their existing production lines and set up new manufacturing facilities to produce much-needed personal protective equipment and other critical supplies. Canada must leverage the same resourcefulness and ingenuity to produce the cleaner, more sustainable products that the world is looking to buy now and in the future. The Government of Canada will work hand-in-hand with Canadian businesses to make this happen.

# What It Means For Your Home

**Making the Places Canadians Live and Gather More Affordable by Cutting Energy Waste:** Energy-efficient homes and buildings are more comfortable and cost less to power. This plan will make it easier for Canadians to improve the places in which they live and gather – which will cut pollution, make life more affordable and create thousands of good jobs and new careers in construction, technology, manufacturing and sales.

Provide \$2.6 billion over seven years, starting in 2020-21, to help homeowners improve their home energy efficiency by providing up to 700,000 grants of up to \$5,000 to help homeowners make energy-efficient improvements to their homes, up to one million free EnerGuide energy assessments, and support to recruit and train EnerGuide energy auditors to meet increased demand.





# Better Homes Loan Program Proposed

Through an LIC program, municipalities can:

- Enable property owners to improve the comfort and environmental performance of their buildings;
- Target areas in transition or in need of repair, rehabilitation and redevelopment;
- Support appropriate building upgrades through expert advice and oversight;
- Stimulate private investment in property upgrades that reduce energy cost exposure to residents and businesses; and
- Stimulate local job creation in the contractor, trades, and renovation sectors.



# Estimated Project Milestones - Residential

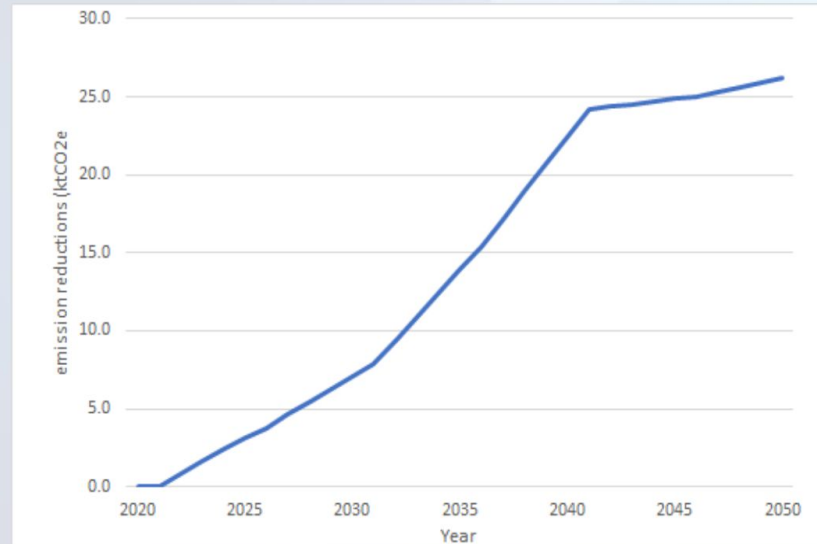
2030:

- retrofit 27% of all residential dwellings to achieve thermal savings of 70% and electrical savings of 30%

2040:

- retrofit 98% of all residential dwellings to achieve thermal savings of 70% and electrical savings of 30%, which is 327,000 single family units and 104,000 units in multi-residential buildings.

# Emissions reductions for residential buildings



# What It Means for Your Home

Receive a loan up to 75k or 10% of the home value for energy efficiency retrofits including solar that will be added to the property identification number and will be on the property tax for that house.

It transfers to the new homeowner if you move. Nothing on Mortgage or HOL. Stop Paying Hydro Ottawa for Electricity. No Rate Increases means fixed monthly costs. Enjoy living in comfort while fighting Climate Change.





# What happens After You Install

## Freedom

Become energy self sufficient, produce your own power, eliminate energy anxiety

## Control

Fix your monthly expenses, spend your money on what you want instead being told what you have to pay on ever increasing monthly bills

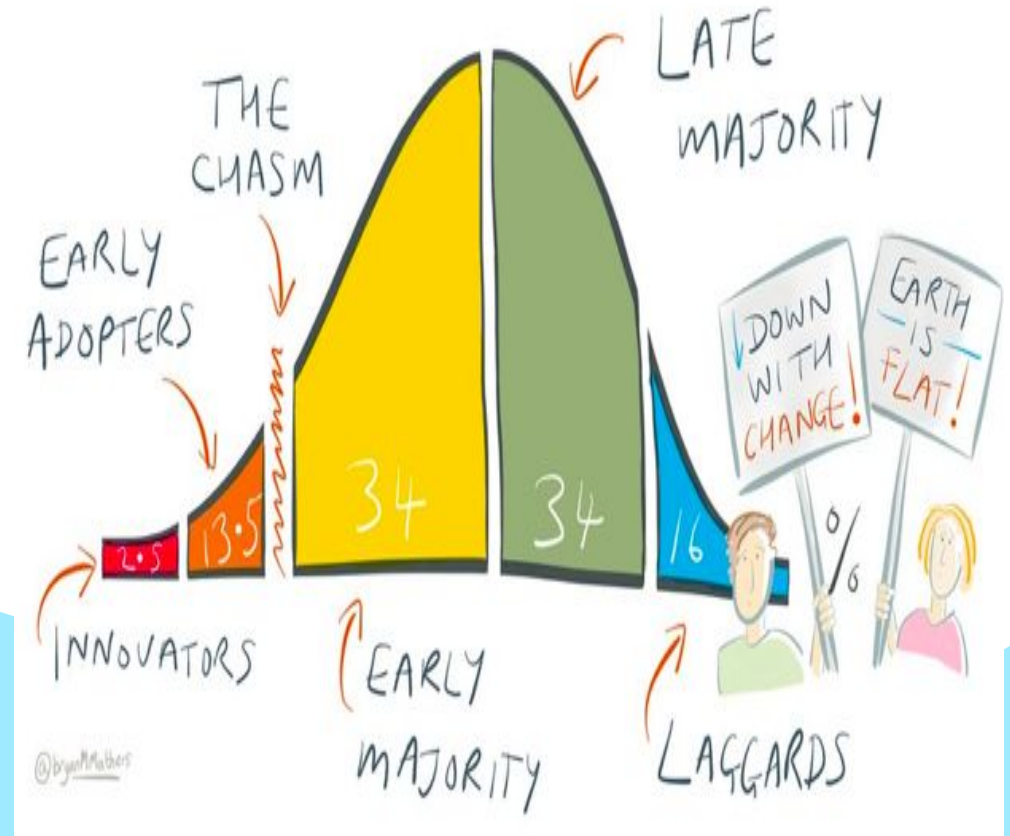
## Peace of Mind

Live right, treat the world right, become a positive example and advocate



# Real Time

During the Pandemic we have been in The Chasm.



# Flat Roof Commercial







[Home](#) [Solar](#) [Roofing](#) [Projects](#) [Contact](#)





Écoles  
catholiques  
Centre-Est

Contact us today

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613-868-7047



Canadian Renewable  
Energy Association  
WIND. SOLAR. STORAGE.

Association canadienne  
de l'énergie renouvelable  
ÉOLIEN. SOLAIRE. STOCKAGE.