

#### **ENERGY NEEDED TO MANUFACTURE A SOLAR CLADDING PANEL**

PANEL SIZE

**GLASS SIZE** 

ALUMINUM HONEYCOMB SIZE

TOTAL THICKNESS

NUMBER OF CELLS

6.5' X 3.25'

6.5' X 3.25' X 1/8"

6.5' X 3.25' X 3/4"

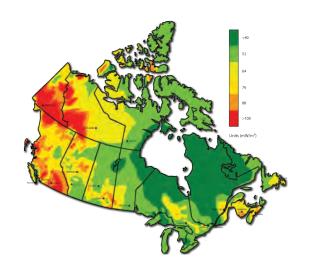
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ITEM	WEIGHT (kg)	% WEIGHT	MJ/kg	kWh	% ENERGY	CARBON (kgCO <sub>2</sub> eq)
Glass	14.92	52%	35	145.02	13%	9.57
Aluminum	9.58	33%	150	399.29	35%	26.35
EVA	1.47	5%	157.5	64.40	6%	4.25
Backsheet	0.74	3%	125	25.56	2%	1.69
Cells	0.72	3%	2000	500.04	43%	33.00
Interconnections	0.72	3%	60	12.00	1%	0.79
Jbox	0.50	2%	4.375	4.29	0%	0.28
			TOTAL	1150.60		75.94

<sup>\*</sup>To calculate carbon, in Ontario it is ~66g per kWh (in this case, 75.94kgCO.) | \*MJ/kg numbers found from 2018 | Retrieved From: https://www.electricitymap.org/zone/CA-ON

### AMOUNT OF SUNLIGHT RECEIVED IN CANADA



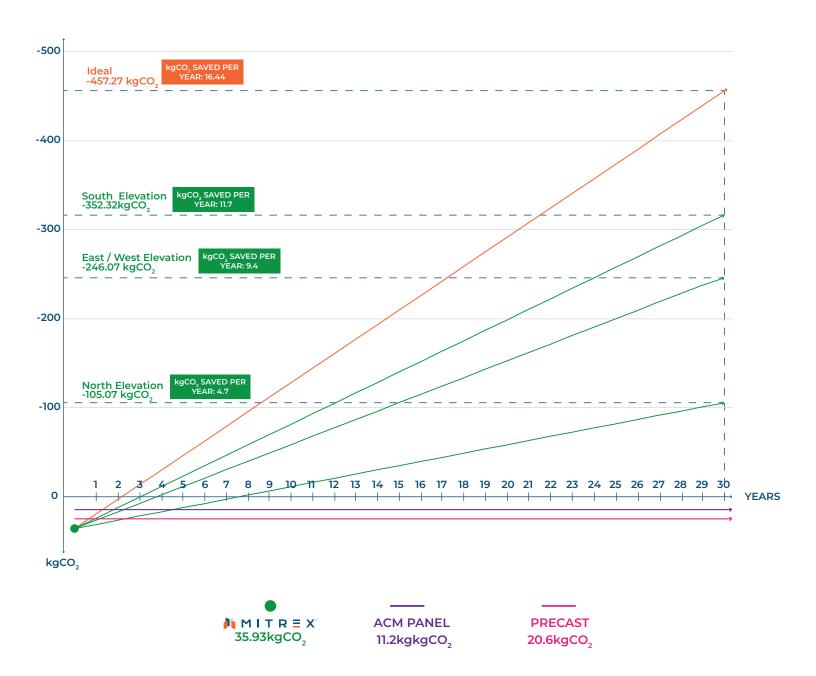
The amount of energy produced depends on the location and orientation of the panel.

## **Energy Production**

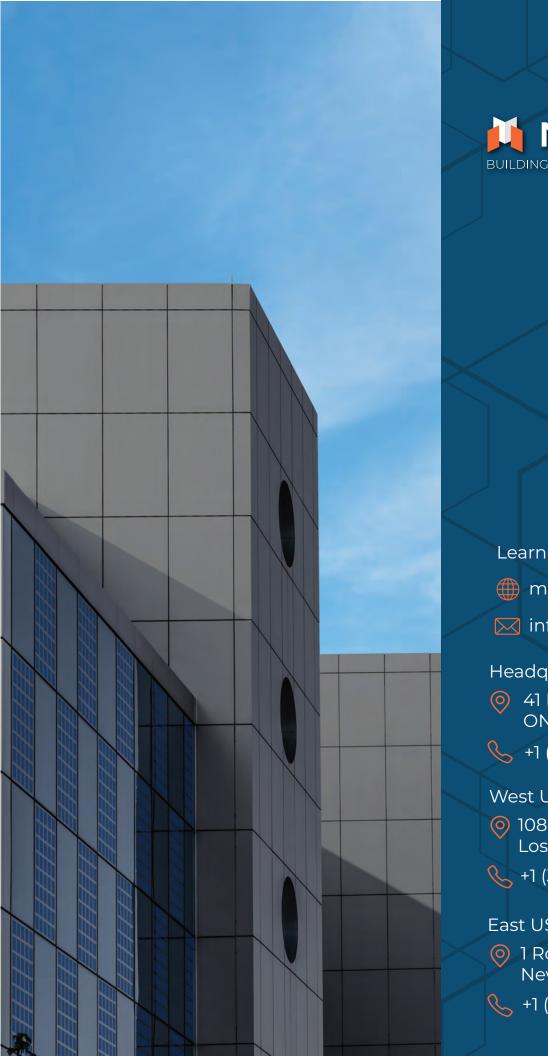
# AVERAGE HOURS OF SUN PER DAY (IN TORONTO) FOR A 2M2 PANEL (M390-A1F)

	HOURS OF SUN PER DAY	kWh / DAY	kWh / YEAR	PAYBACK TIME (YEARS)	CARBON SAVED PER YEAR (kgCO <sub>2</sub> )	CARBON SAVED AFTER 30 YEARS (kgCO <sub>2</sub> eq)
Ideal	3.5	1.44	526.51	2.16	34.75	-966.55
South	2.5	1.03	376.08	3.06	24.82	-744.64
East / West	2	0.82	300.86	3.82	19.86	-595.64
North	1	0.41	150.43	7.65	9.93	-297.85

# Mitrex VS. Competition AMOUNT OF CARBON SAVED OVER 30 YEARS FOR A 1M<sup>2</sup> PANEL



Mitrex solar cladding panels generate enough green energy to offset the carbon needed to produce them, unlike traditional materials. South-facing Mitrex cladding can offset the carbon in 3 years, and remove 744kgCO<sub>2</sub> from the atmosphere in 30 years. On average, Mitrex cladding on all elevations can offset carbon in 4.5 years and remove 557.75kgCO<sub>2</sub> in 30 years.





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