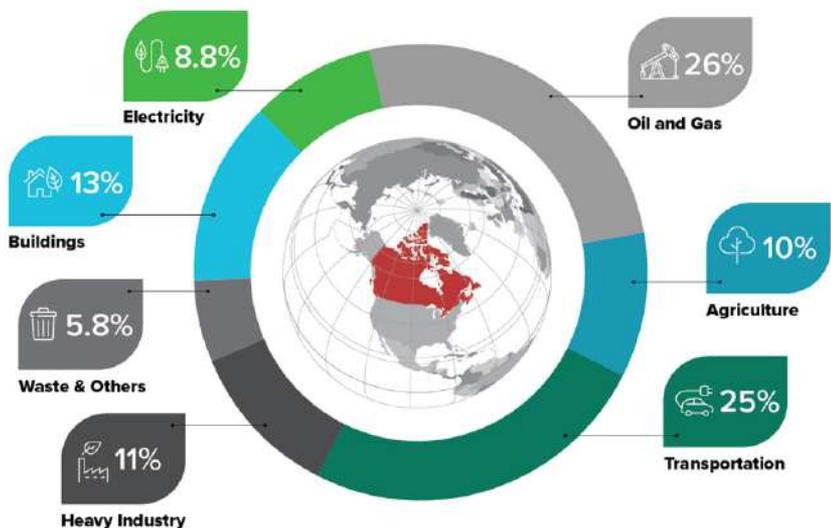




MITREX™
CLADDING & RAILING

OCTOBER 2020

IMPORTANCE OF GREEN ENERGY IN CANADA'S BUILDING SECTOR



Canada's buildings emitted nearly **13%** of the country's total greenhouse gas emissions. **Future buildings must be built in a way that mitigates this number.**



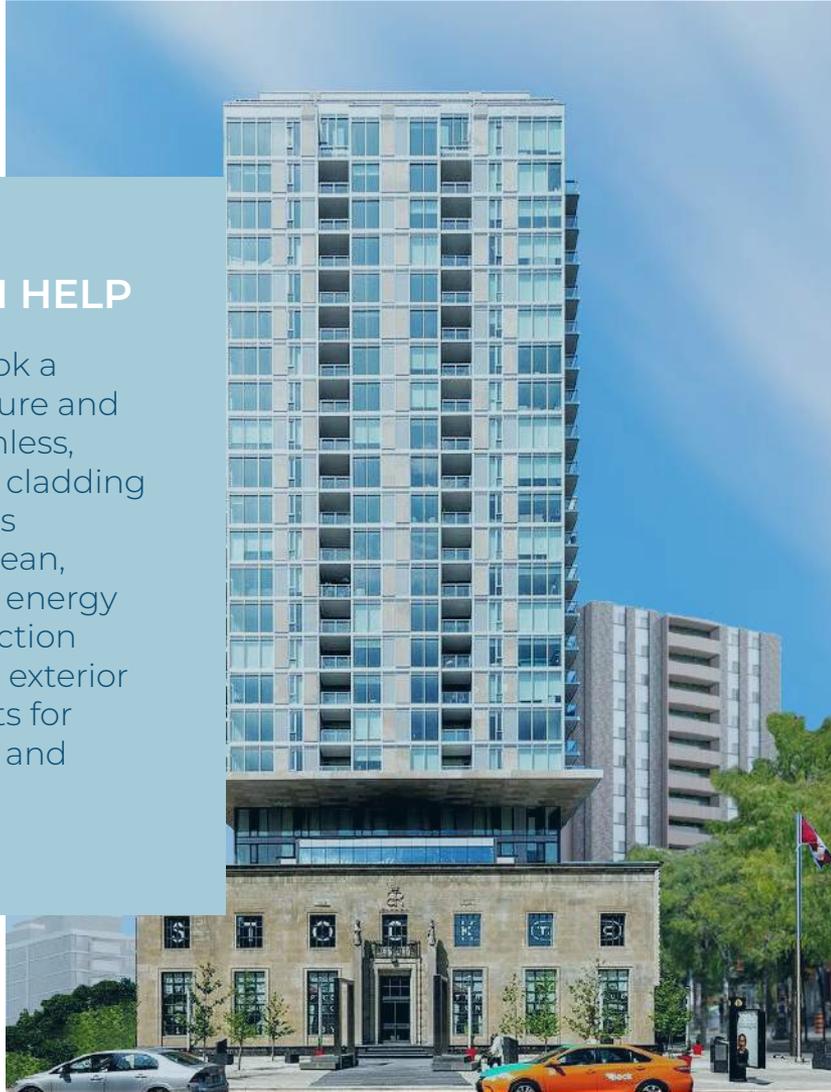
At least 75% of all buildings standing today will still be standing in 2030. **Unless they are retrofitted, they will be releasing the same amount of CO2 in 2030 as they do today.**



Canada is in **need of solar energy advancement in cities/dense areas** in order to reach its **Net-Zero Emissions goal by 2050.**

MITREX CAN HELP

At Mitrex, we took a lesson from nature and developed seamless, integrated solar cladding and solar railings that generate clean, renewable solar energy for new construction builds as well as exterior cladding retrofits for aging buildings and structures.



MISSION:

Our mission is to be the catalyst that accelerates the adoption of sustainable, energy-generating human-made structures.



BELIEFS:

Rapid, low-cost, sustainable manufacturing is economically viable, and the road to a brighter future for humanity.

WHAT IS MITREX BIPV TECHNOLOGY?

Building Integrated Photovoltaics (BIPV) are **solar panels that are built into the façade of the building**. At Mitrex, we develop and produce aesthetically pleasing solar panel cladding and railing systems that builders and architects can incorporate directly into their designs.

BIPV cladding and railing **produces clean energy and supplies it directly to the building**. The revenue that is generated by the building's BIPV panels covers up to 25% of electricity costs and up to 100% of the building's electricity needs.



**Building-Integrated
Photovoltaic (BIPV) cladding.**

WHAT IS MITREX BIPV TECHNOLOGY?

- ✔ **Mitrex has combined cladding and railing products with solar energy generating technology.** Just by adopting Mitrex cladding and railing systems, builders and architects will expand their energy-generating areas from rooftops to vertical walls.
- ✔ Mitrex cladding and railing systems are **versatile in colour, texture, design, and use.** It can be applied to virtually any surface, from high-rise buildings to grain silos. It is suitable both for new developments and deep building retrofits.
- ✔ Mitrex products are cost-effective. **They dramatically lower the barrier of entry for buildings seeking to incorporate photovoltaic technology to reduce their carbon footprint.** They are comparable in price to traditional materials and they are self-financing, all while having the appearance of traditional materials.



GREEN CANADIAN GOVERNMENT INITIATIVE

MITREX CONTRIBUTION

Achieve net **zero emissions** by 2050.



Mitrex technology adds to Canada's green technology and portfolio by **advancing BIPV technology**.

Will ensure that all **new buildings and major building retrofits prioritize low-carbon investments** based on integrated design principles, and life-cycle and total cost of ownership assessments which incorporate "shadow carbon pricing."



Mitrex can provide these prioritized infrastructure **projects with a low-carbon option through integrated solar energy** that would support government objectives to reduce GHG emissions and meet net zero goals; this will allow the government to **invest in low-carbon energy at no additional cost**.

Low-carbon, sustainable, and climate resilient real property.



Our operations are aligned with government targets to **generate low-carbon real estate by manufacturing BIPV technology** that can be applied to Canadian infrastructure.



GREEN CANADIAN GOVERNMENT INITIATIVE

Get Canada to be in a position as a **global leader in clean technology.**

Government of **Canada will reduce direct and indirect GHG emissions** from federal government facilities and fleets by 80% below 2005 levels by 2050

Will use 100% clean electricity by 2025, as set out in the Pan-Canadian Framework on Clean Growth and Climate Change, by producing or purchasing megawatt hours of renewable electricity equivalent to that produced by the high-carbon portion of the electricity grid.

MITREX CONTRIBUTION

Mitrex will continue **advancing our research and development of clean technology** in order to maximize the output of solar energy.

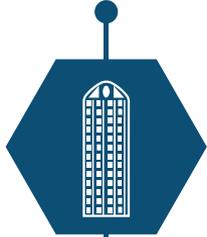
Mitrex solar cladding systems **provide renewable electricity generated on-site**, which reduces Canada's reliance on fossil fuels and **minimizes greenhouse gas emissions.**

Solar energy generated through Mitrex cladding and railings is priced lower than non-renewable, high-carbon electricity. This **BIPV technology is an affordable, reliable energy source that will allow the Canadian government to meet their clean electricity goals by 2025.**



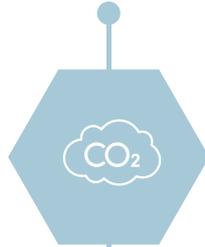
ENVIRONMENTAL IMPACT OF ADOPTING MITREX BIPV TECHNOLOGY

13 MILLION
kWh
Green Energy
Produced from
One Building
In a 30 year period



=

9000
Tons of CO₂



Electricity for
1700
Homes



6
MILLION
Trees Planted



2000
Cars Off the Road



10 BILLION
kWh
Green Energy Produced
from 50 Buildings
Constructed Per Year
By 2050

7.5
BILLION
Tons of CO₂

Electricity for
1.3
MILLION
Homes

5
BILLION
Trees Planted

1.6
MILLION
Cars Off the Road



solar cladding

CONTACT US

 +1-416-497-7120

 info@mitrex.com

 41 Racine Rd., Toronto, ON M9W 2Z4

 mitrex.com

C L A D D I N G