



Corporate Social Responsibility

We are a new form of solar power that transforms everyday infrastructure into a source of revenue-generating solar energy for a Net Zero World.

Human beings have spent a long time paving over the Earth. Solar Earth now transforms those surfaces into the toughest, most versatile sources of solar energy yet made, withstanding pedestrians, bicycles, vehicle traffic, theft, vandalism and extreme weather.

Solar Earth embeds solar cells — those oh-so-delicate eggshells so easy to break — into a rock-hard, resilient surface. It allows us to "solarize" sidewalks, roads, parking lots, rooftops, docks and more by putting solar cells inside that infrastructure.

Our break-through technology captures the power of the sun to "solarize" infrastructure and generate secure, free, clean energy to fight climate change and get the planet to a Net Zero world.

Rural Solar Microgrid

Daxing, Green Village - China

CHALLENGE

For decades, China has installed solar power infrastructure for economic development in impoverished rural areas. Beyond limited roof-top space, ground-mounted installations impinge on farmland and living spaces. Rural populations are dependent on the land for farming, limiting the potential of traditional solar projects. There is a need for renewable energy solutions that don't consume valuable farmland.

SOLUTION

Solar Earth installed 120 paving integrated PV panels at the recreation/community center in Ban Bi Dian Village of the Beijing Daxing District. The panels were integrated with pathways and parking lots. The Beijing Science and Technology Commission collaborated, along with the Beijing University of Technology and Tenio Group, to assess the solution for broader deployment across rural China.

RESULTS

Solar Earth's solution for Ban Bi Dian's yielded a steady stream of clean, carbon-free electricity without losing limited urban, commercial, industrial, or agricultural land. Traffic was estimated to 6,000 vehicles and 12,000 pedestrians crossing the solar road installation per year.

On average, 1 1.6 MWhr of electricity was produced per year. An equivalent traditional solar installation would have consumed an estimated 120 sqm of land.





SOLAR EARTH FACTS

- 11.6 MWhr PRODUCED PER YEAR
- 120 SQM OF FARMLAND SAVED
- 9.2 TONNES OF CO2e AVOIDED

- Ideal, compact surface power generation
- Weather resistant
- Highly secure and resistant to theft and vandalism
- Creates a robust dual-use electric generating surface without compromising valuable land
- Long-term solar energy production solution for tight urban spaces
- Minimal maintenance and cleaning requirements



Solar Sidewalk

Tampa, Florida - USA

CHALLENGE

Tampa's city was looking for a cost-effective way to provide redundant power to a set of traffic lights in an intersection critical for emergency vehicle transportation. A particular requirement was operability through hurricanes, which are common in the region. The incumbent solution was a battery back-up combined with portable diesel generators that city crews would deploy in a crisis.

SOLUTION

Solar Earth deployed 84 panels on a sidewalk bordering the critical intersection. The panels were integrated into the sidewalk with our FRP surface mounting solution without any significant alterations to the area or the sidewalk. The resilient solar sidewalk includes a 72-hour battery back-up system to provide reliable power to the traffic lights.

BENEFITS

The Solar Earth sidewalk provides continuous power to the traffic lights independent of the state's grid. The system is resilient against extreme wind and flooding.

Costly generators and crews are no longer required at the intersection in times of crisis. Additionally, the city can sell the power generated by the solar power system when not in use. Over a ten-year lifetime, the City of Tampa will save an estimated US\$ 5,000 by reducing costs and generating revenue.

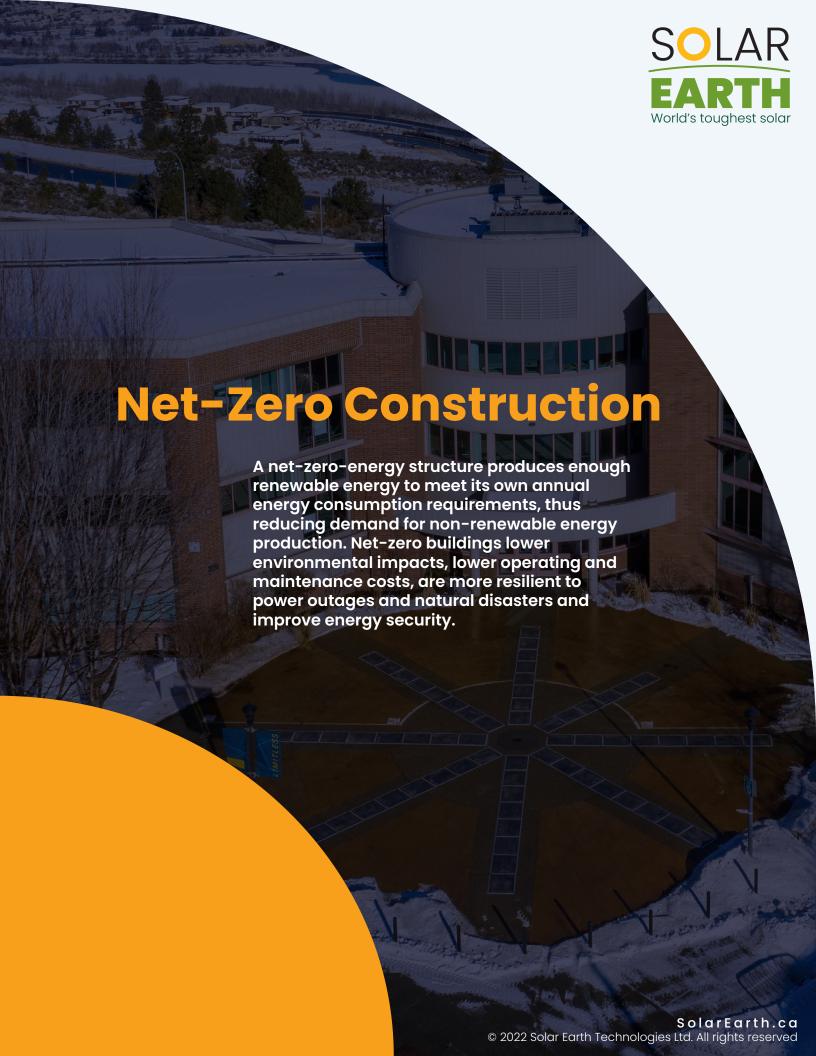




SOLAR EARTH FACTS

- CONTINUOUS BACK-UP POWER
- **3.2 KW PEAK, 30 SQM (323 SQFT)**
- US\$ 5,000 PROJECTED 10-YEAR SAVINGS

- Intersection works during hurricanes or flooding
- Highly secure and resistant to theft and vandalism
- Excess power continually generated and goes back into grid
- Generates capital return and reduces fossil fuel use
- Long-term solar energy production solution for tight urban spaces
- Minimal maintenance and cleaning requirements



University Plaza

Kamloops, BC - Canada

CHALLENGE

As an advanced educational institution, Thompson Rivers University, wanted to educate their students in new green technologies and was seeking solutions to yield a net-zero energy campus.

SOLUTION

Solar Earth was able to partner with TRU and build Canada's first solar sidewalk, along with a Solar Plaza. This installation is designed to power the computer lab adjacent to the panels in the courtyard.

BENEFITS

Placing Solar Earth panels in the compass formation in the courtyard is both aesthetically pleasing and functional. Fulfilling Thompson Rivers University's renewable power educational goal, these panels have enriched the student population's experience with net-zero build techniques.

Further, the panels now give this courtyard a return on the capital funds invested through powering the computer lab. It is a big step forward for traditional sunk cost infrastructure and earns a tremendous amount of credit within net-zero construction. The panels' ability to move solar energy from a post-construction thought into initial design integration makes net-zero construction a reality.

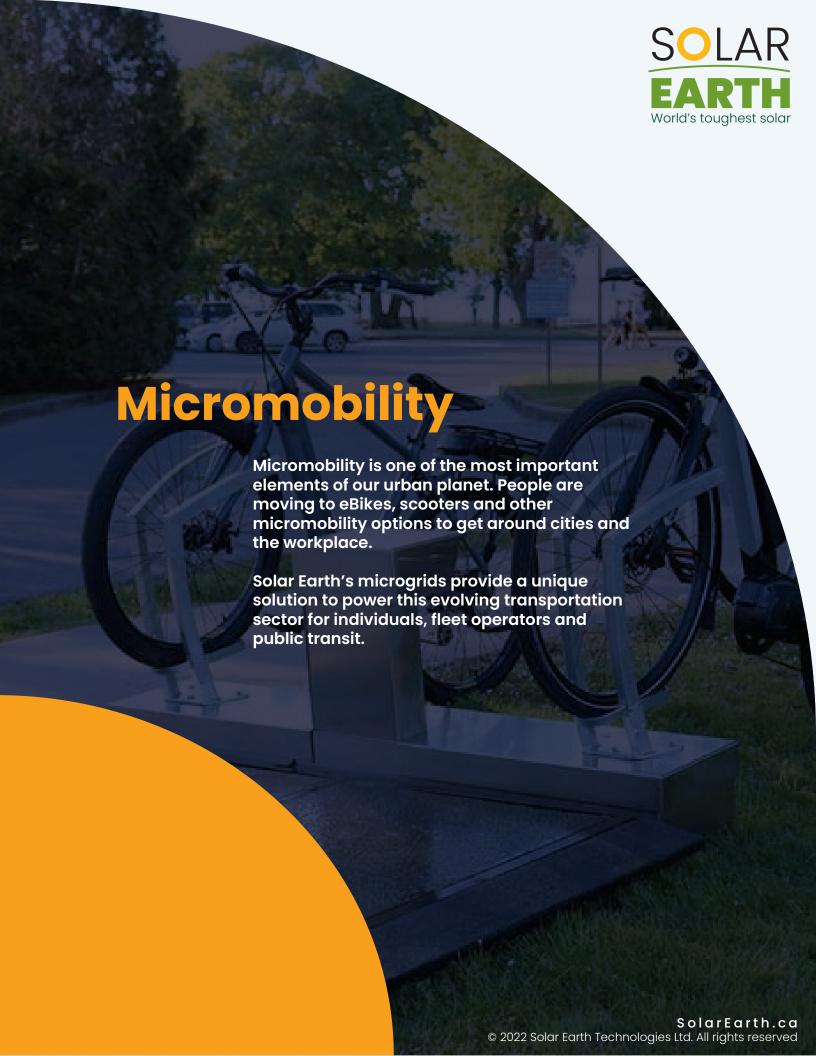




SOLAR EARTH FACTS

- **72.5 SQM OF URBAN LAND FREED**
- 6.1 KW PEAK, 48.3 SQM (520 SQFT)
- ALL WEATHER OPERATION

- Ideal, compact surface power solution
- Weather-resistant power generation solution
- Highly secure and resistant to theft
- Creates a robust dual-use electric generating surface without compromising valuable land
- Long-term solar energy production solution for tight urban spaces
- Minimal maintenance and cleaning requirements



Micromobility

Vancouver, BC - Canada

CHALLENGE

Vancouver-based micromobility infrastructure company, Urban Racks, saw the potential of e- bikes, a more energy-efficient and less polluting mode of transport. After deciding to bring an e-bike charging solution to the market, a solution was needed to power e-bikes across a wide variety of locations.

SOLUTION

Urban Racks utilized Solar Earth's panels to create an easily deployable e-bike charging station, able to be located almost anywhere e-bikes are used. The easy-to-install Solar Earth panels were integrated into infrastructure co-located with the Urban Racks e-bike charging station, serving as a sidewalk that captures solar power.

BENEFITS

With Solar Earth's low maintenance and dual-use PIPV, Urban Racks was able to develop the product needed in order to provide a readily deployable, sustainable e-bike charging station.





SOLAR EARTH FACTS

- STAND-ALONE SOLAR POWER
- ON AND OFF GRID APPLICATIONS
- SIDEWALK INSTALLATION
- TRUE NET-ZERO POWER

- Ideal, compact surface power solution
- Weather-resistant power generation solution
- Highly secure and resistant to theft
- Creates a robust dual-use electric generating surface without compromising valuable land
- Long-term solar energy production solution for tight urban spaces
- Minimal maintenance and cleaning requirements



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