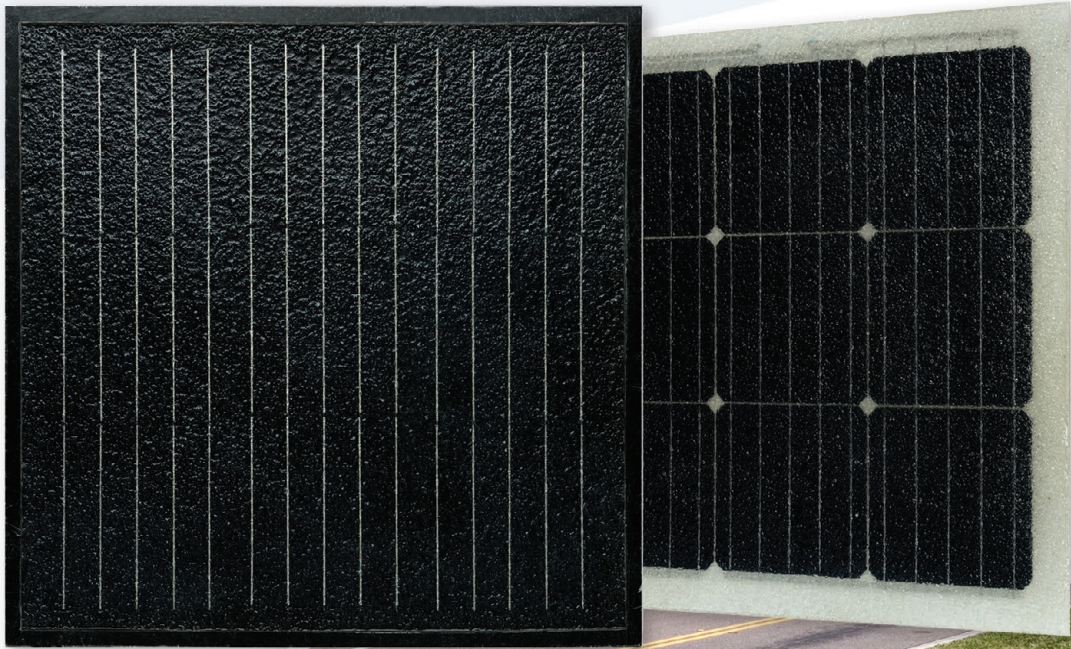


SOLAR EARTH

World's toughest solar



**Clean Energy Innovation
for Today's Infrastructure**

SolarEarth.ca

Solar Intersection Project - City of Tampa Bay, 2019



OUR TECHNOLOGY

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.

At Solar Earth, we are developing, manufacturing & implementing state-of-the-art solar power solutions that allow driveways, sidewalks, parking lots, bike paths, plazas (and more) to produce cheap clean energy. Our flagship product is a hardened solar panel that can withstand pedestrian, bicycle or moderate-velocity vehicular traffic. The panels are impervious to extreme weather, and highly resistant to both vandalism and theft.

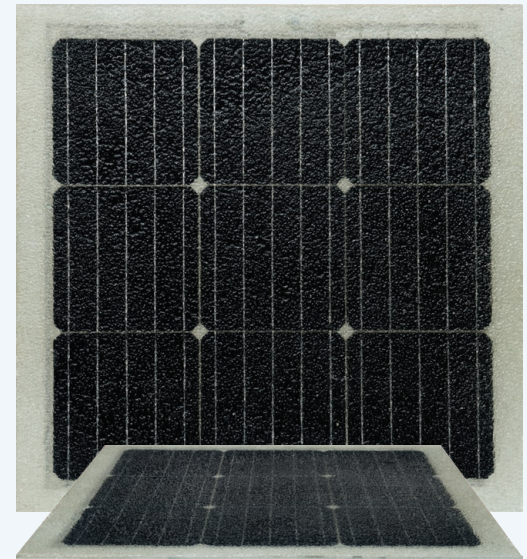
Sun-exposed infrastructure is adapted to generate renewable electricity while retaining its original purpose.

Technical Data

ENVIRONMENTAL	
Rated Water Submersion	30 days
Max Oil Submersion	12 hr
Friction Index (f-60): Wet/Dry	0.8/1.02
Expected Lifetime	10 years
Fire/PV safety	Tested UL61703 IE61215

PHYSICAL	
Max Static Load	5,000 kg [11,000lbs]
Max Point Pressure	1.3 MPa [190psi]
Max Speed	40 kmph [25mph]
Max Deflection	5 mm [.2"]
Ambient Range	-20°C [-4F] to 50°C [122F]
Temperature Range	-20°C [-4F] to 90°C [194F]
Weight	2.6 kg [5.7lbs]

ELECTRICAL	
Power Per Area	143 W/sqm (13W/sqft)
Peak Power	~ 46 W
Power Tolerance	±3%
Temperature Coefficient	-0.38% / -0.21% F
Open Circuit Voltage	12.33 V
Short Circuit Current	4.72 A
MPP Voltage	10.26 V
MPP Current	4.52 A
Point Current Maximum System	1000V
Voltage Overload Protection	15 A
Current Bypass Diodes	1

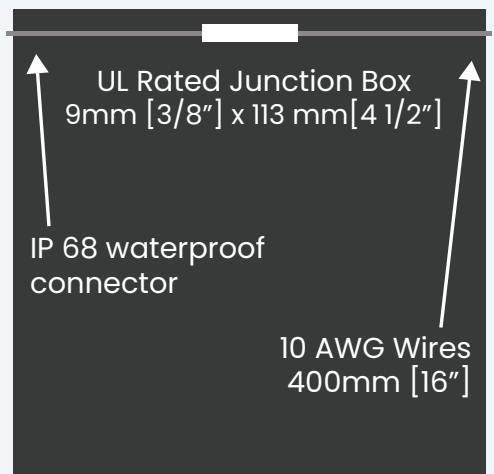


Proprietary anti-skid surface

← 570 [22.5"] ±2mm [.1"] →



TOP



BOTTOM

UL Rated Junction Box
9mm [3/8"] x 113 mm [4 1/2"]

IP 68 waterproof
connector

10 AWG Wires
400mm [16"]

19mm [3/4"] ±1 [.04"]

6mm [1/4"] ±0.3 [.02"]

SIDE

13mm [1/2"]

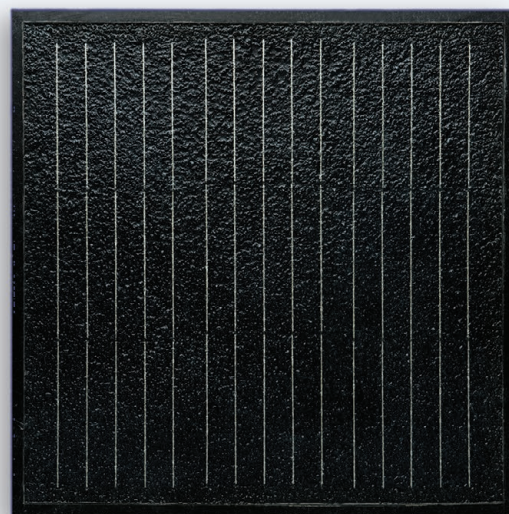


Clean Energy Innovation for Today's Infrastructure

Solar Compass TRU, Kamloops BC, 2017

Construction Solutions

Enjoy Limitless and Free Clean Energy



Condition	Direct Mounting		Moulded Base	
	Adhesive	Clamps	Paver	Polymer
Compacted Gravel/Earth Pavement/Asphalt & Solid Surfaces	✓	✓	✓ ✓	✓ ✓
Decking, Roofs & Uneven Surfaces			✓	✓
Low Profile Heavy Loads	✓ Static	✓ Low-speed	* Moderate speed	* Low-speed

* For sites with appropriate pavement trenching

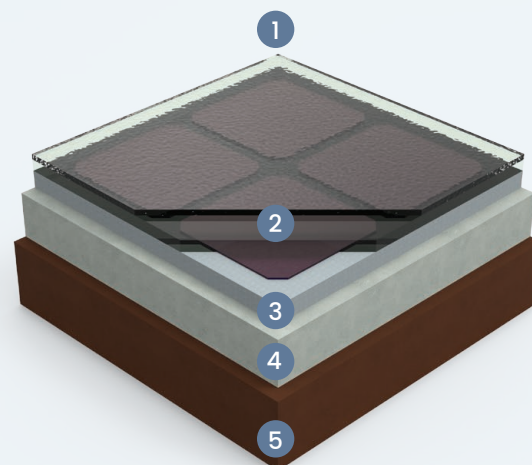
Panels can be glued or clamped to concrete or asphalt substrates.

Panels can be installed on top of existing infrastructure without modifications.

Panel system can be integrated with electric vehicle charging technologies.

Panels can complement and expand traditional PV roof top systems.

Panels can be used for walkways or patios to turn infrastructure into value-producing assets.

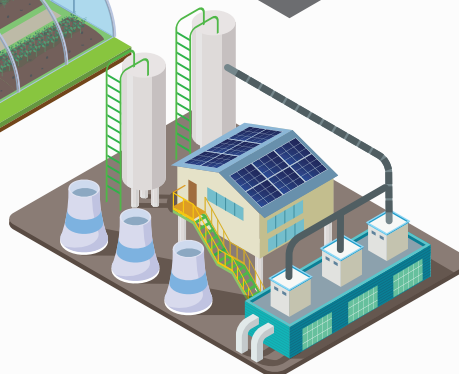
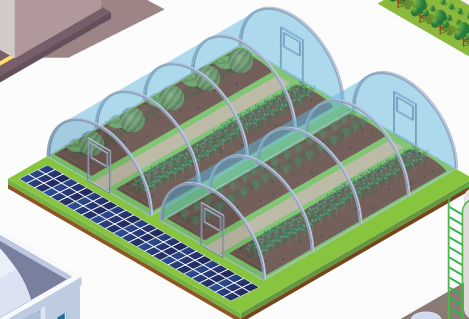
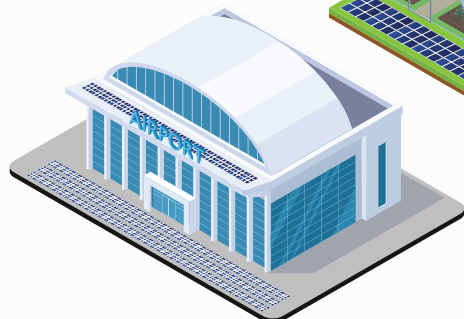
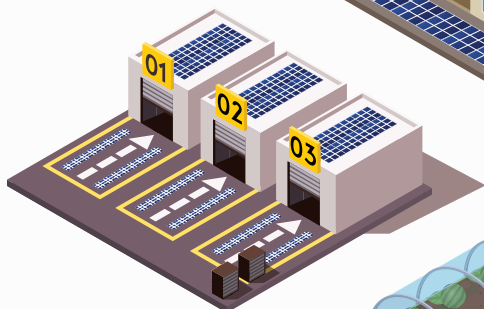


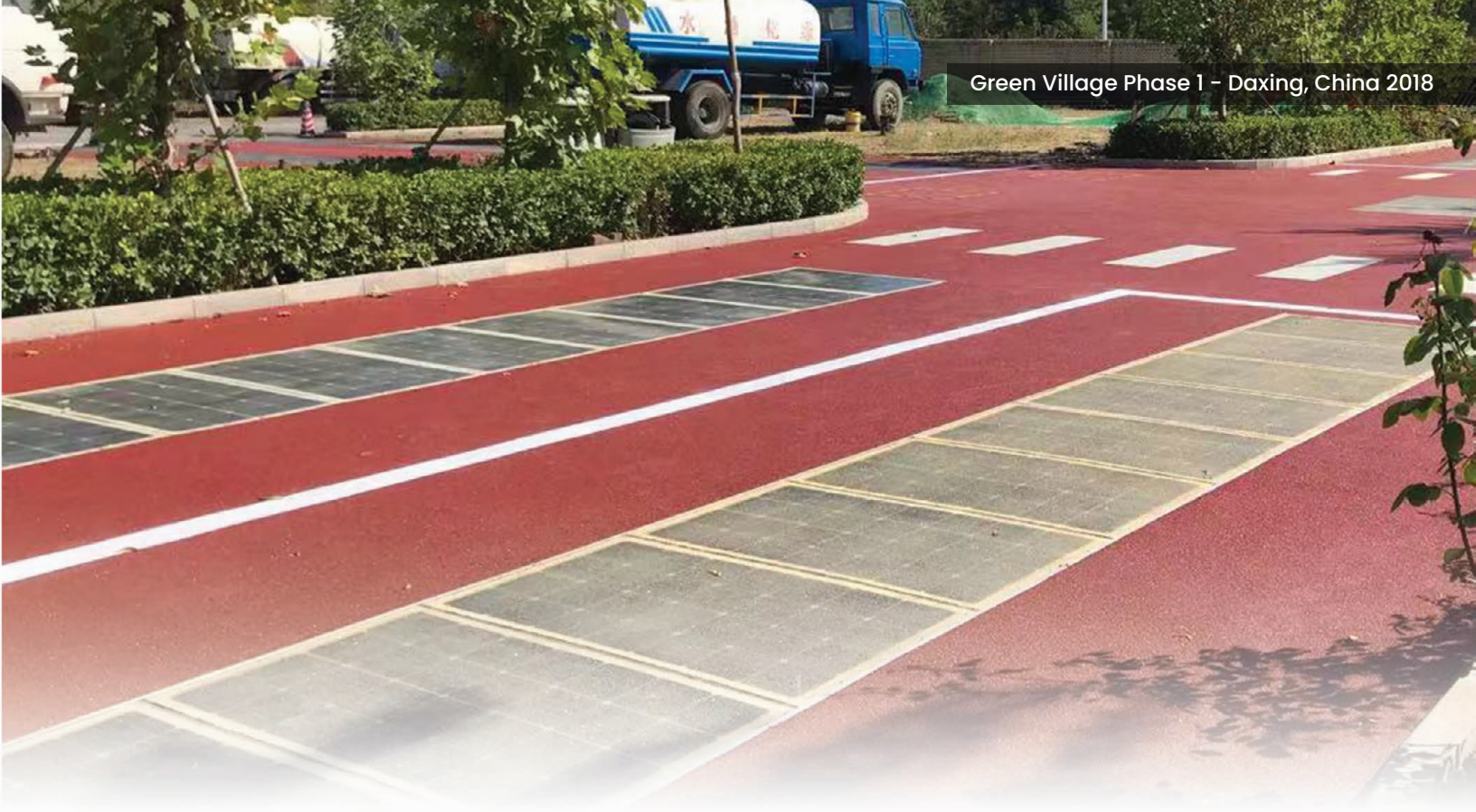
1. Traction Top plane
2. PV Cells
3. Back plane
4. Substrate/Paver
5. Sub-grade (e.g., compacted dirt)



Turn-key Solutions

Solar Earth's experts have been implementing pavement-integrated PV power generation solutions since 2015. Our experienced staff can advise you on Solar Earth turn-key solutions for infrastructure. This includes system design, material procurement, project management and its installation.





Recent Solar Earth Projects



Solar Intersection Project
Tampa, USA



Solar Pavement
Stellenbosch University,
South Africa



Green Village Phase 1
Daxing, China

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

It’s a breakthrough that captures the power of the sun to “solarize” infrastructure, to help us fight climate change and get us to a Net Zero future.



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