



# PROJECT OF DISTINCTION™



## SOLAR SOLUTIONS

Reliably designed. Responsibly powered.

THE PERFECT FIT ANYWHERE POWER IS NEEDED.



### THE PERFECT FIT

Tolar Manufacturing's off-grid solar lighting and power systems allow transit agencies to install security lighting and other amenities at their transit stops without the need for the costly and time-consuming trenching, cabling and civil works associated with grid-powered lighting.

Tolar has partnered with Urban Solar Corporation, the industry leader in solar solutions for transit, to develop street furniture solutions that exceed client expectations for system reliability, light levels and design aesthetics.

Tolar Manufacturing's purpose-engineered systems provide cost-effective and integrated solar lighting for transit stops, passenger shelters and out-of-home advertising displays as well as power for digital signage, security cameras, and other customer amenities.

### NOT ALL SOLAR-POWERED SOLUTIONS ARE CREATED EQUAL

Deploying off-grid solar solutions in urban environments presents unique challenges. Tolar has deployed thousands of reliable lighting systems in a variety of extreme environmental conditions across the United States.

All systems are equipped with appropriately-sized solar arrays and battery banks designed and calculated to function reliably throughout the year in their installation location. Tolar offers free site inspections to ensure that each system receives adequate sun exposure to charge throughout the year.

All Urban Solar lighting systems offered by Tolar Manufacturing are USA-made, UL-listed and come with an industry-best 10-year system warranty and 5-year pro-rated battery warranty with installation.



### MORE THAN JUST LIGHTING

Transit agencies, their passengers, and outdoor advertising companies are requesting more robust information and technology enhancements at bus stops and bus rapid transit stations, such as:

- Real-time signage (ePaper and LED)
- USB charging stations
- Security cameras

Tolar Manufacturing can engineer a solar solution that is appropriately-sized to provide reliable year-round power for both lighting and other passenger amenities.



# SOLAR SOLUTIONS

Creating bus shelters and other outdoor structures of durability and distinction that reflect the character of your community ... *that's the Tolar Difference.*



## ILLUMINATE YOUR REVENUE GENERATING ADVERTISING PROGRAM

Shelters and street furniture designed with integrated, revenue-generating advertising displays also benefit from solar illumination. Depending on client needs, our team of designers, engineers and fabricators can design solar-lit bus shelters, bicycle storage shelters and more with highly visible advertising-focused lighting.

*"Tolar's solar-illuminated advertising lighting system is an excellent option for us. Bright and reliable. Plus, no grid hook-ups, no utility bills and a clean, renewable power source is important for us and our clients. They provided us with engineering design services and support in the early stages of the project to completion."*

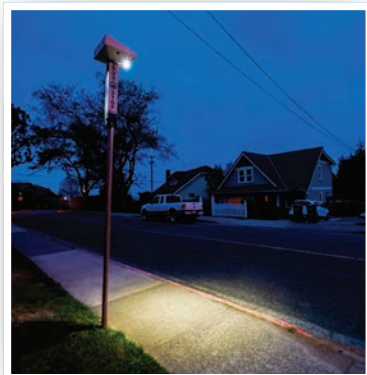
—General Manager, Outdoor Advertising

## TRANSIT POLE-MOUNTED SOLAR LIGHTING FOR UNSHELTERED BUS STOPS

The vast majority of bus stops in North America are unsheltered. Adding security lighting to these stops is easy with Tolar's package of transit pole lighting systems, manufactured by Urban Solar. PV Stop+ lighting systems are cost-effective and feature all the reliability and performance that customers have come to expect from Tolar shelter lighting systems. All mounting hardware is included for any new or existing transit pole.

*"We are proud to be the only ABBG member agency to have earned an 80+% customer satisfaction rating every year since 2013 and are continually seeking new ways to create an even better riding experience for our customers. Our solar-powered bus stop lighting project is a great example."*

—Erin Rogers, Omnitrans CEO/General Manager



## GUARANTEED LIGHTING PERFORMANCE FOR LESS THAN THE COST OF A BUS FARE

Tolar now offers optional ECM Connect™ wireless control and monitoring with all solar lighting systems, including the PV Stop+. Patented ECM Connect™ technology allows users to monitor and manage solar LED lighting and power systems remotely from their desktop and mobile devices.

This new technology offsets the high cost of routine or maintenance site visits and maximizes system output and battery life. Systems are proactively monitored throughout their lifetime to ensure that lights are on and functioning at peak performance, and other amenities are receiving power.

ECM Connect Plus™ offers all the same benefits of ECM Connect™, plus a 10-year, 100% battery and component replacement warranty. ECM Connect Plus™ Plans start at less than \$1/day.

How can we help you make a difference in your community?  
VISIT [WWW.TOLARMFG.COM](http://WWW.TOLARMFG.COM) FOR ADDITIONAL IDEAS, OPTIONS AND SPECIFICATIONS



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All shelters, displays and street furniture are proudly designed and fabricated in Corona, California, USA

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## SMARTPLACE™ Shelters

Tolar Manufacturing's SmartPlace™ transit shelters are leading the way with distinctive at-stop digital solutions that address growing passenger expectations. From real-time information in oversize displays and free-standing kiosks, to solar solutions for safety and security, to revenue-generating digital advertising, charging stations, closed-caption cameras, emergency call boxes and more.

Tolar's SmartPlace™ transit shelters are the smart solution for your community. With 500+ designs and hundreds of customized solutions in its portfolio, Tolar Manufacturing has the experience and ability to pair customized branding designs with cutting-edge technology to create outdoor structures of durability and distinction that reflect the character of your community, that's the Tolar Difference.

### KEY FEATURES

- Industry-leading light levels, with cutting edge LED and power management technology
- UL listed systems for safety and reliability (*with UL certification for the system, not just the components*)
- Modular, vandal-resistant design
- Incorporates historical NASA data to maximize performance
- Five-day minimum back-up (autonomy)
- Options available to power USB ports and real-time signage
- Powdercoated metal components to match transit shelters
- Proprietary, high-illumination, low-draw solar lighting system for free-standing, multi-sided kiosks
- Custom branded design solutions for transit shelters, BRT stations and bus stops
- Easy installation with technical support included for every system
- Fully "Buy America" compliance via our USC's Beaverton, OR facility



**Pictured above:** This 17-ft Signature Custom SmartPlace™ transit shelter for OmniTrans in San Bernardino, California includes a custom radius roof that incorporates solar power providing security lighting and power to the two-door media display kiosk which includes an integrated two-line, low-draw, real-time passenger information sign.



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