



The Organic Energy Company

Powered by Nature

ORENge™ is the leading organic photovoltaic technology commercially produced for the transportation market using advanced energy technology and photovoltaic organic film that can deliver unprecedented power for TRU, Liftgate, GPS, POS and other battery load applications from dusk to dawn.

Simple and Low-Cost Installation

Unlike traditional glass and silicon panels, ORENge™ power is simple to install, the lightest power generation technology and the lowest carbon footprint in the industry.



Organic and Environmental

ORENge™ power is flexible, waterproof and road resilient. ORENge™ produces power from the broadest light spectrum delivering the highest overall charging capacity watt per watt measured from dusk to dawn. ORENge™ delivers multiple power configurations with IP68 technology that uses sustainable, recyclable, and environmentally safe materials.

Flexible and Versatile





ORENge™ is available in multiple power solutions for low impact and high impact environmental conditions providing the best solution for the required power loads from 10 watts to 1000+ watts.

Model	TR-10W	TR-20W	TR-10DW	TR-20DW
Nominal Power (W)	10.73	21.46	11.90	23.80
Weight (kg)	0.581	1.150	0.846	1.720
Rated Voltage (VMAX)	16.10			
Rated Current (IMAX)	0.78	1.56	0.81	1.62
Open Circuit Current (Isc)	24.90			
Thickness (mm)	1.30	1.30	1.80	1.80
Length/Width (m)	0.67/.53	1.30/.53	0.67/.53	1.3/.53
Panel Type Organic Photovoltaic J Box / Connectors IP68 / DT				

Transportation Power Solution

Addressable American trucking / logistics market for zero Carbon battery support solutions constitutes approximately 28% of the climate change opportunity

Electric Industrial Vehicle Challenges	ORENgE Solution Benefits
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|  <p>Unscheduled stops due to battery discharge</p> |  <p>Income reduction (opportunity cost) and direct maintenance costs</p> |
|  <p>Operational reliability</p> |  <p>Battery lifetime reduction</p> |

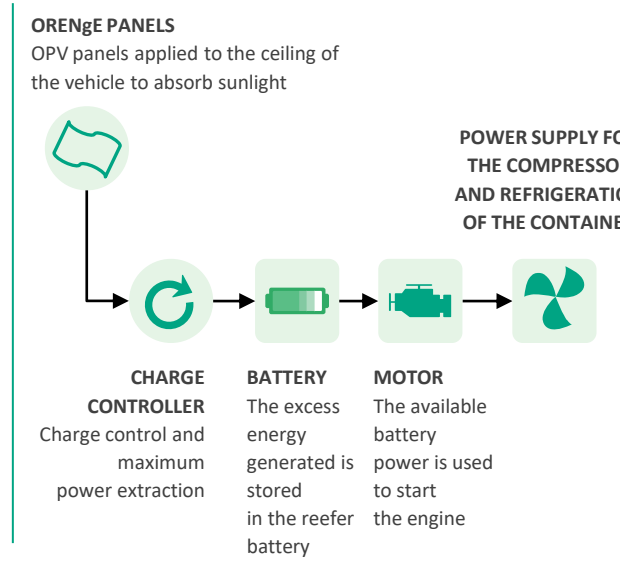
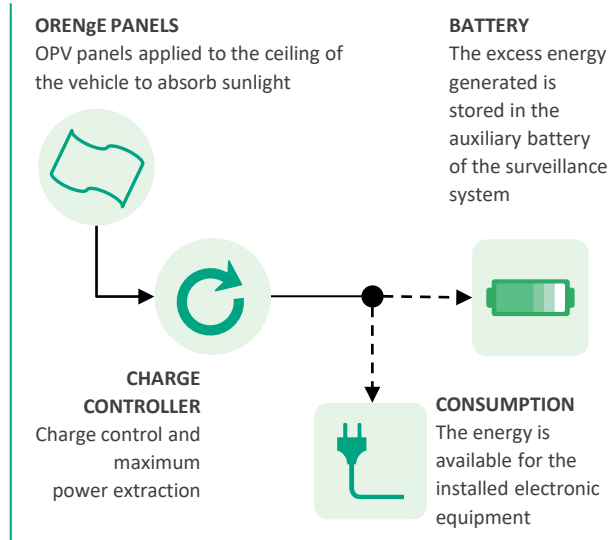
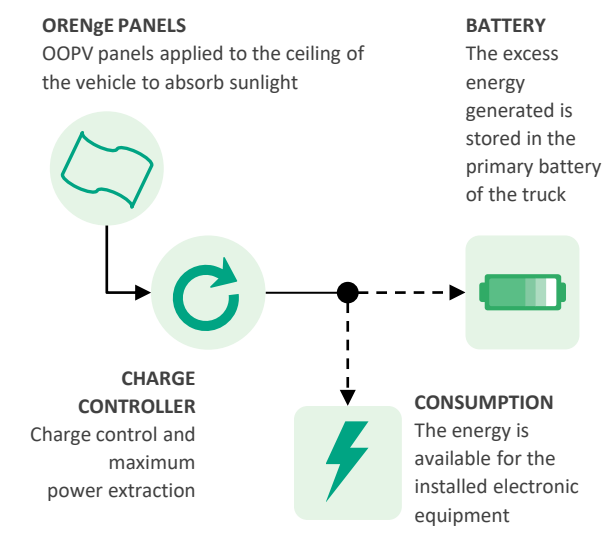
- Reduction of unscheduled maintenance stops
- Increase in availability of semi-electric logistics vehicles
- Reduction of direct maintenance costs
- Increase in income per vehicle
- Dramatically increases battery lifetimes

Vehicles with On-Board Electronics	Semi-Trailer Logistics Trucks	Trucks with Refrigerator Systems
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Vehicles that carry essential electronic equipment for their operations including printers, credit card machines, lighting, tracking systems, electronic locks, etc.

Vehicles with wagons that often remain detached from the tractor for long periods and are equipped with telemetry and electronic locks

Vehicles with refrigerating systems that have an independent motor to cool the cargo; secondary motors have a batteries to start the engine whenever necessary



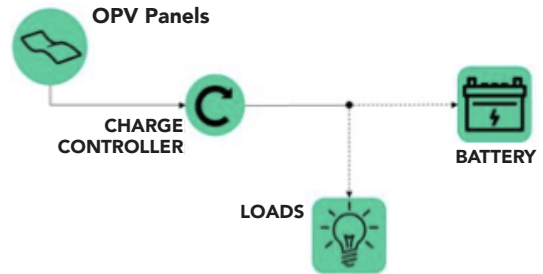
ORENgE™ Benefits

- Increase truck availability
- Increase income per truck
- Increase battery lifetime
- Reduction of unscheduled maintenance stops
- Reduction of direct maintenance cost

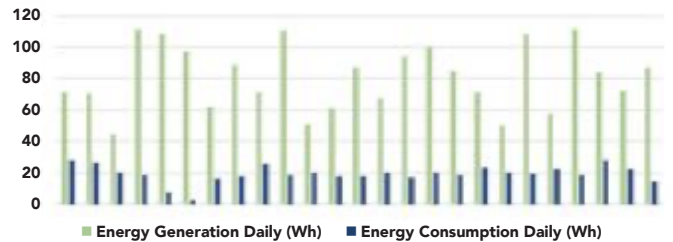


ORENgE™ Power

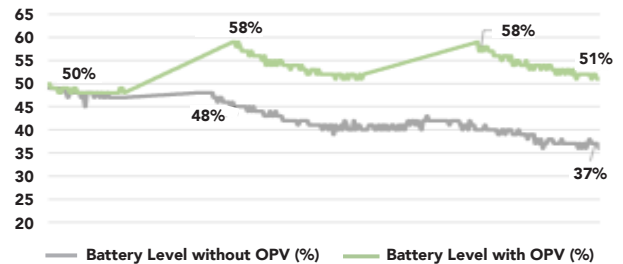
ORENgE™ Power is the most suitable light absorption technology for fleet transportation power generation. The use of organic energy adds the benefit of fleet decarbonization.



ORENgE™ Power supplies energy levels above consumption and provides more power than traditional silicon.



ORENgE™ Power produces higher battery SOC for weekend loads and reduces unscheduled maintenance stops



Higher energy output in low light and moving conditions

