

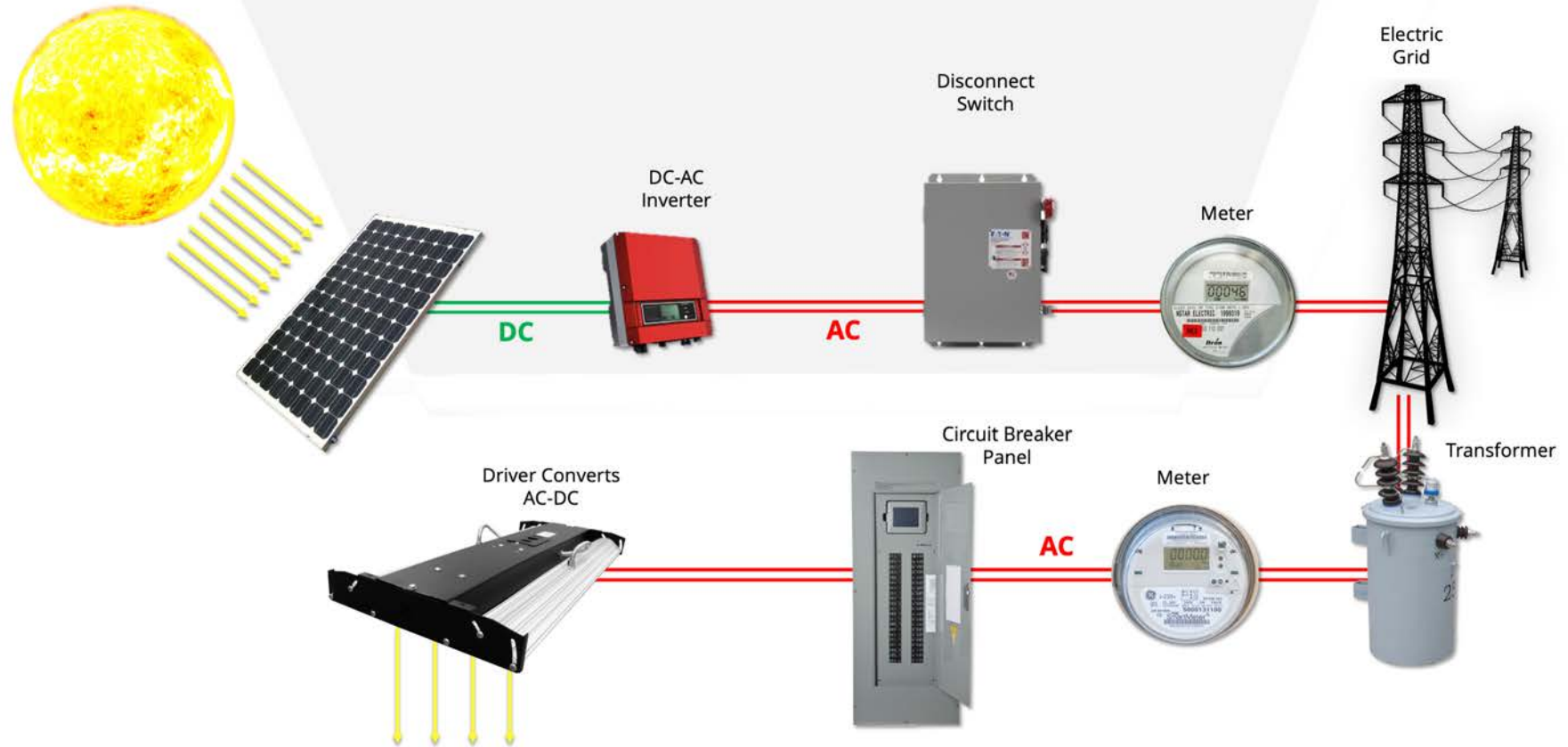
**We've cracked the code**

**F U S I O N**

**4.0**

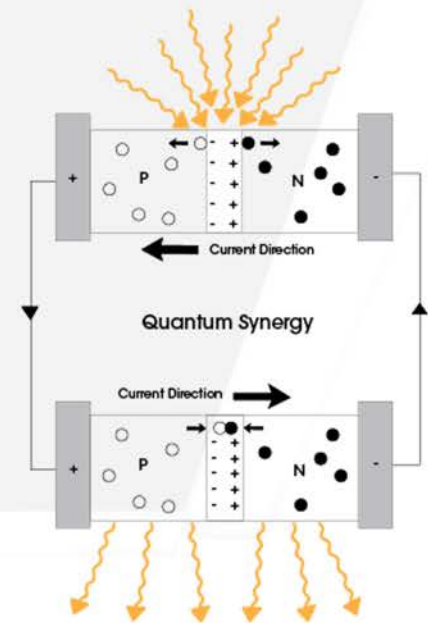
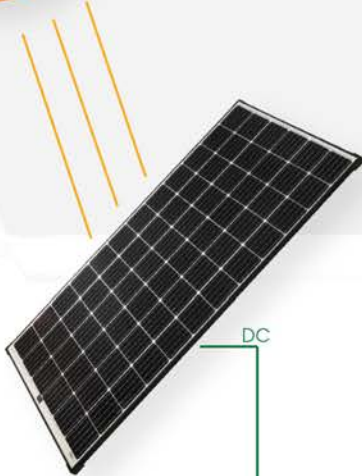
**Conserve. Control. Create.**

# Traditional PV Solar



**Results in considerable losses.**

# FUSION Hybrid PV> LED

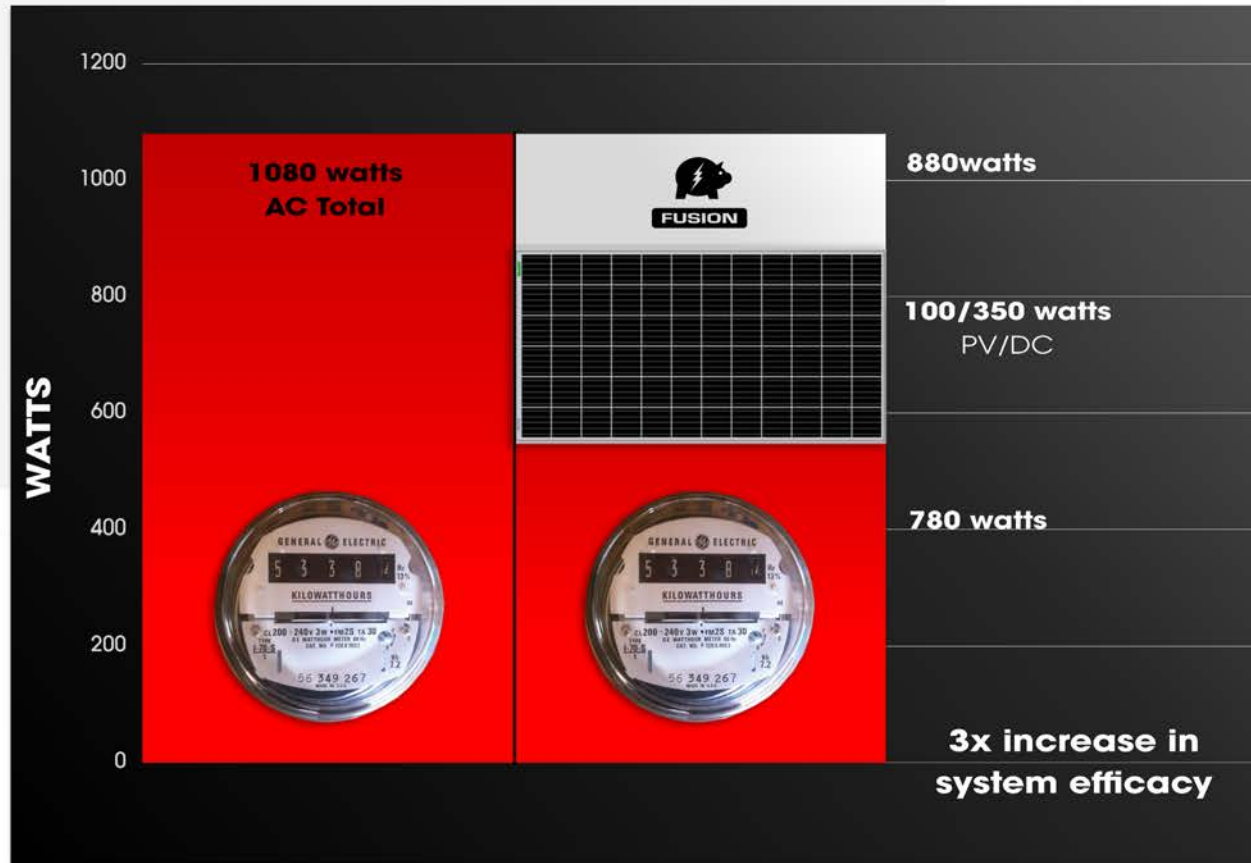


**No Inverters  
No Batteries  
No Switch Overs**



# FUSION Increases PV System Efficacy

**FUSION** direct DC maximizes PV solar system output including in low light conditions



**\*Assumption**

\* (6) 180W LED High Bay

\* 1080 Watts required to maintain light level setpoint

## **FUSION Direct PV to LED vs Traditional Photovoltaic**

- Fusion eliminates the requirement for costly infrastructure inverters, grid connection, controls resulting in unprecedented ROI's less than 3 years
- No grid connection eliminates tariff pricing risk
- Maximize Federal ITC 30% when bundling Fusion with an LED project

**Fusion is safe < 40 volts DC**



Traditional PV systems are typically configured to produce high voltage DC capable of generating a continuous DC arc flash with temperatures exceeding 2000 degrees Celsius



## FUSION Skylight Big Light Small Hole



Compare to a traditional skylight



- Minimal panel density on roof allows easy access for roof maintenance
- Skylights can be reconfigured if building usage changes
- Panel angle allows for snow to slide off and keeps panels cleaner

## FUSION Expandable Ecosystem



\*Enlarged for detail.

Multiple  
Communication  
Protocols

Military  
Grade  
Encryption

- PV Powered LED
- Demand Response
- Digital Ceiling Canopy
- Dynamic Motion Control  
Individual • Zone • Facility
- Revenue Grade Metering
- GHG Emissions Measurement and Verification
- IoT Visualization Dashboard
- FUSION Integrated System eligible for 30% Federal Tax Credit.
  - IRS Sec. 179 and Sec. 179(d)
  - Additional State and Utility Rebates

## ANDROID Configuration Tool

# CUSTOMIZATION AT YOUR FINGERTIP

Android Interface configuration tool allows businesses to make real-time adjustments to light level set-points and motion zones. Businesses can also take advantage of the master switching capability for Arc Flash compliance.

- Individual Fixture
- Zone
- Facility



\*Color Tuning requires custom fixture.



# CUSTOMIZABLE Visualization Dashboard

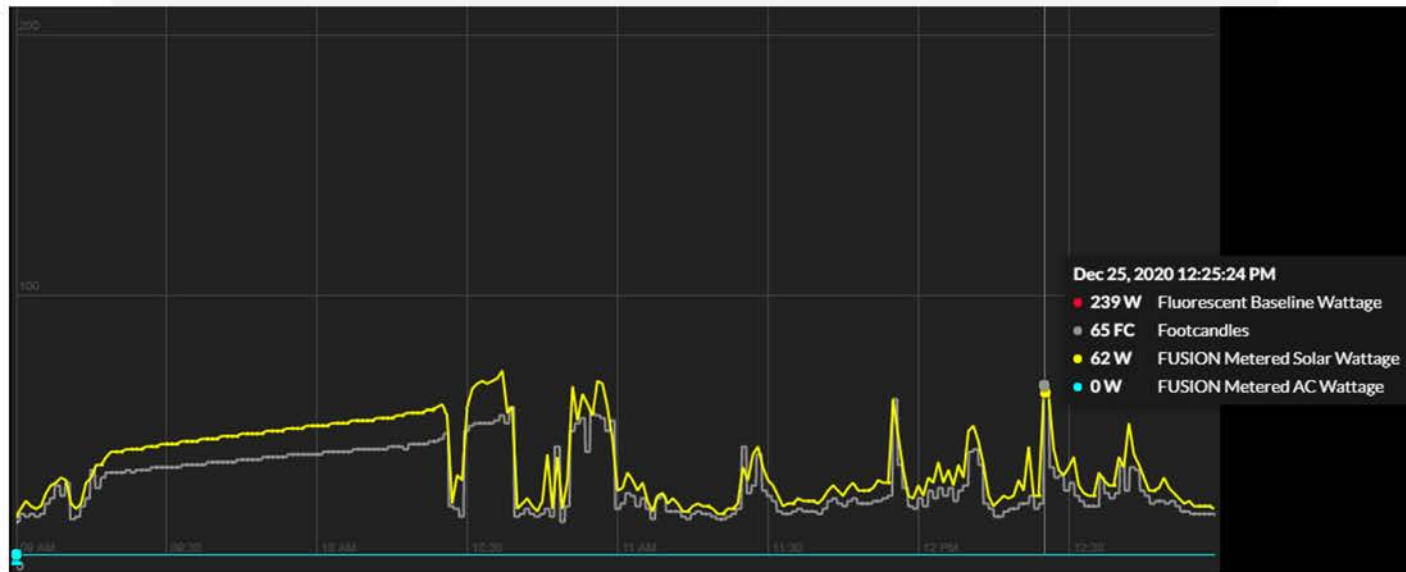


**POWERED BY** 

The **FUSION** Visualization Dashboard lets businesses mine and archive mission critical data while automatically messaging key performance indicators that are vital to your operation. Project performance can be verified with revenue grade metering.

## FUSION Visualization Dashboard

Fusion is expandable to include interfacing with a cloud-based visualization dashboard hosted by Amazon Web Services.



The dashboard allows users to stream and archive real-time data including, but not limited to:

- Electric Usage
- Temperature
- Pressure
- Humidity
- Process Equipment

Alarms for Critical KPI's can be sent via text message.

At 12:30 p.m. on Christmas Eve, this 100,000sq. ft. facility in Wisconsin used zero watts of AC power, while delivering 65 foot-candles from their **FUSION** PV LED System

# FUSION IoT - Wireless That Works

## Ωmegalight® 3.0

### • Fixture

- Adjustable Optics up to 20°
- Superior Thermal and Optical Efficiency
- Black Emissive Coating
- Extruded Aluminum Heat Sink
- Aluminum PCB
- 4 Rows Bridgelux Premium LED
- Uniform Mechanical Fasteners
- 6ft Adjustable Hanging Cables

### • Genius IoT® Controller

- Powerful 915MHz Wireless
- Upgradeable to FUSION PV Solar
- Dynamic Demand Based Motion Control
- Individual / Zone / Building
- 4 Levels of Setpoint
- Digital Ceiling Canopy



### • Accessory Options

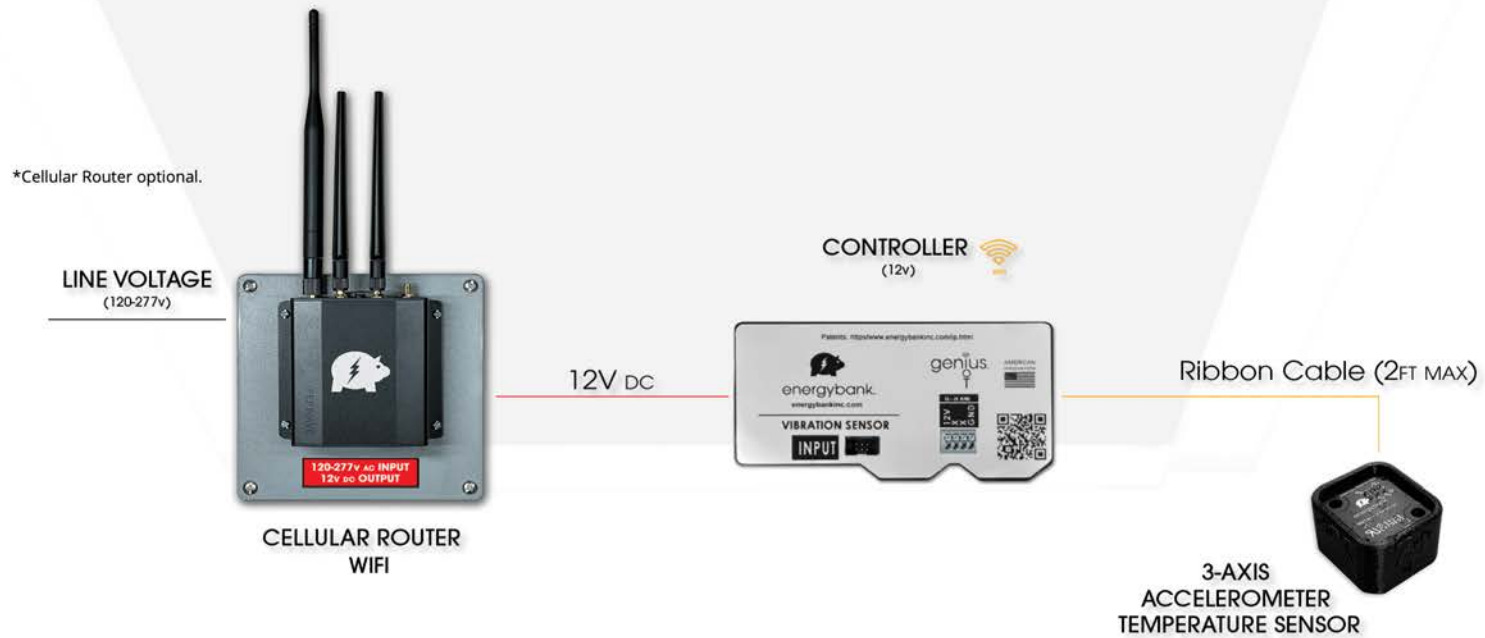
- Multiple Remote PIR Motion Sensors (3 Max)
- Emergency Battery Backup
- External Surge Protection
- External Power Supply



### • Inventronics Industrial Drivers

- Operating Volt 90-305Vac
- Surge Supression DM6KV/CM10KV
- Dim to Off
- Digital Dimming
- Lifetime 102,00 Hours

# Industrial Vibration Temperature Monitoring Sensor



- Full 3-Axis Measuring
- Settings and configuration are programmable via android app
- Alert Functions – Email and/ or SMS alerts based on individually customizable thresholds



## Multiple Form Factors



SKYLIGHT



INTEGRATED HIGH  
BAY

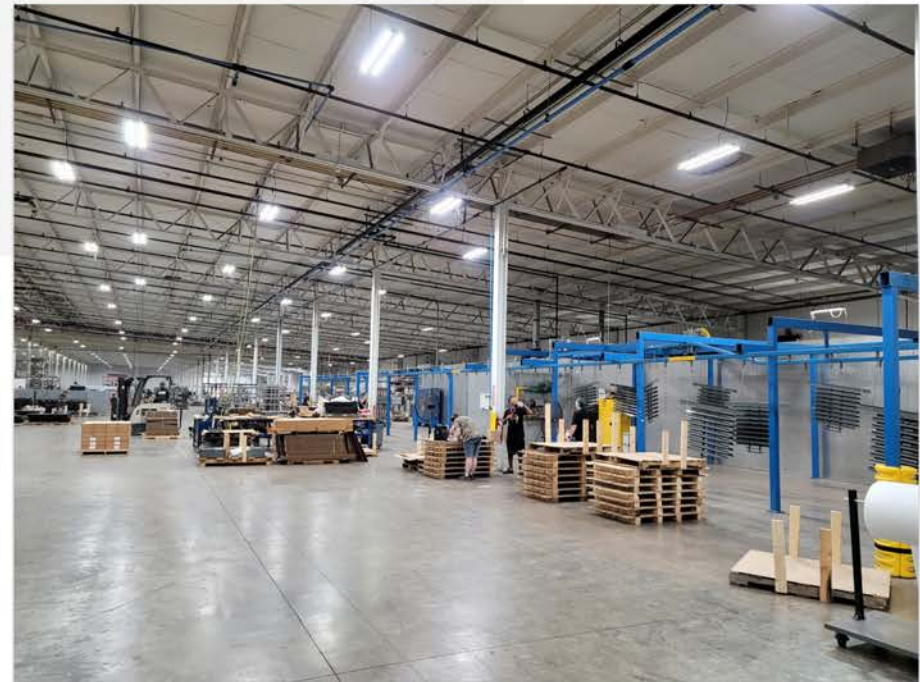


INTEGRATED  
TROFFER

## FUSION Integrated Troffer with Controls



## FUSION Integrated High Bay with Controls



Visualization Dashboard



## FUSION PV Solar to LED Integrated High Bay with Controls



Fluorescent Fixtures

239 AC watts (metered)  
26 fc (foot-candle)



45 AC watts (metered)  
80 fc (foot-candle)



## FUSION Parking Garage

**FOXCONN**<sup>®</sup>



## FUSION Skylight with Controls



# INDUSTRY VALIDATION



**JAGEMANN**  
STAMPING CO.

**FAMILY DOLLAR**

**AbsorbTech**  
Cleaner, safer solutions for industry

**DUTCHLAND**

**TMI**

**MORTON BUILDINGS**



**Russ Darrow GROUP**

**FASTENAL**

**ABC**  
Supply Co. inc

**FOXCONN**

**DZNE**  
MANUFACTURING



**Nestle**

**King Quarry**  
Distinctive Stone Authority

**J.D. BYRIDER**

**PITLIK & WICK**  
Driveways to Highways

**LIMA AUTO**



**Tri-City Electric Co.**  
Since 1895  
CONFIDENCE DELIVERED\*

**UNION COUNTY OHIO**  
grow with us

**FedEx**

**Bill's**  
Menomonee, WI

**AMATO**

Thank You for the opportunity to earn your business



energybank®

[www.energybankinc.com](http://www.energybankinc.com)

For more information  
[sales@energybankinc.com](mailto:sales@energybankinc.com)

Energybank Inc FUSION Intro. 11282022