See our world in a whole new light.

PEOPLE + INDUSTRY

Energy Solutions

Valuing lighting in the manufacturing process.

Corporations are already taking advantage of the direct energy savings that Solid State lighting (LEDs) offers. Many are simply doing a "1 for 1" replacement without taking into consideration the enhancements that could be made to their manufacturing facility and process from the upgrade. Valuing the quality of LEDs and customizing lighting to machinery can directly improve a worker's ability to observe a station, make repairs, and eliminate downtime to important equipment. Superior optics in LEDs allow workers to better differentiate between colors in products, cosmetic defects, and identify important micro details. When a company values the quality of lighting in manufacturing processes, an opportunity presents itself to create energy savings and reduce costly waste that drastically affects the carbon footprint of a company.

Do it once. Light it right.









Lighting has a strong impact on the working environment.



Minimizing blue light for workers' health.

Industries are beginning to recognize the negative health effects of blue light during nighttime operations, such as disruption of circadian rhythm. Whether it be a 24-hour manufacturing facility or the exterior lighting of an oil rig or a parking lot, studies continue to prove that blue light negatively affects workers, animals, plants and insects.

For companies that need to locate operations in environmentally sensitive habitats, minimizing blue light helps reduce its impact on both humans and the surrounding critical ecosystems.

Our lighting technology makes every lumen count.™

Ahead of the industry.

Since 2013 CWES has successfully reduced the blue light content of our LEDs to less than 1% on the island of Hawaii, where the largest observatory in the world is located.



For every industry.

Particles such as dust in the air can scatter light and thus cause glare for workers, ruining visibility and posing health risks. Our lighting can reduce this glare and increase visibility– all while reducing the company's carbon footprint.

Controlling blue Light for specific applications.

"Blue light" refers to a specific wavelength within the spectrum of visible light that appears blue or violet and produces high amounts of energy. However, the blue light content in most LEDs comes at a significant cost to humans, frequently compromising human eyesight in night driving or flying. Wildlife studies indicate that blue light is also detrimental to our ecosystem. For applications where blue light suppression is needed or preferred, we have successfully reduced the blue light content of our LEDs to less than 1%.

Our lights reduce the glare of street lights without sacrificing visibility; they increase the overall visibility in a space without glare or increased carbon footprint; they positively impact the health of humans and animals alike.

Our LED lighting can

What is your the objective of your lighting?

- » What is its function in relation to your facility?
- » Is the lighting intended for nighttime operations?
- » Do you need to reduce or control blue light?
- » Are there security issues that need to be addressed?

What do your workers need to see?

- » Do they need to identify hairline fractures in materials?
- » Do they need to see a speck of dirt or dust?
- » Do they need to see a gauge or an instrument clearly?
- » Is the environment they are working in hazardous?



Help us help you achieve your objectives by controlling the spectrum.

control the light spectrum.



Energy efficient & durable lighting design.

C&W ENERGY SOLUTIONS

CWES is a company with a history of research, engineering, and design uniquely positioned to address your organization's individual needs. We are able to respond quickly and personally to provide new and custom products. CWES is proud to support our customers with impressive and experienced team members.

FOXCONN MANUFACTURING

Foxconn-the manufacturer for some of the most valuable brands in the world, including mega brands Apple, Sharp, and Sony-supplies the light engines used on all of our products, and their LED engineering department has even worked with us to create special custom optics for CWES products.

LOCAL MEMBERS

A group of Arizona companies support metal fabrication, product testing, custom painting, injection molding, other critical items.

Work with the best

The word pioneer is often overused. Robert Adams PhD, however, is a true pioneer in the industry. Beginning his work in the LED industry in the 1970's at Texas Instruments, Dr. Adams continues to innovate the LED lighting field through the control of the color spectrum. Founding C&W Energy Solutions (CWES) in 2011, the company has been a leader in the industry with an unparalleled level of quality and expertise–both in business practices and technical knowledge.

SPANNING THE INDUSTRY

From manufacturing facilities, factories, garages and streetlights to commercial buildings and airports, CWES's technology can solve any lighting problem. With an emphasis on ecofriendliness and energy efficiency, we strive to create lighting solutions that effectively provide illumination while reducing environmental impact and protecting dark skies.

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