LEDway®

The Difference You Can See

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Engineered for energy efficiency and environmental sustainability, LEDway is a versatile, high-performance street lighting solution from BetaLED® designed specifically for street and roadway applications. LEDway is easily retrofitted onto existing mounting systems, making it simple and affordable to invest in state-of-the-art technology.

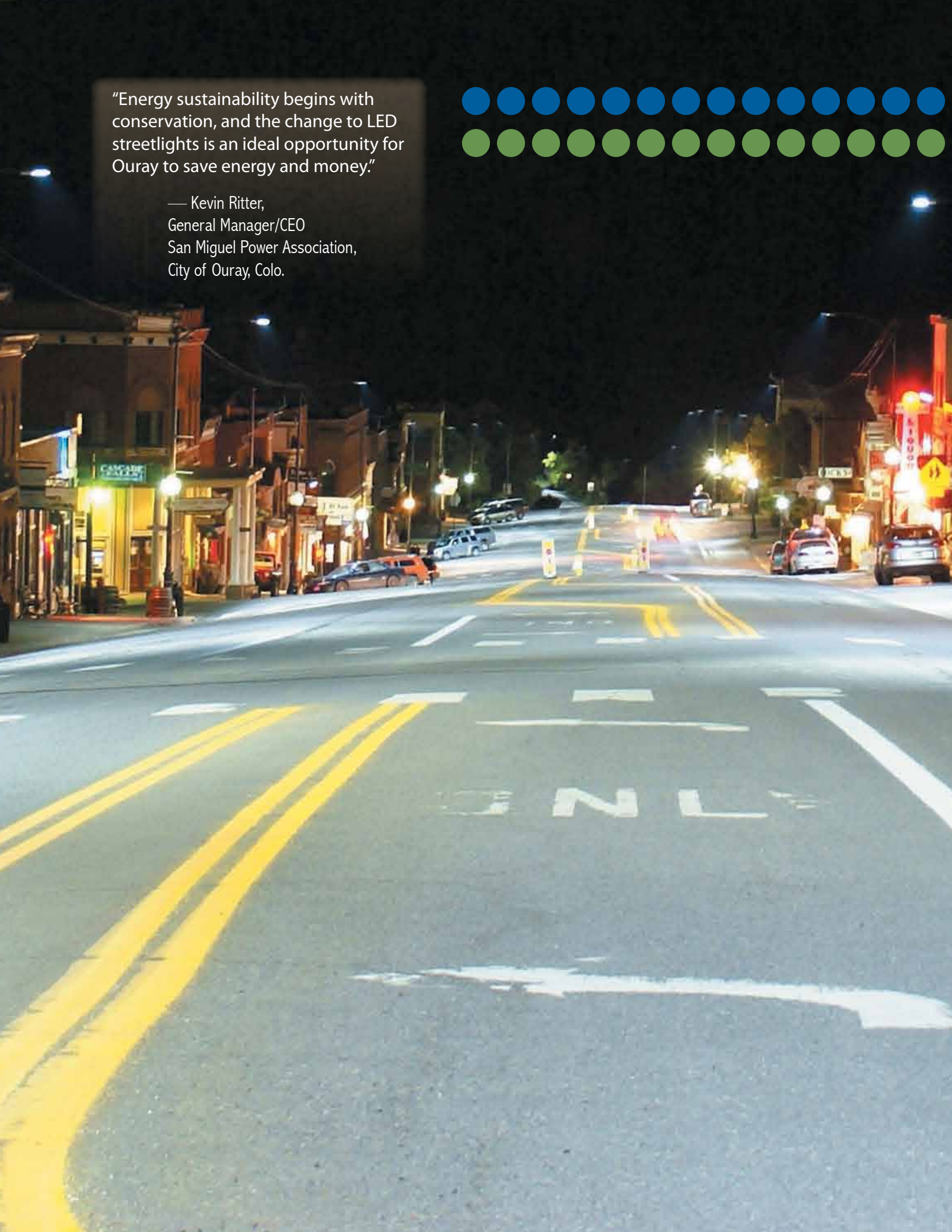
Proven Performance

With thousands of installations around the world, BetaLED leads the industry with proven performance in LED lighting for general illumination. We are committed to bringing continuous LED innovation to the industry and your community. BetaLED uses the best available LEDs, driver technology, and optics to reduce energy usage, maximize performance and ensure a long-life system.

Our case studies and product reports on advancing LED product technology are used by many third-party organizations including **California Lighting Technology Center** (CLTC), the **U.S. Department of Energy** (DOE), and many more.

Light the Way

Show the world your community is environmentally conscious and leading the charge to reduce energy demand and greenhouse gas emissions. LED technology helps you set the example, achieve sustainability goals and improve your community's quality of life.



"Energy sustainability begins with conservation, and the change to LED streetlights is an ideal opportunity for Ouray to save energy and money."

— Kevin Ritter,
General Manager/CEO
San Miguel Power Association,
City of Ouray, Colo.

See Your Community in a Better Light

Reduce Your Cost

A lower total cost of ownership allows you to be flexible with your operating or capital expenses. A typical energy savings of 40 to 60%, near zero maintenance costs, and fast payback help you free up funds for other high priority projects.

Create More Jobs

Supply chain experts determined for every 100,000 units, BetaLED and its suppliers would create approximately 227 jobs throughout the U.S. not to mention the jobs created to install each batch of LEDway streetlights in local communities. **LEDway Streetlights meet the requirements of the Buy American Act; Section 1605 of the American Recovery Reinvestment Act and are made in the USA of U.S. and imported parts.**

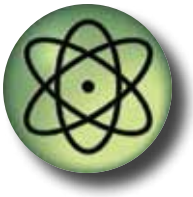
Increase Safety

LEDway delivers higher quality light for improved color rendition and visibility. Patented NanoOptic™ product technology delivers greater uniformity, eliminating dark spots between fixtures that help to create a safer environment for vehicle and pedestrian traffic.

"It's important for PG&E to deliver a consistently high level of quality products and services to customers. PG&E selected BetaLED LEDway fixtures for their reliability and high performance standards."

— John Sofranac,
Manager of Street and Outdoor Lighting Programs
Pacific Gas and Electric Company

Invest in Sustainability



Use Less Energy

Energy savings from LEDway streetlights, for typical street lighting applications, is generally 40-60% compared to traditional high-intensity discharge (HID) products. Lighting controls using wireless and power line carrier technology can be added to further enhance overall energy savings.

Control Light Pollution

LEDway streetlights comply with IESNA and International Dark Sky Association guidelines. Patented NanoOptic product technology within LEDway directs light into target areas, without spilling onto neighboring properties or into the night sky.

Eliminate Hazardous Materials

LEDway streetlights are Restriction of Hazardous Substances (RoHS) compliant. No mercury or other hazardous substances are used compared to traditional sources that present potentially hazardous disposal and environmental issues.

Lower Greenhouse Gas Emissions

LED streetlights reduce the amount of energy used and ultimately help to reduce the carbon footprint of your municipality. The DOE estimates rapid adoption of LED over the next 20 years can eliminate 258 million metric tons of carbon emissions.

Real-World Results

After an expansive test of LED luminaires from various manufacturers, BetaLED products met or exceeded the expected performance, cost savings, and sustainability goals of this project."

— Ed Ebrahimian,
General Manager of the Bureau of Street Lighting
City of Los Angeles, Calif.

"LEDway Streetlights are a big improvement over the old cobra heads. The light is distributed more accurately and creates a better contrast so colors and objects are easier to identify."

— John Rooney,
Assistant Commissioner of Public Works/Engineering
City of Racine, Wis.

"The quality of light on the roadways is greatly improved and people really like the sleek look of the fixtures."

— Kim Alderfer,
Assistant City Administrator/Recovery Coordinator
City of Greensburg, Kan.

For more real-world results, visit LEDway.com/LED-Applications/Case-Studies.aspx

Improve Quality of Life

Reduce, Reuse, Recycle

LEDway products are made using a total of 20-25% (by weight) post consumer recycled materials (aluminum castings and extrusions). Seventy percent (by weight) of LEDway components are aluminum castings and extrusions that are readily recyclable. Corrugated packaging is 100% recyclable.

Less Landfill Waste

The extended life rating of an LED fixture means that less waste from fixture components is sent to landfills each year. Less waste from relamping and disposal means less pollution, less soil contamination, and less environmental noise from maintaining the landfill.

Improve Service to Residents

It's predicted each LEDway streetlight will deliver more than 15 years of reliable service. With increased fixture reliability and significantly less fixture outages, residents enjoy uninterrupted service and a safer environment.

Retrofit to a New Look

If retrofitting makes financial sense, LEDway can be installed onto existing mounting systems to replace traditional streetlights. LEDway streetlights can be installed in a matter of minutes saving your community time and money.

Real-World Results

"Residents are very pleased with the minimal light trespass onto their properties and they like natural color of the light emitted from the new fixtures — it reminds them of moonlight."

— Mayor Bob Risch,
City of Ouray, Colo.

"We are serious about reducing energy usage in our community. Our efforts not only improve our bottom line, but will also create a healthier environment for our citizens."

— Mark Begich,
U.S. Senator and former mayor
City of Anchorage, Alaska

"LED streetlights are more energy-efficient, offer significant long-term savings and can help contribute to improved public safety."

— Mayor Gavin Newsom
City of San Francisco, Calif.

For more real-world results, visit LEDway.com/LED-Applications/Case-Studies.aspx

Support Domestic Initiatives

Installing energy-efficient, American-made LED streetlights is a proven way to support the goals of the American Recovery and Reinvestment Act (ARRA). BetaLED products, including LEDway streetlights, are manufactured in the United States and satisfy the requirements of the Buy American provision within the ARRA.

Common questions regarding the Buy American provision include:

What are the conditions of the Buy American Act within the ARRA?

When using funds appropriated under the American Recovery and Reinvestment Act of 2009, the definition of "domestic manufactured end product" requires that the product be manufactured in the United States, but does not include the requirement with regard to the origin of the components.

What is the Buy American provision within the Recovery Act?

The Buy American provision restricts the purchase of supplies that are not domestic end products. There is no requirement with regard to the origin of components or subcomponents in manufactured goods.

Is the Buy American provision the same as "Made in the USA"?

No. They are two different claims. Made in the USA claims are governed by the Federal Trade Commission (FTC).

Where can I find more information about the Buy American provision?

Visit the following Websites to learn more about the Buy American restrictions:

www.LEDway.com

www.recovery.gov

www.energyempowers.gov

www.mayors.org

www.eecbg.energy.gov

"This is an example of the kind of innovation that is needed to help us achieve greater energy efficiency."

— Lloyd Yates, President and CEO
Progress Energy Carolinas
Raleigh, N.C.

Take A Closer Look at LEDway Streetlights

Patented NanoOptic™ Product Technology

Our exclusive NanoOptic is a direct-contact refractor that minimizes light losses and provides superior target performance. Light from LEDway luminaires is directed where it's intended, with minimal waste. More than 19 different optical distribution patterns are available to help you fully customize LEDway products for your specific application and project goals.

More Light Output with Less Energy

The effective combination of NanoOptic technology and driver efficiency allows LEDway to deliver significantly improved overall lighting performance using less energy compared to traditional systems.

The Power of Flexibility

The limitations of a fixture should not dictate the success of your street lighting project. LEDway streetlights are available in a variety of optical and power configurations so you don't have to sacrifice energy savings to achieve the performance your application requires. LEDway products can be completely customized by using incremental wattages and the right number of LEDs to meet the recommended light levels required by your application.

Efficient Thermal Management

Proper thermal management is the key to maximum initial and long term LED system performance. Each light module is mounted to a high-performance heat sink and the housing's unique open top and flow-through design optimizes the total performance of the product.

Rigorous Product Testing

LEDway fixtures undergo a multitude of testing during all stages of engineering and manufacturing to comply with industry standards and our own strict quality and performance standards. A few categories of testing methodology performed include:

- Thermals
- Light Output
- Optical Performance
- Electrical
- Environmental
- Assembly
- Packaging

A Long-Life LEDway Deserves a Long-Life Finish

DeltaGuard® is the finest industrial grade finish available in the industry and is exclusive to BetaLED products. Our exclusive immersion process sends the product through six cleaning and eight pretreatment stages. An epoxy e-cote is applied before the ultra-durable topcoat is baked on providing a four-to-five-mil thick finish.

DeltaGuard is truly an outstanding finish that provides:

- Ultraviolet Light Resistance
- Abrasion Resistance
- Maximum Adhesion
- Corrosion Resistance
- Colorfast Protection

5 • 5 •10 Warranty Protection

We guarantee superior quality by offering a five-year limited warranty on the LEDway LED product and driver, a five-year limited warranty on the LED, and a 10-year warranty on our DeltaGuard® finish.

LEDway Product Features

Drive Current Flexibility

Fixed: 350mA, 525mA, 700mA

Variable with Dimming Capabilities:

350mA, 525mA, 700mA

IESNA Roadway Optics

Type II (Short or Medium)

Type III (Short or Medium)

Type IV (Short or Medium)

Type V

Color Temperature

Standard 6000K

3500K and 4300K available

Color Rendering Index (CRI)

70CRI or Greater

Additional Standard Features

Tool-Less Entry

Quick Connectors

Surge Suppression rated up to 9 KV

Horizontal Tenon Mount

±5º Vertical Adjustment w/ 2 ½º Steps

Bubble Level

Modular Design

Die-Cast and Extruded-Aluminum Housing

UL, cUL Listing

Quick Disconnect Harness

RoHS Compliant

Available Options

NEMA Twist and Lock Receptacle

347-480V (Universal)

Single & Dual Fusing

Two Level With or Without Sensor

0-10V Dimming

Vertical Tenon Mount Adaptor

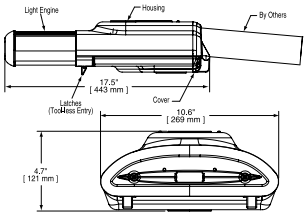
Door Safety Tether

Backlight Control Option (II,III,IV)

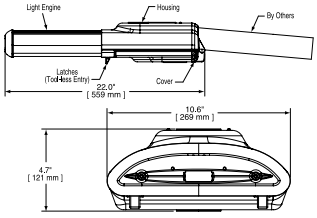
Colors

Silver | Black | White | Bronze | Platinum Bronze

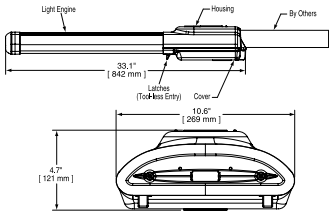
20-30 LEDs



40-60 LEDs



80-120 LEDs



Catalog Logic

STR	LWY	4M	HT	08	C	UL	SV	350
Product	**Family**	**Optic**	**Mounting**	**Number of LEDs**	**LED Performance Generation**	**Voltage**	**Color Options**	**Options (factory installed)**
STR Streetlight	**LWY** LEDway	**2M** Type 2 Medium **2S** Type 2 Short **2MB** Type 2 Medium w/Backlight **2SB** Type 2 Short w/Backlight **3M** Type 3 Medium **3S** Type 3 Short **3MB** Type 3 Medium w/Backlight **3SB** Type 3 Short w/Backlight **4M** Type 4 Medium **4S** Type 4 Short **4MB** Type 4 Medium w/Backlight **4SB** Type 4 Short w/Backlight **5M** Type 5 Medium **5ST** Type 5 Short	**HT** Horizontal Tenon **AA** Adjustable Arm	**02** 20 **03** 30 **04** 40 **05** 50 **06** 60 **08** 80 **09** 90 **10** 100 **11** 110 **12** 120	**C**	**UL** Universal (120 - 277V) **UH** 347/480V	**SV** Silver **BK** Black **BZ** Bronze **WH** White **PB** Platinum Bronze	**350** 350mA Drive Current **35K** 3500K Color Temp. **43K** 4300K Color Temp. **700** 700mA Drive Current **DIM** 0-10V Dimming (control by others) **F** Fuse **HL** Hi/Lo (175/350/525, dual circuit input) **N** No Quick Disconnect Harness & Leveling Bubble **R** NEMA Photocell Receptacle **SC** Door Safety Tether **IP66** IP66 Classification **TL** Two Level (175/525 w/integrated sensor) **TL1** Two Level (350/700 w/integrated sensor) **TL2** Two Level (0/350 w/integrated sensor) **TL3** Two Level (0/525 w/integrated sensor) **TL4** Two Level (0/700 w/integrated sensor)

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BetaLED, a Ruud Lighting company, was established to dedicate resources to the emerging use of LED technology for general illumination. BetaLED provides the lighting industry with high-quality, specification-grade luminaires for interior and exterior lighting applications.

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Product group from well-managed forests, controlled sources and recycled wood or fiber
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