



LIGHTING OF SPORTS FACILITIES

LIGHTING OF OPEN AND INDOOR SPORTS FACILITIES

LIGHT MEANS EFFICIENCY

LIGHTING OF SPORTS FACILITIES

The lighting of sports facilities is crucial to ensure quality conditions for athletes, coaches and spectators. Properly designed lighting increases optimal visibility, reduces energy and maintenance costs, and is environmentally friendly. Each sport has its own specific lighting requirements, the fulfillment of which will improve performance and the overall atmosphere at sports facilities.



RECOMMENDED PRODUCTS



FLOODLIGHT ARENA

We used Floodlight Arena floodlights to illuminate the BayArena stadium of Bayer 04 Leverkusen football club. Each floodlight is individually controllable, allowing you to customize lighting scenarios at the touch of a button. This advanced system not only meets but exceeds UEFA standards.



WE ILLUMINATED THE
BAYARENA STADIUM OF
THE BAYER 04
LEVERKUSEN FOOTBALL
CLUB





FLOODLIGHT MAX

- Modular high-efficiency floodlight luminaire, up to 137 lm/W
- Can be installed together or separately with Floodlight Max power supplies
- Available with distribution angles of 10°, 30° and 60°, and an asymmetrical beam of 50° × 110°
- Mounting bracket that allows tilting up to 180°
- Transparent tempered glass diffuser



FLOODLIGHT FLEX

- Highly functional outdoor luminaires, lighting for sports grounds and fields
- High energy saving due to luminous efficacy of 160lm/W
- Class C5 corrosion resistance, ideal for use in coastal areas
- MULTI LUMEN function makes it easy to adjust brightness levels to meet specific needs
- The 2200 K version is ideal for illuminating the facades of exposed buildings



HIGH MAST FLOOD

- High-efficiency floodlight with luminous efficacy up to 140 lm/W
- Replacement for luminaires with mercury vapor or metal halide lamps
- Highly transparent tempered glass diffuser
- Lifetime (L80/B50): up to 100,000 hours (at 25°C).
- Both symmetrical and asymmetrical optics are available for different application areas, such as for mounting on high masts, large spaces, sports facilities



FLOODLIGHT AREA

- Asymmetrical distribution: 48° × 92°
- Rugged construction: IP65, IK08, temperature resistance -30 to +50 °C, surge protection up to 6 kV (L/N-PE)
- Integrated breather for preventing condensation inside the luminaire
- Pre-installed 1 m flexible cable (H05RN-F)



HIGH BAY GEN 5

- Suitable for industrial applications due to its wide temperature range and long service life
- High versatility with a choice of light outputs
- Energy savings of up to 70 % compared to conventional recessed luminaires
- Suitable for use in dusty and damp locations thanks to high IP rating
- Also available in DALI version



LOW BAY FLEX BALL PROOF

- Luminaires with increased resistance (e.g., to ball impact) suitable for gymnasiums
- Energy-saving thanks to high luminous efficacy
- Modern and robust design
- Pendant and surface mounting
- 5-year guarantee



AREAS OF APPLICATION

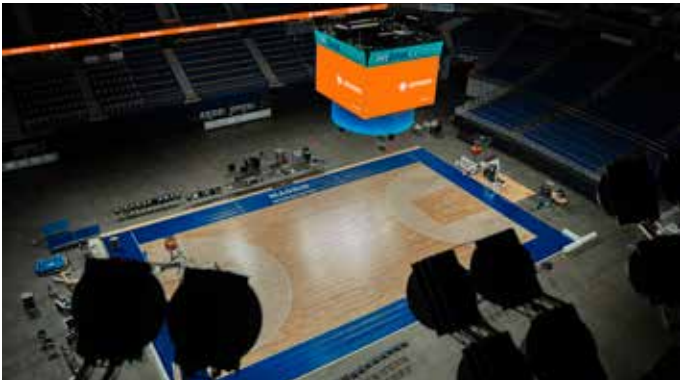
OPEN AND INDOOR SPORTS FACILITIES



FIELD HOCKEY ARENAS



INDOOR TENNIS COURTS



BASKETBALL BASKETBALL COURTS



MULTI-PURPOSE INDOOR SPORTS HALLS



FOOTBALL STADIUMS



SWIMMING POOL HALLS



CROSS-COUNTRY SKI TRAILS



MULTIPURPOSE OUTDOOR PLAYING FIELDS

FLOODLIGHT MAX: HIGHLY EFFICIENT AND ECONOMICAL

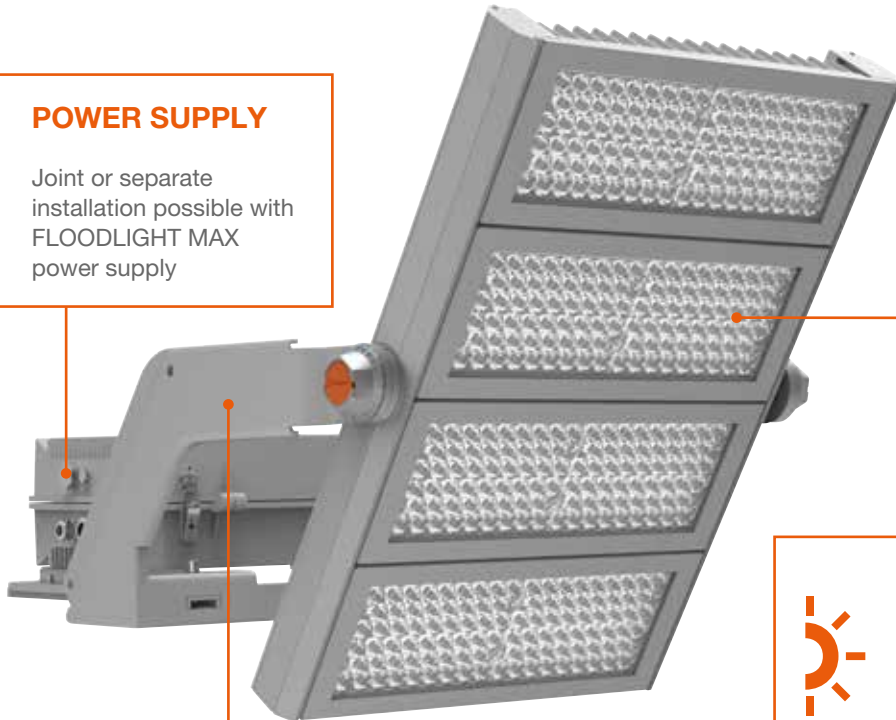
Extremely durable, yet modular and efficient luminaire with four light distribution angles and a luminous flux of up to 164,000 lumens. An effective replacement for luminaires with high-pressure discharge lamps of up to 2 kW.



POWER SUPPLY



Joint or separate installation possible with FLOODLIGHT MAX power supply



HIGH-EFFICIENCY LEDS



Modular reflector luminaire with high efficiency, up to 137 lm/W.

TILT UP TO 180°

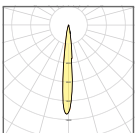


Mounting bracket allowing up to 180° tilt. Zero upward light distribution (ULOR 0%) when mounted at 0°.

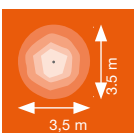
DISTRIBUTION VARIANTS

Available with distribution angles of 10°, 30° and 60° and an asymmetrical beam of 50° × 110°.

SYM 10 distribution

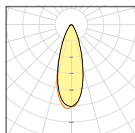


Symmetrical distribution of 10°
Lighting for small spaces with high illumination requirements

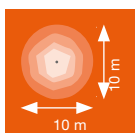


500 lx $U_0 > 0.7$

SYM 30 distribution

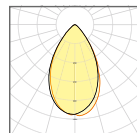


Symmetrical distribution of 30°
Lighting of sports grounds and areas requiring high intensity lighting

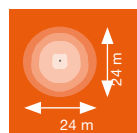


300 lx $U_0 > 0.7$

SYM 60 distribution

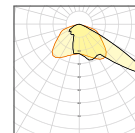


Symmetrical distribution of 60°
Lighting of sports grounds and areas requiring high or medium intensity lighting

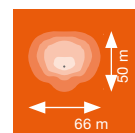


120 lx $U_0 > 0.7$

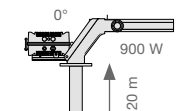
ASYM 50 × 110 distribution



Wide asymmetrical distribution angle of 50° × 110°
Lighting of grounds, parking lots and sports fields



20 lx $U_0 > 0.25$



A typical application where products are installed as shown. The gray dot indicates the position of the boom.



FIELD HOCKEY ARENA WERK ARENA TŘINEC

The field hockey club HC Oceláři Třinec is a 6-time champion of the Czech Hockey Extraleague, and in 2024 it also became the best European team according to the E.H.C. Alliance. However, its home arena, the WERK ARENA, has long struggled with insufficient rink lighting. That's why LEDVANCE created a lighting design using ceiling-mounted luminaires - HIGH BAY. This new solution meets the requirement of a minimum of 1,000 lux vertically in the conical area that represents a player moving on the ice. With this solution, TV broadcasts of field

hockey games can be carried out without interference, and cameras can focus and concentrate on even the finest details of the game. In addition, the lighting is controlled via the DALI bus and it is possible to adjust the intensity of the lighting to the needs of the playing area, thus further reducing energy consumption to the minimum necessary.

LEDVANCE® HIGH BAY DALI 190 W 4000 K 70DEG IP65

- Replacement for tubular luminaires
- Luminous flux up to 30,000lm
- DALI 2.0 interface for dimming and sensor operation
- Low ripple light thanks to a special ECG
- High efficacy: up to 140 lm/W
- Energy savings of up to 70 % compared to conventional recessed luminaires



LEDVANCE® HIGH BAY ALU REFLEKTOR 147 190 210W

- High quality aluminum reflector





ORDERING PARTY:
WERK ARENA TŘINEC

PROJECT:
Field hockey arena

TYPE:
Sports facility

TECHNOLOGY:
LED

PRODUCTS:
LEDVANCE® HIGH BAY DALI 190
W 4000 K 70DEG IP65
LEDVANCE® HIGH BAY ALU
REFLEKTOR 147 190 210W





MULTI-PURPOSE OUTDOOR SPORTS FIELD

JÍLOVIŠTĚ

The municipality of Jíloviště commissioned a project to build a multi-purpose court for tennis, volleyball, volleyball or basketball, including the installation of new lighting. LEDVANCE Floodlight Max luminaires of 900 W were used for the project, featuring high luminous efficacy of up to 135 lm/W and a combination of 30° and 60° symmetrical optics. Thanks to its robust construction and high durability, the luminaire is ideal for outdoor use - it can operate in a temperature range

of -30 to +50 °C with IP66 protection. Compared to traditional luminaires using HID light sources, the luminaire is more energy efficient and offers up to 45% energy savings. The result of the project is a modern and energy-efficient lighting system for a multi-purpose field, which will allow for peaceful training and professional matches.



LEDVANCE® FLOODLIGHT MAX

- Direct replacement for luminaires using HID light sources
- Available with symmetrical distribution angles of 10°, 30° and 60° and asymmetrical distribution of 50° x 110°
- Transparent tempered glass diffuser
- Modular floodlight with high efficiency up to 135 lm/W
- Up to 45% energy savings compared to discharge lamps





ORDERING PARTY:

Jíloviště municipality

PROJECT:

Multipurpose field

TYPE:

Sports facility

TECHNOLOGY:

LED

PRODUCTS:

LEDVANCE® Floodlight MAX





FOOTBALL FIELD

RAFK RAJHRAD

The executive committee of the football club wanted to upgrade the football field lighting. The football field has 10 lighting poles, and each pole had a combination of sodium lamps and 2500 W halogen floodlights. The lighting design was based on the CSN EN 12193 sports field lighting standard, but only for training purposes, which are currently sufficient for the club. If professional matches were to be held on the field, the lighting standard is more stringent.

LEDVANCE Floodlight Performance luminaires with an input power of 290 W, high luminous efficacy of up to 140 lm/W, asymmetrical optics (beam angle of 55x100°), light color

temperature of 4000 K and IP66 protection rating were used. The luminaire has a robust black aluminum housing with tempered glass and can operate in a temperature range of -30 to +50°C, which is essential for outdoor use. Taking advantage of the existing pole location, which is a common requirement in this type of project, the 1:1 luminaire was replaced with LEDVANCE LED floodlights. The luminaire distributes light very uniformly and with low glare. If the luminaire is installed with zero tilt, the upward light distribution is zero, and the luminaire does not generate unnecessary light smog in the upper half-space.



LEDVANCE® FLOODLIGHT PERFORMANCE

- Replacement for floodlights with halogen lamps
- Asymmetrical light distribution: 55°x100°
- Black aluminum housing with tempered glass
- High efficacy: up to 140 lm/W
- Energy savings of up to 90% compared to halogen floodlight luminaires
- Elimination of light smog in zero-tilt installation



**ORDERING PARTY:**

FC RAFK Rajhrad Executive Committee

PROJECT:

Lighting of the RAFK Rajhrad football field

TYPE:

Gymnasiums

TECHNOLOGY:

LED

PRODUCTS:

LEDVANCE® Floodlight Performance





FOOTBALL STADIUM

BAYARENA, LEVERKUSEN, GERMANY

The Bayer 04 Leverkusen team had to upgrade the BayArena's lighting to meet UEFA Elite Level A standards and ensure optimal visibility for both stadium fans and global broadcasters, while maintaining energy efficiency.

Bayer 04 Leverkusen's new lighting system includes indirect lighting provided by 36 roof segments, each equipped with four RGB floodlights and one Floodlight Arena red-only floodlight. The combination of RGB and red-only floodlights creates dynamic, atmospheric lighting, ideal for soccer matches. A total of 324 fixtures are installed on the inner rings, while the stands are illuminated by 60 Quattro fixtures that incorporate both white and RGB LEDs to enhance the visual experience with vibrant colors. The system allows precise adjustment of lighting levels for high camera positions and ensures consistent lighting quality. It also meets stringent vertical illumination re-

quirements in four perpendicular directions, optimizing visibility from multiple angles. Each floodlight is independently controllable, allowing you to customize lighting scenarios at the touch of a button. This advanced system not only meets but exceeds UEFA standards, ensuring readiness for major games, including Champions League matches.

The BayArena project marks another milestone in the partnership between LEDVANCE and Bayer 04 Leverkusen. Back in 2023, LEDVANCE developed a state-of-the-art lighting concept for the Ulrich Haberland Stadium, home of the women's Bundesliga team Bayer 04 Leverkusen.

LEDVANCE® FLOODLIGHT ARENA

- Luminous flux 48,500 lm (SOLO), 97,000 lm (DUO), 194,000 lm (QUATTRO)
- Available in light color temperatures of 5700 K, 4000 K, 3000 K
- Options for color rendering index CRI - 70, >80 and ≥95 (TLCI 90)
- Available with distribution angles of 10°, 15°, 25°, 35°, 45° and 60°
- Low ripple
- Luminaires with increased resistance (e.g., to ball impact) suitable for gymnasiums
- Dimmable: DALI, DMX, 0-10V





ORDERING PARTY:

Bayer 04 Leverkusen Fußball GmbH

PROJECT:

Bay Arena football stadium lighting

TYPE:

Lighting of sports facilities

TECHNOLOGY:

LED

PRODUCTS:

LEDVANCE® FLOODLIGHT
PERFORMANCE



BAYARENA FOOTBALL
STADIUM, LEVERKUSEN,
GERMANY





BASKETBALL HALL

WIZINK CENTER, MADRID, SPAIN

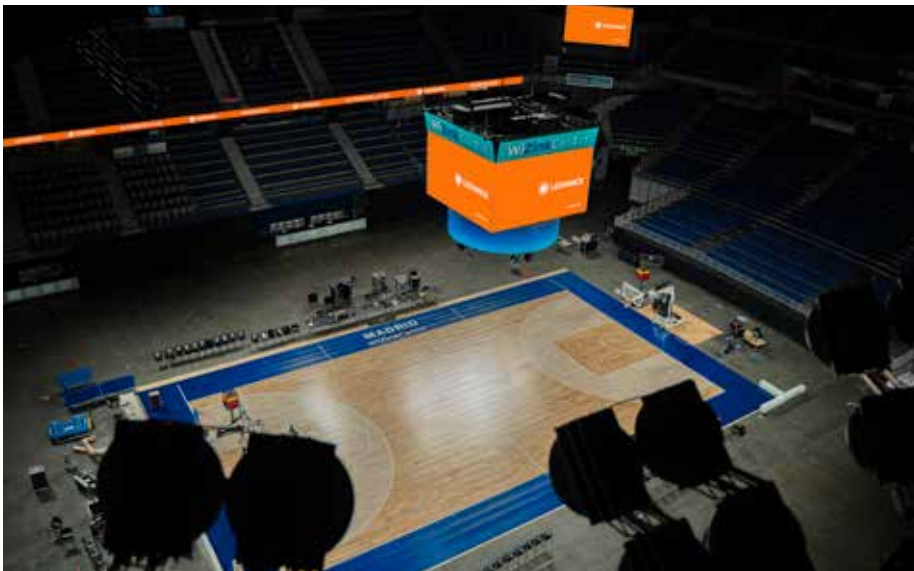
With a capacity of up to 18,000 spectators, the Wizink Center in Madrid serves as the home arena for the CB Estudiantes and Real Madrid Baloncesto teams. In order to ensure international FIBA standards and improve the experience for players and spectators, the lighting needed to be upgraded. LEDVANCE was selected to design and implement a new lighting concept that meets FIBA's requirements for international basketball games, exceeds a brightness of 2,000 lux and increases the quality of light to Ra 91. The lighting was designed to provide optimal color rendering, reduce glare and allow

flexible adjustment of light output via DMX control. The system improves light quality and reduces maintenance costs through long life. Reflectors with 15° and 25° angles effectively focus the light. External power supplies for the 56 projectors, each with 1280 watts of power, allow maintenance from the ground without the use of cranes. This upgrade significantly improves the experience at basketball games and cultural events, preparing the Wizink Center for future international competitions.

LEDVANCE® FLOODLIGHT ARENA

- Luminous flux 48,500 lm (SOLO), 97,000 lm (DUO), 194,000 lm (QUATTRO)
- Available in light color temperatures of 5700 K, 4000 K, 3000 K
- Options for color rendering index CRI - 70, >80 and ≥95 (TLCI 90)
- Available with distribution angles of 10°, 15°, 25°, 35°, 45° and 60°
- Low ripple
- Luminaires with increased resistance (e.g., to ball impact) suitable for gymnasiums
- Dimmable: DALI, DMX, 0-10V





ORDERING PARTY:

Impulsa Eventos SL

PROJECT:

Lighting of multi-purpose sports hall

TYPE:

Lighting of sports facilities

TECHNOLOGY:

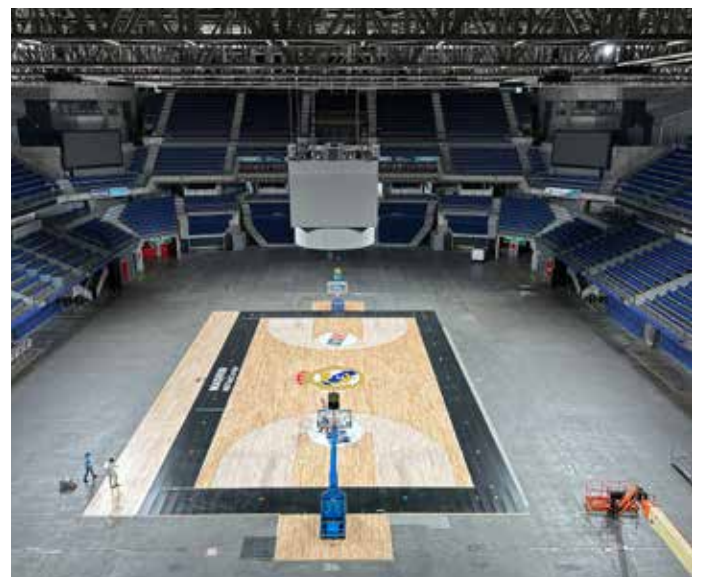
LED

PRODUCTS:

LEDVANCE® FLOODLIGHT
PERFORMANCE



WIZINK CENTER
BASKETBALL HALL,
MADRID, SPAIN





SWIMMING POOL COMPLEX SON HUGO, PALMA DE MALLORCA, SPAIN

We upgraded the outdoor lighting of the Son Hugo municipal pools in Palma de Mallorca with innovative LED floodlights. The project included replacing old HID floodlights with 84 LED luminaires in two versions, increasing energy efficiency and reducing maintenance costs. The new lighting meets Class I requirements for hosting local, national and international swimming competitions. The ECO Floodlights 500W LED floodlights have a lifespan of 50,000 hours and a 5-year warranty, offering a luminous efficiency of 122 lm/W and

a luminous flux of up to 61,000 lm. This upgrade has improved light quality, ensuring uniform light distribution and meeting the requirements of international competitions. The switch to LED technology reduced energy costs by about 50% and optimized equipment maintenance. LEDVANCE took care of comprehensive project management, from planning to implementation, which helped place Son Hugo Pools among the most modern and sustainable sports facilities.



LEDVANCE® FLOODLIGHT MAX

- Modular high-efficiency floodlight, up to 137 lm/W
- Can be installed together or separately with Floodlight Max power supplies
- Available with distribution angles of 10°, 30° and 60°, and an asymmetrical beam of 50° x 110°
- Mounting bracket that allows tilting up to 180°
- Transparent tempered glass diffuser





ORDERING PARTY:

Son Hugo Municipal Pools, Palma de Mallorca, Spain

PROJECT:

Replacement of lighting at outdoor pools

TYPE:

Lighting of sports facilities

TECHNOLOGY:

LED

PRODUCTS:

LEDVANCE® Floodlight Max

LEDVANCE® Floodlight Eco



LEDVANCE® ECO FLOODLIGHTS

- Energy savings of up to 90% compared to halogen floodlight luminaires
- Up to 45% energy savings compared to discharge lamps
- Uniform light output
- Rotating symmetrical beam for illuminating spaces from tall poles
- Different versions are available with different types of light distribution
- Mounting bracket that allows tilting up to 180°

IP65

IK08

LEDVANCE
5 YEARS
GUARANTEE



CROSS-COUNTRY SKIING CENTER SKISTAR, VEMDALEN, SWEDEN

LEDVANCE has created a lighting solution for the SkiStar cross-country ski resort in Vemdalen, northern Sweden. The goal was to provide a high standard of lighting, minimizing environmental interference and respecting the needs of local fauna, especially reindeer. The lighting was also intended to allow the trail to be used after dark during the long winter.

After consultations, the LEDVANCE concept was decided on, with 100 masts installed with STREETLIGHT FLEX SM RV25STP 25W LED luminaires. The luminaires provide high light uniformity, a luminous efficiency of 135 lm/W and a luminous flux of 3370 lm, which meets the specified lighting quality requirements. They also prevent light leakage (ULOR 0%) and minimize light pollution. The design of the luminaires is robust and can operate at temperatures from -40 to +50°C, ensuring long-lasting performance even in harsh conditions.

This upgrade extends the SkiStar resort's operating hours and allows ski enthusiasts to enjoy the prepared trails throughout the winter, while minimizing the negative impact on the surrounding nature. The solution offers efficient and sustainable lighting that complies with environmental requirements.



LEDVANCE® STREETLIGHT FLEX SMALL

- Durable design and selection of the highest quality components for long-lasting performance
- Quick and easy wiring thanks to tool-free case opening and push-in terminal block
- High luminance uniformity
- There are 3 light colors available, which are perfect for illuminating a wide range of objects
- Zero upper luminous flux of the luminaire (ULOR 0%) when mounted at an angle of 0°





ORDERING PARTY:

SkiStar cross-country ski trail

PROJECT:

Lighting of cross-country ski trails

TYPE:

Outdoor lighting

TECHNOLOGY:

LED

PRODUCTS:

LEDVANCE® Streetlight Flex Small



SKISTAR CROSS-
COUNTRY SKI TRAIL,
VEMDALEN, SWEDEN



About Ledvance

With business activities in over 140 countries, LEDVANCE is one of the world’s leading general lighting companies. Emerging from OSRAM’s general lighting division, LEDVANCE’s portfolio includes LED lamps and luminaires, intelligent lighting products, traditional lamps and renewable energy solutions.
#POWERTHROUGHLIGHT



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WE PROUDLY PRESENT OUR ADVANCING SOLAR ENERGY

As lighting enthusiasts, we were inspired by the sun on our way to a greener future. The result is LEDVANCE Renewables, an integrated solar energy solution for the building sector that covers not only energy generation but also its storage and use as well as integration into power systems. It enables private and business customers to use the power of the sun to generate their own clean energy, be less dependent on fossil energy sources and minimise their impact on the environment.



Embrace a greener future with LEDVANCE Renewables and start generating your own clean energy today. Visit pv.ledvance.com to explore tailored solutions and efficient energy management.



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