Das gute Licht
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Cover story
Linz · Historical architecture in a new light

Know-how
BEGA Smart · Ideal control of Plug & Play
BEGA Hybrid Optics® · Good light for indoors and out
Linz, Oberösterreich
Historical architecture in a new light

BEGA Smart
Intuitive control of BEGA Plug & Play

BEGA Hybrid Optics®
Complete light control
Dear reader,

Our high-quality luminaires, good architecture and the right installation site for lighting tools make a harmonious triad for efficient and impressive lighting scenarios. Our concept of consistency in the shape and quality of our luminaires assists our partners and customers in their work. Reliably and independently of the type of luminaire, we offer a variety of products for versatile design alternatives.

When using various luminaire combinations, committed planners document the versatility of our products. At the historical head office of the Sparkasse Oberösterreich bank in Linz, an impressive combination of our indoor and outdoor luminaires was achieved which excellently highlights the architecture.

In the smart world of convenient controls and networking options, our solutions are highly in demand. BEGA Smart is another of our successful developments: self-explanatory, quick to set up, it can be extended flexibly at any time.

Our continually developing technologies are particularly important to us. As protected trademarks, they are unique selling points on the market, oriented based on the needs and desires of our customers. In this edition, I would like to present our BEGA Hybrid Optics® to you.

I hope you will enjoy reading our magazine! Yours,

Heinrich Gantenbrink
Lighting scenarios for historical architecture

BEGA luminaires emphasise the unique characteristics of a representative building in Linz from the 19th century
At first, the order was relatively small: For the historical head office of the Sparkasse Oberösterreich bank in Linz, architects Eva-Maria Bauer and Gerhard Stahl were commissioned to design a commemorative plaque in honour of the founding members. However, the Linz architects determined that more effective light staging was required not only in the foyer of the executive office, which was chosen as the location for the commemorative plaque, but also for the countless architectural details on the representative building itself.

The building for the savings bank founded in 1849 was constructed according to the plans of architect Ignaz Scheck and completed in 1892. It belongs to the era of historicism, in which various older styles are referenced and sometimes combined together. Historicism attached great importance to representation, which is evidenced by the head office of the Sparkasse Oberösterreich with its stucco walls and unique architectural features.

Eva-Maria Bauer and Gerhard Stahl found a receptive audience when they requested to elaborate and emphasise the beauty of the interior spaces in a more stylish way through the purposeful use of light: “One thing led to another, and the order for a commemorative plaque became an order for renovation work in the entire foyer.”

The Linz architects developed an impressive concept out of their agreement with the building developer: “As an architect, you can’t hope for a better starting position”, says Eva-Maria Bauer. “All we had to do was transform a slightly dusty, almost religious dusty pink ambience into a bright, airy and light one.”
Cover story

© Painting
Lena Göbel
The requirements for the lighting scenario in the staircase and foyer of the head office of the Sparkasse Oberösterreich were complex: “The goal was to be able to achieve a wide variety of lighting scenarios and light effects”, says Christian Nopp, managing director of the lighting designers at “Das Licht”. “Starting from a subtle, unobtrusive, highly uniform basic illumination down to heavily accented illumination of all the magnificent details in these spaces.”

Working together, architects and lighting designers developed modern, contemporary and technically sophisticated lighting solutions. DALI components integrated in an existing KNX system enable convenient control of the various lighting scenarios for the building’s versatile uses. For instance, the foyer is also used for receptions and other public events in addition to its original purpose.

BEGA luminaires help to express the designs of lighting planners and architects. A consistent formal language, materials and colour schemes of BEGA products make it possible to combine efficient outdoor and indoor luminaires. Tunable white large-area pendant luminaires from the STUDIO LINE series of indoor luminaires, our performance floodlights and wall luminaires with very narrow beam light distribution for special illumination effects are excellent at highlighting building architecture. Compact surface washers with In-Trac adapters for EUTRAC 3-phase busbar systems are used to present artworks while also lighting the stairwell.

“BEGA luminaires have a very high quality standard and demonstrate extremely sturdy construction”, says Christian Nopp. “Precisely radiating optics were also important to us for high-contrast, customisable accent lighting – some of which very low or very narrow beam lighting for dizzying room heights.”

The sustainability and durability of the installed luminaires were other factors the planners paid attention to when considering customer satisfaction – BEGA luminaires are still able to perform reliably even after many years. ➤
The impressive skylights in the Sparkasse Oberösterreich building in Linz from the 19th century inspired architects and lighting designers to recreate daylight conditions for the illumination in the foyer on the executive level. This design for biologically effective illumination is centred around people. The effect of the degree of illuminance, the colour temperature of the light and the dynamic changes over the course of the day have a positive influence on concentration and productivity.

Ten large-area pendant luminaires from the STUDIO LINE series simulate the progression of daylight in Linz, from warm white to cold white with a colour temperature from 2700 to 6500 Kelvin. The integrated DALI components adjust the progression of daylight.

The BEGA luminaires were integrated fantastically into the existing architecture, generating a particularly impressive effect due to their excellent colour rendering. Adjustments to fulfill the requirements, some of which were highly specific, were made possible through custom production.

But sustainable design was also important to Christian Nopp: “For such a challenging project, you need a reliable partner by your side.”

The guaranteed subsequent delivery periods for any required replacement parts was also a convincing argument for working with BEGA luminaires.
BEGA Smart · The convenient app

Configure and control LED lighting systems:
BEGA Smart for lighting requirements indoors and out
After downloading the app and configuring the basic settings, the components which you would like to integrate in the lighting system can be detected using your smartphone by scanning a QR code. Self-explanatory controls via the menu enable a smooth introduction to the convenient BEGA system. Individual illumination planning can start immediately after scanning all components. Using the app, luminaire groups can be assembled and illumination scenarios can be designed intuitively.

Switching the lighting system on and off automatically depending on the time of day is another feature of the app. This will make your house seem occupied at all times, increasing your sense of security.

Smart controls for increased comfort, greater flexibility and security in buildings and their surroundings is now the standard when designing and implementing challenging lighting solutions.

The requirements for control components are clearly defined: simple installation, intuitive controls and efficient use are in demand.

Impressive lighting solutions can be designed easily with the free BEGA Smart app. The ideal introduction point is our BEGA Plug&Play lighting system.

BEGA Smart: Comfort for a secure home indoors and out
The app can also be used to control the lighting system in the immediate vicinity via Bluetooth.

Site independence and flexibility is further increased by the integration of convenient BEGA remote controls. They can also be programmed using the BEGA Smart app.

Expansion options for illumination solutions round off the smart experience.
BEGA Plug & Play is the lighting system for illumination in the garden and around the house. It offers numerous expansion options and can be configured using the free BEGA Smart app.

The Smart Tower forms the basis of the system. This is the intelligent control centre of the system and at the same time provides the necessary operating voltage of 48 V. Luminaires and Smart Extenders can be connected to the Smart Tower’s four plug contacts, expanding the system with its plug contacts to allow for additional connection possibilities.

The PRO and ONE remote controls are available for user-friendly operation of the BEGA Plug & Play system. The secure Zigbee connection of the remote controls enables switching and controlling over longer distances, up to 30 metres in an open field environment.

With BEGA Smart Socket, an additional controllable connecting pillar is available for integrating and operating luminaires with safety plugs via the Zigbee connection.

With the BEGA Zigbee LED lamps, luminaires with conventional screw base E 14 or E 27 can also be integrated into the system. This allows individual control to be easily extended to indoor spaces. For outdoor and indoor spaces, BEGA RGBW lamps allow you to create colour scenes.

The Zigbee radio network also offers additional convenient expansion options: The flexible BEGA Plug & Play system is open for Zigbee 3.0 devices from other manufacturers, ensuring a comprehensive smart illumination experience both indoors and out.

With Zigbee-enabled connecting pillars, all luminaires can be integrated into smart light controls with safety plugs.
To maximise efficiency, BEGA is increasingly using its newly developed optical system BEGA Hybrid Optics® in technical outdoor and indoor luminaires. Luminaires with this system utilise the perfect interplay of precisely dimensioned reflectors with a pure aluminium surface and lenses made of ultra-clear silicone. The main advantage: The optics capture virtually every beam of light from the LED modules and distribute them perfectly. Consistent use of high-quality components and our sustainability philosophy (including a 20-year replacement delivery guarantee for LED modules) round out the performance features of BEGA Hybrid Optics®. With all our registered trademarks, we offer guidance for achieving the highest quality as well as sustainable development of our luminaire components.

In addition to the optical systems, we also have technologies for flexible thermal management and optimal component protection as well as highly durable surface technologies for the consistent ongoing development of all BEGA components.
Efficient light distribution and a large selection of luminaires for optimal planning

Increasingly, our indoor and outdoor luminaires achieve complete light control thanks to BEGA Hybrid Optics®.

The biggest difference between hybrid optics and conventional light deflection methods, in which some of the light leaves the luminaire without being deflected: BEGA Hybrid Optics® captures nearly every beam of light, resulting in a brilliant light distribution of reflected light using reflectors and light deflected from silicone lenses.

The coordinated effect of refraction and reflection of light enables efficient highlighting of architecture or illumination of rooms.

In order to offer precisely adapted illumination solutions for as many applications as possible, the newly developed optical system is available in a wide range of luminaires.

For outdoor applications, nearly all luminaire types are represented.

For indoor luminaires, the downlights in the GENIUS series are equipped with BEGA Hybrid Optics®.

Luminaires in various sizes and outputs offer lighting planners additional flexibility for specific project implementation. Working with the required light distribution of each luminaire, BEGA Hybrid Optics® achieves excellent illumination results.

Another decisive advantage of BEGA luminaires is their durability: In all our optical systems, we rely exclusively on durable materials that are subject to practically no wear. Silicone-based lenses have significant advantages over synthetic carbon-based lenses, which are not reliably resistant to aging. ▶
Did you know ...

... that “sustainability” is not a buzzword for BEGA, but rather has defined its personal responsibility to customers for decades now? For instance, LED modules have a minimum service life of 50,000 hours and can be still be purchased 20 years after purchasing the luminaires.

All components are selected and developed according to the criteria of quality and durability.
From narrow beam light distributions for optimal illumination at greater heights of more than 10 metres in outdoor applications, or very wide beam light distributions indoors from a “normal” ceiling height of 3.50 metres: BEGA lighting solutions can meet the planning requirements of any situation, whether indoors or outdoors.

A substantial offer of luminaires with various luminaire types in a range of sizes and luminous intensities is the key to comprehensive lighting design. The shape, colour and workmanship of the luminaires make it possible to create lighting scenarios from one source and across spatial boundaries despite varying light distributions or architectural requirements.

We offer numerous coordinated output levels and luminaire sizes to facilitate designer trends, such as smaller luminaires indoors with more light points.

In this example, it is easy to plan an alignment between outdoor and indoor spaces when arranging the luminaires. The result: an excellent illumination result with a coordinated luminaire arrangement.
BEGA Smart Socket

The new BEGA Smart Socket connecting pillars turn your private garden into a smart garden. They are compatible with both LED luminaires and luminaires with conventional lamps. At close range, BEGA Smart Socket connecting pillars can be operated using your smartphone and the free BEGA Smart app.