

new product
spotlight 2020

all-in-one solar light tubes
add-on solar energy tubes




Sole distributor of hei
Australia and New Zealand.

hei



UNLEASH LIGHTING FROM THE CABLE

The future of lighting.
Today.



new product spotlight 2020

all-in-one solar light tubes
add-on solar energy tubes

Publisher:

hei Technology International GmbH
Ameisgasse 65
A-1140, Vienna
Austria

Tel.: +43 1 91 21 351-0

Fax: +43 1 91 21 351-22

office@hei.at

www.hei.at

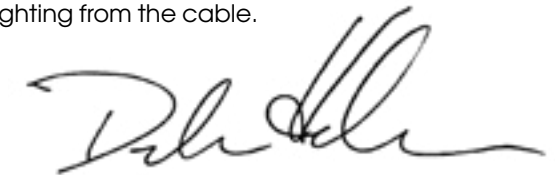


since 2007

There is clear evidence we are in a climate crisis, and this can no longer be ignored. The rise in global temperature and related natural catastrophes caused by human activity should be an unassailable warning, that in order to survive, humanity must change. There is a grave need to find and utilise sustainable solutions for the planet's ever-growing energy requirements. At hei, our vision is an ecological, economical and socially sustainable outdoor lighting solution, with minimal environmental footprint. For consumers to switch to such sustainable products, we must demonstrate that the advantages of our products and services surpass that of traditional outdoor lighting solutions in all aspects. Specifically, in cost, design quality and technological excellence. Since 2007 we have been doing our part in fighting the climate crisis. By exploring and developing the most advanced technologies and maintaining the highest design and manufacturing standards, **hei** has brought sustainability in outdoor lighting to worldwide locations. ■ With the introduction of **hei auriga** and **hei libertas** – our innovative all-in-one and add-on solar lighting solutions – it is simpler than ever to opt for sustainable outdoor lighting and join in the fight against the climate crisis. Removing the need to connect lighting poles to the electricity grid, **hei libertas** and **hei auriga** free our customers from the expensive and troublesome infrastructure requirements of new projects. By providing a solar energy supply for existing light poles in conventional, grid-connected projects we save our customers time and money, otherwise required for problematic maintenance and upkeep of electricity grid. ■ Reliable, affordable, simple and beautiful – these are just a few reasons, why **hei auriga** and **hei libertas** set a new standard of sustainability and unleash outdoor lighting from the cable.

Welcome to the future of lighting!

Welcome to hei!



Dr. Dieter Hornbachner
Managing director and founder

2001

Sustainable
energy
consulting

Founder
**Dr. Dieter
Hornbachner**
researches for
European Space
Agency

hei power tube

unprecedented
approach to
sustainable
outdoor lighting

Sustainable
outdoor
lighting

2008 Vienna Future Prize
2008 Austrian State Prize
Energy Technology
2006 Austrian State Prize Consulting
2006 R.I.O Award
2005 Energy Globe Austria

2008

hei champ
solar light poles

2010

hei mira
solar light poles

2009
Austrian State Prize

2010
Design Plus
Award at
light+building

2011
Best Austrian
Young Enterprise -
Eco-technologies

2011

Bicycle pathway
Doha, Qatar



2014

hei champ on display at
Austrian Museum of Applied Arts
- Contemporary Art

2014

hei antares
solar light poles

2018

hei columba
solar light columns

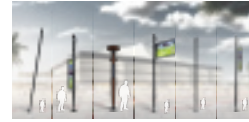
2016

Ghayathi highway
Abu Dhabi, UAE



2017

Al Bayt stadium
Al Khor, Qatar



2018

Innovative Product
Award at Urban
Design & Landscaping
Expo - The Big 5 Dubai

2019

hei lukida
solar light columns

2019

Nad Al Shiba 3
Dubai, UAE



2020

THE FUTURE OF LIGHTING IS NOW!

unique all-in-one and add-on
solar lighting solutions

hei libertas
solar energy tubes

hei auriga
solar light tubes

hei atlas
solar info boxes



UNLEASH LIGHTING FROM THE CABLE



OUR SIZE FITS ALL

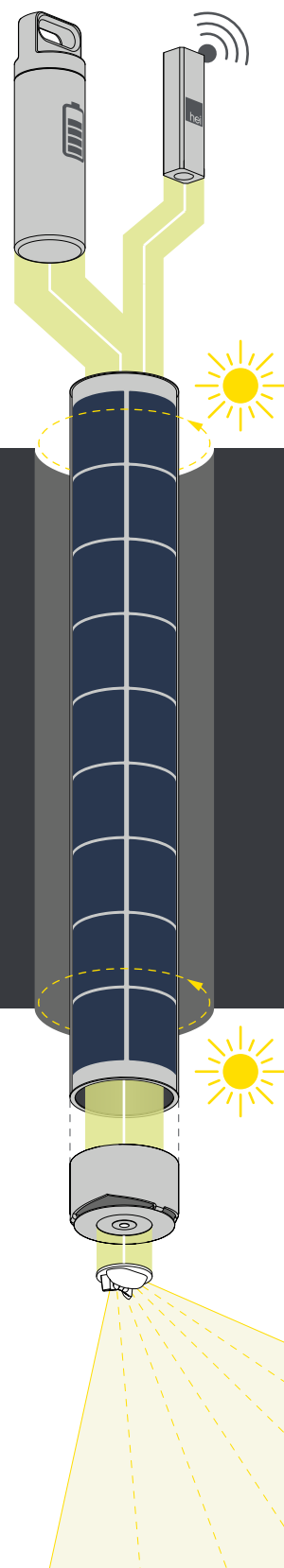
All the essential parts of a solar light (batteries, electronics, LED drivers, PV module ...) were redesigned and innovatively combined into a single unit. As the complete system is designed and manufactured by hei, we can ensure perfect interoperability of all components and outstanding reliability of the entire system.

hei POWER TUBE

Reliability of the energy-harvesting technology is key for any cable-free product. The unique and patented technology of vertical cylindrical photovoltaics – **hei power tube** – has been field-tested in numerous projects worldwide. Smooth borosilicate glass ensures that sand or dirt cannot be deposited on the surface, removing the need of costly cleaning and maintenance.

PERFECT ILLUMINATION

A custom lens in combination with smart electronic controls ensures that the solar energy is used in an efficient way – directed light only where required. Don't just take our word for it, get in touch at office@hei.at and our specialists will create a custom lighting design for your project to demonstrate the excellent light distribution.



Solar powered



No CO₂ emissions



Contemporary aesthetics



360° sun yield



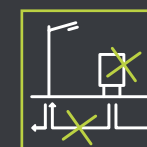
No PV panel, low wind load



Low maintenance

auriga

solar light tubes



No cabling



No trenching



Quick & Easy Installation

CABLE-FREE LIGHTING. TODAY.



hei auriga – solar light tubes – is a unique family of high-tech, all-in-one solar lights. They do not require expensive installation and function completely autonomously, without grid connection, meaning that there are no ongoing costs and more importantly no CO₂ emissions associated with the energy production and consumption. With **hei auriga**, we have made the final step towards making CO₂ free illumination the standard for outdoor lighting. A world-first, complete and autonomous solar lighting solution - combining unmatched aesthetics, reliable functionality, minimal maintenance and zero electricity costs with incredibly simple installation.



hei PLUG & LIGHT

Quick, economical installation.

- 1 Installation of pole / reuse of old pole
- 2 hei auriga is positioned
- 3 hei auriga is fixed on pole

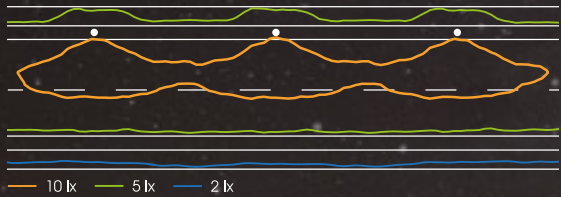
Fits most standard poles without any adaptation.



SPECIFICATIONS TO ACHIVE 10 lux

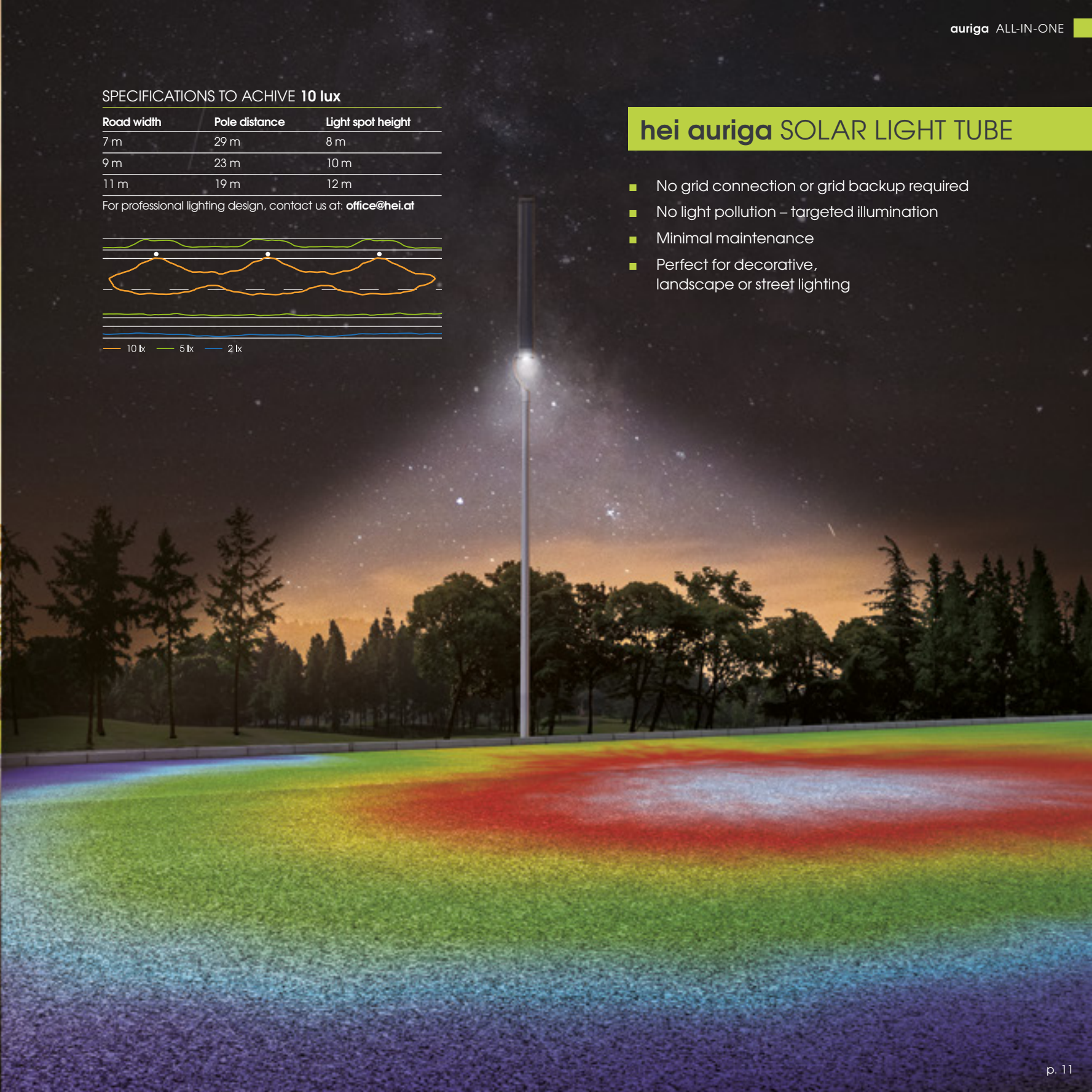
Road width	Pole distance	Light spot height
7 m	29 m	8 m
9 m	23 m	10 m
11 m	19 m	12 m

For professional lighting design, contact us at: office@hei.at



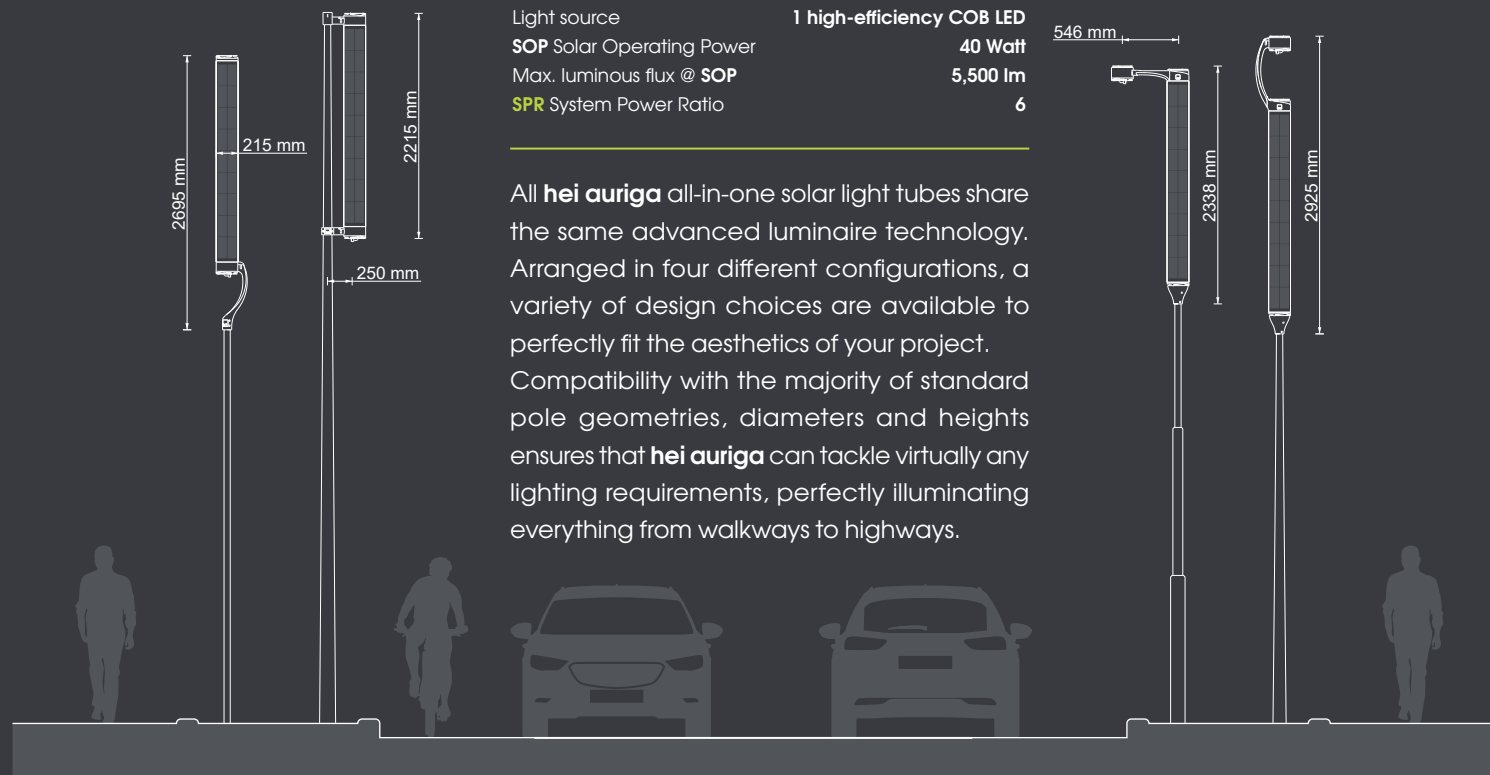
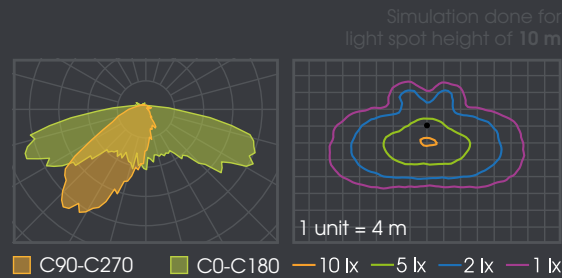
hei auriga SOLAR LIGHT TUBE

- No grid connection or grid backup required
- No light pollution – targeted illumination
- Minimal maintenance
- Perfect for decorative, landscape or street lighting



auriga

ALL-IN-ONE



solar light tubes





hei

hei

hei

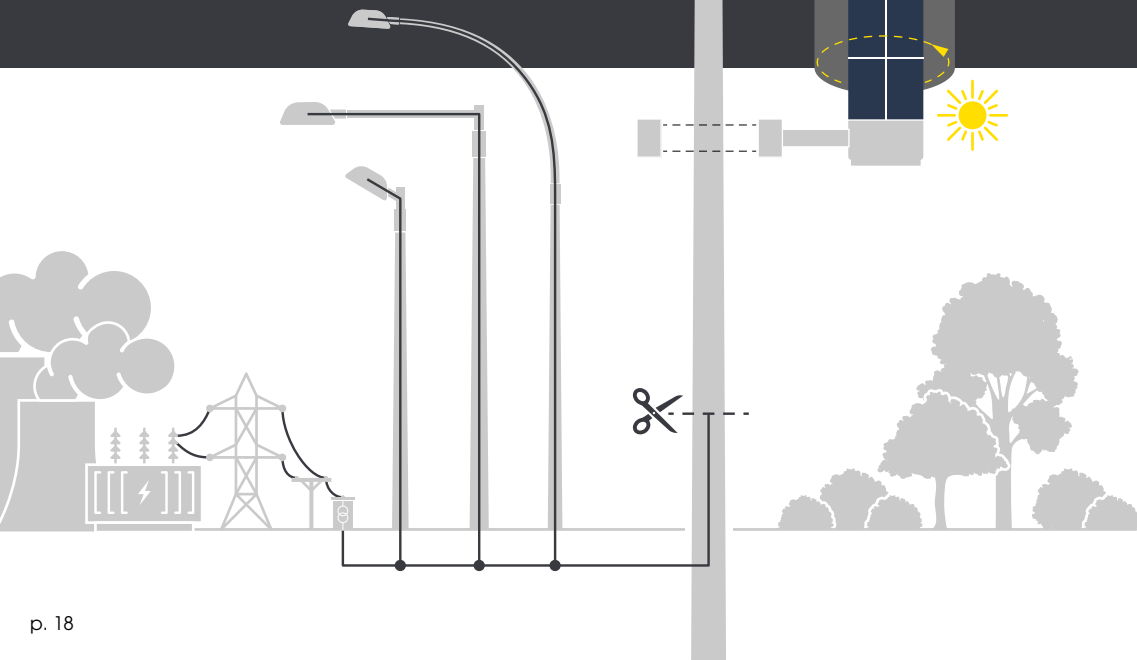
LIBERATING ENERGY SUPPLY FROM THE CABLE

ADD-ON ENERGY SUPPLY THAT FITS ONTO NEW AND EXISTING POLES

hei libertas add-on solar power tubes contain everything needed to reliably harvest solar energy and supply it later to provide illumination. Regardless of geometry, height or diameter **hei libertas** fits most standard poles - either in new or existing installations - making it the perfect solution to easily move away from an polluting and outdated grid connection to a new high-tech, sustainable yet economical power supply.

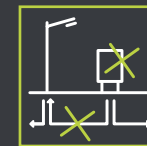
EXISTING LIGHT POLES? NEW LIGHTING PROJECT? MAKE IT GREEN!

Modularity ensures that almost every lighting project can be easily transformed with sustainable, reliable economical solar power. For perfect illumination, choose from a variety of highly-efficient **hei** luminaires, all without having to replace poles – just cut the cables and forget them!



libertas

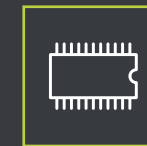
solar energy tubes



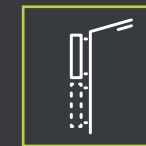
No cabling,
no trenching



Plug & play



Smart
electronics



Modular



Minimal
installation costs



Fits most poles

CABLE-FREE ENERGY SUPPLY FOR NEW OR RETROFIT PROJECTS

hei libertas add-on solar energy tubes will simplify and greenify your street lighting. **hei libertas** provides a one-stop solution to reducing conversion costs, increasing energy security and reducing the carbon intensity of your street lighting. The sleek and unique cylindrical photovoltaic section houses the battery and control system while the borosilicate glass tube provides a smooth surface to eliminate the usual dust and sand accumulation that affects traditional photovoltaic panels.



hei libertas SOLAR ENERGY TUBE

- Modular system, adaptable to different energy demands
- Make use of almost any pole
- No need to exchange old cables – just forget them!
- No grid connection or grid backup required
- Perfect for new or retrofit installations

NO PLACE FOR POLLUTION IN THE FUTURE

GLOBAL WARMING MITIGATION - ENERGY AND CO₂ SAVINGS

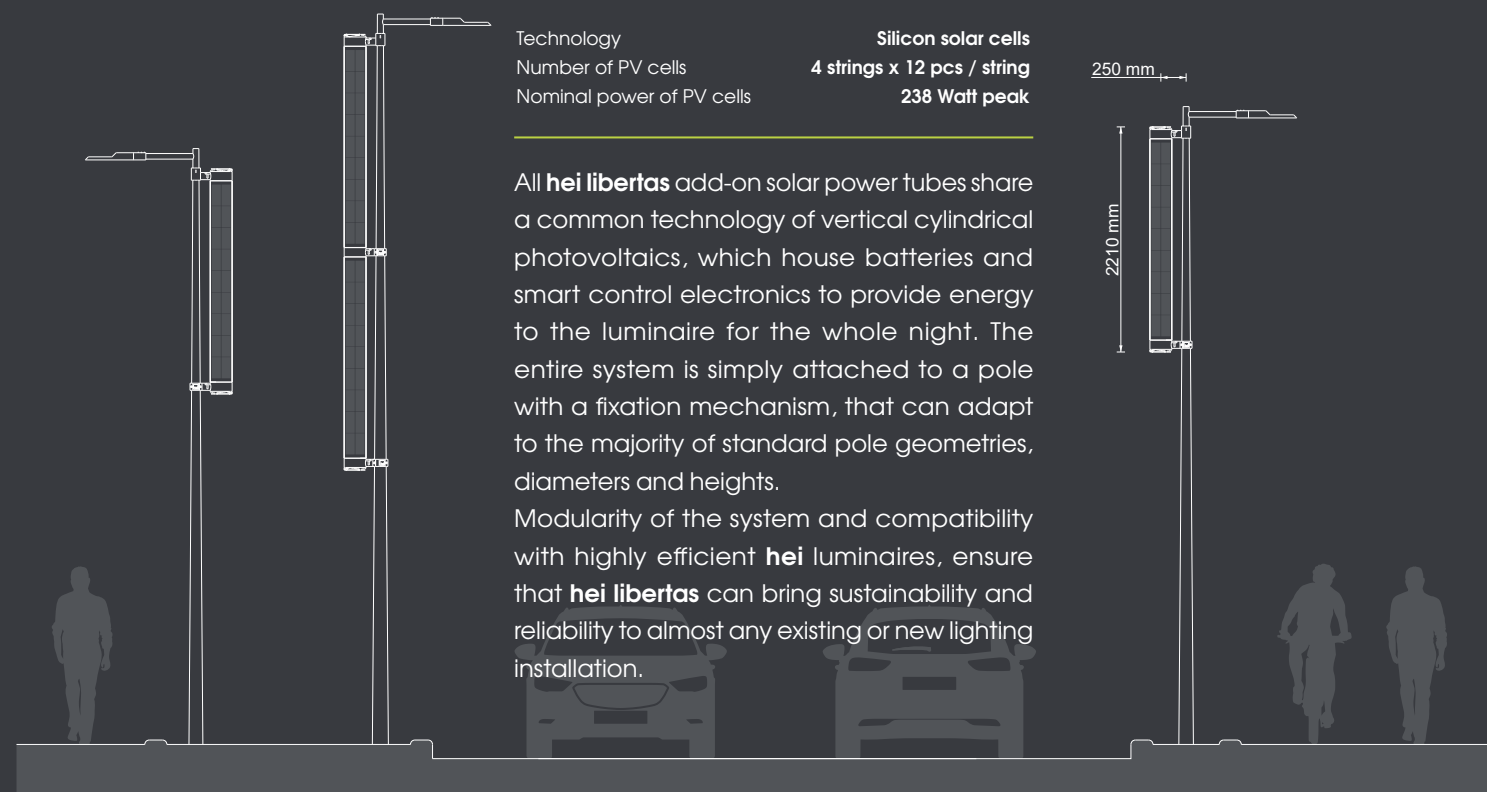
Electrical energy and CO₂ emission savings of one solar light pole in 30 years compared to:

Standard cabled LED	6,400 kWh / 3.2 tons CO ₂
HPS light (250W)	32,900 kWh / 16.5 tons CO ₂

Specific CO₂ emissions: 0.5 kg per kWh

libertas

ADD-ON

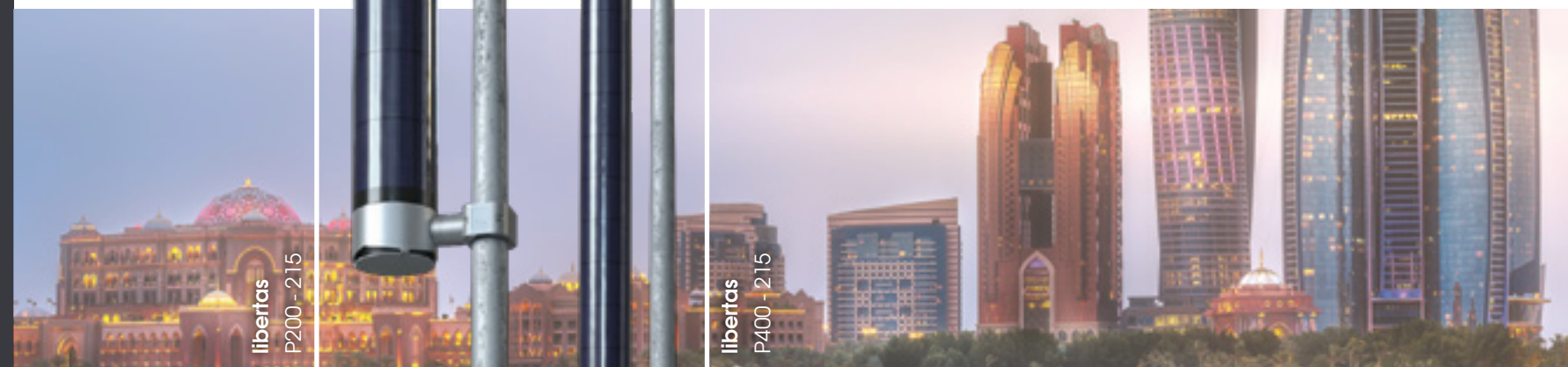


Technology
Number of PV cells
Nominal power of PV cells

Silicon solar cells
4 strings x 12 pcs / string
238 Watt peak

All **hei libertas** add-on solar power tubes share a common technology of vertical cylindrical photovoltaics, which house batteries and smart control electronics to provide energy to the luminaire for the whole night. The entire system is simply attached to a pole with a fixation mechanism, that can adapt to the majority of standard pole geometries, diameters and heights. Modularity of the system and compatibility with highly efficient **hei** luminaires, ensure that **hei libertas** can bring sustainability and reliability to almost any existing or new lighting installation.

solar energy tubes







www.radiusenergy.com.au

4/2 Sibthorpe Street, Braeside VIC 3195

t +61 3 9588 1889

e info@radiusenergy.com.au



new product
spotlight
© hei 2020