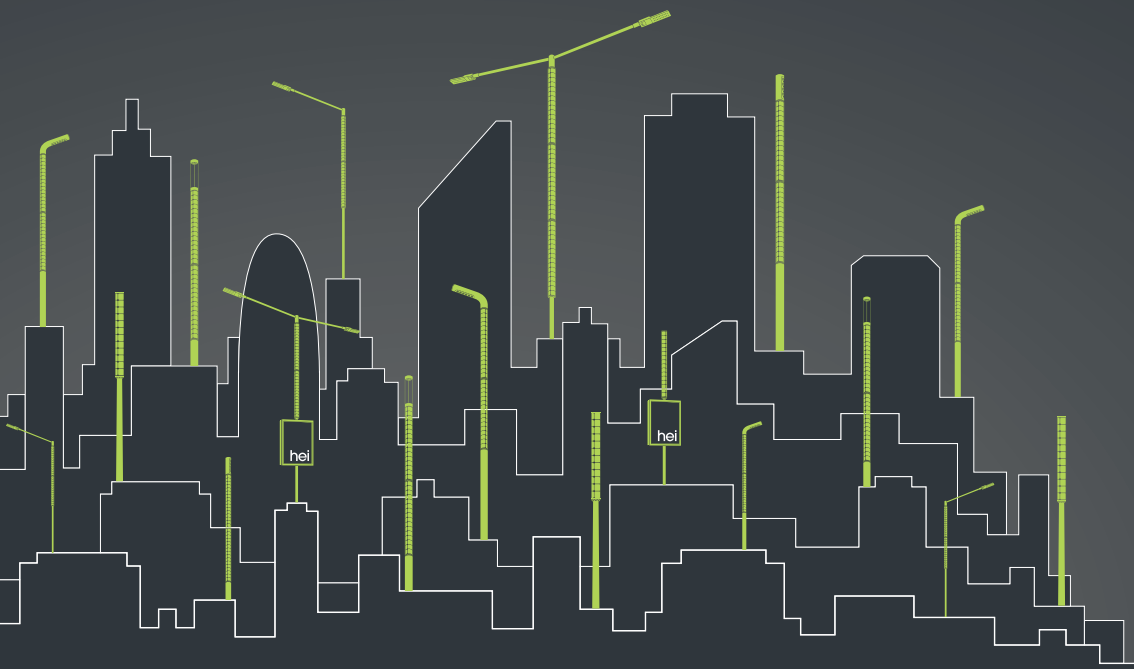
hei The future of lighting. **Today.**

product catalogue

2019



Solar lighting

Outdoor LED luminaires

Solar info boxes

Customized solutions

Cylindrical photovoltaics

sustainable outdoor lighting

solar - hybrid - grid

hei

The future of lighting. **Today.**

Product Catalogue 2019

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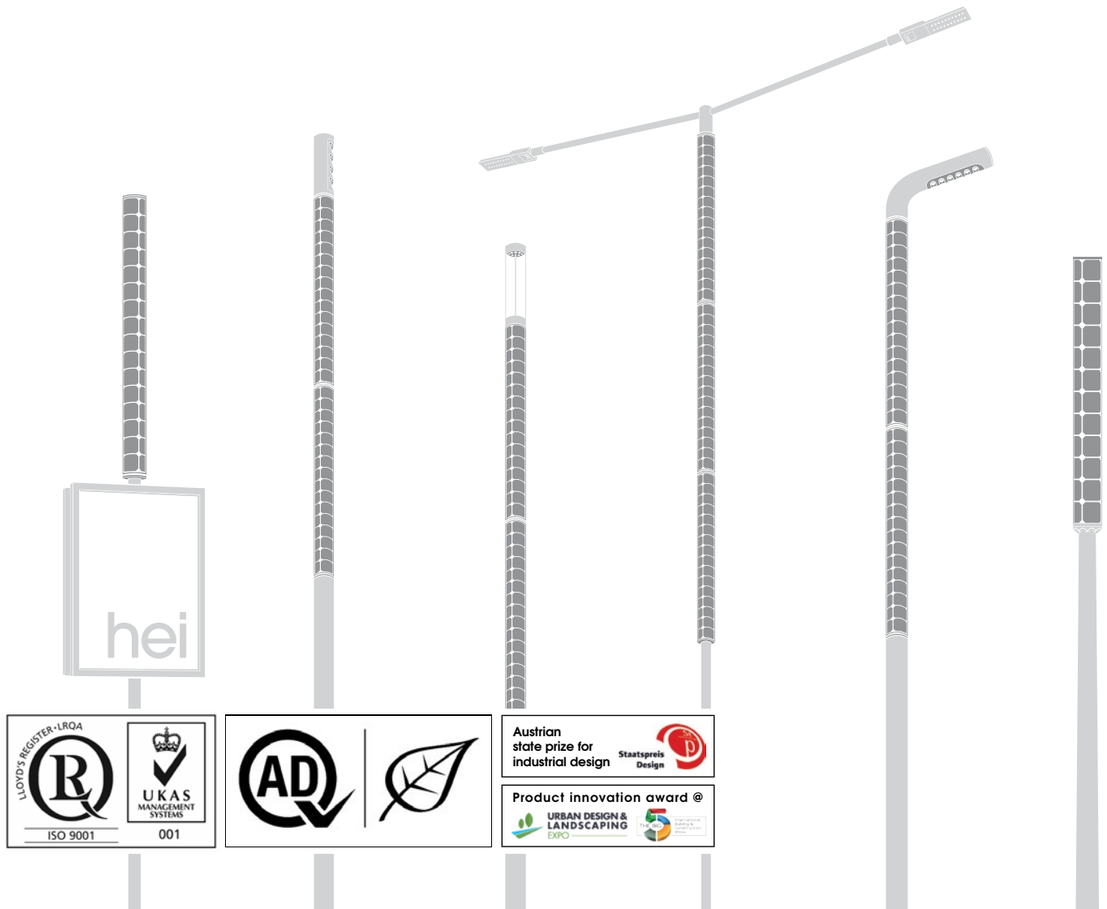

LLOYD'S REGISTER LRQA ISO 9001 · UKAS MANAGEMENT SYSTEMS 001

Austrian state prize for industrial design – Staatspreis Design

Product innovation award @ URBAN DESIGN & LANDSCAPING EXPO

hei solar light poles
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Sustainable Outdoor Lighting
Solar. Hybrid. Grid.

Welcome to the future of environmentally friendly outdoor lighting!
Welcome to **hei**!

Climate change, nuclear risks and overexploitation of natural resources require an ambitious and swift transition towards sustainability including solar powered, carbon-free technologies worldwide.

The mission of **hei** is to contribute to global sustainable development by designing and manufacturing outdoor lighting with paramount efficiency for minimum environmental impact.

This is supported by our strict designing criteria: environmental-friendly materials, utmost efficiency, and use of solar power, wherever available.

We also supply outstanding aesthetical design, because we think green products should please not only the environment but our eyes, too.

Finally, the advantageous commercial "side effect" of energy efficiency and solar power is low operating and initial costs.

All in all, climate protection by sustainable outdoor lighting is a win-win situation for all of us environmentally, aesthetically and economically.

Welcome to **hei**! The future of lighting. Today.

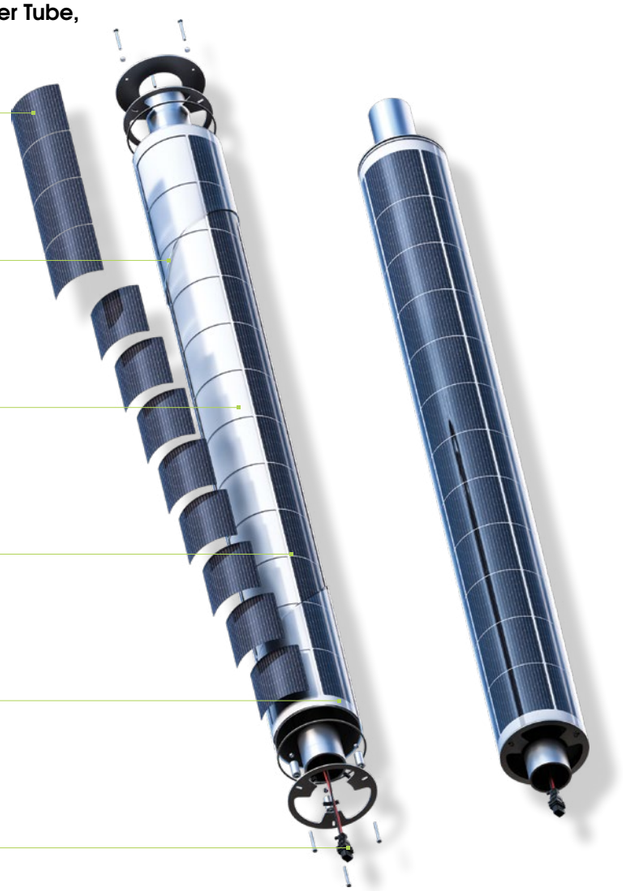
Dr. Dieter Hornbachner
Founder and MD

hei Solar Light Poles

WITH VERTICALLY INTEGRATED CYLINDRICAL PHOTOVOLTAICS

Go solar. Go for beauty. Take the tube. hei solar light poles with aesthetic, cylindrically shaped **hei** power tubes instead of traditional flat PV panels. Worldwide patented technology for bending high-efficiency crystalline silicon solar cells. Excellent solar yield due to **omnidirectional sunlight collection**. Reduced soiling and low maintenance due to vertical integration. Paramount reliability due to perfect glass tube encapsulation of solar cells without open photovoltaic module edges.

hei Solar Light Poles with patented hei Power Tube, when aesthetics and reliability matter.



High-efficiency silicon solar cells

High-efficiency silicon solar cells guarantee **maximum solar energy yield** at minimum power tube size.

Borosilicate glass tube

Perfect encapsulation of solar cells. No open PV module edges. No humidity entry. **Withstands even the harshest climates.**

Backsheet

Black backsheet encapsulant (standard) or optional various colours for **customized module design.**

Backlighting

Optional LED backlighting to upgrade the tube to a **decorative eyecatcher.**

Less maintenance

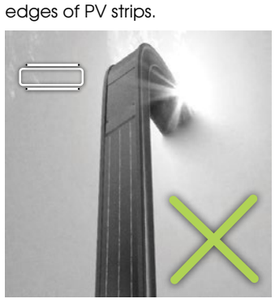
Less soiling. Less cleaning. **Less maintenance costs** due to reduced dirt accumulation.

Plug & play technology

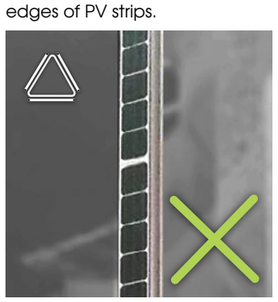
Plug & play component design **for easy and fast installation.**

Vertical PV integration: clear advantages for **hei** Power Tubes

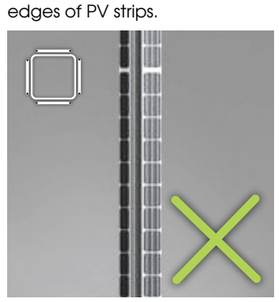
PV strips opposite:
Solar yield depends on pole orientation.
Less reliable due to long open edges of PV strips.



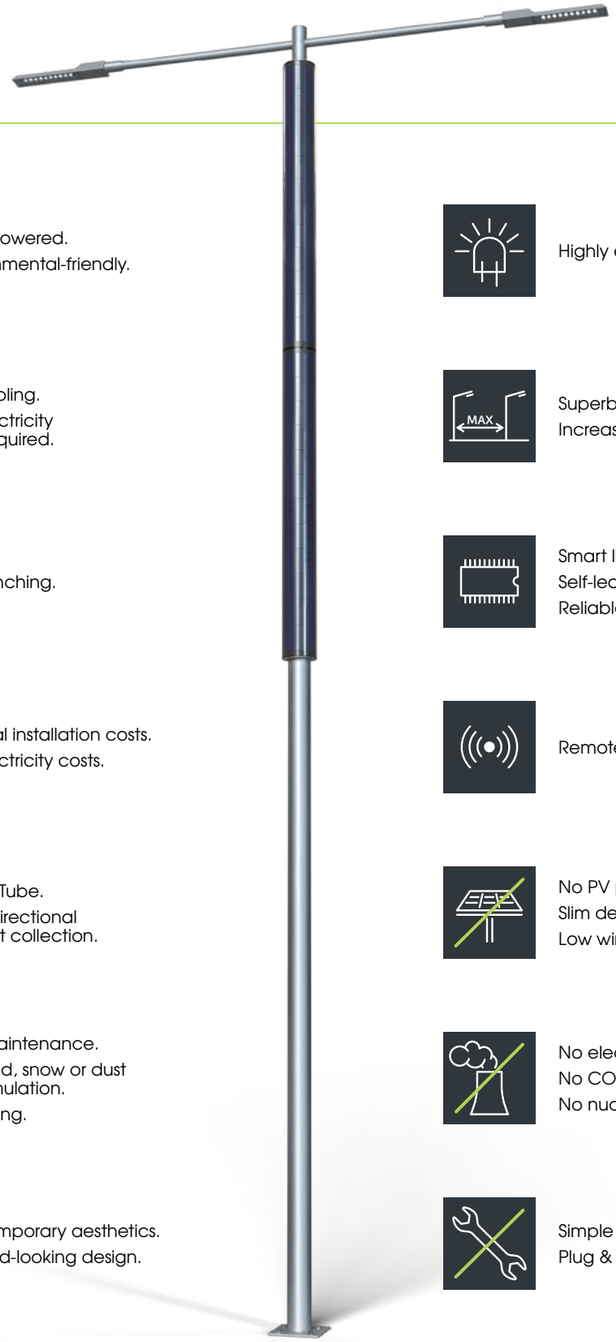
Triangular pole:
Bulky pole. Bad static pole properties.
Less reliable due to long open edges of PV strips.



Square pole:
Bulky pole. Bad static pole properties.
Less reliable due to long open edges of PV strips.



hei Power Tube:
Omnidirectional sunlight collection.
Perfect solar cell encapsulation.
Perfect static pole properties.



Solar powered.
Environmental-friendly.

Highly efficient LED technology.

No cabling.
No electricity grid required.

Superb light distribution.
Increased pole distance.

No trenching.

Smart lighting control.
Self-learning.
Reliable.

Minimal installation costs.
No electricity costs.

Remote lighting control.

Power Tube.
Omnidirectional sunlight collection.

No PV panel.
Slim design.
Low wind load.

Less maintenance.
No sand, snow or dust accumulation.
No soiling.

No electricity consumption.
No CO_2 emissions.
No nuclear risks.

Contemporary aesthetics.
Forward-looking design.

Simple installation.
Plug & play.

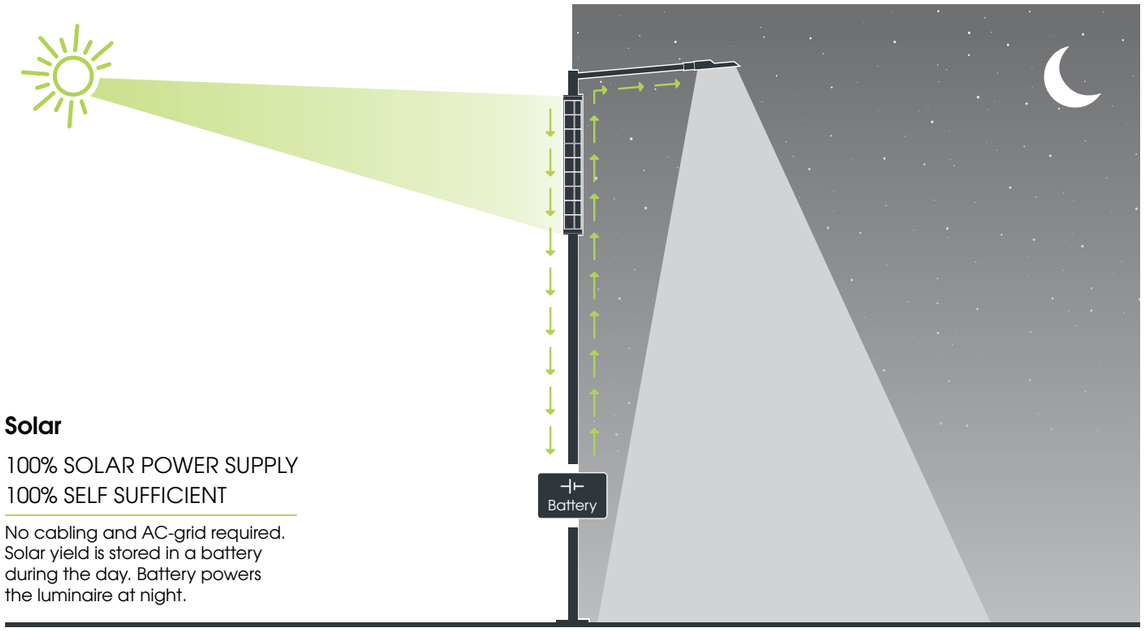
Usual life of conventional flat solar panels ...

technology
OF **hei** SOLAR LIGHT POLES

POWER SUPPLY OPTIONS

Solar. Hybrid. Grid. Full solar or partial solar supply.
hei offers three different types of power supply for **hei** solar light poles to meet all kind of demand and local climate conditions.

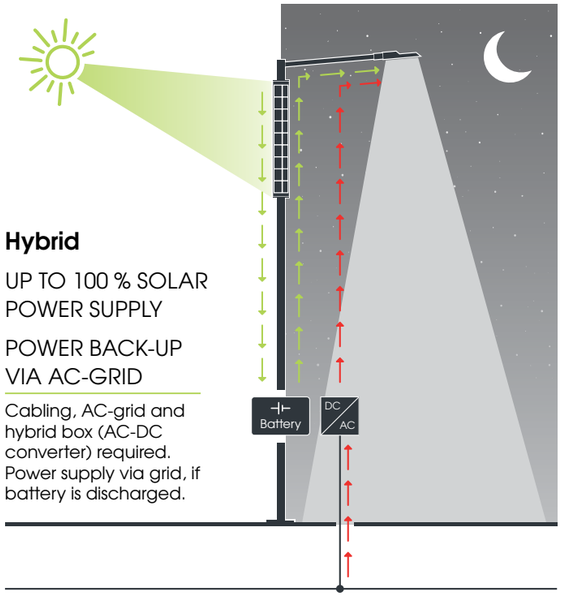
- **Full solar supply** for sunny regions
- **Hybrid supply** for regions with reduced solar yield in winter.
- **Grid feed-in** for locations with limited solar yield or if batteries should be avoided.



Solar

100% SOLAR POWER SUPPLY
100% SELF SUFFICIENT

No cabling and AC-grid required. Solar yield is stored in a battery during the day. Battery powers the luminaire at night.

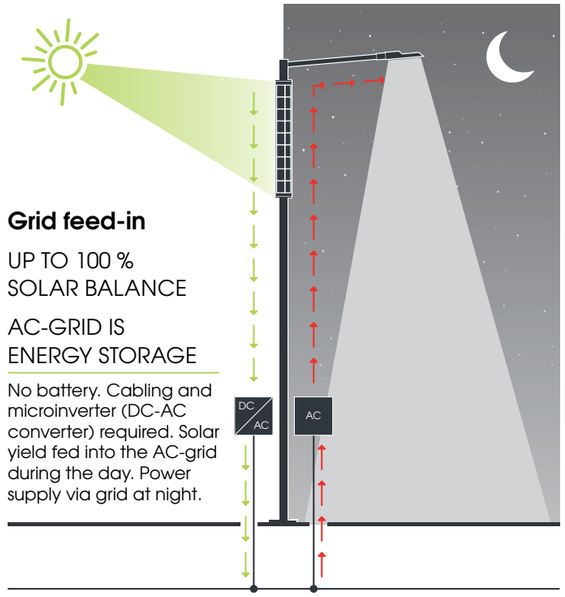


Hybrid

UP TO 100 % SOLAR POWER SUPPLY

POWER BACK-UP VIA AC-GRID

Cabling, AC-grid and hybrid box (AC-DC converter) required. Power supply via grid, if battery is discharged.



Grid feed-in

UP TO 100 % SOLAR BALANCE

AC-GRID IS ENERGY STORAGE

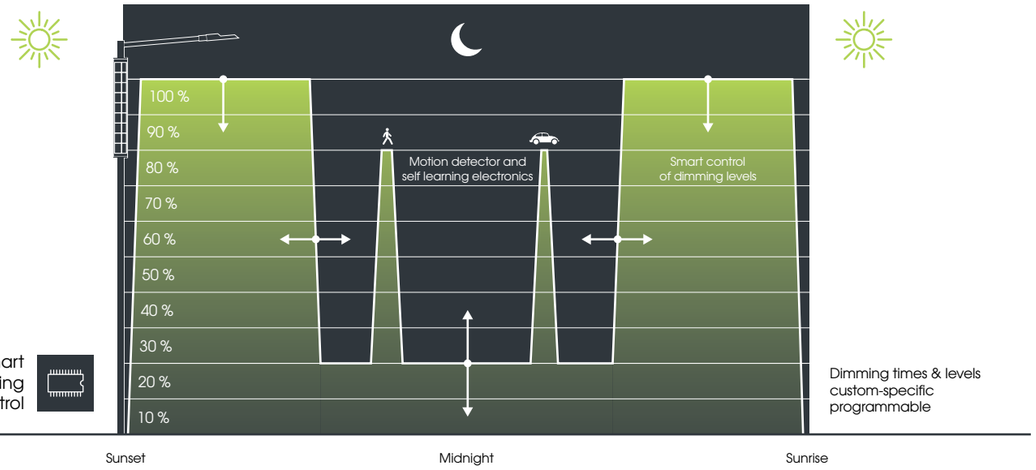
No battery. Cabling and microinverter (DC-AC converter) required. Solar yield fed into the AC-grid during the day. Power supply via grid at night.

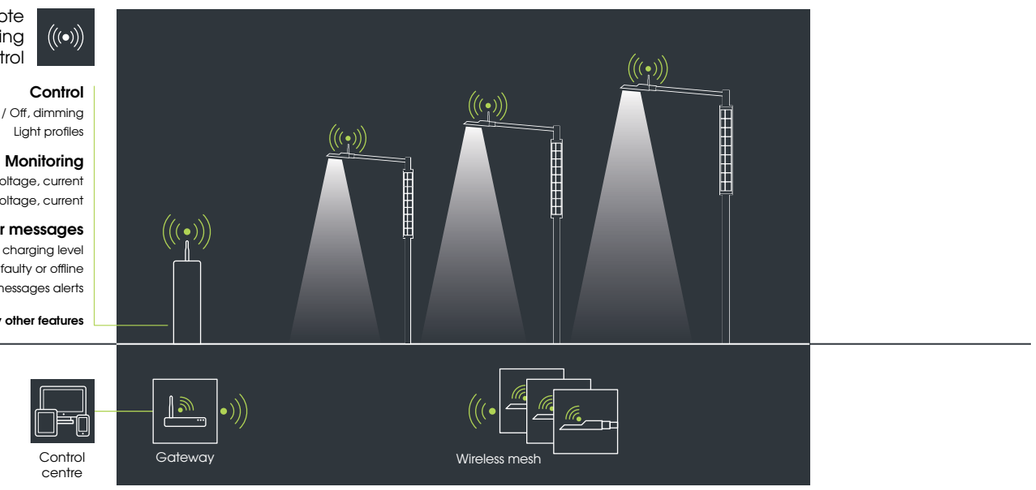
smart & solar

SMART LIGHTING CONTROL AND REMOTE LIGHTING CONTROL

Smart **hei** solar light poles are equipped with "intelligence" to optimize their daily operation. A microprocessor and a smart, self-learning software algorithm control photovoltaics, battery and luminaire. The result: a highly reliable lighting system with excellent performance and careful battery management for long-life time. Every single **hei** solar light pole is a self-sustaining, self-controlled system. Lighting levels are dimmed automatically in case of reduced solar yield. Programmable, individual lighting levels and times provide a wide range of flexibility. On demand, solar poles can be equipped with communication modules for remote control and monitoring of **hei** solar poles.

- Microprocessor controlled
- Self-learning algorithm
- Smart control of dimming levels
- Careful battery/charging management
- MPP-tracking for maximized solar yield
- Various lighting levels and times programmable for highest flexibility
- Motion sensor (optional)

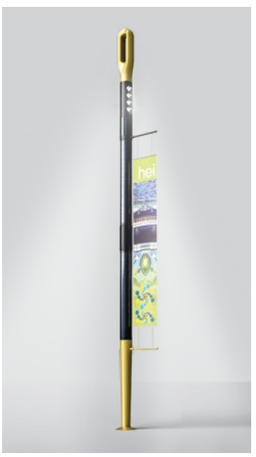




hei SMART POLE APPLICATIONS

Would you like more than just environmentally friendly street lights? You are very welcome! Various equipments can be integrated to transform a humble light pole into a multifunctional, solar powered, smart city furniture. A solar powered weather station? No problem! A solar powered Wi-Fi hotspot? Sure! Traffic signs, cameras, loudspeakers, communication and sensor modules, etc. can be added and powered by the sun.

- IP camera
- Remote lighting control
- Surveillance camera
- Wi-Fi hotspot
- Wind meter, sensors
- LED lighting
- Traffic signs
- Loudspeakers
- Mobile phone charging station
- Backlit info boxes



hei smart & solar poles with pole-integrated compartments for cameras and Wi-Fi.

Discover the future of lighting. Today.

Numerous product families for different lighting, aesthetical and technical requirements make **hei** solar light poles the right choice for almost all kind of outdoor lighting applications.

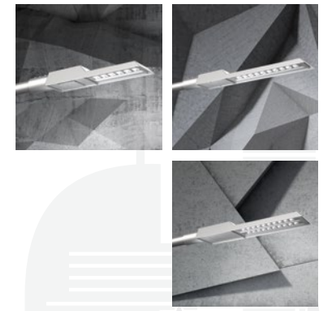
antares
SOLAR LIGHT POLES

Outstanding performance at minimum costs. The **hei antares** family consists of 10 different versions of self-sustaining and maintenance-free solar light poles, covering almost all kind of outdoor lighting applications such as pathways, secondary roads and highways. Antares is available as single and double arm light pole with pole heights ranging from 4 m up to 14 m.

Light source	**6 - 2x 20 high eff. LED units**
SOP Solar operating power	**20 - 2x 80 Watt**
Luminous flux @ SOP	**3,150 - 2x 13,000 lm**
Pole height	**4.0 - 14.0 m**
Light spot height	**4.1 - 14.1 m**
SPR System power ratio	**5 - 10**

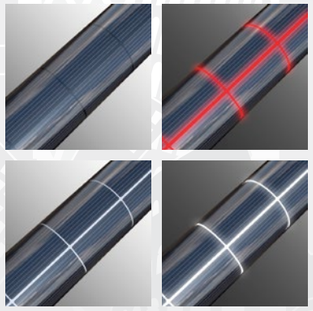
various bracket lengths / boom angles

various wattages



power tube (high efficiency silicon solar cells)

custom colour backsheet
and optional backlighting



steel pole (hot-dip galvanized)

antares 4000
P100 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**3,150 lm**
Pole height	**4.0 / 5.0 / 6.0 m**
Light spot height	**4.1 / 5.1 / 6.1 m**
SPR System power ratio	**5**

antares 4000
P200 - 215

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**3,150 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**5.1 / 6.1 / 8.1 m**
SPR System power ratio	**10**

antares 4000 twin
P200 - 215

Light source	**2x 6 high eff. LED units**
SOP Solar Operating Power	**2x 20 W**
Luminous flux @ SOP	**2x 3,150 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**5.1 / 6.1 / 8.1 m**
SPR System power ratio	**5**

antares 8000
P200 - 215

Light source	**10 high eff. LED units**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**8.1 / 10.1 / 12.1 m**
SPR System power ratio	**5**

antares 8000 twin
P400 - 215

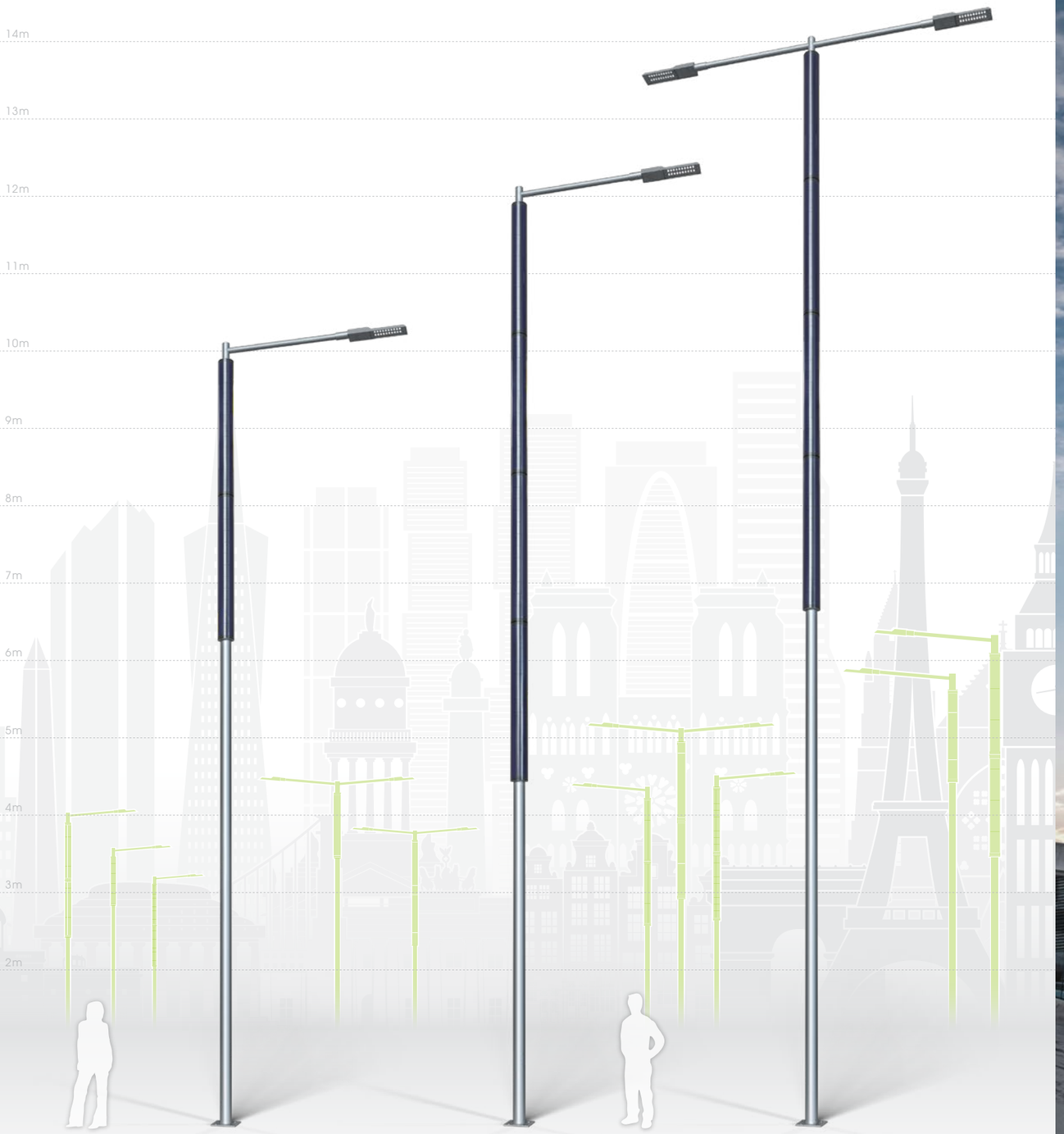
Light source	**2x 10 high eff. LED units**
SOP Solar Operating Power	**2x 40 W**
Luminous flux @ SOP	**2x 6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**8.1 / 10.1 / 12.1 m**
SPR System power ratio	**5**

antares 8000
P400 - 215

Light source	**10 high eff. LED units**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**8.1 / 10.1 / 12.1 m**
SPR System power ratio	**10**

antares 8000 twin
P800 - 215

Light source	**2x 10 high eff. LED units**
SOP Solar Operating Power	**2x 40 W**
Luminous flux @ SOP	**2x 6,450 lm**
Pole height	**10.0 / 12.0 m**
Light spot height	**10.1 / 12.1 m**
SPR System power ratio	**10**



antares 16000
P400 - 215

Light source	**20 high eff. LED units**
SOP Solar Operating Power	**80 W**
Luminous flux @ SOP	**13,000 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**10.1 / 12.1 / 14.1 m**
SPR System power ratio	**5**

antares 16000
P800 - 215

Light source	**20 high eff. LED units**
SOP Solar Operating Power	**80 W**
Luminous flux @ SOP	**13,000 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**10.1 / 12.1 / 14.1 m**
SPR System power ratio	**10**

antares 16000 twin
P800 - 215

Light source	**2x 20 high eff. LED units**
SOP Solar Operating Power	**2x 80 W**
Luminous flux @ SOP	**2x 13,000 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**10.1 / 12.1 / 14.1 m**
SPR System power ratio	**5**

antares
LUMINAIRES

Maximum energy saving due to paramount efficacy. **hei antares** luminaires are a family of extraordinary efficient outdoor LED fixtures with outstanding efficacy and excellent light distribution. The right choice for environmental-friendly street lighting, minimum energy demand and maximum cost saving.

All luminaires provide an **efficacy of 160 lm/W or more** and are available for AC, DC and solar power supply.

Light source	**6-20 high eff. LED units**
Max. LED power	**75 - 247 Watt**
SOP Solar operating power	**20 - 80 Watt**
Luminous flux @ SOP	**3,150 - 13,000 lm**
Power supply	**AC, DC, solar**

antares 4000

Light source	**6 high eff. LED units**
Max. LED power	**75 W**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**3,150 lm**

antares 8000

Light source	**10 high eff. LED units**
Max. LED power	**124 W**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**

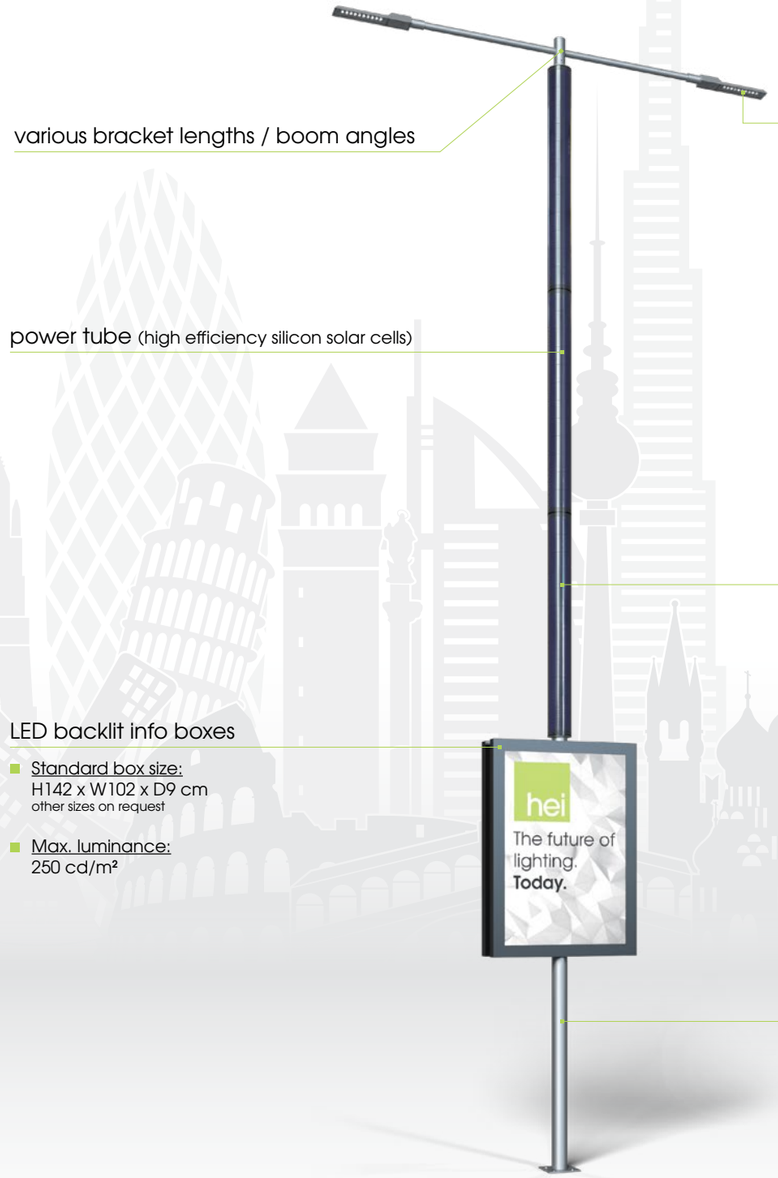
antares 16000

Light source	**20 high eff. LED units**
Max. LED power	**247 W**
SOP Solar Operating Power	**80 W**
Luminous flux @ SOP	**13,000 lm**

atlas
SOLAR INFO BOXES

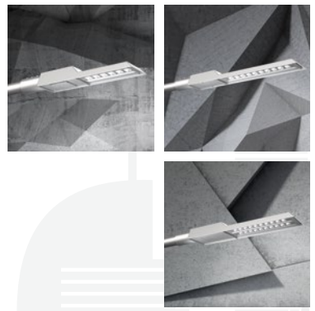
Street lighting for free.
hei solar info boxes, sunny and commercially highly profitable solutions, available also in combination with solar street light poles. Self-sustaining solar power supply for minimum initial installation costs, avoiding expensive grid connection. A product family which enables **new financing models** for both advertising companies as well as municipalities: refinancing the light poles by renting out the info boxes as advertising space.

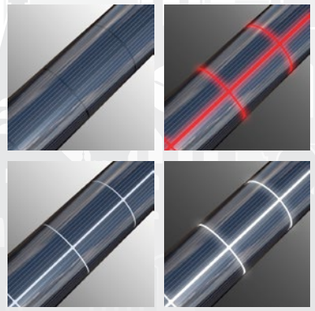
Light source	**10 - 2x 20 high eff. LED units**
SOP Solar operating power	**40 - 2x 80 Watt**
Luminous flux @ SOP	**6,450 - 2x 13,000 lm**
Pole / Stand height	**2.2 - 14.0 m**
Light spot height	**8.1 - 14.1 m**
Info box LED power	**23 Watt**
Info box luminous flux	**3,050 lm**
Info box luminous efficacy	**135 lm/W**
SPR System power ratio	**4 - 9**



- Standard box size:
  H142 x W102 x D9 cm
  other sizes on request
- Max. luminance:
  250 cd/m²

various wattages





atlas solar info stand
P400-215 IB2000

Stand height	**2.2 m**
SPR System power ratio	**9**

atlas solar info pole
P200-215 IB2000

Pole height	**6.0 m**
SPR System power ratio	**4**

atlas solar info pole
P400-215 IB2000

Pole height	**8.0 m**
SPR System power ratio	**9**

atlas solar info pole
P400-215 IB2000 with
LUMINAIRE **antares 8000**

Light source	**10 high eff. LED units**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**8.1 / 10.1 / 12.1 m**
SPR System power ratio	**5**

atlas solar info pole
P600-215 IB2000 with
LUMINAIRE **antares 8000 twin**

Light source	**2x 10 high eff. LED units**
SOP Solar Operating Power	**2x 40 W**
Luminous flux @ SOP	**2x 6,450 lm**
Pole height	**10.0 / 12.0 m**
Light spot height	**10.1 / 12.1 m**
SPR System power ratio	**5**

atlas solar info pole
P600-215 IB2000 with
LUMINAIRE **antares 16000**

Light source	**20 high eff. LED units**
SOP Solar Operating Power	**80 W**
Max. luminous flux @ SOP	**13,000 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**10.1 / 12.1 / 14.1 m**
SPR System power ratio	**5**

atlas solar info pole
P1000-215 IB2000 with
LUMINAIRE **antares 16000 twin**

Light source	**2x 20 high eff. LED units**
SOP Solar Operating Power	**2x 80 W**
Max. luminous flux @ SOP	**2x 13,000 lm**
Pole height	**14.0 m**
Light spot height	**14.1 m**
SPR System power ratio	**5**

champ
SOLAR LIGHT POLES

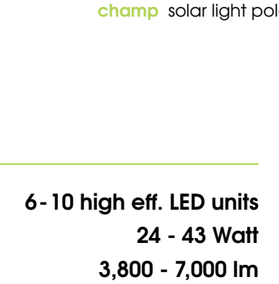
hei champ, **our pioneer** of integrated outdoor solar lights with outstanding design. A decorative, award-winning solar light pole for professional architectural outdoor lighting applications such as squares, promenades and boulevards. **100 percent self-sustaining.** First solar light pole worldwide with integrated cylindrical photovoltaic element.

Winner of the Austrian state award for excellent industrial design.

Light source	**6-10 high eff. LED units**
SOP Solar operating power	**24 - 43 Watt**
Luminous flux @ SOP	**3,800 - 7,000 lm**
Pole height	**6.05 m**
Light spot height	**4.0 m**
SPR System power ratio	**5 - 8**

champ 4000
P200 - 215

Light source	**6 high eff. LED units**
Solar Operating power	**24 W**
Luminous flux @ SOP	**3,800 lm**
Pole height	**6.05 m**
Light spot height	**4.00 m**
SPR System power ratio	**8**



champ 8000
P200 - 215

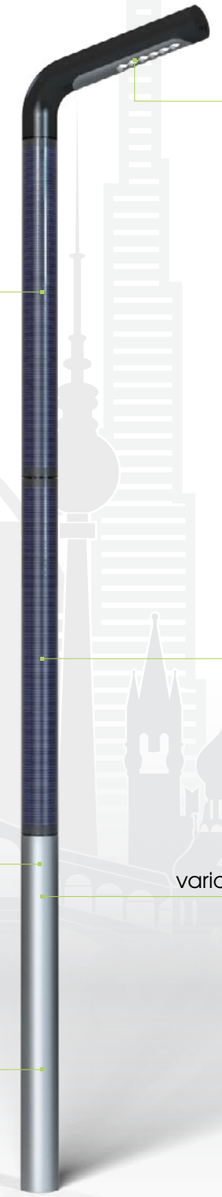
Light source	**10 high eff. LED units**
Solar Operating power	**43 W**
Luminous flux @ SOP	**7,000 lm**
Pole height	**6.05 m**
Light spot height	**4.00 m**
SPR System power ratio	**5**

Austrian state prize for industrial design Staatspreis Design

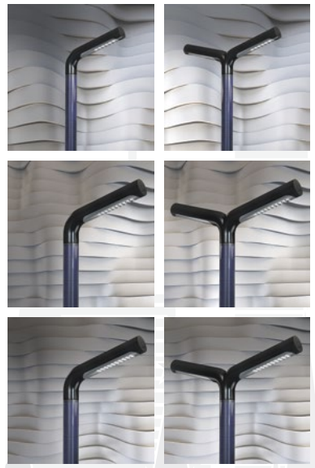
mira
SOLAR LIGHT POLES

hei mira is a family of **decorative, self-sustaining and maintenance-free** solar light poles for outdoor lighting applications such as residential streets, bicycle tracks or parking sites. **Award-winning, protected design.** Full solar power supply, no grid-connection required. **mira** solar light poles are available in various heights and luminaire wattages.

Light source	**6 - 2x 20 high eff. LED units**
SOP Solar operating power	**20 - 2x 79 Watt**
Luminous flux @ SOP	**3,150 - 2x 12,300 lm**
Pole height	**4.0 - 14.0 m**
Light spot height	**3.8 - 13.75 m**
SPR System power ratio	**5 - 10**

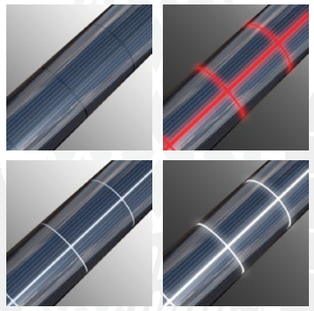


luminaire (lengthwise light distribution)



power tube (high efficiency silicon solar cells)

custom colour backsheet
and optional backlighting



steel pole (hot-dip galvanized)

various pole finishes (painted or powder coated)

battery inside pole (optional)

earth-pit installation for very hot and very cold climates recommended

mira 4000
P100 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**3,150 lm**
Pole height	**4.0 / 5.0 / 6.0 m**
Light spot height	**3.8 / 4.8 / 5.8 m**
SPR System power ratio	**5**

mira 4000
P200 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**3,150 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**4.8 / 5.8 / 7.8 m**
SPR System power ratio	**10**

mira 4000 twin
P200 - 160

Light source	**2x 6 high eff. LED units**
SOP Solar Operating Power	**2x 20 W**
Luminous flux @ SOP	**2x 3,150 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**4.8 / 5.8 / 7.8 m**
SPR System power ratio	**5**

mira 8000
P200 - 215

Light source	**10 high eff. LED units**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.75 / 9.75 / 11.75 m**
SPR System power ratio	**5**

mira 8000
P400 - 215

Light source	**10 high eff. LED units**
SOP Solar Operating Power	**40 W**
Luminous flux @ SOP	**6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.75 / 9.75 / 11.75 m**
SPR System power ratio	**10**

mira 8000 twin
P400 - 215

Light source	**2x 10 high eff. LED units**
SOP Solar Operating Power	**2x 40 W**
Luminous flux @ SOP	**2x 6,450 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.75 / 9.75 / 11.75 m**
SPR System power ratio	**5**

mira 8000 twin
P800 - 215

Light source	**2x 10 high eff. LED units**
SOP Solar Operating Power	**2x 40 W**
Luminous flux @ SOP	**2x 6,450 lm**
Pole height	**10.0 / 12.0 m**
Light spot height	**9.75 / 11.75 m**
SPR System power ratio	**10**

mira 16000
P400 - 215

Light source	**20 high eff. LED units**
SOP Solar Operating Power	**79 W**
Luminous flux @ SOP	**12,300 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**9.75 / 11.75 / 13.75 m**
SPR System power ratio	**5**

mira 16000
P800 - 215

Light source	**20 high eff. LED units**
SOP Solar Operating Power	**79 W**
Luminous flux @ SOP	**12,300 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**9.75 / 11.75 / 13.75 m**
SPR System power ratio	**10**

mira 16000 twin
P800 - 215

Light source	**2x 20 high eff. LED units**
SOP Solar Operating Power	**2x 79 W**
Luminous flux @ SOP	**2x 12,300 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**9.75 / 11.75 / 13.75 m**
SPR System power ratio	**5**

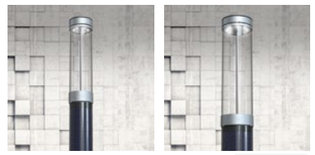
lukida
SOLAR LIGHT COLUMNS

hei lukida, a family of **aesthetic columns** with integrated photovoltaics and luminaire for decorative outdoor lighting applications, **when design matters.** Available in various heights, diameters and wattages. For public and private lighting applications such as gardens, parks, boulevards, and secondary roads.

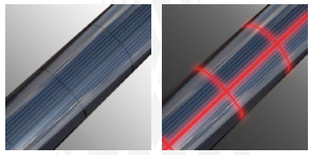
Winner of the Innovative Product Award at Urban Design & Landscaping Expo 2018 as part of BIG 5 Dubai.

Light source	**6-8 high eff. LED units**
SOP Solar operating power	**20 - 35 Watt**
Luminous flux @ SOP	**2,850 - 5,000 lm**
Pole height	**4.0 - 12.0 m**
Light spot height	**3.95 - 11.95 m**
SPR System power ratio	**5 - 11**

luminaire (lengthwise or circular light distribution)



custom colour backsheet
and optional backlighting



power tube (high efficiency silicon solar cells)

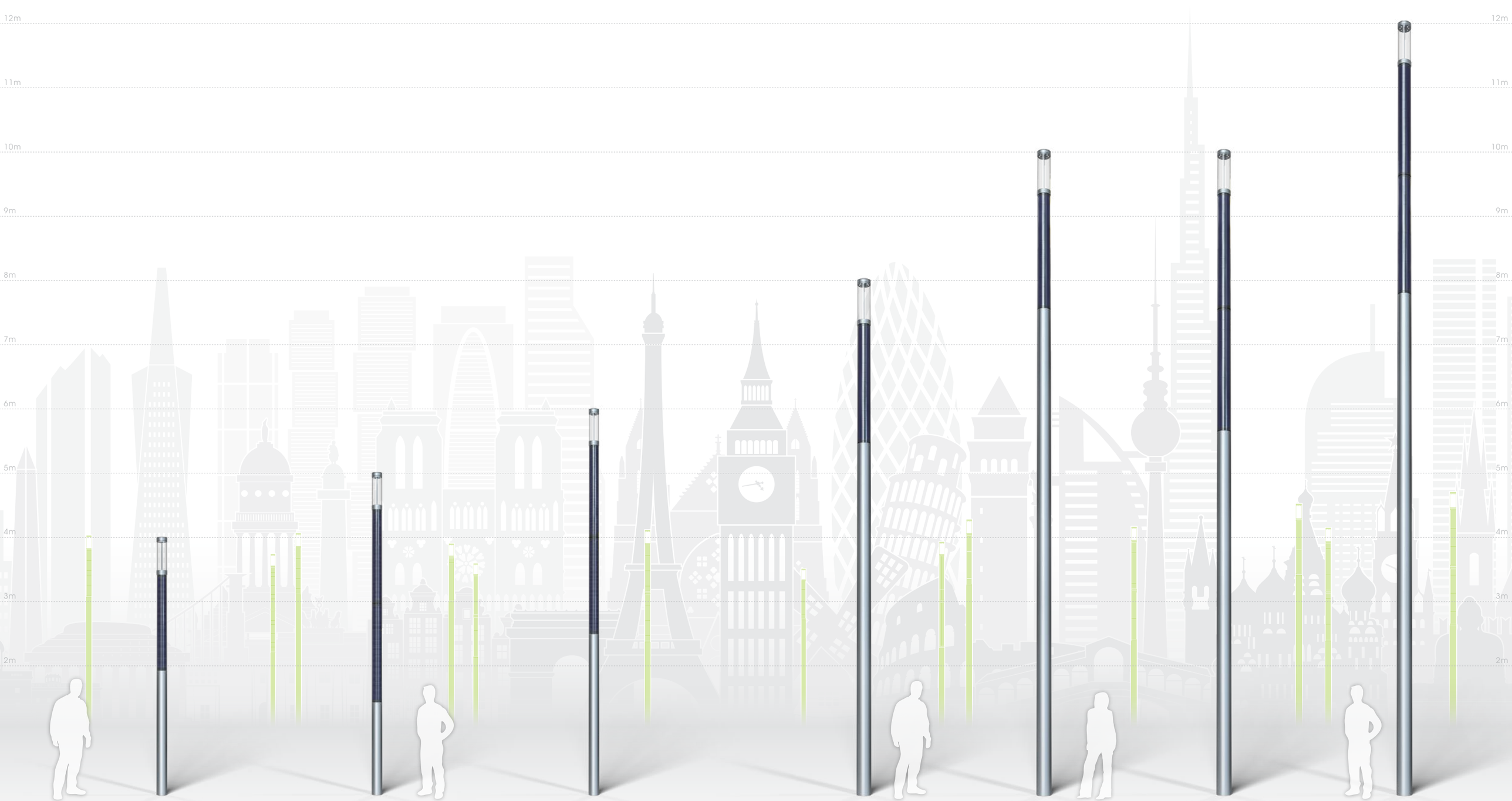
steel pole (hot-dip galvanized)

various pole finishes (painted or powder coated)

battery inside pole (optional)

earth-pit installation for very hot and very cold climates recommended

Product innovation award @
URBAN DESIGN & LANDSCAPING EXPO



lukida 4000
P100 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**2,850 lm**
Pole height	**4.0 / 5.0 / 6.5 m**
Light spot height	**3.95 / 4.95 / 6.45 m**
SPR System power ratio	**5**

lukida 4000
P200 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**2,850 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**4.95 / 5.95 / 7.95 m**
SPR System power ratio	**10**

lukida 4000 twin
P200 - 160

Light source	**6 high eff. LED units**
SOP Solar Operating Power	**20 W**
Luminous flux @ SOP	**2x 1400 lm**
Pole height	**5.0 / 6.0 / 8.0 m**
Light spot height	**4.95 / 5.95 / 7.95 m**
SPR System power ratio	**10**

lukida 8000
P200 - 215

Light source	**8 high eff. LED units**
SOP Solar Operating Power	**35 W**
Luminous flux @ SOP	**5,000 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.95 / 9.95 / 11.95 m**
SPR System power ratio	**6**

lukida 8000 twin
P200 - 215

Light source	**8 high eff. LED units**
SOP Solar Operating Power	**35 W**
Luminous flux @ SOP	**2x 2,500 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.95 / 9.95 / 11.95 m**
SPR System power ratio	**6**

lukida 8000
P400 - 215

Light source	**8 high eff. LED units**
SOP Solar Operating Power	**35 W**
Luminous flux @ SOP	**5,000 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.95 / 9.95 / 11.95 m**
SPR System power ratio	**11**

lukida 8000 twin
P400 - 215

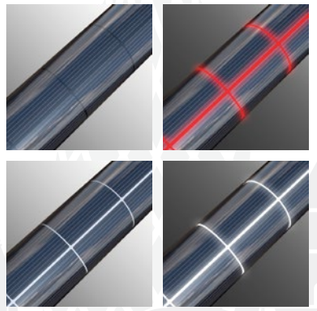
Light source	**8 high eff. LED units**
SOP Solar Operating Power	**35 W**
Luminous flux @ SOP	**2x 2,500 lm**
Pole height	**8.0 / 10.0 / 12.0 m**
Light spot height	**7.95 / 9.95 / 11.95 m**
SPR System power ratio	**11**

columba
SOLAR LIGHT COLUMNS

hei columba. **Fusion of solar and light.** High end solar light column with unique luminaire shell-design for architectural lighting applications with the **highest design expectations.** Available in various heights and wattages for parking sites, secondary and main roads, etc. Full solar power supply, no grid required.

Light source	**8 - 4x 8 high eff. LED units**
SOP Solar operating power	**35 - 4x 35 Watt**
Luminous flux @ SOP	**5,700 - 4x 5,700 lm**
Pole height	**6.0 - 14.0 m**
Light spot height	**5.7 - 13.7 m**
SPR System power ratio	**5**

custom colour backsheet
and optional backlighting



steel pole (hot-dip galvanized)

battery inside pole (optional)

earth-pit installation for very hot
and very cold climates recommended

luminaire (lengthwise light distribution)

power tube (high efficiency silicon solar cells)

various pole finishes (painted or powder coated)

columba 6000
P180 - 270

Light source	**8 high eff. LED units**
SOP Solar Operating Power	**35 W**
Luminous flux @ SOP	**5,700 lm**
Pole height	**6.0 / 8.0 m**
Light spot height	**5.7 / 7.7 m**
SPR System power ratio	**5**

columba 6000 twin
P360 - 270

Light source	**2x 8 high eff. LED units**
SOP Solar Operating Power	**2x 35 W**
Luminous flux @ SOP	**2x 5,700 lm**
Pole height	**6.0 / 8.0 m**
Light spot height	**5.7 / 7.7 m**
SPR System power ratio	**5**

columba 12000
P360 - 270

Light source	**2x 8 high eff. LED units**
SOP Solar Operating Power	**2x 35 W**
Luminous flux @ SOP	**2x 5,700 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**9.7 / 11.7 / 13.7 m**
SPR System power ratio	**5**

columba 12000 twin
P720 - 270

Light source	**4x 8 high eff. LED units**
SOP Solar Operating Power	**4x 35 W**
Luminous flux @ SOP	**4x 5,700 lm**
Pole height	**10.0 / 12.0 / 14.0 m**
Light spot height	**9.7 / 11.7 / 13.7 m**
SPR System power ratio	**5**

reference projects

Since the foundation of the company in 2001, **hei** has evolved into a global leader in providing highly efficient solar lighting products for virtually any kind of outdoor lighting applications. From illuminating the smallest parking lot to providing light to huge public squares, we have introduced efficient and environmental-friendly solar lighting to the world.
Our ambitious design approach can only be fulfilled with products with the utmost efficiency, long life-expectancy, minimal maintenance requirements and the lowest possible operating costs. These are the reasons why our customers all over the world opt for our products.

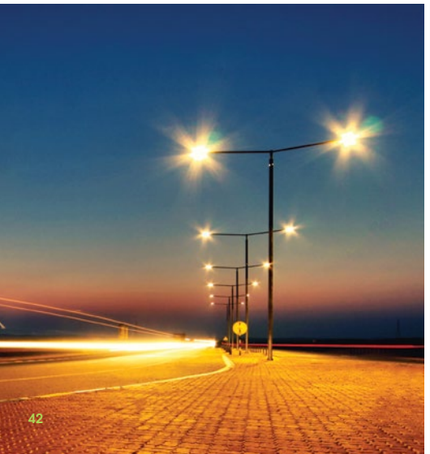
Al Amal Hospital,
Dubai, UAE

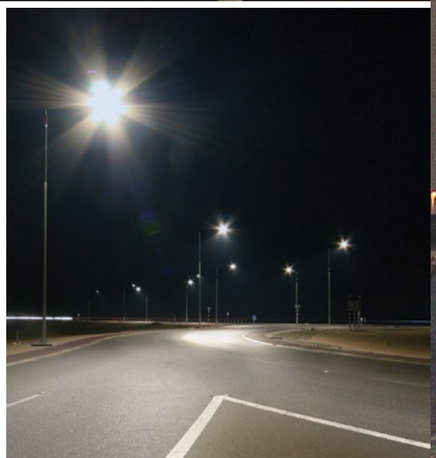
Pathway,
Philadelphia, USA

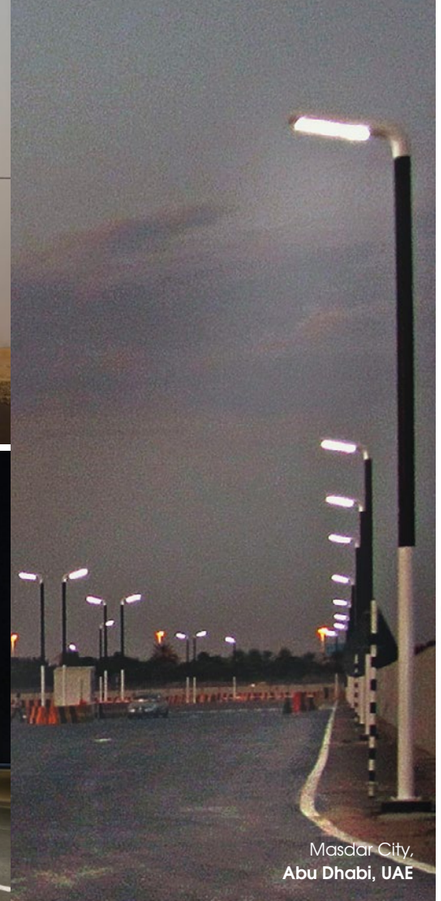
MILESTONE FOR SOLAR HIGHWAY LIGHTING

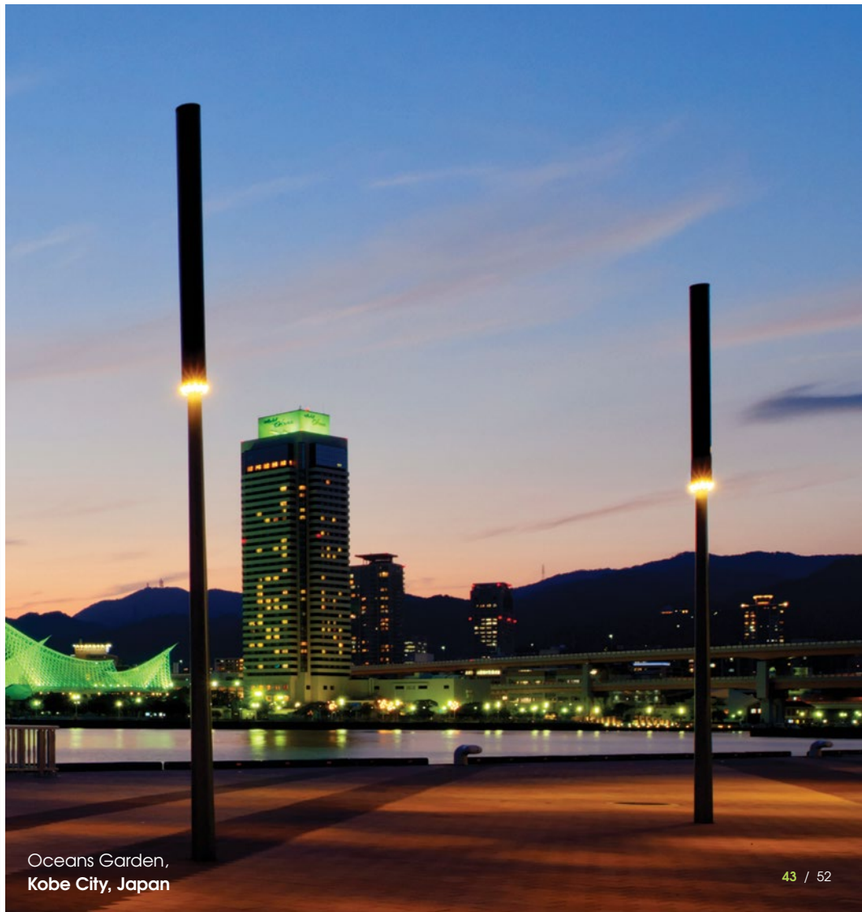
100 % SOLAR 100% OFF-GRID

Ghayathi highway,
Abu Dhabi, U.A.E.






Masdar City,
Abu Dhabi, UAE


Oceans Garden,
Kobe City, Japan

Matznerpark,
Vienna, Austria

Royal Abby of Santa Maria de Poblet,
UNESCO World Heritage Site,
Catalonia, Spain

Mona Vale,
Sydney, Australia

Luce Galatasi,
Athens, Greece

Al Noof Kindergarten,
Sharjah, UAE

Waterfront City,
Beirut, Lebanon

Viale Stazione,
Bellinzona, Switzerland

Bicycle pathway to HIA,
Doha, Qatar

Al Qarain School,
Sharjah, UAE

Wasit Jogging Track
Sharjah, UAE

Roadway,
Therdbo, Australia

Energybase,
Vienna, Austria

School for girls,
Ras al-Khaimah, UAE

Katara Cultural Village,
Doha, Qatar

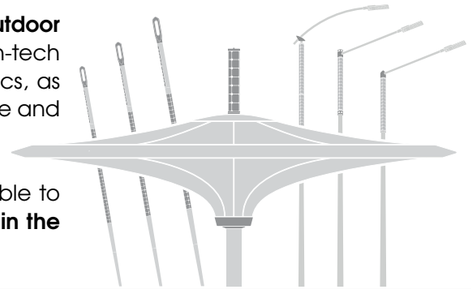
Government district,
Tamar, Hong Kong

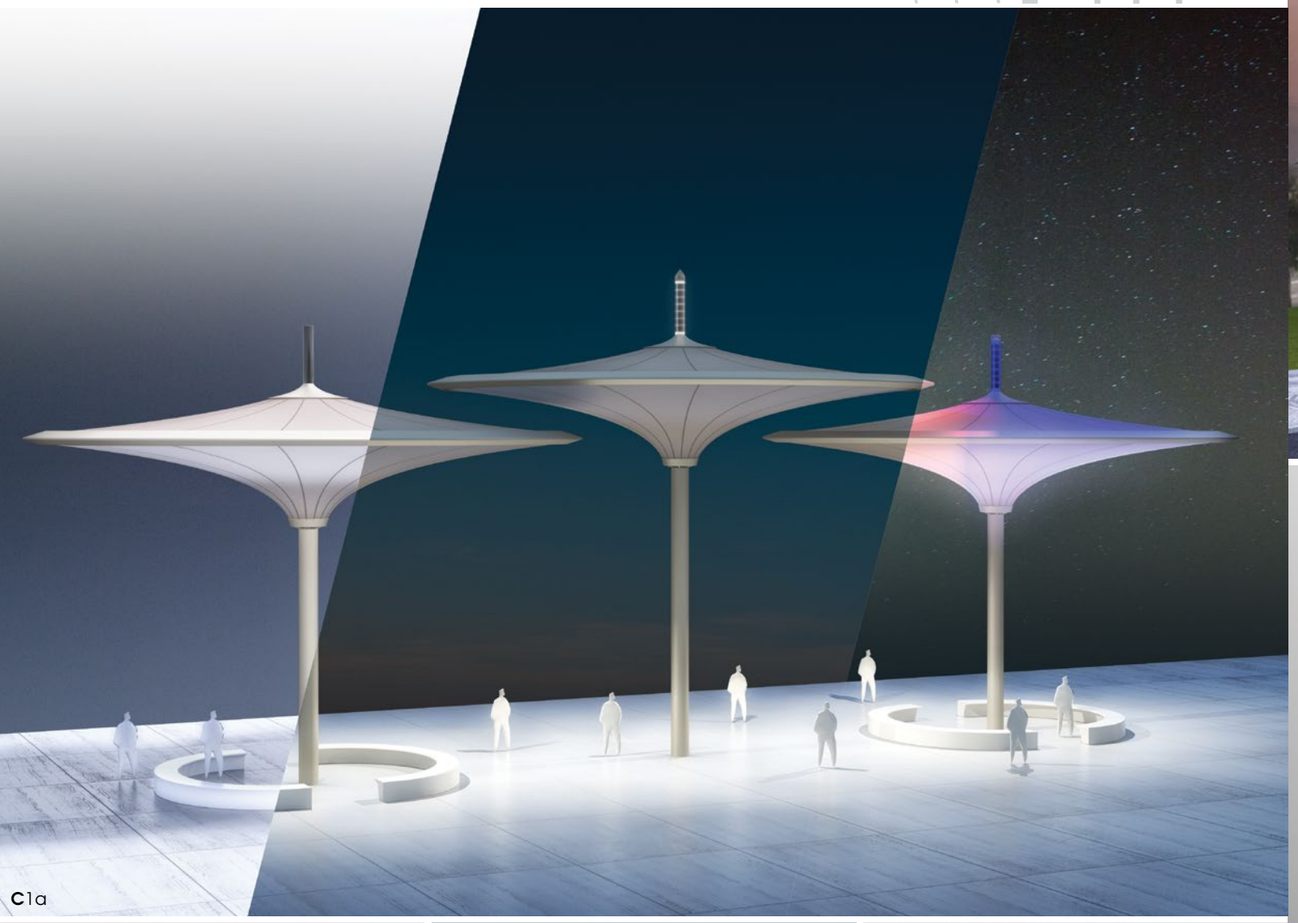
Public space,
Troinex, Switzerland

customization

hei is your experienced partner for **customized and project-specific outdoor lighting solutions**. **hei** designs, engineers and manufactures all high-tech components of a (solar) light pole on its own - luminaire, photovoltaics, as well as electronics hardware and software. This gives **hei** the experience and know-how for almost unlimited product customization.

If you do not have a specific design in mind, our designers are capable to come up with a site-specific solar lighting design that will **fit perfectly in the environment.**





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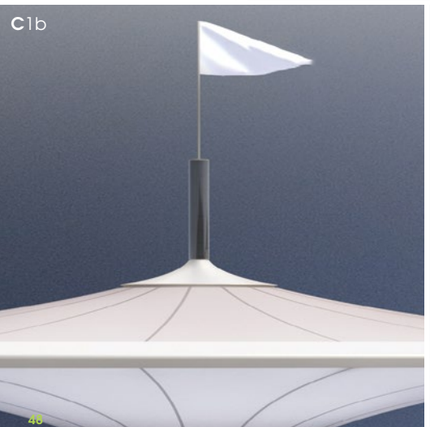

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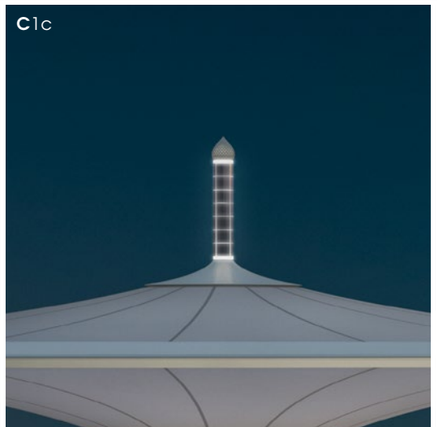

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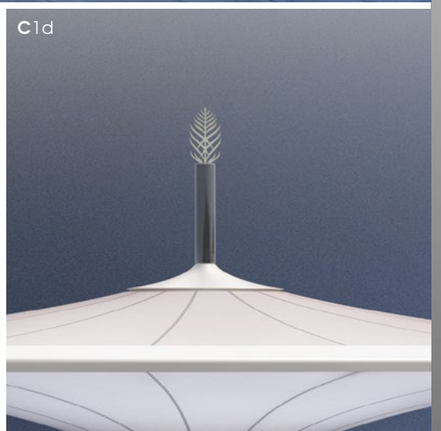
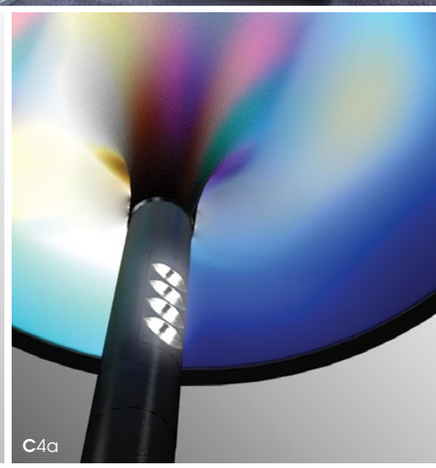


C1d

C2a

C2b

C3

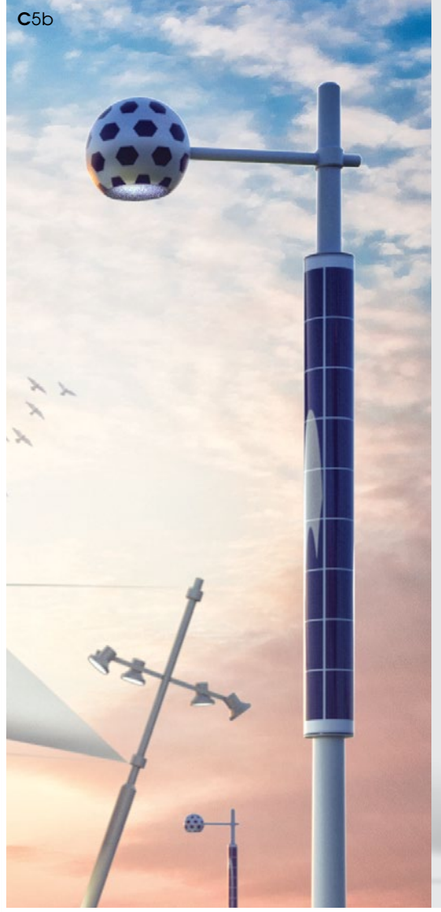


C4a

C4b

C5a

C5b



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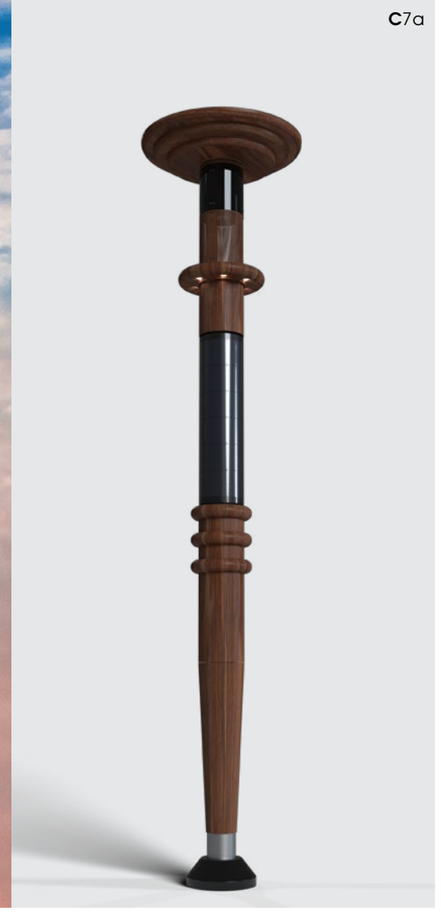
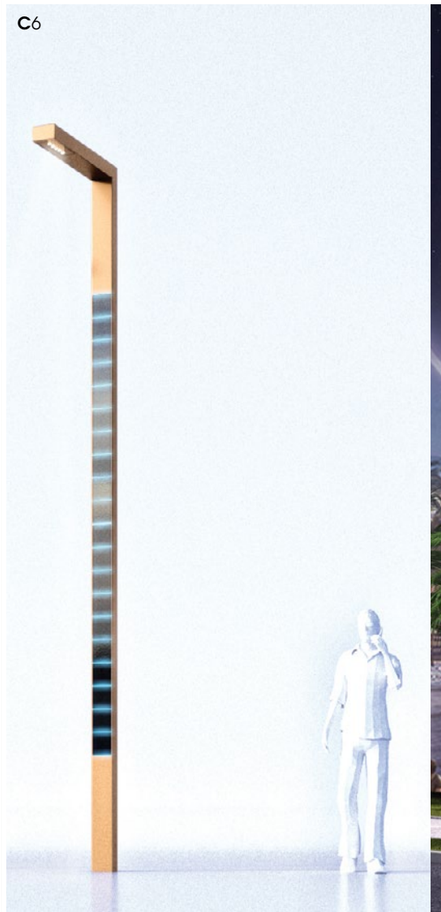


C7b

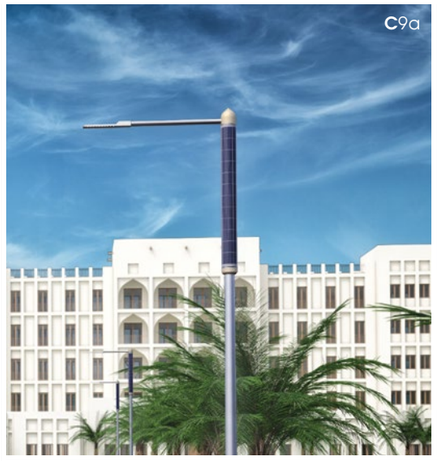
C7c

C6



C8

C9a



C9b

C9c

hei is your partner
even in the most extreme conditions.

C10
Mona Vale,
Sydney, Australia

Photo credits

Varaždinske toplice, Croatia
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Hawk Energy / HEI Technology International GmbH

Al Amal Hospital, Dubai, U.A.E.
BMTC / Azi Raza

Philadelphia, USA
HEI Technology International GmbH

Madar City, Abu Dhabi, UAE
HEI Technology International GmbH

Kobe city, Japan
GBP / Studio Moritake

Matznerpark, Vienna, Austria
Zankilla

Catalonia, Spain
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Lumatron / Geoff Sharp

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BMTC / Azi Raza

Wasit Jogging Track, Sharjah, UAE
HEI Technology International GmbH

School for girls, Ras al-Khaimah, UAE
BMTC / Azi Raza

Katara Cultural Village, Doha, Qatar
Lumatron / Geoff Sharp

Thredbo, Australia
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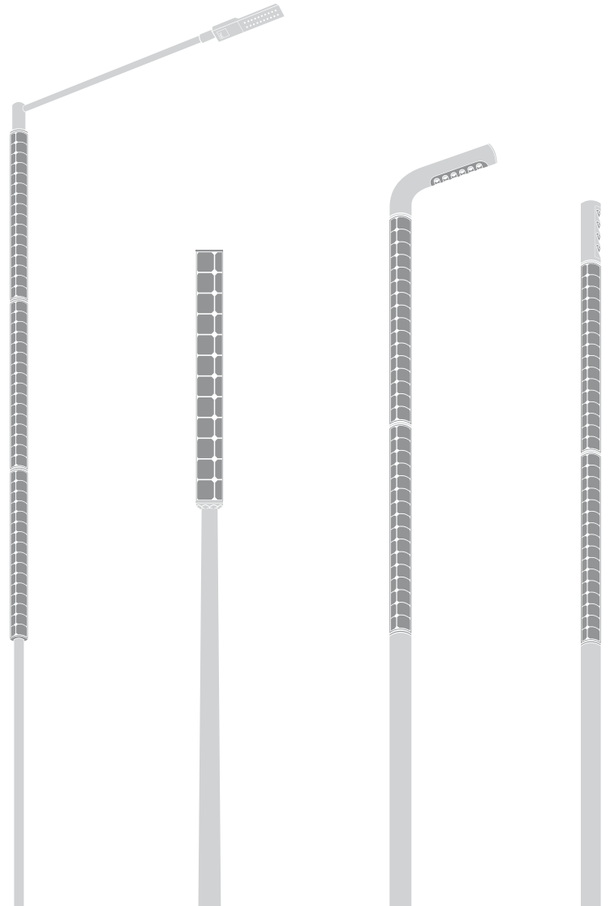
Tamar, Hong Kong
Flora Lighting / Leo Lee

Troinex, Switzerland
DTI Energies / Frederic Bonna

Mona Vale Storm, Sydney, Australia
Radius / Glenn Nicholls / AP/ picturedesk.com



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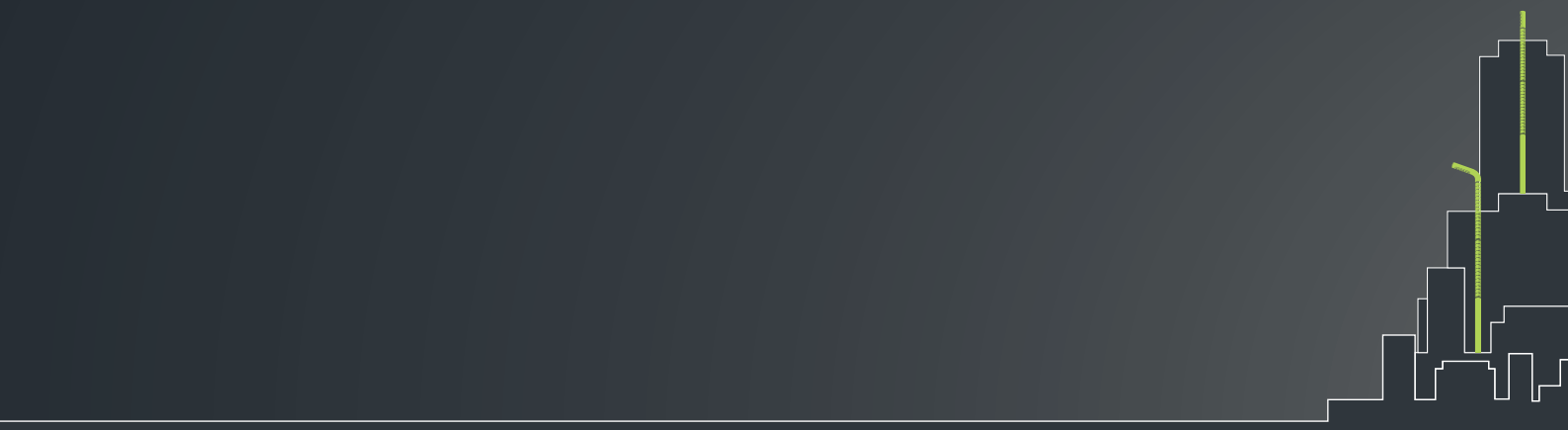
www.hei.at



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product catalogue

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