

hei

Smart & Solar.
Connecting the future.

Solar
Solutions
Overview

EN



Vertical Solar Masts

Outdoor Lighting – Smart City / IoT – Telecom

Stop the madness!

There is clear scientific evidence that we are on a fast track into a global climate catastrophe. The year 2023 is confirmed to be the hottest in modern human history since global temperature data records begun and even much hotter years lie ahead of us.

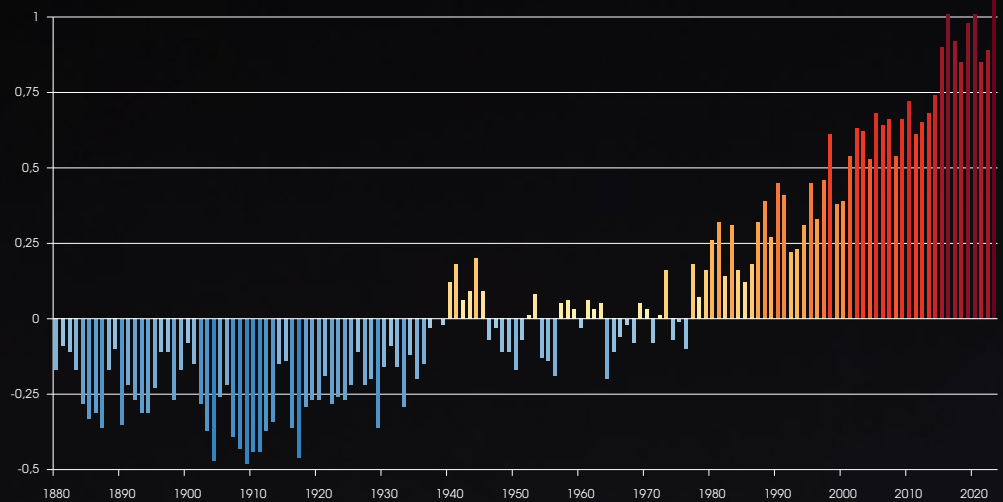
United Nations Secretary-General António Guterres called on the world to “stop the madness” of climate change¹, underscoring the need to end the age of fossil fuel to protect mankind from climate change induced destruction.

¹ United Nation News, Oct. 30th, 2023, <https://news.un.org/en/story/2023/10/1142987>

Last 10 years were the warmest on record.

Temperature anomaly in 2023: 1,17 °C

Global temperature anomaly (°C compared to 1951-1980 average)



GISTEMP Team, 2024: GISS Surface Temperature Analysis (GISTEMP), version 4. NASA Goddard Institute for Space Studies. <https://data.giss.nasa.gov/gistemp/>

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Vertical Solar Masts

Outdoor Lighting – Smart City / IoT – Telecom

Climate change is the biggest global threat for humanity and nature. The good news is: "Stopping the madness" of climate change is feasible. We need to phase out coal, oil and gas. We need to switch to renewables in all sectors. The right sustainable technologies and green products are available.

Time is of the essence. We need to act now and we need to act consequently. We can't delegate the transformation towards a climate neutral, sustainable energy systems towards future generations. It's our responsibility to act here and now. **Let's do it!**

hei stands for sustainable, climate-friendly, and aesthetical product innovation since 2001! **hei's** vertical solar masts for off-grid power supply are a contribution to a sustainable energy future.

And off-grid means also time and cost savings: no cabling/trenching costs, no grid dependency, higher flexibility, faster project execution, reduced project risks, resilience against grid black-outs, and power supply even in remote areas.

hei vertical solar masts: climate protection and more!
Get independent. Go off-grid. Go solar.

Welcome to hei!
Welcome to all-round solar solutions!



Dr. Dieter Hornbachner
Founder and MD



Solar powered.
Environmental-friendly.



No cabling.
No electricity
grid required.



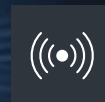
No trenching.



Minimal installation costs.
No electricity costs.



Power Tube.
Omnidirectional
sunlight collection.



Remote lighting control.



No electricity consumption.
No CO₂ emissions.
No nuclear risks.



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



Contemporary aesthetics.
Forward-looking design.



Highly efficient LED technology.



Superb light distribution.
Increased pole distance.



Smart lighting control.
Self-learning.
Reliable.



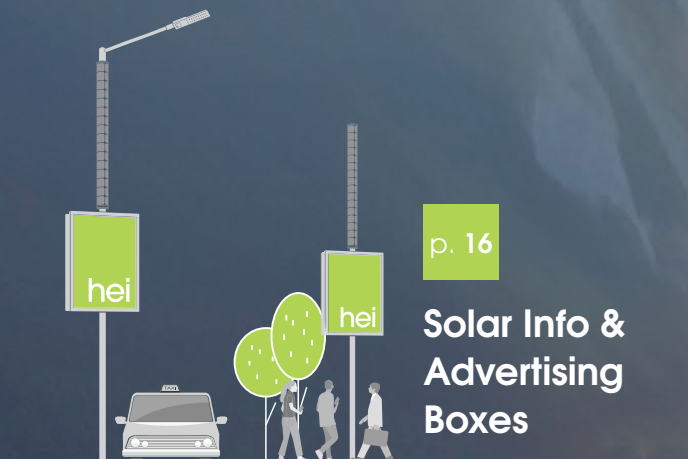
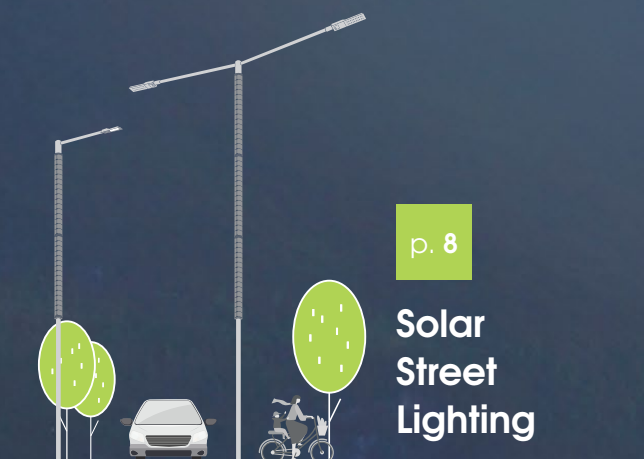
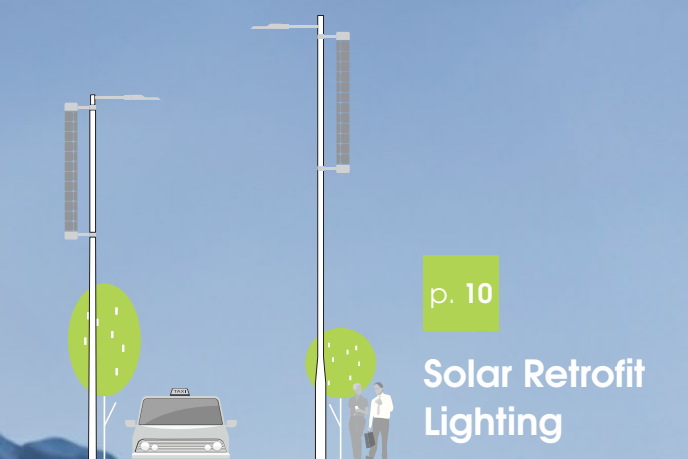
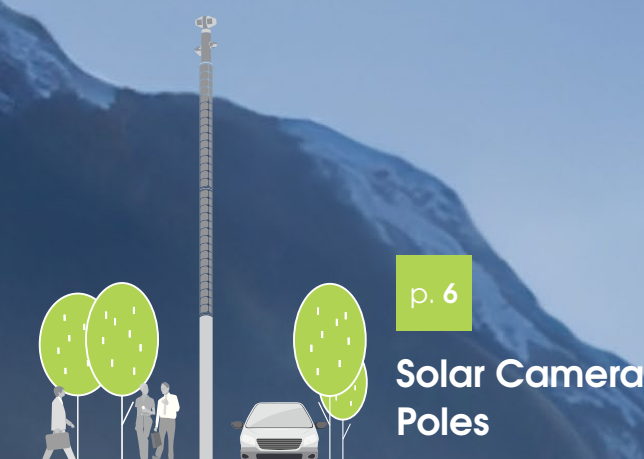
No flat PV panel.
Slim design.
Low wind load.



Simple installation.
Plug & play.

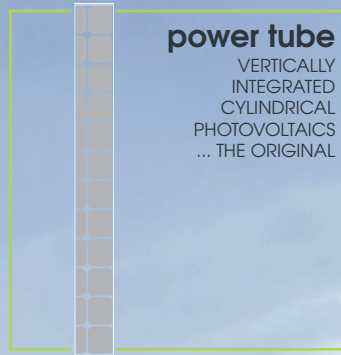
hei vertical solar masts

Outdoor lighting – smart City / IoT – telecom.



Our solutions are **a blend of innovation and versatility, designed to cater to diverse needs**; from the elegance and efficiency of street lighting to the high functionality required for smart city/IoT applications and telecom infrastructure.

Discover **hei's** all-round solar solutions with it's unique features, standard as well as customized options; solar solutions which go beyond illumination, **shaping the future of sustainable urban and rural landscapes**.



**Go solar. Go for beauty.
Take the tube.**

Excellent solar yield and reliability, low maintenance and flexible design.

Various diameters, lengths and output power for solar supply of all kind of off-grid applications.

When **aesthetics, reliability and reduced maintenance** matter:

hei power tube - the original!

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.

Project reference:

hei smart solar poles

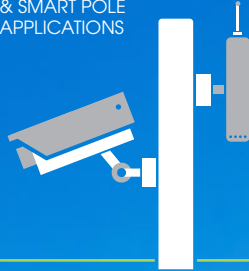
custom designed for stadium landscaping

Customized decorative hei solar smart pole with needle-shape for landscape design at **Al Bayt football stadium, Qatar**, venue of the **FIFA world cup 2022**.

The smart needle pole includes pole-integrated lighting, camera and loudspeaker for surveillance and public announcements, respectively. Data connection via glass fibre cable.

smart & solar

SMART LIGHTING CONTROL
& SMART POLE
APPLICATIONS



IP camera



Surveillance camera



Wind meter,
sensors



Traffic signs



Mobile phone
charging
station



Remote
lighting
control



Wi-Fi hotspot



LED lighting



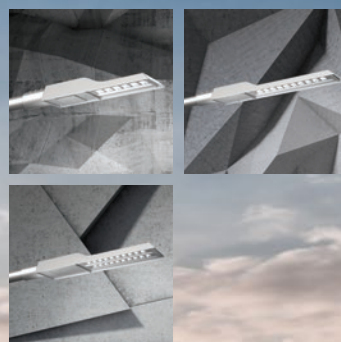
Loudspeakers





**Outstanding performance
at minimum costs.**

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.



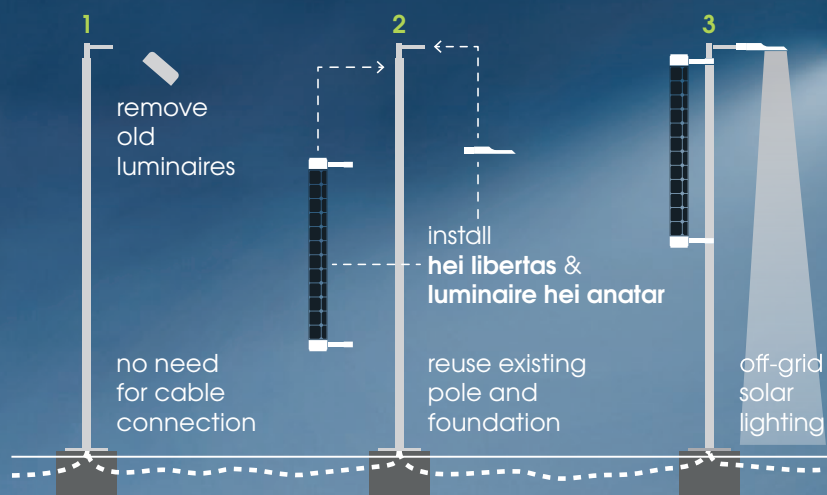
various wattages

anatar 8000
P200-215

hei anatar

Nad Al Sheba 3,
Dubai, UAE

100% solar powered
by hei power tube



SOLAR RETROFIT LIGHTING

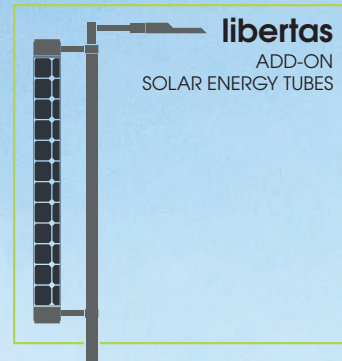
new product



libertas
P200-215



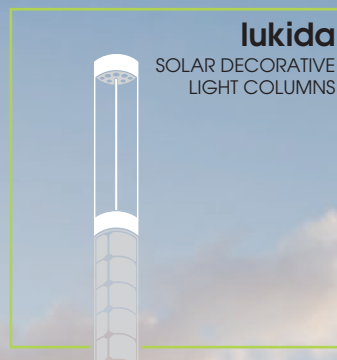
Area and outdoor lighting



Solar retrofit lighting.
Liberating the energy
supply from the cable.

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.

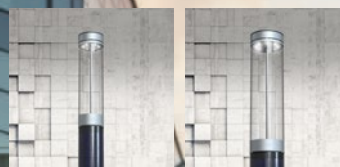
For perfect illumination, choose from a variety of highly-efficient **hei** luminaires, all without having to replace poles – just cut the cables and forget them!



When design matters.

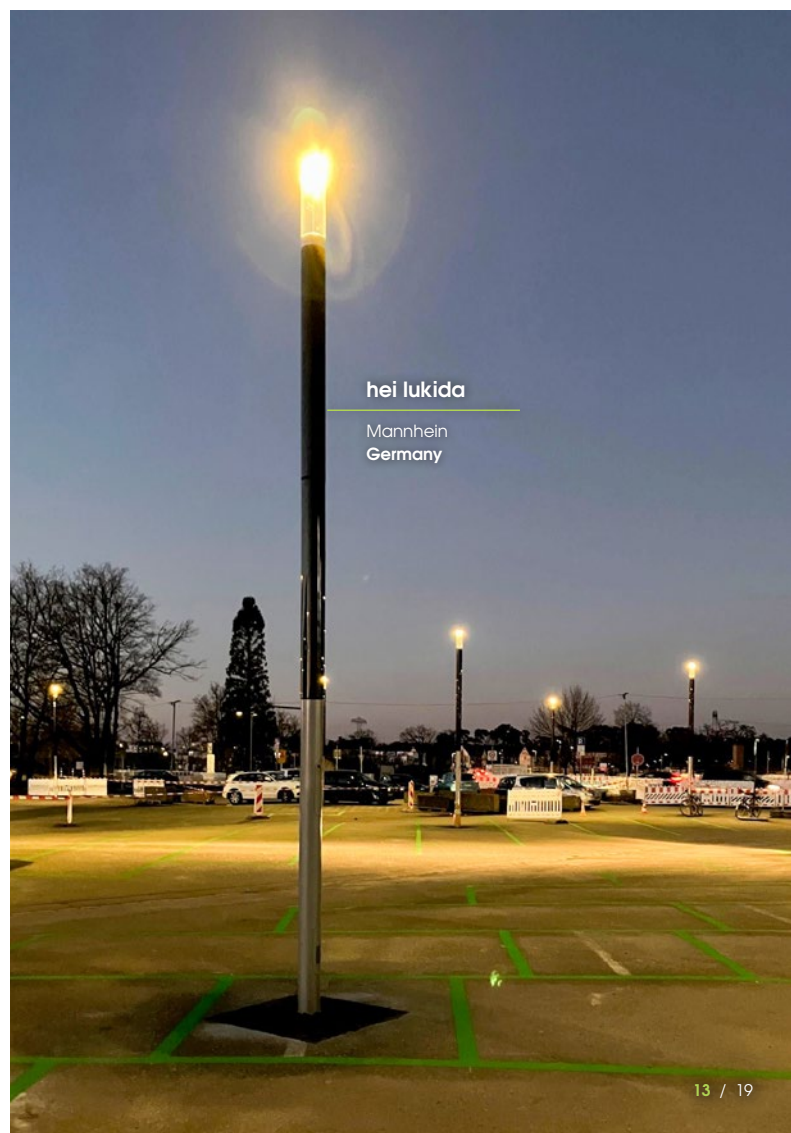
A family of aesthetic columns with integrated photovoltaics and luminaire for decorative private or public outdoor lighting applications, such as gardens, parks, boulevards, and secondary roads.

Product innovation award @



various wattages

lukida 8000
P400-215



champ
SOLAR DECORATIVE
LIGHT POLES



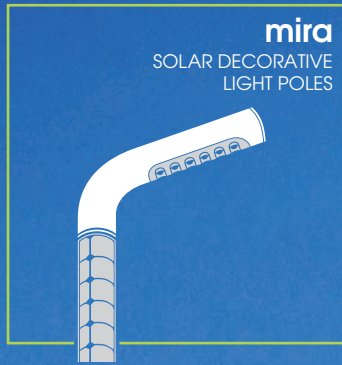
**The solar pioneer with
outstanding
design.**

First solar light pole
worldwide with integrated
cylindrical photovoltaic
element, for professional
architectural outdoor lighting
applications such as squares,
promenades and boulevards.

Austrian
state prize for
industrial design



champ 8000
P200-215



**Decorative, self-sustaining
and maintenance-free.**

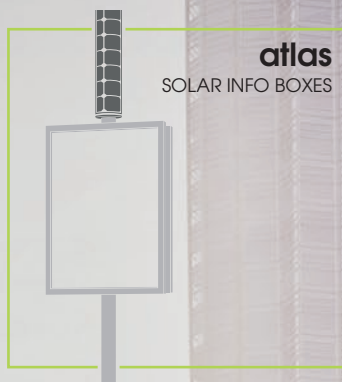
Solar light poles for outdoor
lighting applications such
as residential streets, bicy-
cle tracks or parking sites.
Award-winning, protected
design. Full solar power
supply, no grid-connection
required.



various wattages



mira 4000 twin
P200-160



Sunlight for sale.

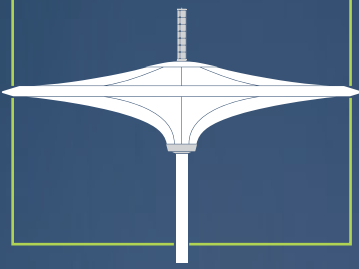
A sunny and commercially highly profitable combination of solar street light poles and LED backlit info boxes. Refinancing the light poles by renting out the advertising space.

Also available as Solar Info poles and Solar Info stands.





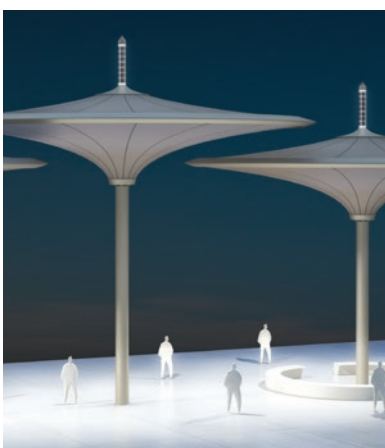
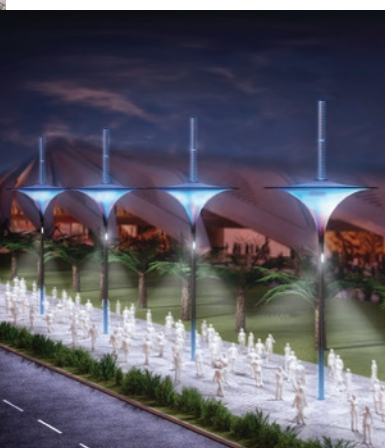
customization
PROJECT-SPECIFIC
SOLUTIONS



hei is your experienced partner for customized, project-specific solutions.

Almost unlimited product customization.

hei designs, engineers and manufactures all high-tech components of a (solar) pole on its own.





Ghayathi highway,
Abu Dhabi, UAE



Tal Moreeb road,
Abu Dhabi, UAE

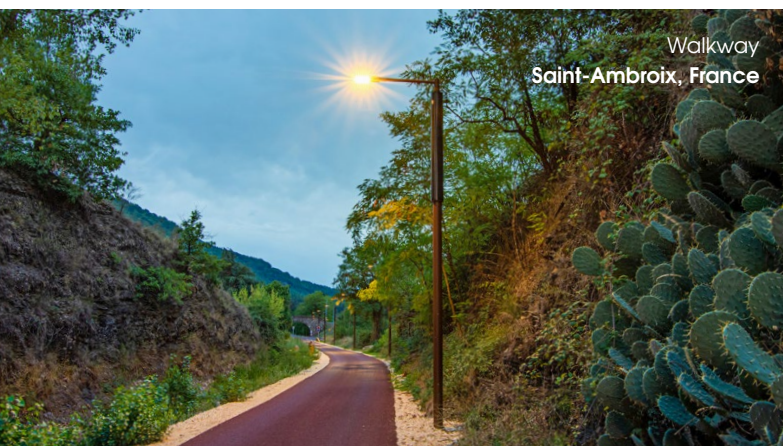
reference projects
SATISFIED CUSTOMERS
WORLDWIDE



Our ambitious design approach can be fulfilled only with products with utmost efficiency, long life-expectancy, minimal maintenance efforts and least possible operating costs. This are the reasons, why our customers all over the world enjoy our products.



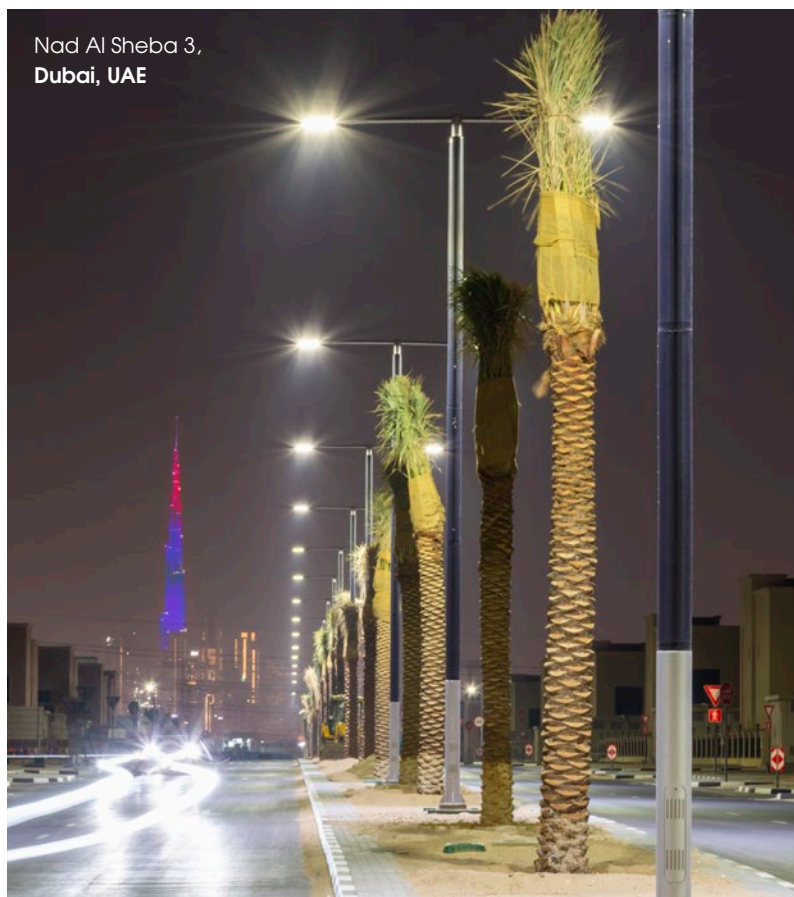
Waterfront City,
Beirut, Lebanon



Walkway
Saint-Ambroix, France



Research Technology and Innovation Park,
American University,
Sharjah, UAE



Nad Al Sheba 3,
Dubai, UAE



Pathway,
Philadelphia,
USA



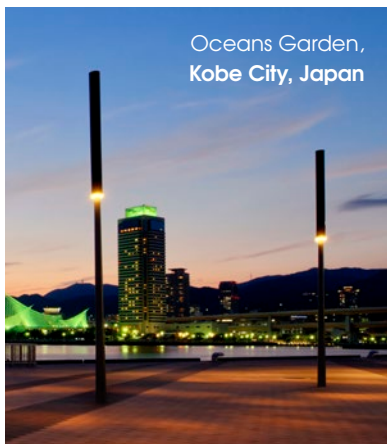
Katara Cultural Village,
Doha, Qatar



Park
La Coquille, France



Schweizerhalle,
Basel, Switzerland



Oceans Garden,
Kobe City, Japan



West Beach - Palm Jumeirah,
Dubai, UAE



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



Mona Vale,
Sydney, Australia



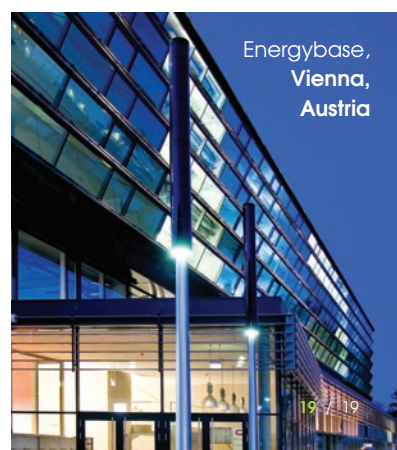
Roadway,
Therdbo, Australia



Public space,
Troinex,
Switzerland



Government district,
Tamar, Hong Kong



Energybase,
Vienna,
Austria



hei VERTICAL SOLAR MASTS



Solar Solutions Overview
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