

PEG[®] PV substructure

The revolution in utility scale pv power



Reaching the lowest cost of electricity
with a revolutionary new PV plant technology

IT'S NOT EPC,

IT'S EPI

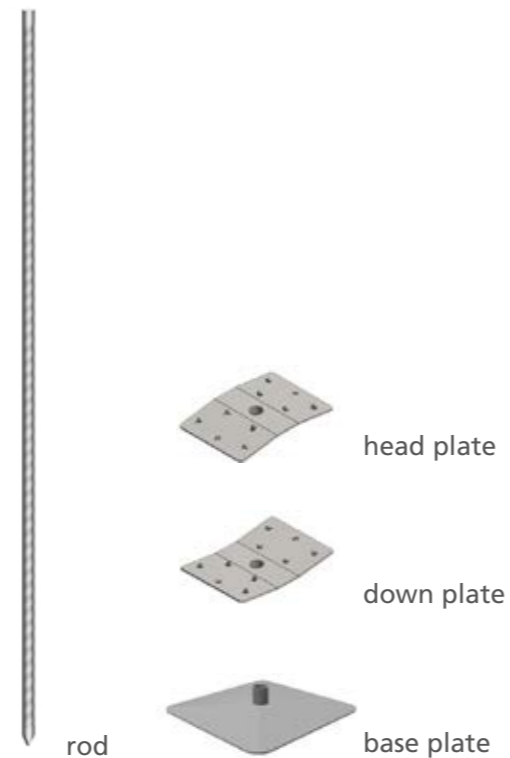
Engineering
Procurement
Installation

The PEG System is a revolution in the field of substructures for solar power plants with framed modules.

It is a simple and unique solution and especially designed for east/west orientations. The PEG System delivers the lowest possible levelised cost of electricity (LCOE) with a maximum efficiency of space, constant energy generation over the day and a large volume scalability.

The PEG system significantly reduces both substructure supply and delivery as well as installation costs. Due to the lightweight construction no foundation is needed. The needed material is reduced to less than 50 percent compared to conventional systems.

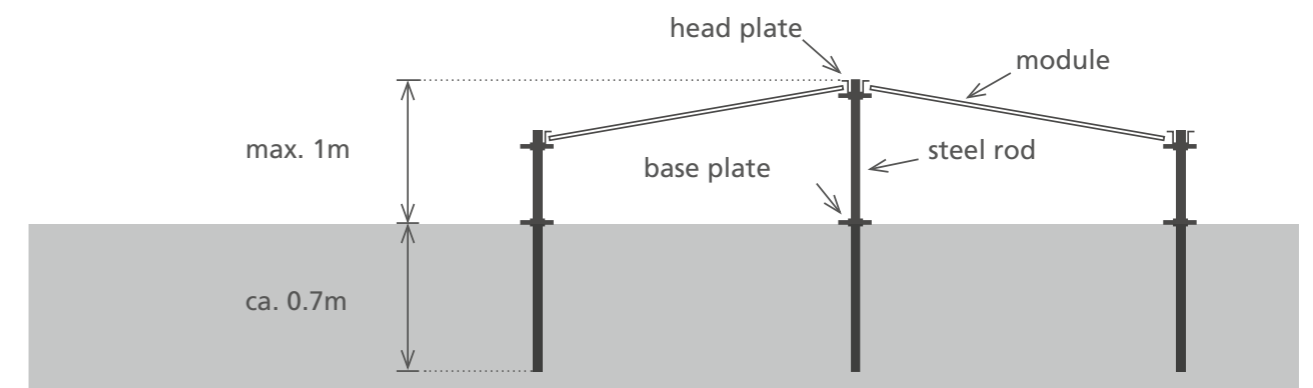
Less material and a simple design lead to reduced labor costs and the phase between planning and commissioning is reduced significantly. The PEG substructure is the lightest, most efficient and most innovative system on the market.



Simplicity

- Self stabilizing
- Robust & certified for tropical weather
- Low visual impact

Efficiency improvement



Cost reduction

PEG system was formed with a simple goal in mind: create a power unit to deliver electricity at lowest possible levelized costs of energy (LCOE), with best in class technologies, long-term reliability and large volume scalability.

The PEG unit significantly reduces both substructure supply and delivery, as well as installation costs.



ENGINEERING

most effective land utilization

low visual impact

Fully scalable
from 10kWp to MWs



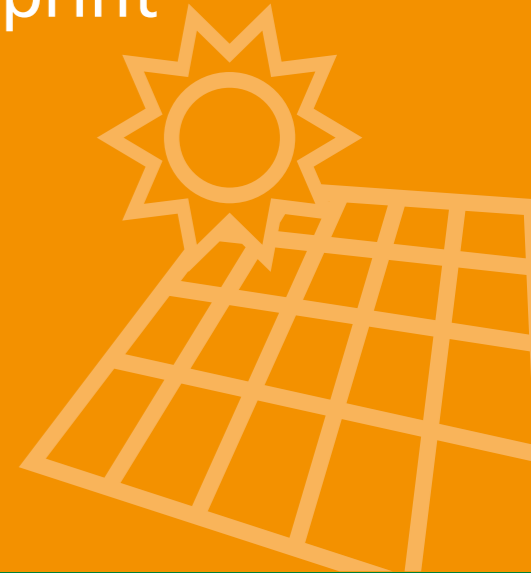
OPERATION

consistent energy
generation across the day

low ecological footprint

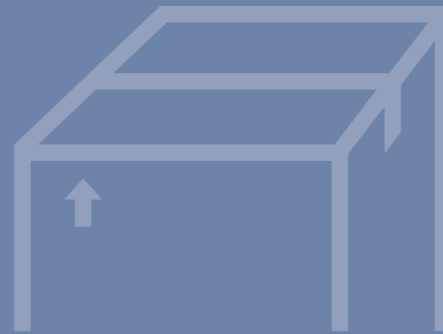
robust design

windproof



PROCUREMENT

minimal sourcing
& logistic effort



MAINTENANCE

smart solutions
for cleaning & greenkeeping



INSTALLATION

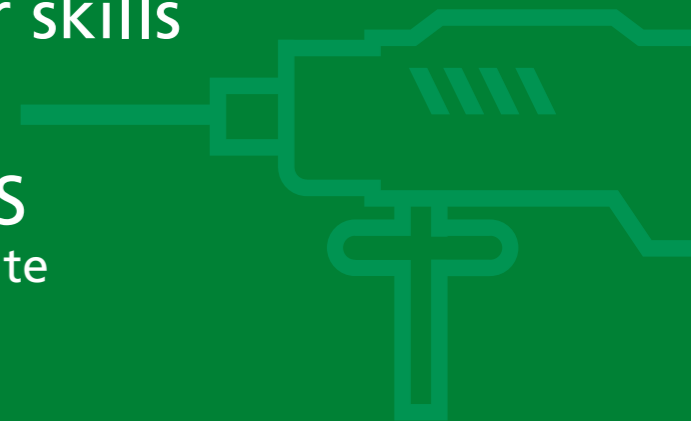
no heavy machines

no cable trenching

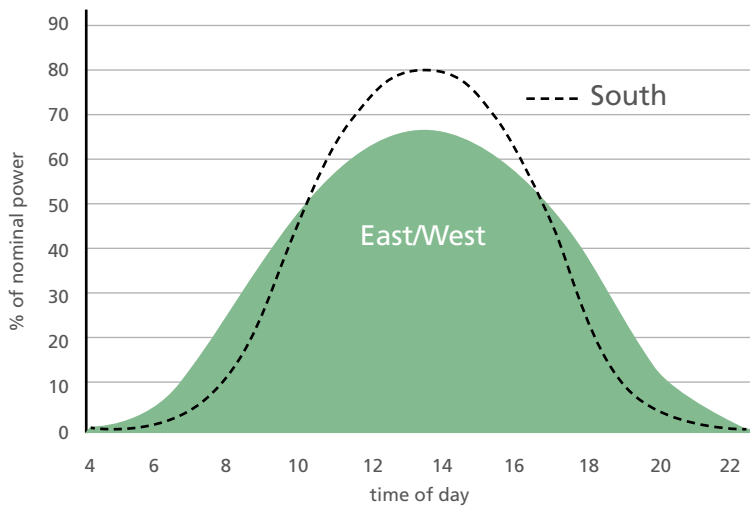
no concrete foundations

lower labor skills
required

simpler H&S
procedures on site



Consistent energy generation across the day



comparison of photovoltaic systems of different orientation on a sunny day (8. July 2013)

Approved PV modules

Hanwha Q CELLS

SF, HSL 60, HSL 72, Q.Plus/Peak-G4.X, Q. Plus/Peak BLK-G4.X, Q.Power/Prime-G5X, Q.Power/Prime-L-G5X series

REC

Peak Energy series

TrinaSolar

TSM-PC05, TSM-PC05.05, TSM-PC05.08 (60 cells) and TSM-PC14 (72 cells)

YINGLI SOLAR

YLxxx P-29b and YLXXX C-30b

BWD

60 and 72 cells

CanadianSolar

CSxK-xx, CSxA-xx and CSxV-xx

JASOLAR

JAM60x/72x-xxx/PR and JAP60x/72x-xxx/SC

JinKO Solar

JKMxxxPP-60 and JKMxxxPP-72 series

SUNTECH

W, V and Vdx series

SOLAR FRONTIER

SFxx-EX-B MP2, SFxxx-L and SFxxx-S MP3

SERAPHIM®

SRP-xxx-6PA/6PB/6MA/6MB xx, MX

Jurchen Technology GmbH

Steigweg 24
97318 Kitzingen
Germany

phone: +49 (0) 9321 2680 600

fax: +49 (0) 9321 2680 699

E-Mail: info@jurchen-technology.com

www.jurchen-technology.com

All data may subject to alterations and errors. 2018_0820_EN



10.8 MWp PEG system at Queensland, Australia