

# GET MORE SUN FROM EVERY ROOF

Increased energy yields on challenging rooftops





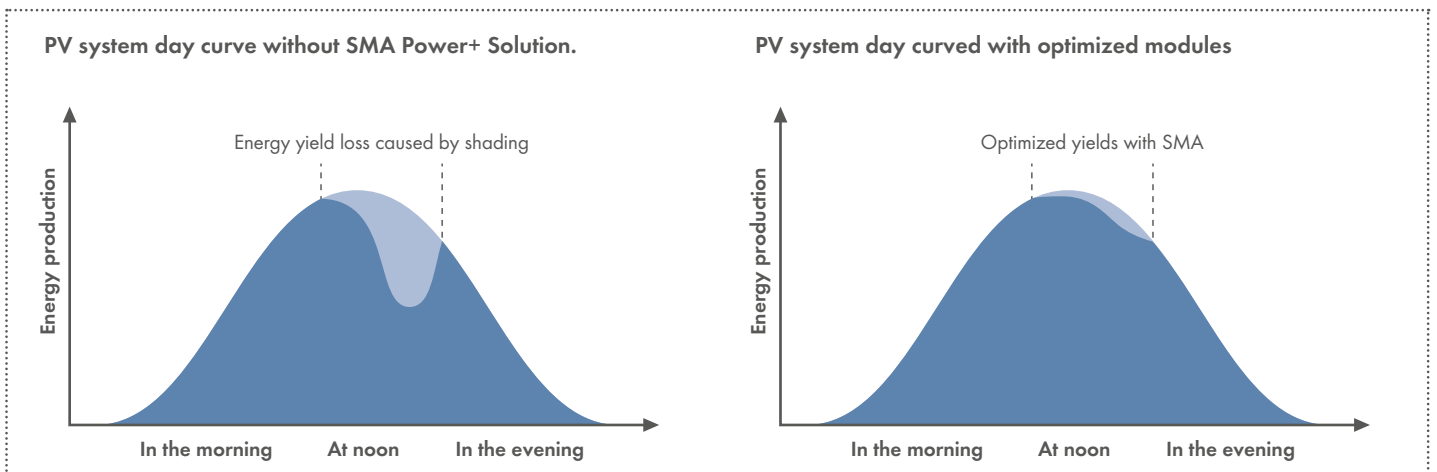
## SIMPLY MORE SOLAR POWER

### Smart optimization thanks to the SMA POWER+ SOLUTION

For the first time, you can now increase your PV system's performance by optimizing individual modules. Energy yield losses caused by, for example, inconvenient shading or complex roof structures are now a thing of the past.

With the intelligent module technology from SMA, you can equip only the modules on your roof that are affected by yield losses with additional functions. This helps you avoid incurring additional costs associated with complex equipment for each module.

Pay only for what you really need and watch your PV system's energy yields soar.





## INTELLIGENT MONITORING IS INCLUDED

Keep constant track of your modules and PV system

Fitted to individual modules, **TS4-R components** increase the output of the entire PV system thanks to their optimization function.

The monitoring function allows the entire PV system to be monitored at the module level. As a result, dis-

turbances caused by, for example, dirt on the modules can be rectified quickly and systematically.

SMA inverters such as **Sunny Boy 3.0–5.0** are a perfect match for this purpose. They convert the roof-gen-

erated direct current to alternating current suitable for use in the grid. The Sunny Boy 3.0–5.0 is the ideal inverter for any PV system on complex roof structures, and it provides the ideal basis for a reliable electricity supply with maximum energy yields.

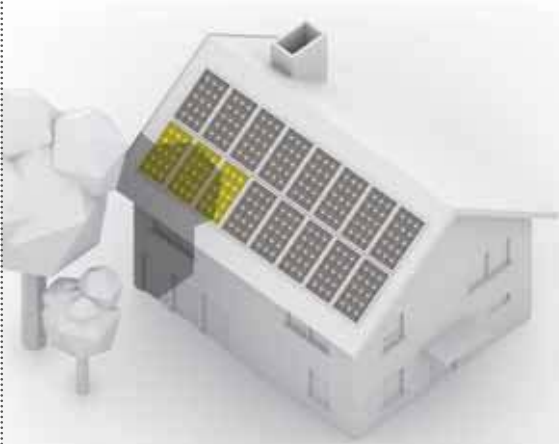
With the SMA monitoring solutions **Sunny Portal** and **Sunny Places**, you can keep constant track of all important system data via a tablet or smart phone.

Your solar power professional is happy to advise you.



# THE RIGHT SOLUTION FOR EVERY ROOF

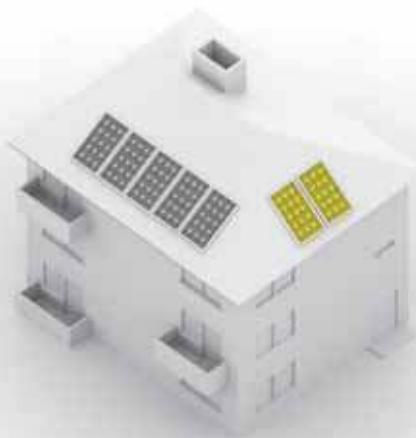
How optimization with the intelligent module technology works



## GET MORE FROM SHADE

### Optimization for partial shading

When partial shading is caused by trees, chimneys or dormer windows, fit optimizers only to the affected modules to minimize output losses.



## SIMPLIFY THE COMPLICATED

### Optimization for different module alignments

For roofs with different module alignments, only fit optimizers to modules that are not in the main alignment. This significantly increases nominal PV system power.



## THE PERFECT VIEW

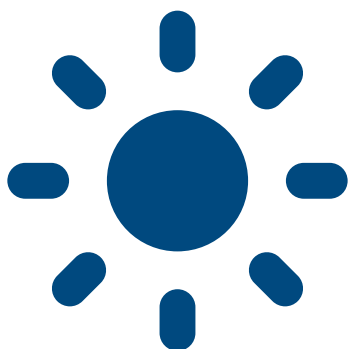
### Optimization + monitoring

Know exactly what is happening on your roof—with the cost-effective monitoring function you have a detailed view of each individual module. This allows you to detect even the smallest anomaly caused by soiling or hail damage and react immediately.

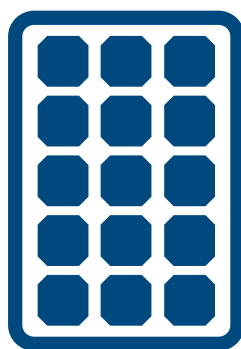


## HIGHER YIELDS DESPITE SHADE

Intelligent modular technology from SMA meets every challenge



**Maximum  
energy yields**



**For  
every roof**



**Minimum  
costs**

