WEBINAR

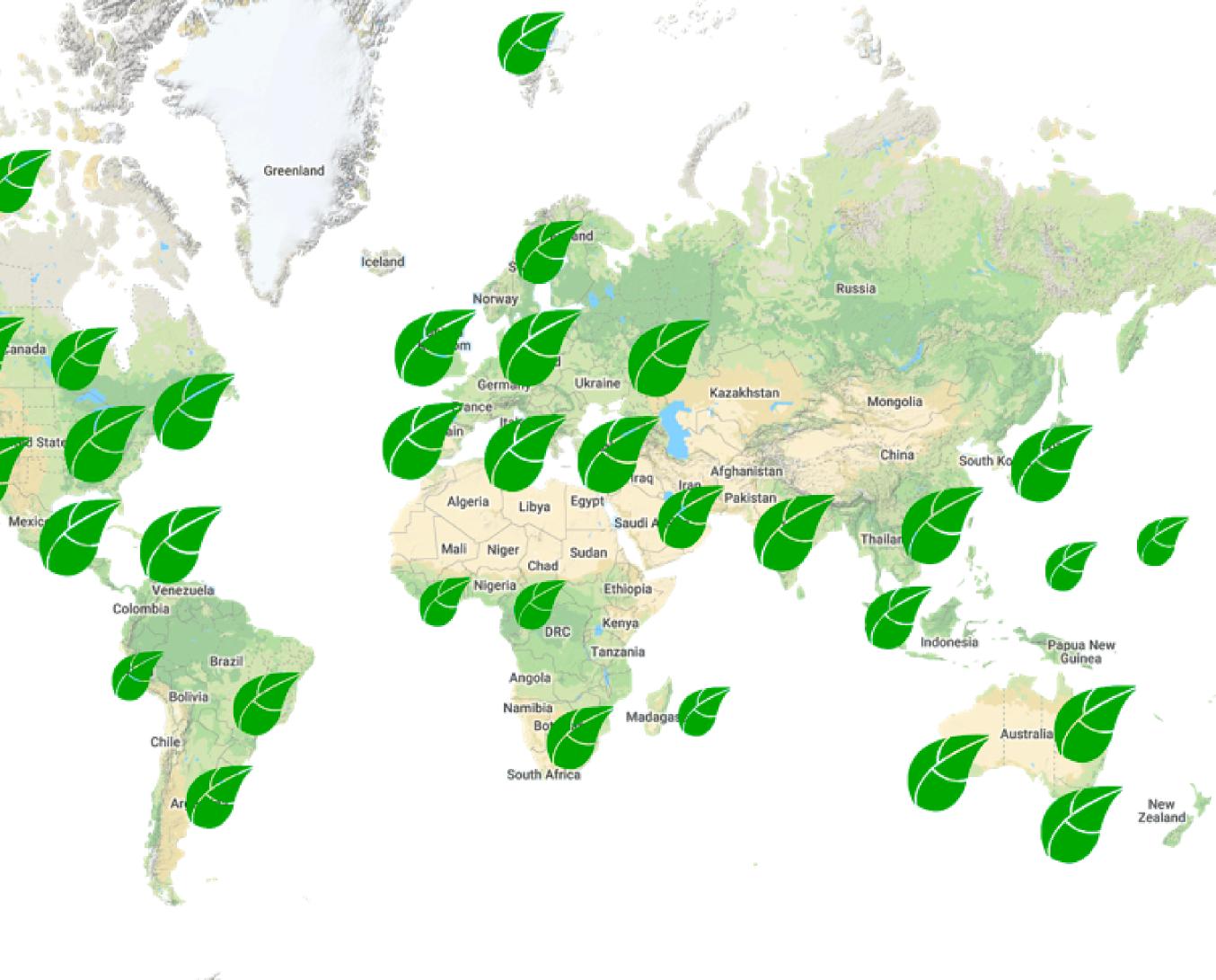
Freedom, Flexibility and Visibility Tigo's Solar Cornerstones







- Founded in 2007
- HQ in Silicon Valley, CA
- Leader in Module Level Power Electronics
- >50,000 monitored PV installs in 7 continents
- >1GWh daily PV production monitored
- 84 patent issued











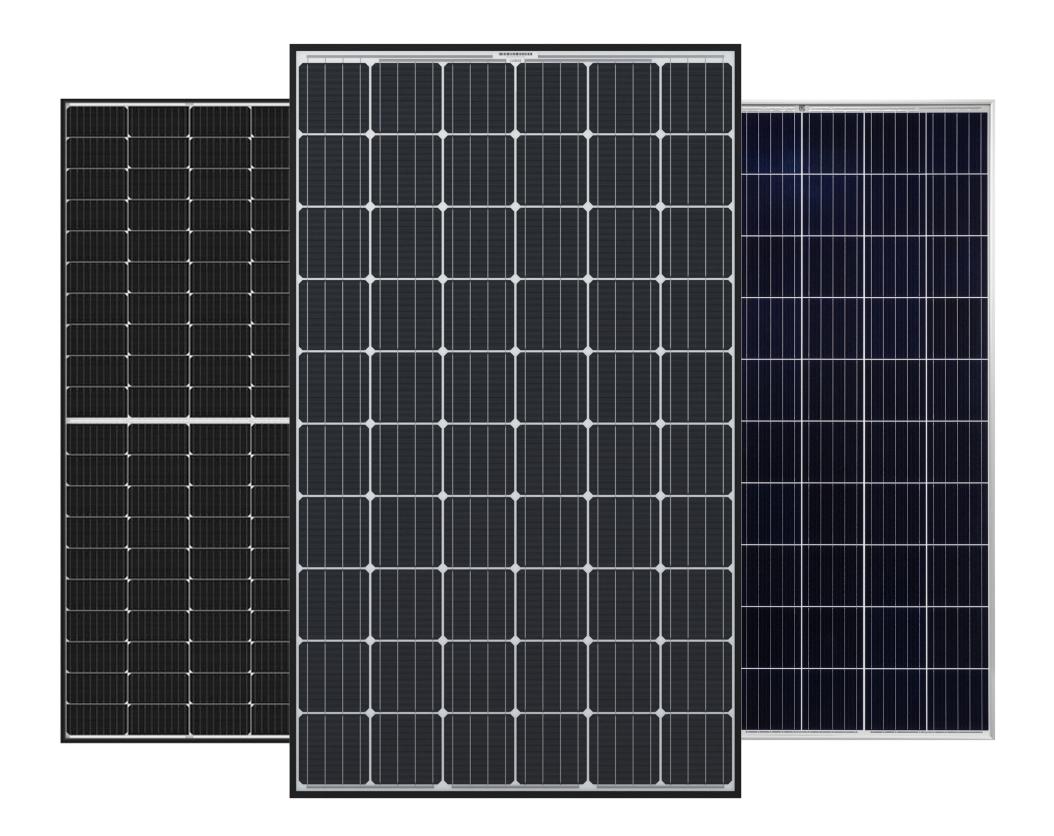




TS4 units are deployable with any PV module...



- up to 700Wp / 15 A
- Fast installation, Smart commissioning
- Perfect for new PV systems, ideal to retrofit applications





...and operate with the largest inverter network



TS4 units work daily with the widest range of inverters in tens of thousands installations all around the world.

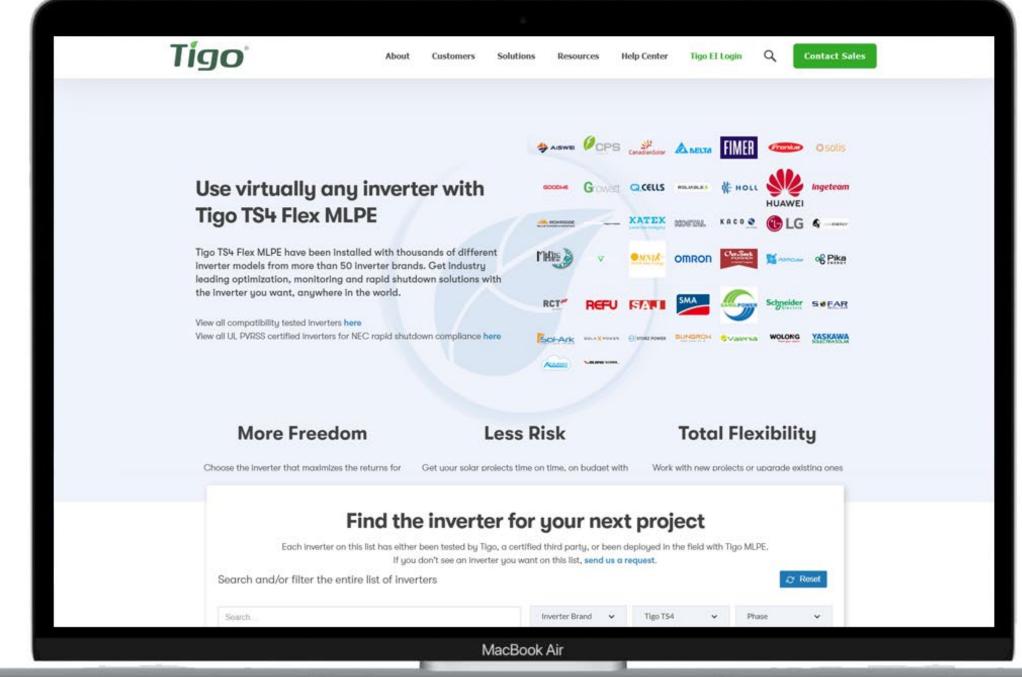
A vast and growing database is now available for all PV Professionals at:

tigoenergy.com/inverter-compatibility

A few numbers:

- 771 Compatible inverters
- 2182 Inverters installed on 2+ monitored sites

Read more about it on our blog (link in related contents)





Freedom with Tigo means:



- Plug-and-play, one-size-fits-all
- Simple architecture: forget hundreds of SKUs!
- The most scalable, versatile and reliable MLPE solution available







With Tigo, only pay for what you need to maximize the benefits of your PV installations





- Increase energy production with shade or mismatch
- Enables PV projects with design constraints, maximizing roofspace
- Tigo data shows >25% of sites get >10% Reclaimed Energy

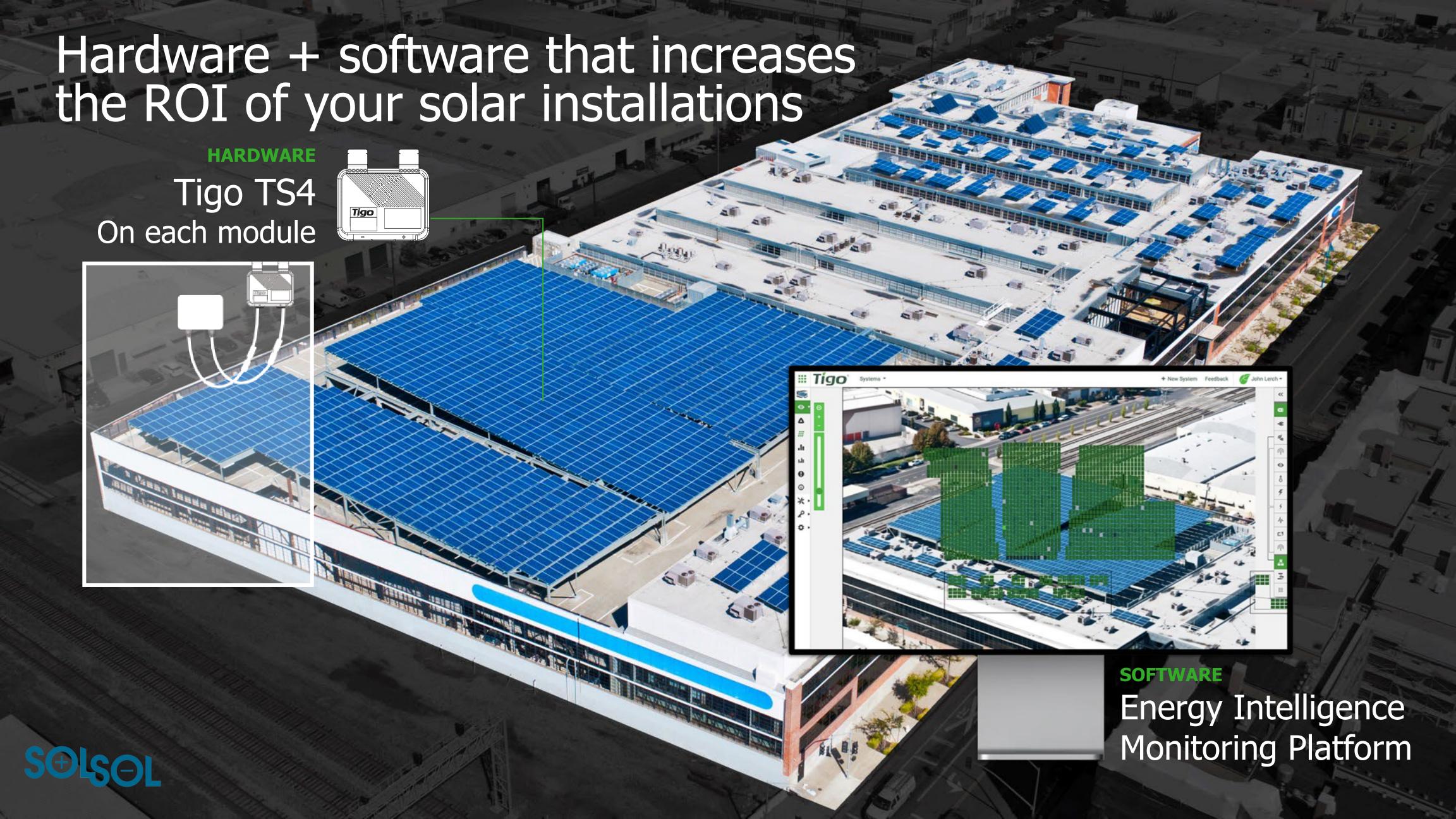


- Lower O&M costs
- Three different levels of visibility (Fleetwide, system and modulelevel)
- Real time alerts. Early detection means better performances



- Automatic & Manual Rapid Shutdown
- IEC and UL certified for global compliance
- 1:1 or 2:1 solutions for enhanced safety on any PV installation





The Tigo TS4 Flex MLPE platform

- Choose the features you want
- Choose the inverter you want
- Scales to any size install
- High reliability

Features

Optimization

Monitoring

Rapid Shutdown









Tigo Enables Intelligence in Traditional PV Systems







OPTIMIZATION

Increase energy output

MONITORING
Lower operating expenses

Enhance safety & compliance



What if there's no shade?

- Full deployment of TS4-A-O (optimizers) | 320 kW in Europe
- Optimizers still increase energy production
- Reclaimed energy increases over time with soiling, mismatch, and wear on modules



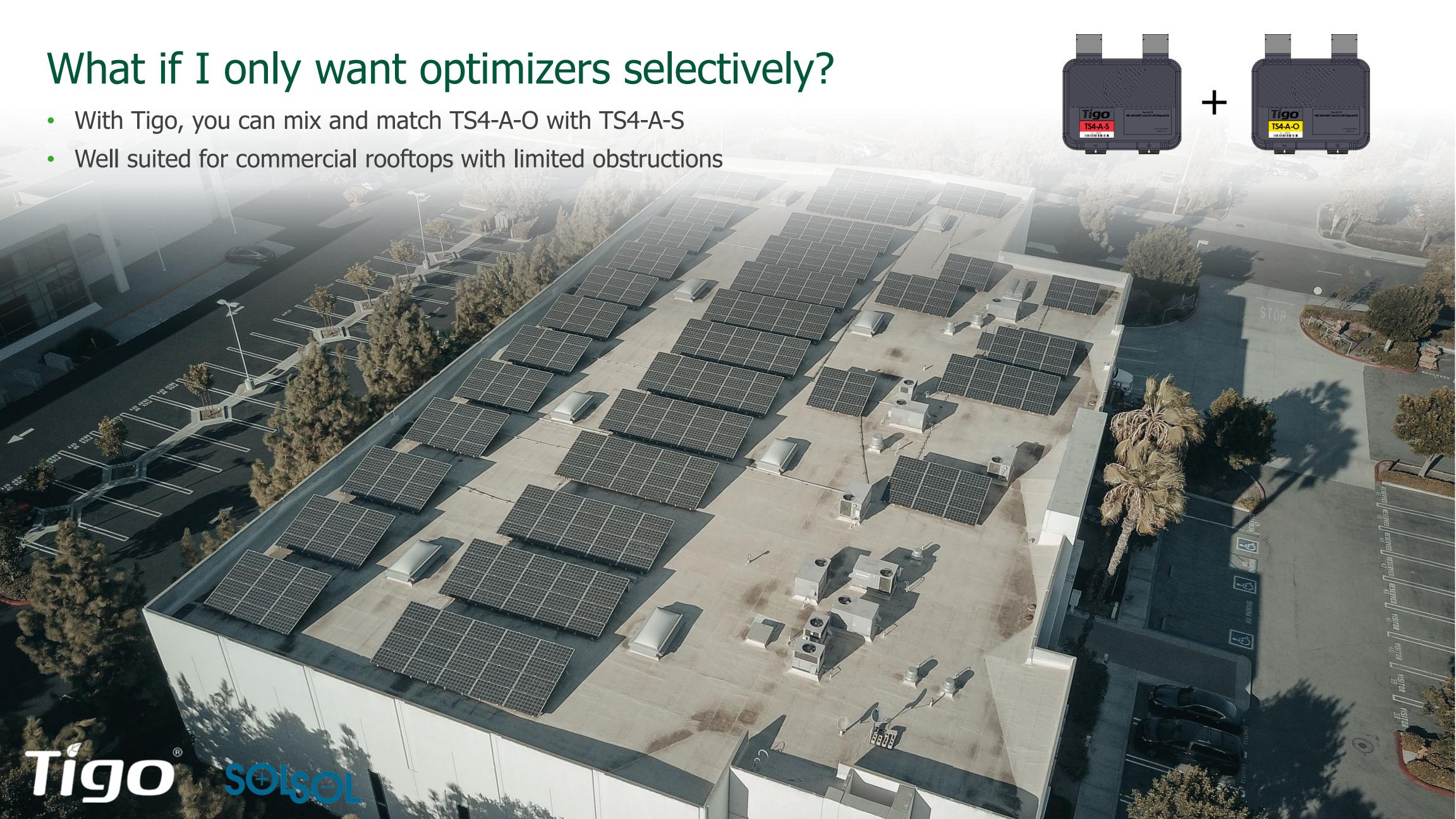


What if I don't want optimizers?

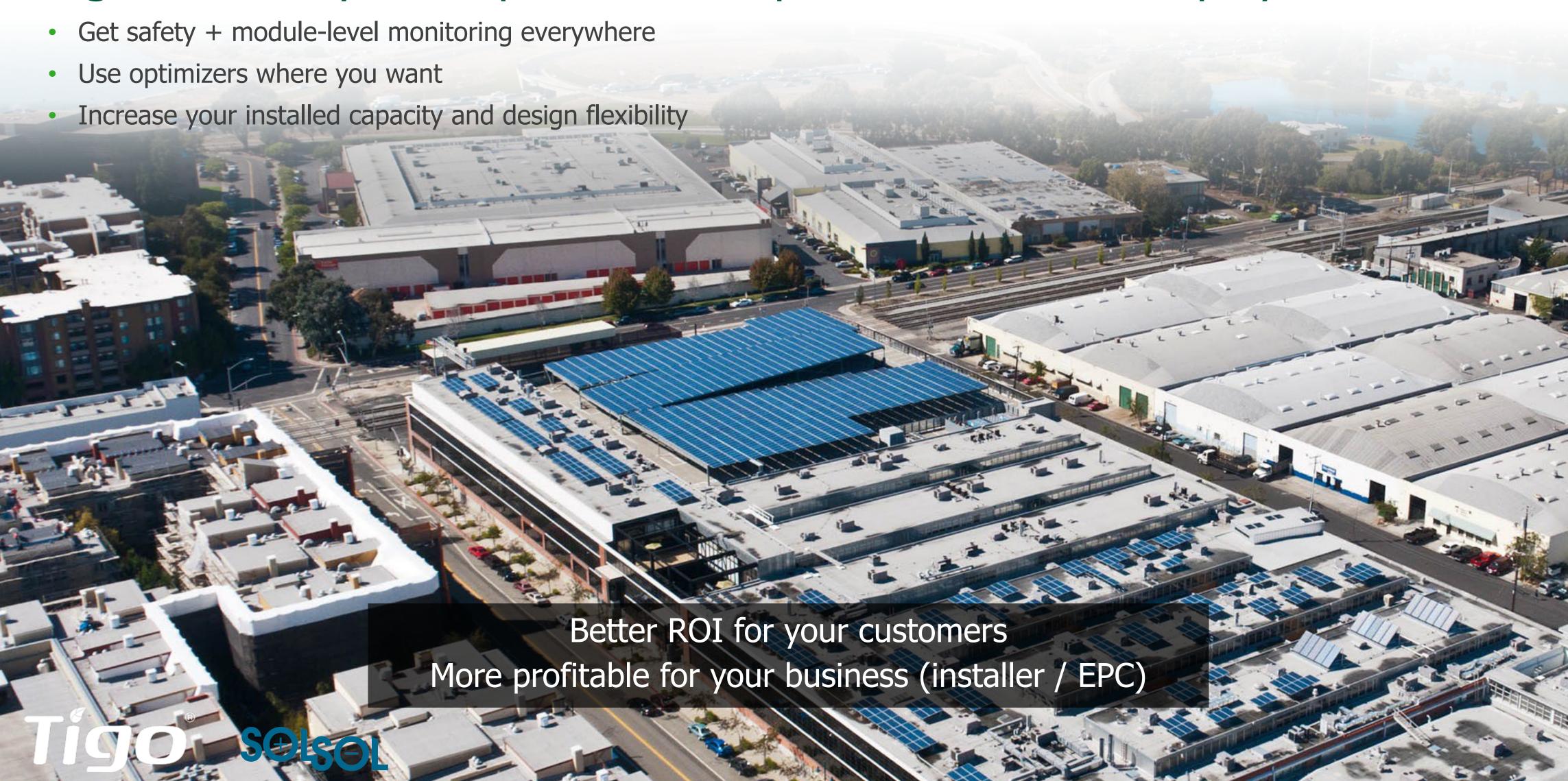
- Full TS4-A-S (safety) deployment | 10 MW Israel
- Module-level monitoring to maximize performance; remotely diagnose issues
- Rapid shutdown for safety of maintenance crews





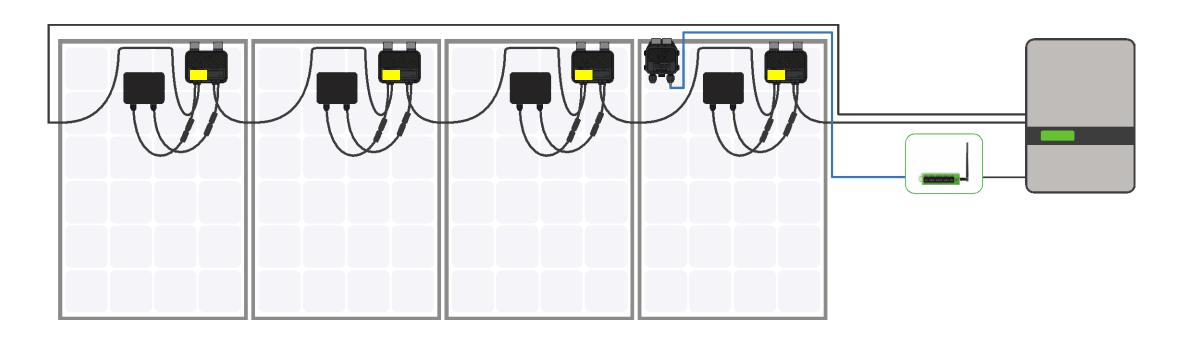


Tigo is the only MLPE provider that provides selective deployment



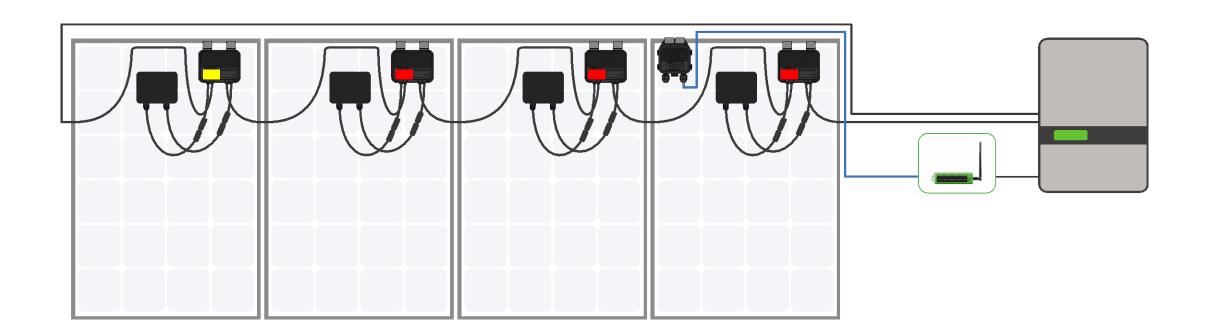
Terminology





Full deployment

TS4-A-O (optimizers) on every module with monitoring via the CCA & TAP



Selective deployment

A combination of O, or S on every module, with monitoring enabled via the CCA & TAP

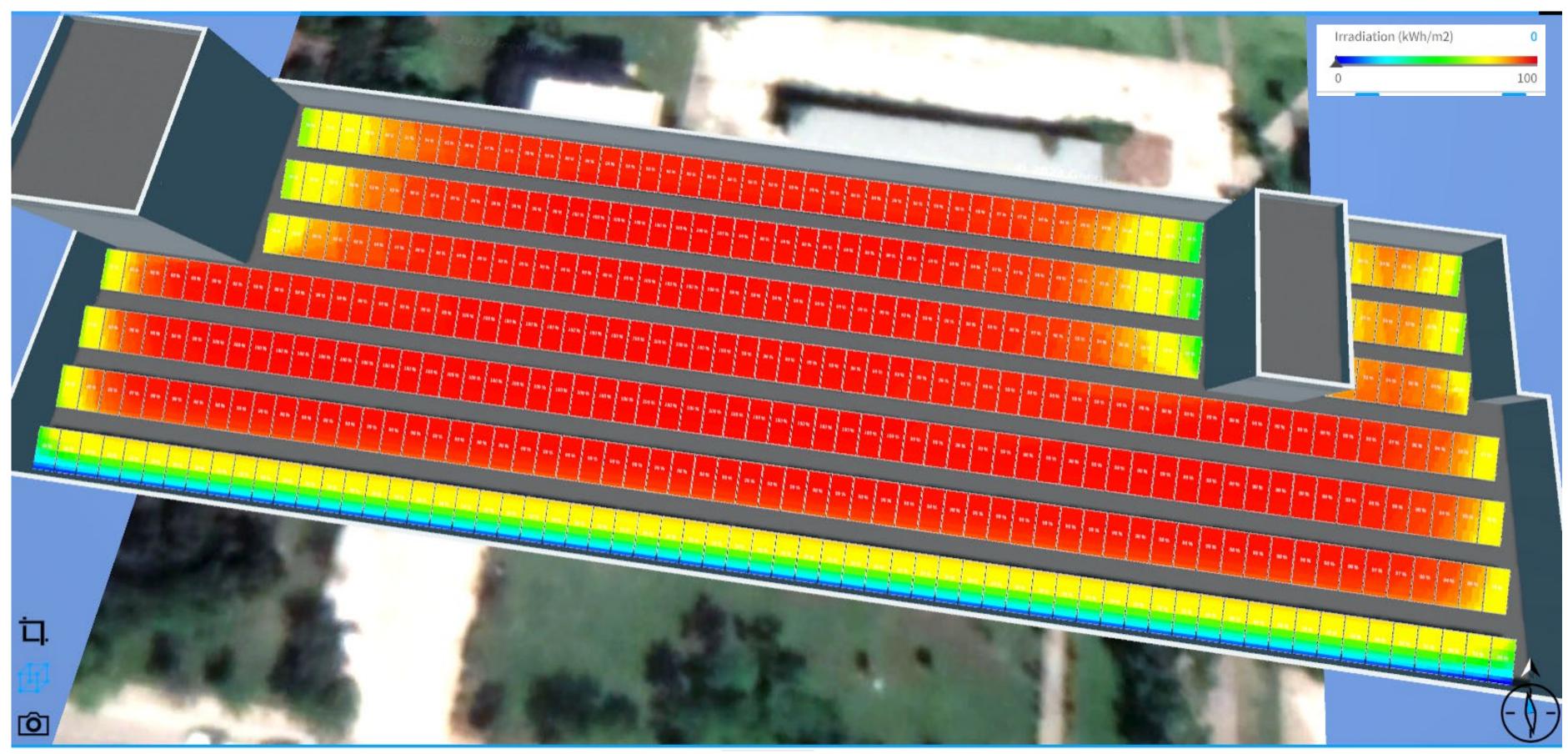




Example commercial rooftop

AAAA Elevibility

- 143kW with heavy shading around the perimeter
- Analyzed using InSun



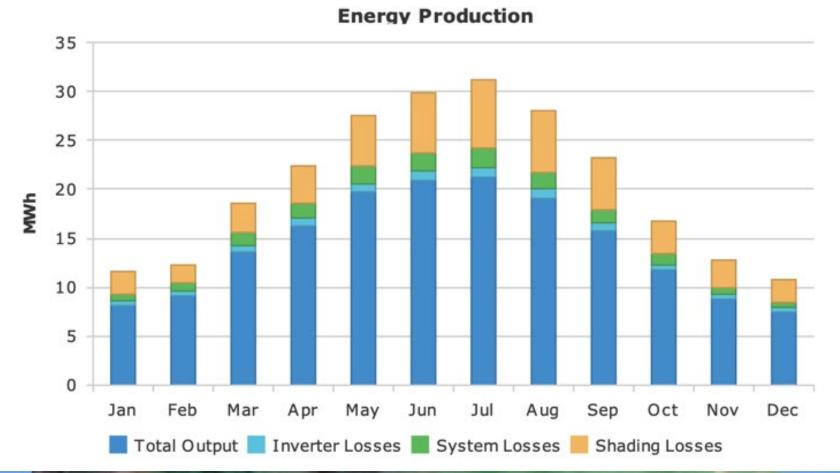


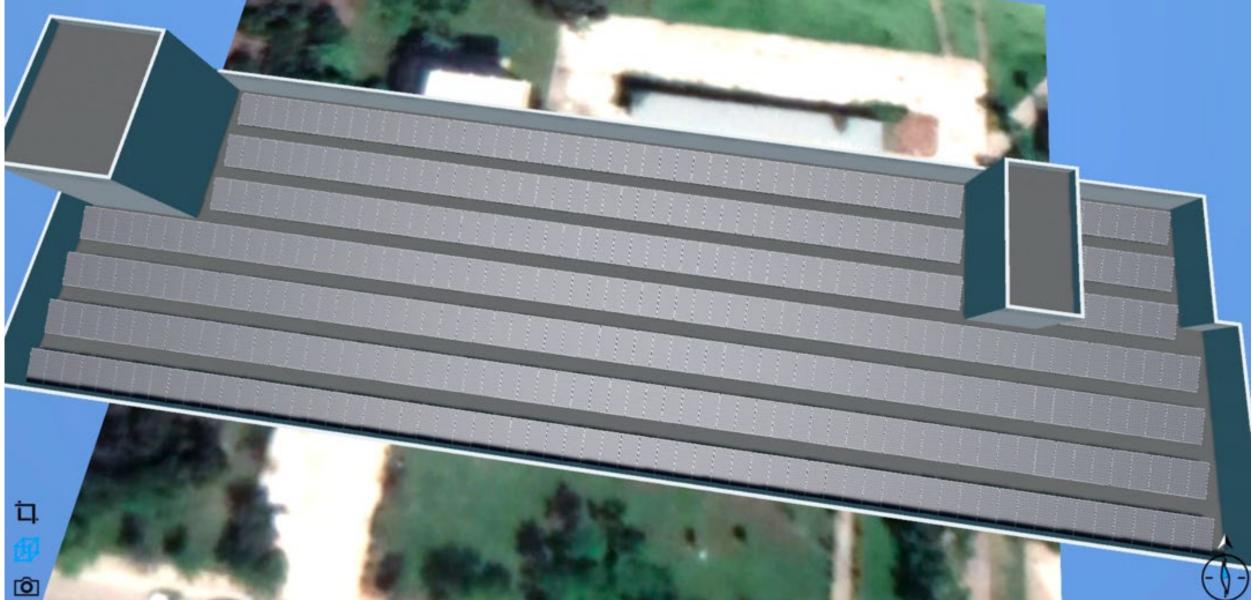


Example – no optimizers

- Installed power: 143 kW
- Annual Energy Production: 171,972 kWh







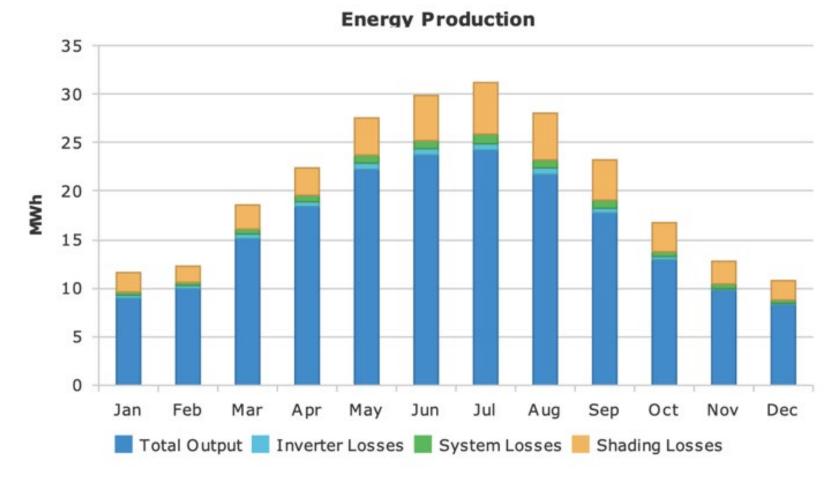


CONFIDENTIAL

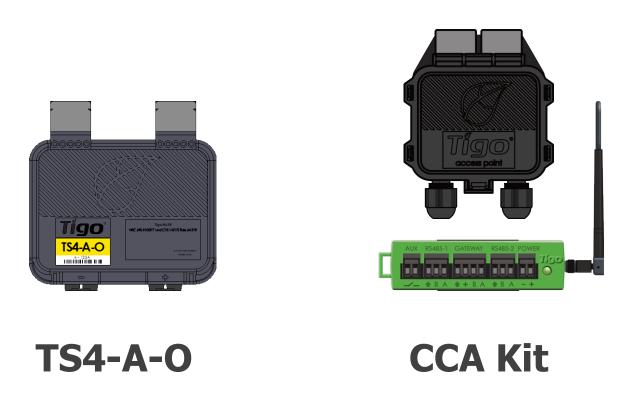
Example - full deployment

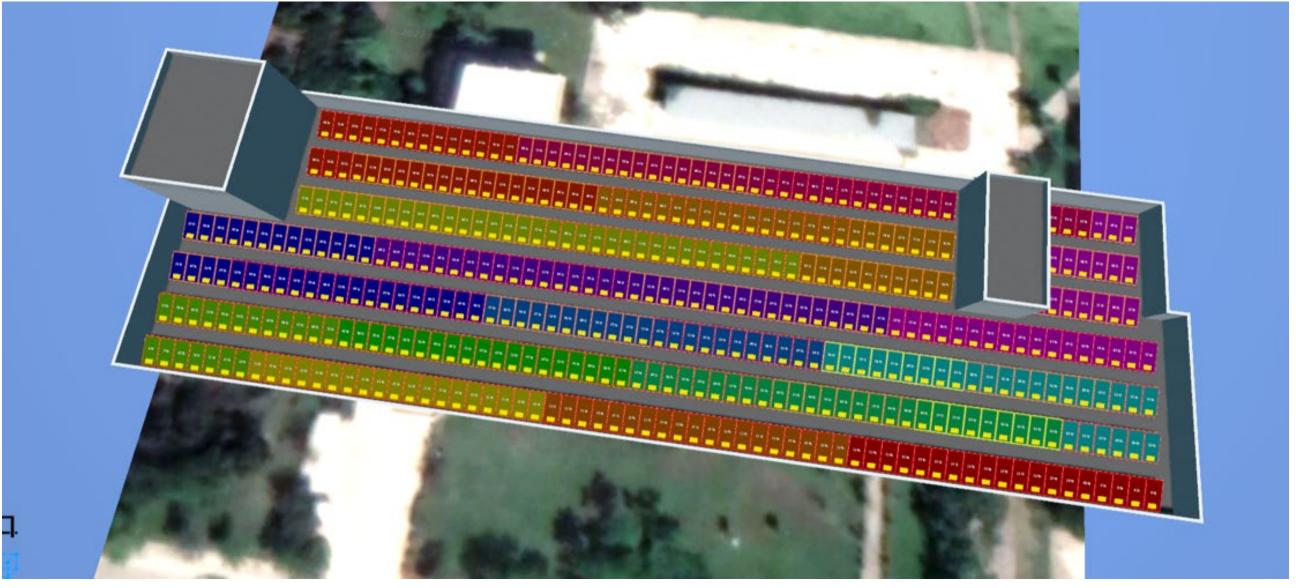
- Installed power: 143 kW
- Annual Energy Production: 193,245 kWh

Increase vs. no optimizers: 12%







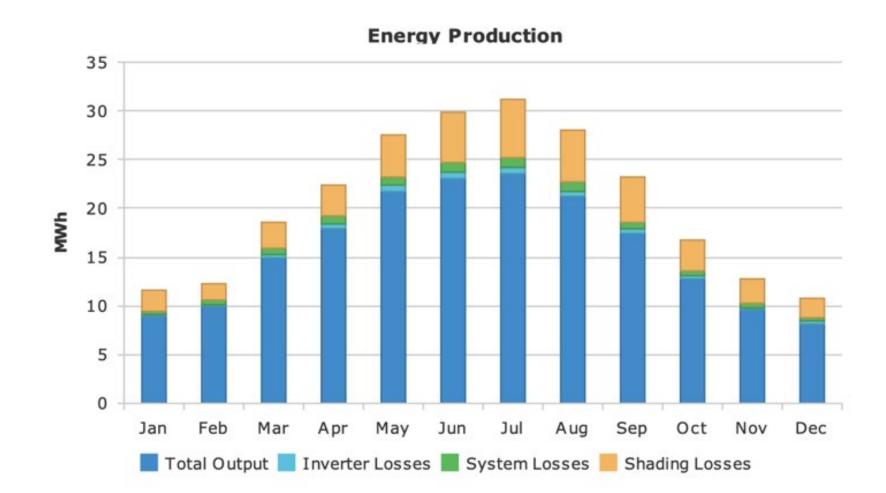




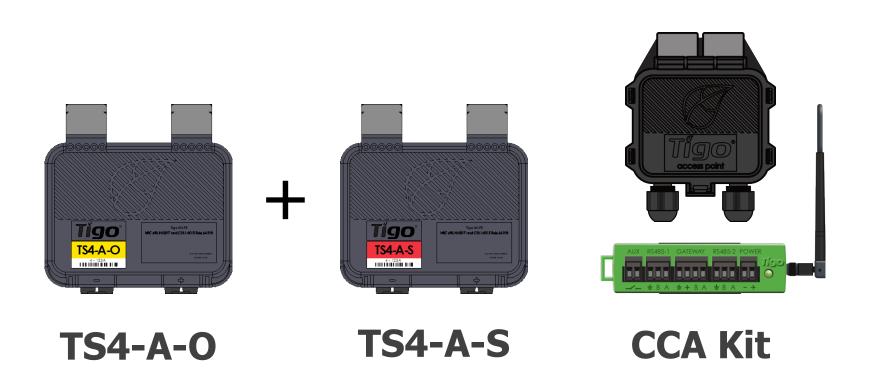
Example - selective deployment

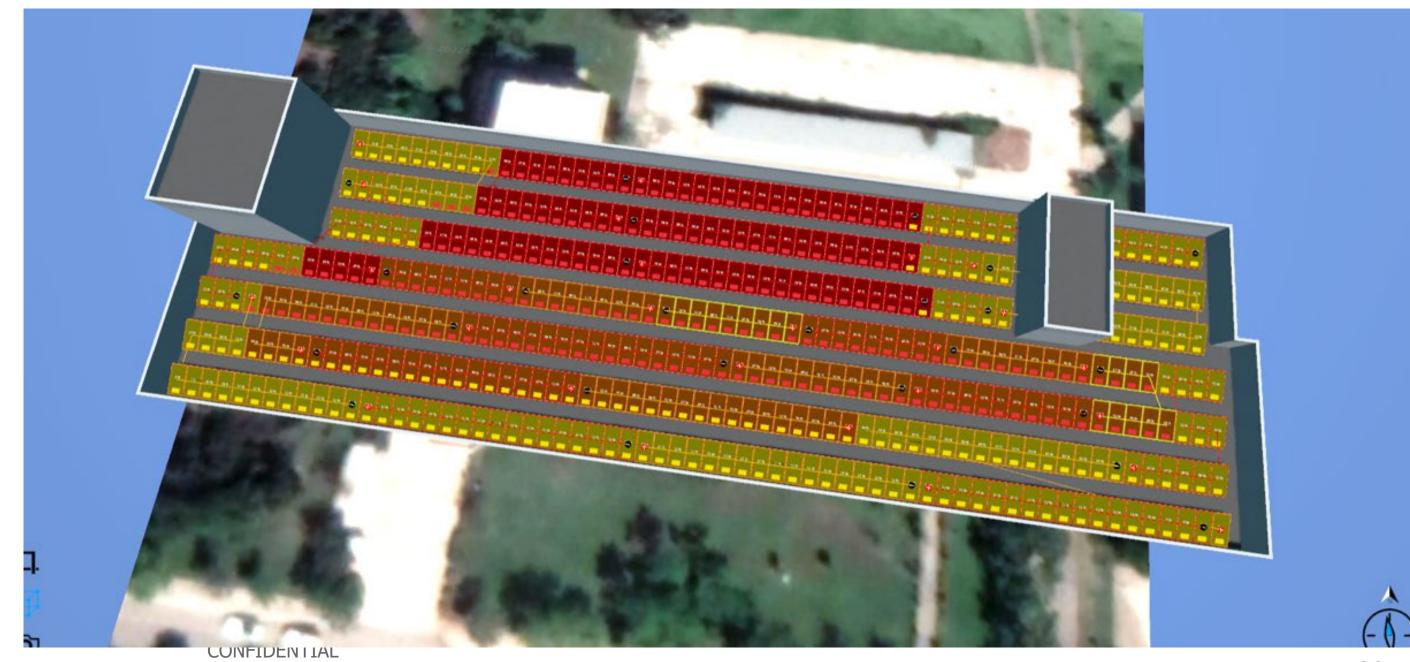
- Installed power: 143 kW
- Annual Energy Production: 189,249 kWh

Increase vs. no optimizers: 10%





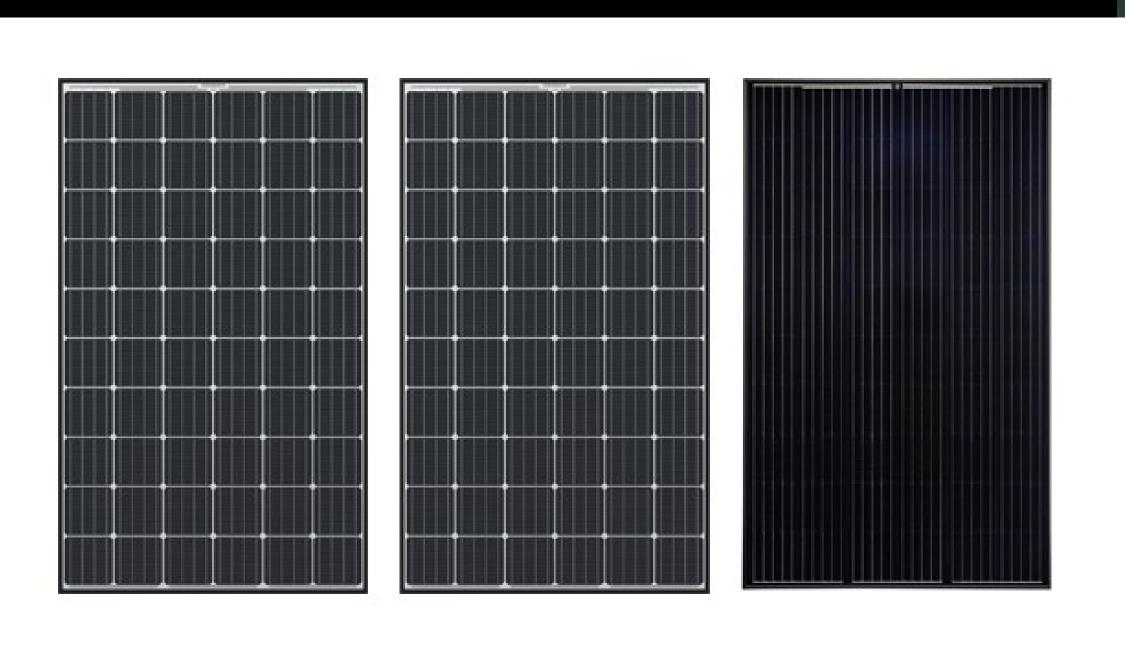






Additional scenarios and considerations





Retrofit to improve existing sites - Tigo MLPE work with hundreds of inverters

Swap out TS4-A-S for TS4-A-O if conditions change (trees grow, mismatch appears, etc.)

If replacement modules are different specs... prime candidate for an optimizer

Turn 'dumb' modules into 'intelligent' modules – get module level visibility and add sites to fleet management







The Tigo Energy Intelligence software "stack"





Fleet management

View and filter all sites in one spot

System monitoring

Installation-level operations

Module visibility

Module-level performance data

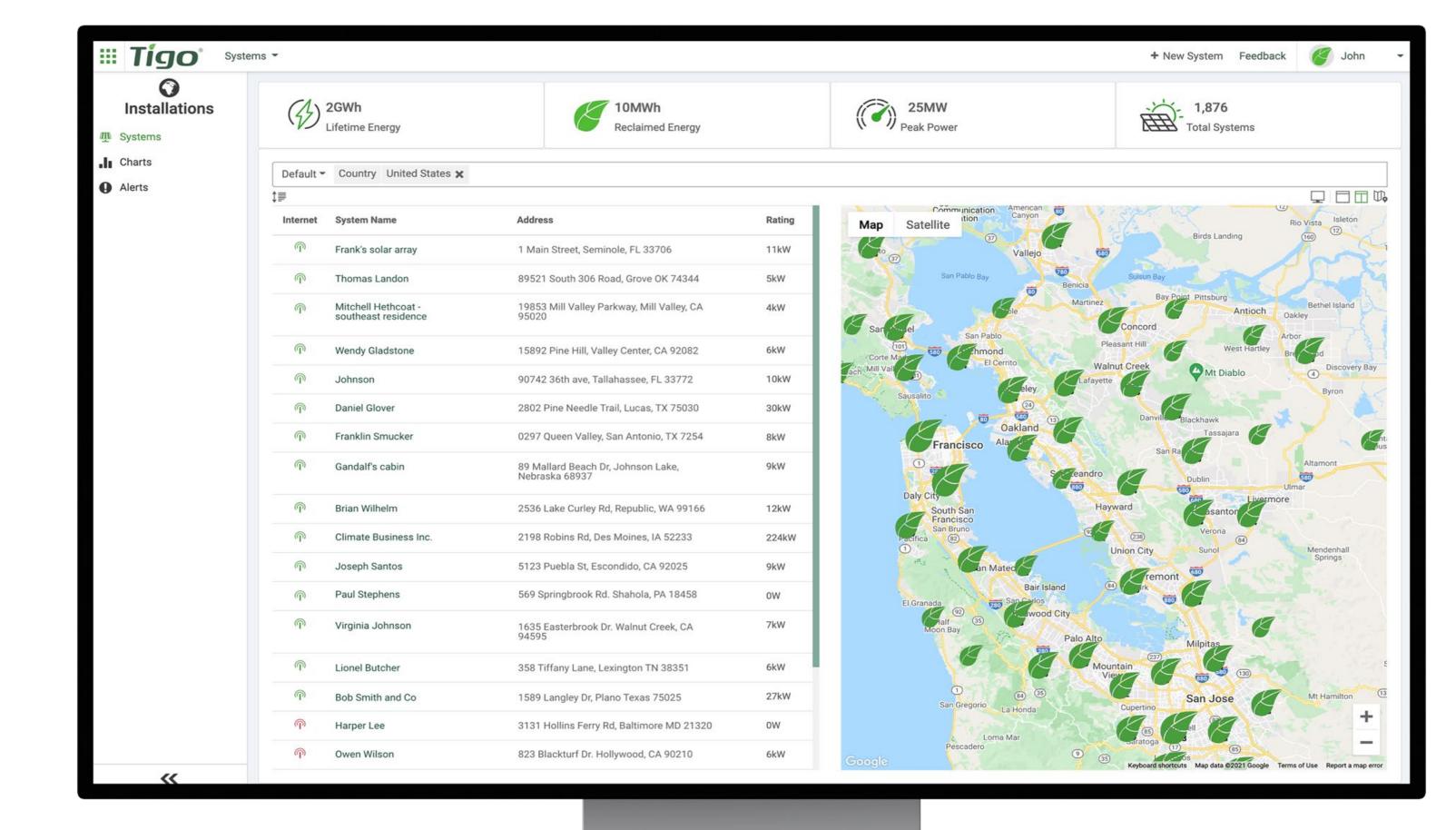
Maximize site performance | Minimize truck rolls

https://support.tigoenergy.com/hc/en-us/articles/202342726-Monitoring-Features-Pricing



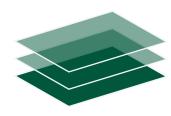


- All sites in 1 location
- Fleet-level metrics
- View list or map
- Filter by specific characteristics



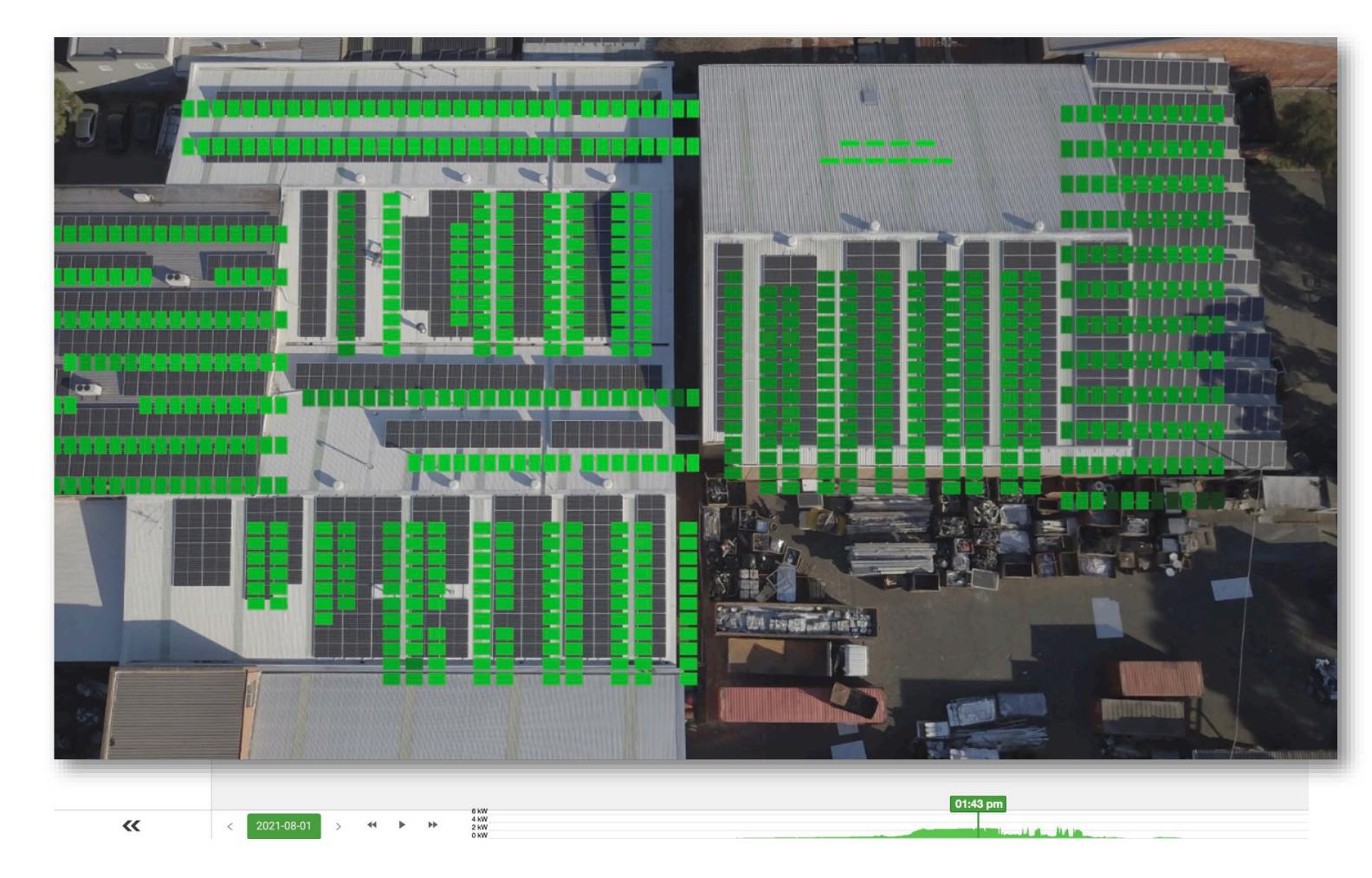






Module – digitized layout

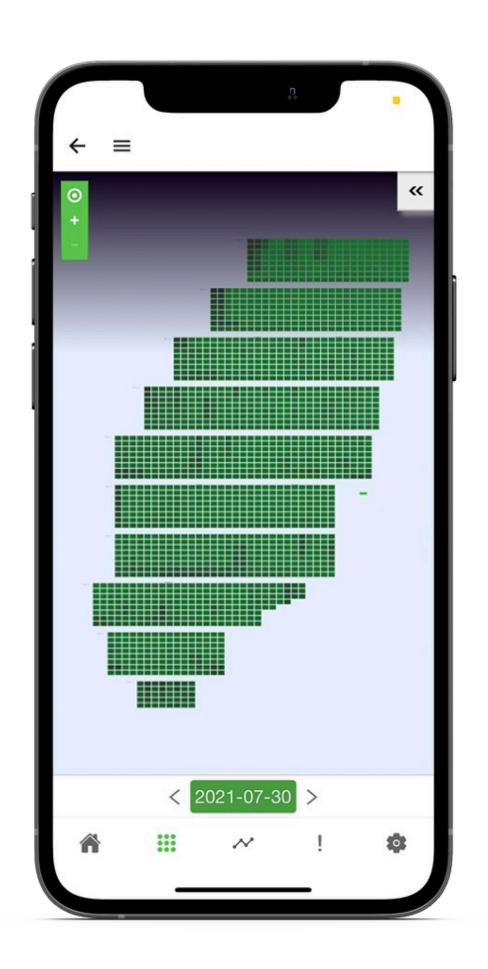
- Overlay your system so that it matches the aerial view of the site
- Know exactly where the issues are

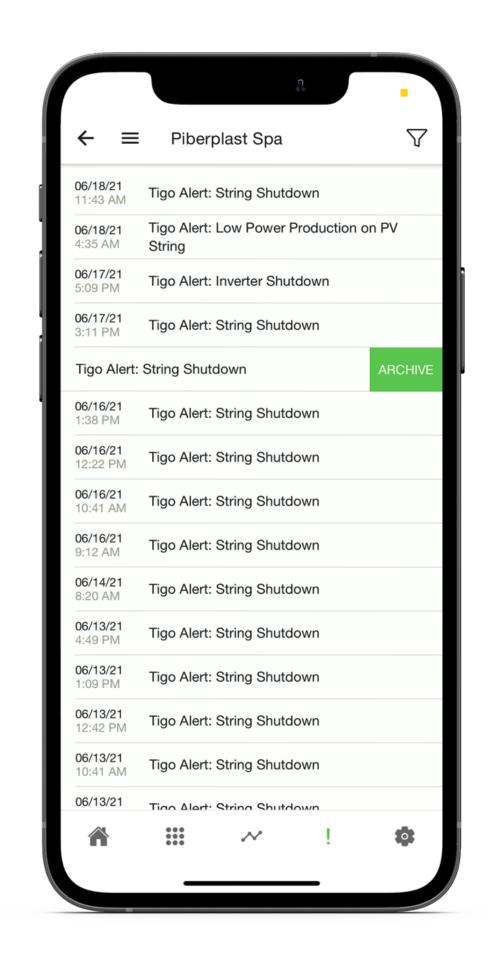




Get it all in the palm of your hand











DEMO





Tigo monitoring lets you remotely detect and diagnose issues

Maximize site uptime

• Get real-time alerts when a performance or safety issue arises so the site can quickly be returned to normal. More uptime = more energy.

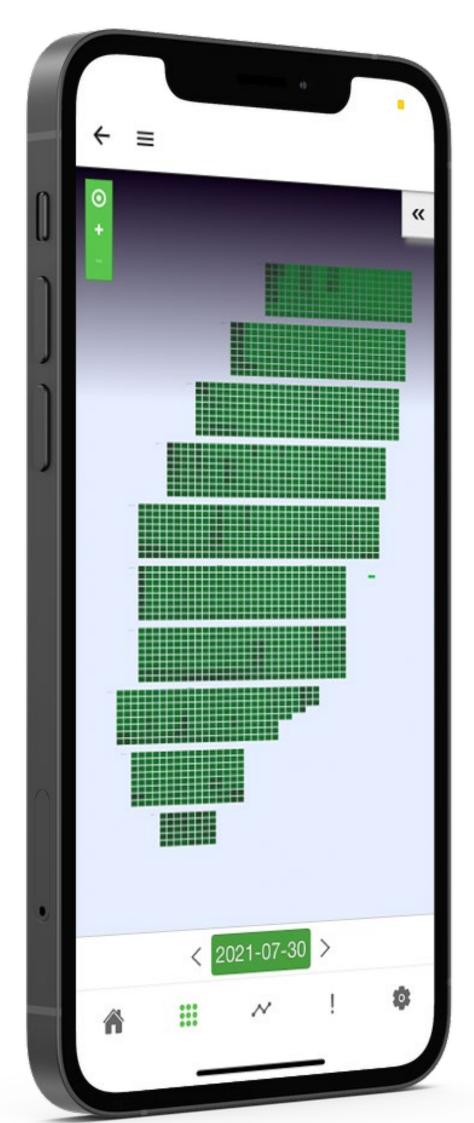
Minimize O&M costs

• Detect system level, string level, and module level issues to pinpoint and diagnose issues remotely. Save money with fewer truck rolls.

Enhance the customer experience

• Get visibility to all sites from one spot with fleet, system, and module level performance data. Get more referrals with happier customers.





Thank You! DIKY!

