

One of the largest solar tracker manufacturers in the world, PV Hardware was scaling its global footprint. It needed a better way to provision, deploy, and orchestrate the edge nodes running its critical applications.

PV Hardware, headquartered in Spain, is the leading provider of innovative trackers, structures, and SCADA solutions for utility-scale PV solar plants worldwide. PV Hardware customers rely on its systems to optimize energy production. With ZEDEDA, PV Hardware has simplified the provisioning and deployment of its edge nodes and established a foundation to offer additional value-add services to its customers in the future.

CHALLENGES

- Remote, hard to access sites with expected lifetimes of 25-40 years, limited Internet access, and no field IT staff
- Delays of up to 6 months to 1 year between device provisioning and deployment
- Tracker downtime may have an impact on energy production
- Limited ability to scale current manual, time-consuming device deployment and management

SOLUTION

- Simplified provisioning and commissioning of devices in the factory requires no IT skills in the field
- Remote updates of applications and base operating system, with automatic testing and fail-back in case of failure
- Deployed devices update securely and on-demand once connected
- Remote orchestration provides the foundation for future value-add services



“With ZEDEDA we’ve been able to reduce the overall device provisioning and field installation time by up to 75%.”

Ivan Arkipoff, CTO, PV Hardware



OUTCOMES & BENEFITS

EFFICIENT

Factory-provisioning devices reduced overall time to field production by 75%.

NO RISK

Efficient testing of updates with automatic fail-back in case of error.

AUTOMATED

No specialized IT skills required to deploy in the field.

SCALABLE

Bulk update applications, OS, and hardware for each site lifetime.

NO TRUCK ROLLS

Entirely remote management enables problem solving without costly technician trips to the field.

FUTURE-PROOFED

Flexible foundation enables additional value-add services to be offered to customers in the future.



“With ZEDEDA we have an automatic process that’s faster, less prone to error, and future-proofed. We can manage nodes remotely, easily update them, and have the peace of mind of knowing that if software failure happens, we can deal with it.”

Ivan Arkipoff, CTO, PV Hardware