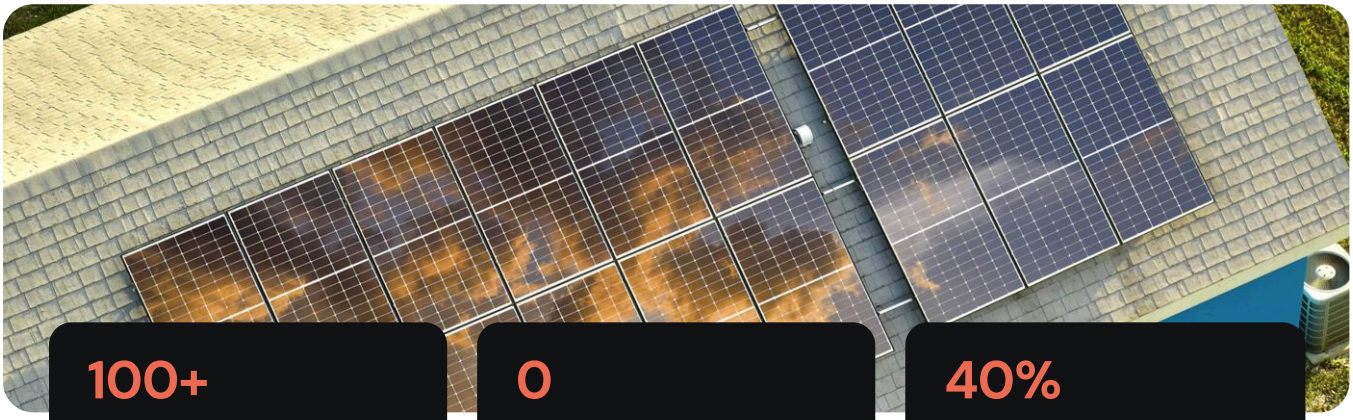
Solar energy · Global

A solar EPC saved 100+ hours per site by digitizing commissioning and handover

A solar engineering, procurement and construction company replaced paper site logs with mobile checklists, tracked materials on site, and handed projects over with nothing missing.



100+
hours saved per site on documentation and rework

0
missing documents at client handover

40%
fewer supervisor site visits

AT A GLANCE

INDUSTRY
Solar EPC

PROJECTS
Rooftop and ground-mounted

SEGMENTS
Industrial, commercial, utility

ROLLED OUT
Projects in several states

FEATURES USED
Work · Maintenance · Stores · Assets

01 The client

The client is a solar EPC (engineering, procurement and construction) company building large rooftop and ground-mounted plants for industrial, commercial and utility customers.

Every project runs through installation, wiring, inverter setup, testing, quality checks and commissioning before the plant is handed over. Subcontractors, the EPC's own engineers and field teams all work on the same site, and the client accepts the plant only when every record is complete.

02 The challenge

Installation records decide whether a client accepts a plant, and they were kept on paper by many hands. When a record was missing, someone had to go back to site to find out what had been done.

- Commissioning logs were filled in differently by each team.
- Cable tests, inverter settings, safety checks and module inspections went missing.
- Spares, consumables and materials used on site were tracked in pieces.
- Nobody could say for sure who installed what, and when.
- Missing checklists and test results meant repeat site visits and delayed handovers.

03 What they set up in Asset Infinity

The EPC ran its site work in Asset Infinity, with technicians filling in checklists in the mobile app and supervisors approving from anywhere.

Work

Tasks for each team

Work is assigned to a named contractor or in-house team, and project managers see what is done, pending and late, day by day.

Maintenance

Commissioning checklists and test records

Installation, wiring, inverter and safety checks are mobile checklists with required fields, photos and signatures; IR, open-circuit voltage, torque and earthing results are time-stamped and approved remotely.

Stores

Materials on site

Cables, junction boxes, inverters, mounting hardware, fuses and connectors are issued against the job, with low-stock alerts before peak work.

Assets

A record for every installed asset

Each inverter and string is in the register with its test results, photos and documents, and these come out as reports for the handover pack.

04 How it works day to day

A typical day on site now runs through the mobile app, with the office watching the same records as they come in.

PROJECT MANAGER

Plans the day's work

Each task (string wiring, an inverter, a section of modules) is a work order assigned to a named contractor or in-house team, with its checklist attached.

FIELD TECHNICIAN

Fills in the checklist on the phone

Required fields cannot be skipped. The technician enters readings, takes photos and signs off each step where the work was done.

FIELD TECHNICIAN

Records the tests

Insulation resistance, open-circuit voltage, torque and earthing results go in against the asset they belong to, time-stamped as they are entered.

SYSTEM

Turns a failed check into work

A check that fails can raise a corrective work order for the team responsible, so a fault found in testing is fixed before handover.

STOREKEEPER

Issues materials against the job

Cables, junction boxes, connectors and fuses are issued to the work order, so the record shows what was used and by which team. Reorder advice flags items running low.

SUPERVISOR

Reviews and approves remotely

Completed checklists and test results arrive for approval from anywhere, so a site visit is needed only when something looks wrong.

PROJECT MANAGER

Builds the handover pack

Checklists, test results, photos and documents for the site are pulled into reports for the client's acceptance.

05 Before and after

	BEFORE	WITH ASSET INFINITY
Commissioning logs	Paper, filled in differently by each team	Mobile checklists with required fields and signatures
Test results	Cable and inverter tests often missing	Time-stamped results against each asset
Materials	Tracked in pieces across sites	Issued against each job, with low-stock alerts
Accountability	Unclear who installed what, and when	Every task tied to a team, a date and a sign-off
Approvals	Supervisor on site to check work	Reviewed and approved remotely
Handover	Chasing paperwork, repeat site visits	Complete records, zero missing documents

06 How it rolled out

1

Standards kept. Existing technical testing standards stayed the same; only the paperwork moved to the app.

2

Field teams trained. Engineers and contractors were trained on the mobile checklists.

3

Rolled out by project type. Rooftop and utility-scale projects in several states moved to the new way of working.

07 The results

- Faster commissioning through standard checklists and real-time approvals
- Less material wastage and clear accountability for what was used
- A digital archive for audits, maintenance and warranty claims

08 Why it worked

Standards did not change

The EPC kept its existing technical tests. Only the paper moved to the app, so teams had nothing new to learn about the work itself.

Records made at the source

Readings and photos are entered where the work is done, by the person who did it, so there is nothing to copy up later.

One record per asset

Each inverter and string keeps its own history, which serves the handover, later audits and warranty claims alike.

09 Looking ahead

By moving commissioning logs, test results, materials and handover records into one system, the EPC closes projects faster and hands clients a complete record of what was built.

The same asset records carry on once a plant is running: preventive maintenance plans, inspections and warranty claims all start from the history built during construction.

See it on your own assets

A 30-minute demo, set up for a solar EPC or O&M team.

The client's name is withheld for confidentiality. Results are as reported by the client.

Book a demo

Start a 14-day free trial