OWNER DECISION REPORT

O&M scope template | Repowering

Template structured after IEC 62446-2 and the SolarPower Europe O&M Best Practices Guidelines. Frequencies and response times are TEMPLATE_DEFAULT values for the parties to set; scope quantities come from the asset record, digital twin and this package's BoM. TO_BE_CONFIRMED marks a quantity PV8 does not hold.

Plant facts

Fact	Value
plant state	repowered concept: module and inverter quantities from the new supply scope where the BoM holds it, other quantities as built
asset	to be confirmed
country	to be confirmed
dc kwp	to be confirmed
ac kw	to be confirmed
modules	to be confirmed
strings	to be confirmed
inverters	to be confirmed
site area ha	to be confirmed
mounting	to be confirmed
engine	repowering

Preventive and contractual scope

ID	Heading	Task	Frequency	Scope quantity	Reference	Status
OM-01	Module cleaning	Clean module front glass; trigger extra cleaning from soiling monitoring	1-2 per year, adjusted to measured soiling	10,000 pcs (RECORDED)	SolarPower Europe O&M BPG: module cleaning	TEMPLATE_DEFAULT
OM-02	Vegetation	Vegetation management under and between rows, fences and access tracks	2-4 per growing season	TO_BE_CONFIRMED	SolarPower Europe O&M BPG: vegetation management	TEMPLATE_DEFAULT
OM-03	Thermography	Infrared inspection of modules, strings, combiners and connections (drone or handheld)	Annual, at irradiance above 600 W/m²	10,000 pcs (RECORDED)	IEC TS 62446-3 (outdoor infrared thermography)	TEMPLATE_DEFAULT

ID	Heading	Task	Frequency	Scope quantity	Reference	Status
OM-04	IV curves	IV-curve tracing of a sample of strings and of every string flagged by monitoring or IR	Annual sample (e.g. 5-10 % of strings) + event-driven	TO_BE_CONFIRMED	IEC 62446-1 (string tests), IEC 61829 (on-site IV measurement)	TEMPLATE_DEFAULT
OM-05	Inverter service	Preventive inverter maintenance: filters, fans, torque checks, firmware, error log	Annual, or per the OEM service schedule	TO_BE_CONFIRMED	OEM service manual; IEC 62446-2 preventive maintenance	TEMPLATE_DEFAULT
OM-06	MV / transformer	Transformer and MV switchgear inspection; oil sampling and DGA for oil-filled units; protection relay test	Annual inspection; relay test per DSO/OEM interval	2 pcs (CONCEPT)	IEC 60076 / IEC 60599 (DGA interpretation), IEC 62271 OEM schedules, DSO connection rules	TEMPLATE_DEFAULT
OM-07	Security	Fence, gates, CCTV and intrusion detection check; site walk-down	Monthly walk-down; alarm response per contract	TO_BE_CONFIRMED	SolarPower Europe O&M BPG: security	TEMPLATE_DEFAULT
OM-08	Monitoring	Continuous monitoring of plant, inverter and string data; monthly report with performance ratio, availability and losses; irradiance-sensor cleaning and calibration	Continuous; monthly report; sensor calibration per the IEC 61724-1 class	TO_BE_CONFIRMED	IEC 61724-1 (performance monitoring)	TEMPLATE_DEFAULT
OM-09	Visual and mechanical inspection	Walk-down of modules, structures, fixings, cable routes, connectors, combiners and earthing/bonding	Annual	10,000 pcs (RECORDED)	IEC 62446-2 visual inspection; IEC 62446-1	TEMPLATE_DEFAULT
OM-10	Spare parts	Spare-parts stock (modules, inverter boards/fans/fuses, connectors, MV consumables) with reorder levels	Reviewed annually	TO_BE_CONFIRMED	SolarPower Europe O&M BPG: spare parts management	TEMPLATE_DEFAULT
OM-11	Availability guarantee	Contractual availability (time- or energy-based) with exclusions and bonus/malus	Measured monthly, settled annually	TO_BE_CONFIRMED	IEC TS 63019 (availability information for PV)	TO_BE_CONFIRMED

ID	Heading	Task	Frequency	Scope quantity	Reference	Status
OM-12	Response times	Fault response: critical (plant or PCC down) remote response within 4 h, on site within 24 h; major (inverter down) on site within 48 h; minor at the next scheduled visit	Per event	TO_BE_CONFIRMED	SolarPower Europe O&M BPG: corrective maintenance and response times	TEMPLATE_DEFAULT

Notes

- OM-01 Module cleaning: water quality and method per module manufacturer; no high-pressure jet
- OM-02 Vegetation: no herbicide near cables unless permitted; shading of the lowest module row is the trigger
- OM-03 Thermography: classify anomalies per IEC TS 62446-3; feed warranty claims
- OM-04 IV curves: include insulation-resistance and polarity checks on opened strings
- OM-05 Inverter service: inverter model to be confirmed
- OM-06 MV / transformer: switching only by authorised personnel; DSO notification where required
- OM-08 Monitoring: data availability target to be set in the contract
- OM-09 Visual and mechanical inspection: record findings against the as-built
- OM-10 Spare parts: ownership and storage location per contract
- OM-11 Availability guarantee: no availability assumption in the saved run; the guaranteed value is a contract term
- OM-12 Response times: template tiers; set the binding values in the O&M contract