Direct wire | CONCEPT WITH VERIFICATION FLAGS

CONCEPT DESIGN - NOT FOR CONSTRUCTION. Functional single-line blocks; no protection coordination, fault-duty, earthing, cable sizing or utility approval is implied.

asset_id: public-sample-direct_wire

asset_name: PV8 demonstration solar plant, HR · 4 MWp · synthetic inputs

output_id: public-sample-direct_wire

source_sha256: ba6be07719e579addaf59c09cd5fd487cc3066ff2d5fbe7d7a5af0acadcb1936

saved_at: synthetic-public-sample

design_context_sha256: None

Inputs and evidence states

topology: private_line | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

pcc_reference: Synthetic PCC-01 · replace with verified as-built drawing reference | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

grid_voltage_kv: 22.0 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

equipment_voltage_kv: 0.4 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

power_kw: 1000.0 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

power_factor: 0.95 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

group_count: 2 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

Information and verification required

as_built [VERIFY]: Reconcile the PCC, retained equipment and proposed topology with a verified as-built SLD

fault_duty [VERIFY]: Obtain DSO fault levels and check switchgear ratings

protection [VERIFY]: Engineer to select protection devices, settings, selectivity and anti-islanding

earthing [VERIFY]: Confirm earthing system, neutral arrangement and bonding design

cables [VERIFY]: Confirm routes, cable sizing, thermal conditions and voltage drop

grid_rights [VERIFY]: Confirm import/export rights, metering boundaries and utility approvals

private_line [VERIFY]: Confirm ownership boundary, legal regime, metering, offtaker intake and islanding prohibition/permission

equipment_selection [VERIFY]: Select current regional transformer, switchgear, protection, cable and auxiliary products against equipment-requirements.csv; a frozen catalogue reference is not a purchase approval.