Data center | 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-mdc

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

output_id: public-sample-mdc

source_sha256: d36debd5cc120afb9370155806451640e0c9bbadf32c1bf236d20df8e7a8ec7b

saved_at: synthetic-public-sample

design_context_sha256: None

Inputs and evidence states

power_kw: 500.0 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

pue: 1.4 | ASSUMED | Public sample concept assumption; replace with owner evidence and engineer verification. The handoff does not rerun the frozen economics.

topology: single_supply | 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_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

reliability [VERIFY]: Verify UPS autonomy, independent supplies, transfer logic and facility redundancy; 2N is a concept, not certification

group_allocation [VERIFY]: Equal allocation across entered groups is a concept assumption. Replace with OEM equipment and feeder allocation, including standby duties and auxiliaries

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.