

INTEGRATED PACKAGES

Substation equipment package checklist

Bring primary plant, reactive power, controls and supporting systems into one scope.

WHY THIS MATTERS

A coordinated equipment package needs clear interfaces between the main plant, controls and auxiliary systems. Define the whole equipment schedule and allocate site responsibilities before seeking comparable offers.

INPUTS TO CONFIRM

- ☐ Start with the single-line diagram, equipment schedule, network criteria, site layout and required energisation date.
- ☐ Primary plant: transformers; HV/MV switchgear; breakers, disconnectors and earthing switches; CTs/VTs; surge arresters.
- ☐ Reactive power: confirm whether capacitor banks, reactors or dynamic compensation are required by project studies.
- ☐ Secondary systems: protection, metering, control panels, SCADA and communications, including settings and integration responsibilities.
- ☐ Supporting systems: auxiliary transformers, AC/DC supplies, batteries and chargers, switchrooms, cables, terminations, busbars and earthing materials.
- ☐ Allocate equipment interfaces, civil works, installation, commissioning and network approvals to named parties.
- ☐ Agree manufacturer evidence, drawing approvals, testing, delivery sequence, spares and support for each package.

TWO COMMON OMISSIONS**Auxiliaries outside every offer**

Check that DC supplies, communications and connecting equipment each have an assigned supplier.

Unclear site responsibilities

Distinguish equipment supply from civil works, installation, commissioning and network approval.

Discuss your equipment requirements

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Use with your project specification and the required technical approvals.

Further reading: Transgrid - Substation Primary Design Standard · Transgrid - Secondary Systems Design Standard