

HV DISTRIBUTION & SWITCHROOM DESIGN

Welcon Technologies can design new High Voltage substation switchrooms and switchyards or upgrade your existing facilities.

HV SYSTEM DESIGN

- 33/22/11/6.6/3.3kV switchgear.
- Switchboards, RMUs, padmounts and pole-top.
- Protection and metering diagrams.
- SLDs and schematic diagrams.
- CTs and VTs sizing and selection.
- Remote control & SCADA interfacing.
- G.A.'s and equipment layouts.



SPECIFICATIONS

- Switchgear with GIS/Vacuum/Air CBs.
- HV VSDs and soft starters.
- Power factor correction.
- Active and passive harmonic filters.
- Transformers.
- Battery banks and chargers.
- HV & LV Cabling.



SUBSTATION BUILDINGS

- New substation designs.
- Demountable and refurbished switchrooms.
- Building LV and auxiliary services.
- Fire detection systems.
- Heat loadings and air conditioning.

EARTH GRIDS

- Soil resistivity testing.
- Earth grid design.
- Earth grid computer modelling & analysis
- Touch and step potential calculations.
- Earth grid construction drawings.

OTHER SERVICES

- Power system analysis, including fault levels, protection coordination and arc flash.
- Cable calculations and schedules.
- Cable Tray design (GAs and 3D models).
- Retrofitting old switchgear with modern CBs.
- Equipment procurement and FATs.

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