

GLOSSARY OF TECHNICAL TERMS

This glossary of technical terms contains terms used in this prospectus in connection with our Group. As such, these terms may not correspond to standard industry meaning or usage of these terms.

“A”	ampere, a basic unit used in the standard measure of the flow of electrical current
“cable plug”	a kind of cable accessories which terminates power cable in such a way that it enables the power cable to be connected to the cable bushing of C-GIS, so that the whole connection is insulated from live potential. "Terminate" means to change the physical shape of the cable end so that it can be plugged onto a bushing
“C-GIS”	the acronym for cubicle type gas insulated switchgear
“circuit breaker”	a switching device capable of making, carrying and breaking normal current in an electric circuit as well as making, carrying and breaking specified over-current with specified time constraint including short-circuit current
“CNC”	the acronym for computer numerically controlled
“current transformer truck”	a withdrawable unit in a switchgear completed with current transformer. Its main function is to transform high potential, large current signals to low potential, small current signals so that the variation of high potential current can be reflected by isolated low potential current signals. These signals are then processed by measuring and protection equipment
“embedded pole”	an assembly consisting of vacuum interrupter, primary conductive parts and linkages embedded in epoxy resin by means of a special casting technique. In comparison with conventional vacuum interrupter assembly, the embedded pole provides stronger electrical insulation and protection against external influence and mechanical strength to support the pole itself
“embedded pole VCB”	a type of vacuum circuit breaker in which vacuum interrupters are embedded in epoxy resin (a type of insulation material)

GLOSSARY OF TECHNICAL TERMS

“epoxy resin insulator”	it supports conductive live parts of a switchgear or circuit breaker so that these parts will not be in contact with metal parts at earth potential
“GIS”	the acronym for gas insulated switchgear, a type of switchgear in which primary conductive parts are insulated by pressurised gas (SF ₆ being commonly used)
“GW”	gigawatt or one billion watts
“installed capacity”	the manufacturers’ rated power output of a generating unit or a power plant
“kA”	kiloampere or one thousand ampere
“kV”	kilovolt or one thousand volts
“kWh”	kilowatt hour, a unit of energy representing the work done by one kilowatt of electric power in one hour
“load break switch”	a switching device that, under normal conditions in an electric circuit, makes, conducts and breaks currents and that under specified abnormal conditions such as short circuit, conducts these currents for a specified period of time
“metering truck”	a withdrawable unit in a switchgear completed with a potential transformer, fuses connected to protect the potential transformer, and a current transformer. Its main function is to measure energy consumption by means of tapping voltage and current signals
“MW”	megawatt or one million watts
“potential transformer truck”	a withdrawable unit in a switchgear completed with a potential transformer and fuses connected to protect the potential transformer. Its main function is to transform high potential voltage signals to lower potential voltage signals so that the variations of high potential voltage can be reflected by isolated low potential signals. These low potential signals are then processed by measuring and protection equipment

GLOSSARY OF TECHNICAL TERMS

“ring main unit”	a type of switchgear which is mainly used in a secondary power distribution system. The unit usually consists of an incomer connected to a primary power distribution substation, a few load feeders and an outgoing feeder either connected to the incomer of another ring main unit or returned to the same primary power distribution substation
“SF ₆ ”	sulphur hexafluoride, a colourless, odourless, non-toxic and incombustible gas. It is an electronegative gas which has dielectric strength at atmospheric pressure of approximately three times higher than that of air. Moreover, it is chemically inert with arc-quenching effect of three to four times better than air under the same pressure. Therefore it is used as an insulating and arc-quenching medium in switching appliances
“surge arrester truck”	a withdrawable unit in a switchgear completed with surge arresters which is a kind of over-voltage protective device, protecting insulation of electrical equipment from damages caused by lightning over-voltages and switching over-voltages
“switch-fuse combination unit”	a unit in which a load break switch and a fuse are combined together in a specific way so that the unit can be used to make and break load current and break fault current
“switchgear”	an electrical equipment integrated with switching, control, measurement and protection devices. Its main function is to make and break electrical connection in power systems
“V”	volt, a basic unit used in the measurement of electric potential which is the energy level attained by a charge traveled across an electric field
“VCB”	the acronym for vacuum circuit breaker, a circuit breaker which contacts make and break inside a vacuum
“W”	watt, a basic unit used in the measurement of an active part of electric power