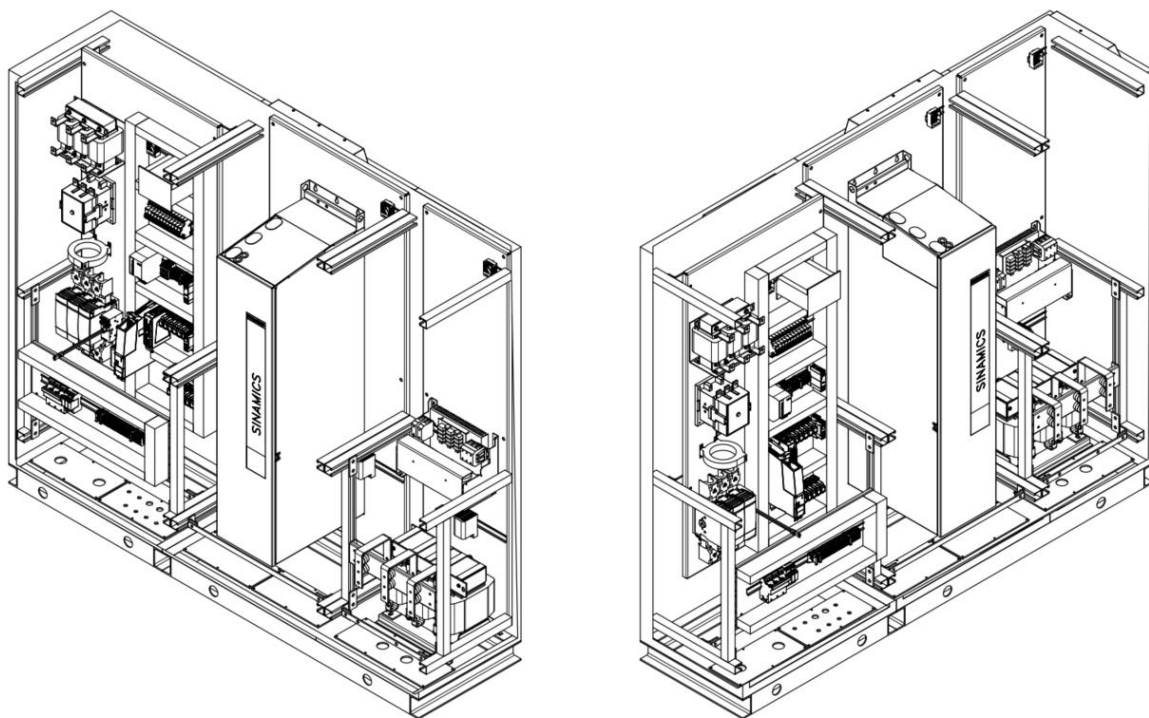


Case Study – DC to AC Variable Speed Drive Upgrade

CHB has provided services to upgrade numerous obsolete DC variable speed drives and motors to the latest, supported and economical AC drives and motors. The scope of work included a full electrical design, hardware supply and commissioning that guaranteed operational security of the customers production.

CHB utilised a high-speed data acquisition system to collect operational data such as armature and field currents, voltages and speeds to verify the loading of the existing setup and to determine the most appropriately sized AC equivalent. Steady state and dynamic operation were considered when determining the correct drive parameterisation.

Electrical designs and panel layouts were completed using the latest 3D design software to ensure the customer received the most efficient and functional electrical enclosure layout. This project involved designing a complete custom manufactured drive panel as well as retrofitting a VSD into an existing enclosure.



CHB's certified functional safety engineers verified the required safety operation of the replacement drives.

Factory testing was performed using CHB's purpose built variable speed drive testing facilities. Drives were fully tested prior to arrival on-site reducing site commissioning time.