

CASE STUDY

PLS-CADD MODELLING & ASSESSMENTS

PROJECT TYPE

PLS-CADD Modelling & Assessment

SERVICES

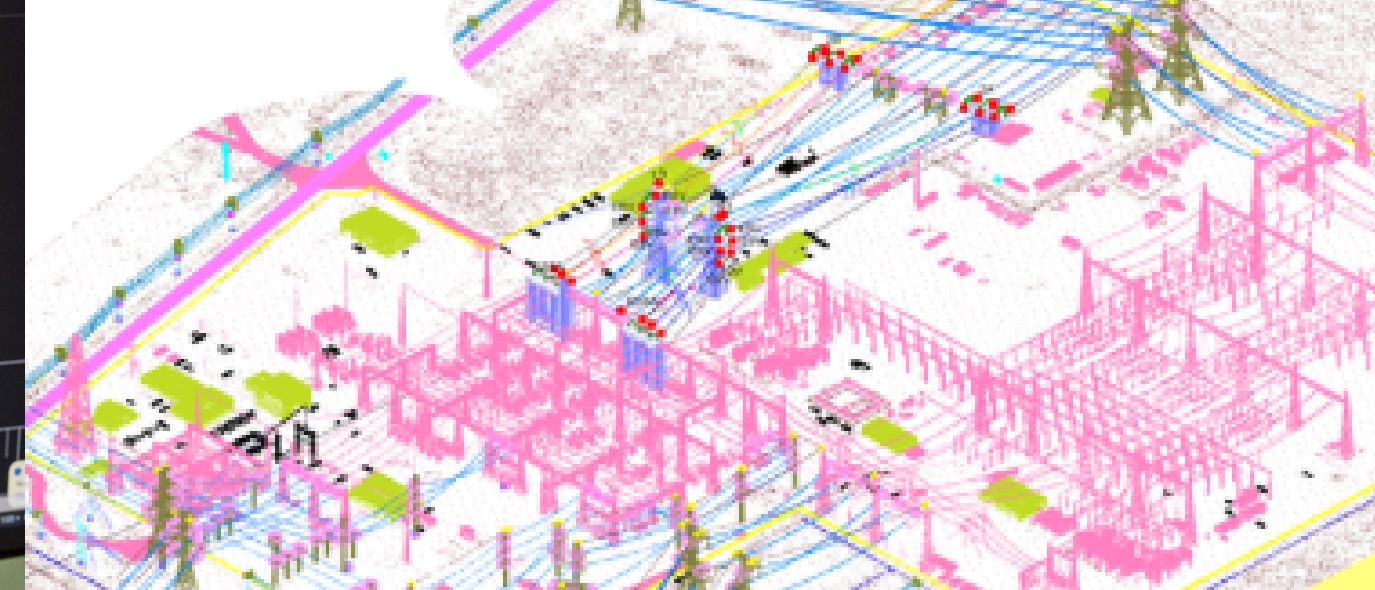
Drafting, Verifications and Peer Reviews, Overhead Line Design

ASSET OWNER

USA

WORKS SUBCONTRACTED

All works completed in-house



CHALLENGE

Processing a large volume of LiDAR survey data into accurate PLS-CADD transmission network models under time pressure — after previous suppliers had fallen short on quality and communication.

A specialist aerial survey company needed to convert an immense volume of LiDAR survey data from transmission network flights into precise, client-ready PLS-CADD models, within a tight timeframe. Previous suppliers had delivered inconsistent quality and poor communication, creating a gap between the survey data being collected and the final models meeting end-client standards. The client needed a partner with genuine PLS-CADD expertise who could absorb high data volumes, maintain accuracy, and communicate reliably throughout.

SOLUTION

Groundline processed the survey data, built accurate network models, and improved the client's own workflows and output processes — working as a close, communicative partner throughout.

Groundline's team applied specialist PLS-CADD capability to convert the LiDAR data into detailed, realistic network models that accurately represented the as-surveyed infrastructure. Beyond processing the immediate volume of work, Groundline identified improvements to the client's processes and streamlined their output methodology, raising the quality baseline for future projects. Regular updates and close collaboration ensured the client remained informed and confident throughout delivery, addressing the communication failures that had undermined previous supplier relationships.

IMPACT

End clients received a significantly improved product, and the relationship has grown into a long-term partnership with project opportunities extending into additional countries.

The accuracy and realism of the final models led to better outcomes for the client's own downstream projects and end customers. Groundline's communication and technical performance rebuilt confidence after previous supplier difficulties, leading to an ongoing partnership and additional bids for work in other countries. The project demonstrated that PLS-CADD modelling at scale, done well is a meaningful differentiator, and established Groundline as the client's preferred partner for transmission network modelling work.

