

# ELECTRICAL TRANSMISSION ENGINEERING

## OUR SOLUTIONS

ENTRUST Solutions Group specializes in providing engineering, design, project management and support services up to 765kV to help deliver **safe** and reliable solutions for transmission clients. From feasibility studies to detailed design and project management, through construction support, ENTRUST is a trusted provider of engineering services to the electric utility and telecommunications industries. Our team of experienced engineers and project and program managers have extensive utility and industry-based project experience and the knowledge to work through the unique complexities, permitting, and technical issues which typically surround distribution, transmission line, and substation projects – especially portfolio-type projects involving multiple sites, linear corridors with multiple lines, and the coordination needed between many project elements. Some of the tasks we execute include:

- Routing & feasibility analysis including ROW, permitting & environmental
  - » *Includes conceptual cost estimating as required*
- Overhead line design including PLS-CADD, PLS-Pole, PLS-Tower
- Conductor sag-tension design



- Insulation design
- Guy & anchoring design
- Structure spotting
- Structural & foundation design including FAD Tools and LPile
- Contracts and Specifications
- Material procurement & construction contract management services

To monitor top quality each transmission line design goes through a thorough ISO-9001 design/drafting, civil/structural and electrical engineering QA/QC review as required. These reviews are executed through deliverable specific checklists to ensure all aspects of the job are captured to the highest quality level possible.