

Osmose can help you
perform pole engineering
and make-ready faster
while reducing costs.

Pole Engineering Services

Featuring O-Calc[®] Pro Structural Analysis Software

Osmose provides professional pole engineering services targeted toward your existing pole plant.

Pole Loading Analysis

Fast, accurate load analysis for upgrades, new attachments or system hardening.

Clearance Analysis

Review attachments on your poles to verify compliance with specified NESC clearance requirements.

Make-Ready Design

Comprehensive design solutions for attachers and pole owners using state-of-the-art technologies.

Pole Replacement Design

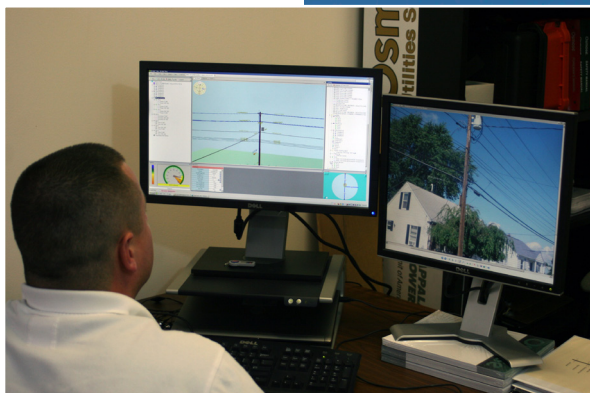
Turn-key design of new poles to ensure timely replacement of rejects.

Post-Construction Verification

Assess the "as built" condition of your assets to ensure compliance with design and code specifications.

Pole Upgrading & System Hardening

Upgrade in-service wood poles by one, two, three, or more classes to enhance structural reliability.

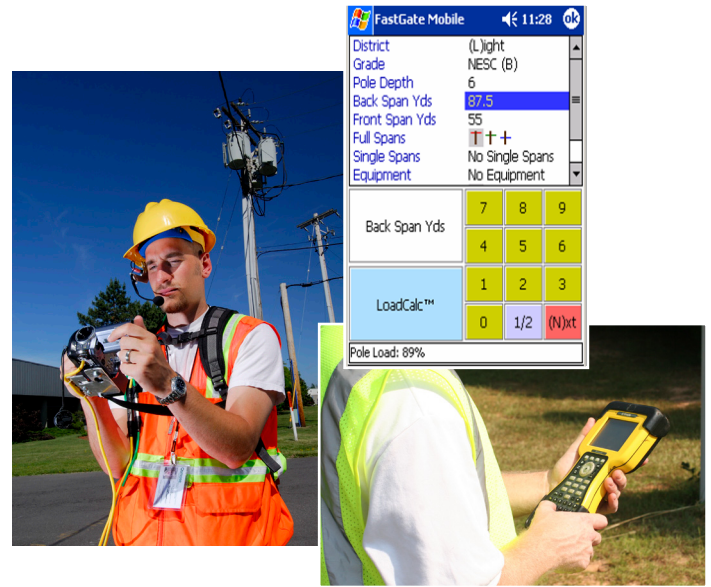


Step 1 Field Data Collection

Osmose offers one of the most experienced, and well-trained field forces in North America. Our technicians visit millions of poles each year – collecting, validating, and delivering highly accurate data related to joint use, network connectivity, customer-to-transformer linkage, attachments, pole conditions, and more.

Reduce Loading Analysis Costs with LoadCalc®

Load evaluation in the field with LoadCalc software identifies poles that are surely less than fully loaded and poles that are clearly overloaded. Only a small percentage of remaining poles require a more comprehensive loading analysis to validate compliance with code requirements.

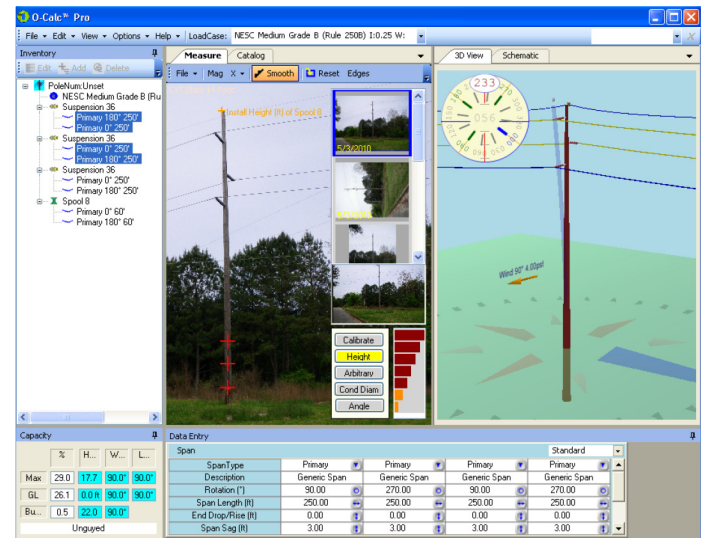


Step 2 Analysis • Engineering & Design

Osmose's highly trained and experienced engineering technicians utilize data collected in the field to efficiently and accurately model and analyze poles using **O-Calc Pro** software with **Digital Measurement Technology**.

O-Calc Pro simplifies advanced calculations that incorporate pole and attachment attributes, wind and ice loads, complete guyed pole analysis, thermal loads on cables and conductors, specified codes and custom load cases, and existing conditions such as leaning poles. O-Calc Pro quickly provides highly accurate analyses for new and in-service poles.

Outsourcing pole engineering and design to Osmose can free up your engineering resources for mission critical, revenue-generating work.



Step 3 Data & Solution Delivery

Osmose Online Data provides quick, secure access to your field survey data 24 hours a day, seven days a week. *Online Data* utilizes ESRI ArcGIS technology to support advanced data management, mapping, spatial analysis, imaging, and mobile capabilities. Digital images or videos that were collected as part of the field project are attached to each structure, allowing you to make virtual visits to the field from the comfort of your office.

For each pole analyzed using **O-Calc Pro**, detailed analysis reports are provided. For those poles that fail to meet the specified code requirements, possible solutions such as guying changes, pole strengthening applications, or replacement design will be included in the report.

