RoadEng® WITH **Softree Optimal**

WIND FARM ROAD LAYOUT SOFTWARE

- Earthwork Optimization
- Fast Iteration for Optioneering
- AI Path Exploration
- Preliminary Design
- Construction-Ready Design
- Full 3D Road Design

RoadEng for Wind Farm Road Networks

Efficient Design Software for Renewable Energy Road Layout

Key Features and Benefits:

Simplified Terrain Modeling:
RoadEng's intuitive interface allows users to quickly generate accurate digital terrain models (DTMs) from large datasets such as LiDAR, DEM, or UAV data.

Optimized Road Alignments for Cost Savings:
Multiple levels of automated optimization tools allow you to minimize earthworks, reducing cut-and-fill volumes and construction costs.

AI-Powered Road Layout Planning:
RoadEng includes an AI tool to determine optimized locations for access roads connecting turbines, reducing total road length and costs.

Ease of Use & Rapid Design Adjustments:
Intuitive interface allows project developers and engineers to quickly test different road scenarios. Real-time updates provide instant feedback on cost and design.

Supports Steep Terrain & Complex Access Requirements:
RoadEng handles challenging topography common in wind farm locations. Provides tools for switchbacks, steep grade management, and road widening.

Exportable Results for Engineering & Construction:
Outputs to CAD and GIS formats for further refinement or contractor use. Generate reports on volumes, costs, and alignment details.
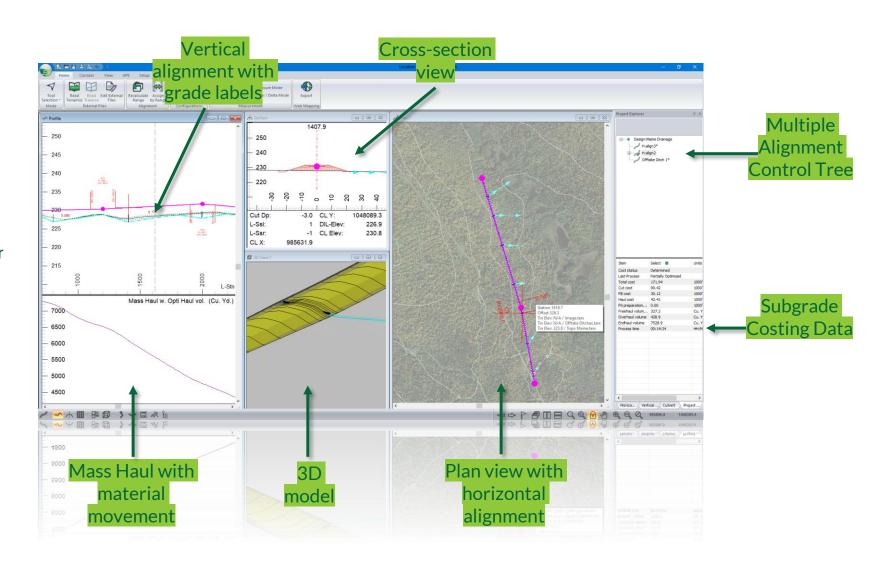
Softree
Engineering an Easier Way

RoadEng Tackles Rural Road Design an <mark>Easier Way:</mark>

RoadEng simplifies road design by offering an intuitive, visual approach to complex engineering tasks.

It integrates 2D and 3D design environments, allowing users to easily import survey data, adjust alignments, and evaluate terrain.

The software automates calculations for earthworks, drainage, and slope management, reducing manual effort and providing immediate feedback on design changes.

This streamlines the process, enabling faster iterations and better decisions while maintaining precision and efficiency.

Vertical alignment with grade labels

Cross-section view

Multiple Alignment Control Tree

Subgrade Costing Data

Mass Haul with material movement

3D model

Plan view with horizontal alignment

What Makes RoadEng Software Different?

Ease of Use:
Designed to minimize the learning curve for new users, enabling rapid adoption and efficient workflows.

Dynamic, Model-Centric Environment:
Users can visualize design changes in real time, which greatly enhances decision-making and design accuracy.

Streamlined Efficient Workflows:
RoadEng simplifies complex processes, allowing users to focus on results rather than navigating cumbersome interfaces.

Optimization and AI Tools:
These features minimize design time, reduce uncertainty, and help lower construction costs, making RoadEng an invaluable asset for our clients.

TESTIMONIAL
★★★★★

"I wanted to let you know we have been able to deliver over 30km of preliminary optimized road connecting wind turbine, using only RoadEng and Path Explorer. For over a decade in our wind farm project, road alignments have been created manually with Civil3D.
Our team was very impressed - your software is a beast."

– Pierrot Dufour (RoadEng user)

Planning a Wind Farm project?

Contact Softree for a free custom demonstration of RoadEng for your project.
www.softree.com/demo

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