



AI-POWERED ROAD & EARTHWORK OPTIMIZATION SOFTWARE

Powering efficient, optimized
wind farm road design.

Preliminary Design

Road Network Generation

Earthwork Optimization

Fast Iteration for Optioneering

Construction-Ready Design

LandXML & CAD Export



Leverage
LiDAR



Design
Faster

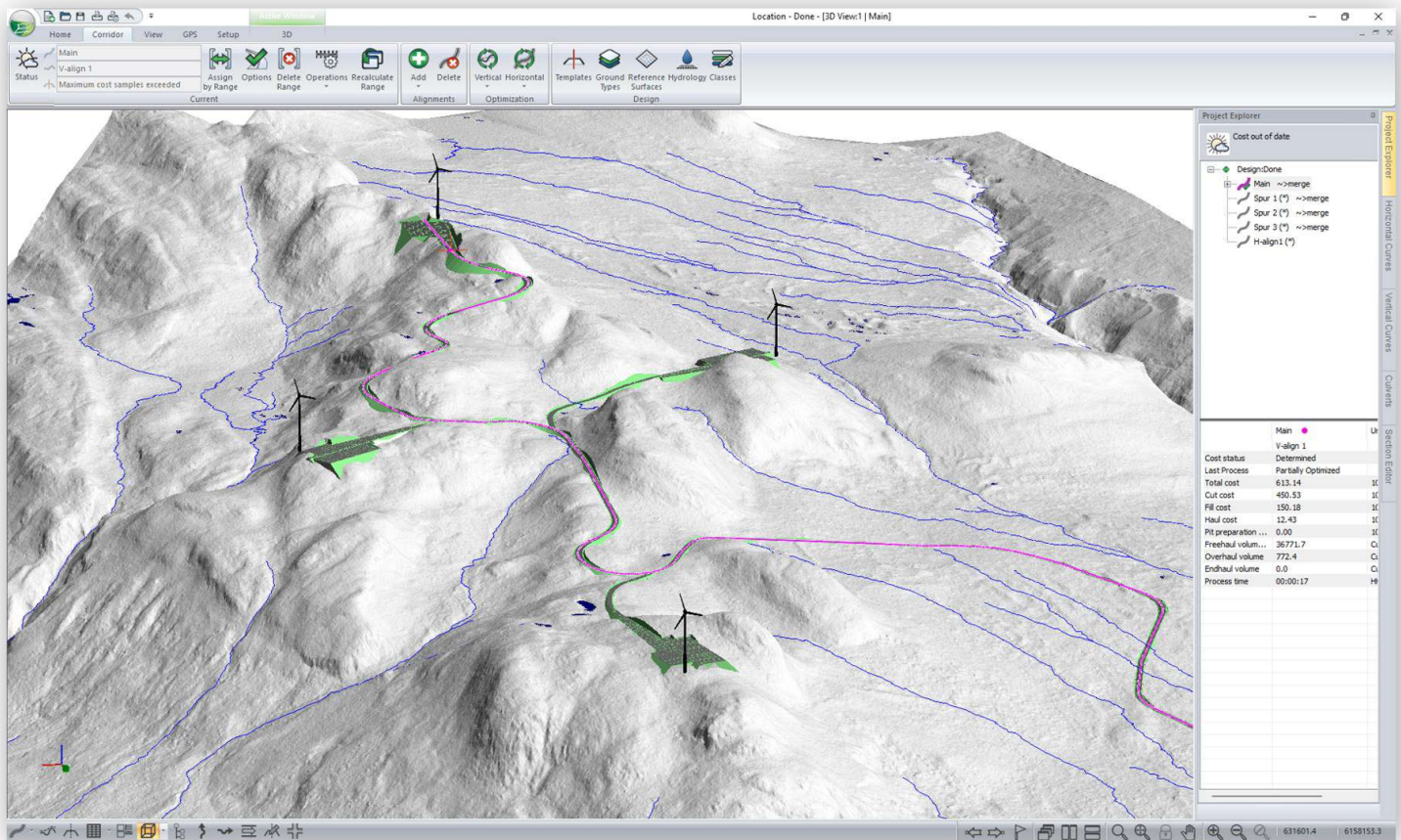


Optimize
Earthworks



BETTER WIND FARM ROAD NETWORKS

Streamline your road design & planning with intuitive tools and earthworks optimization features. Quickly find optimized road networks with lower costs & time investment.



Terrain modelling & analysis

Quickly create DTMs from large datasets including LiDAR, DEM or UAV data. Model hydrology and project constraints.



AI-powered road network generation

Path Explorer AI determines optimized locations for access road networks, dramatically reducing earthwork costs & time spent in preliminary design.



Faster optioneering

Intuitive interface to quickly test different road scenarios with real-time feedback on cost and design.



Earthwork optimization

Automated optimization tools minimize earthwork, reducing cut/fill volumes and construction costs.

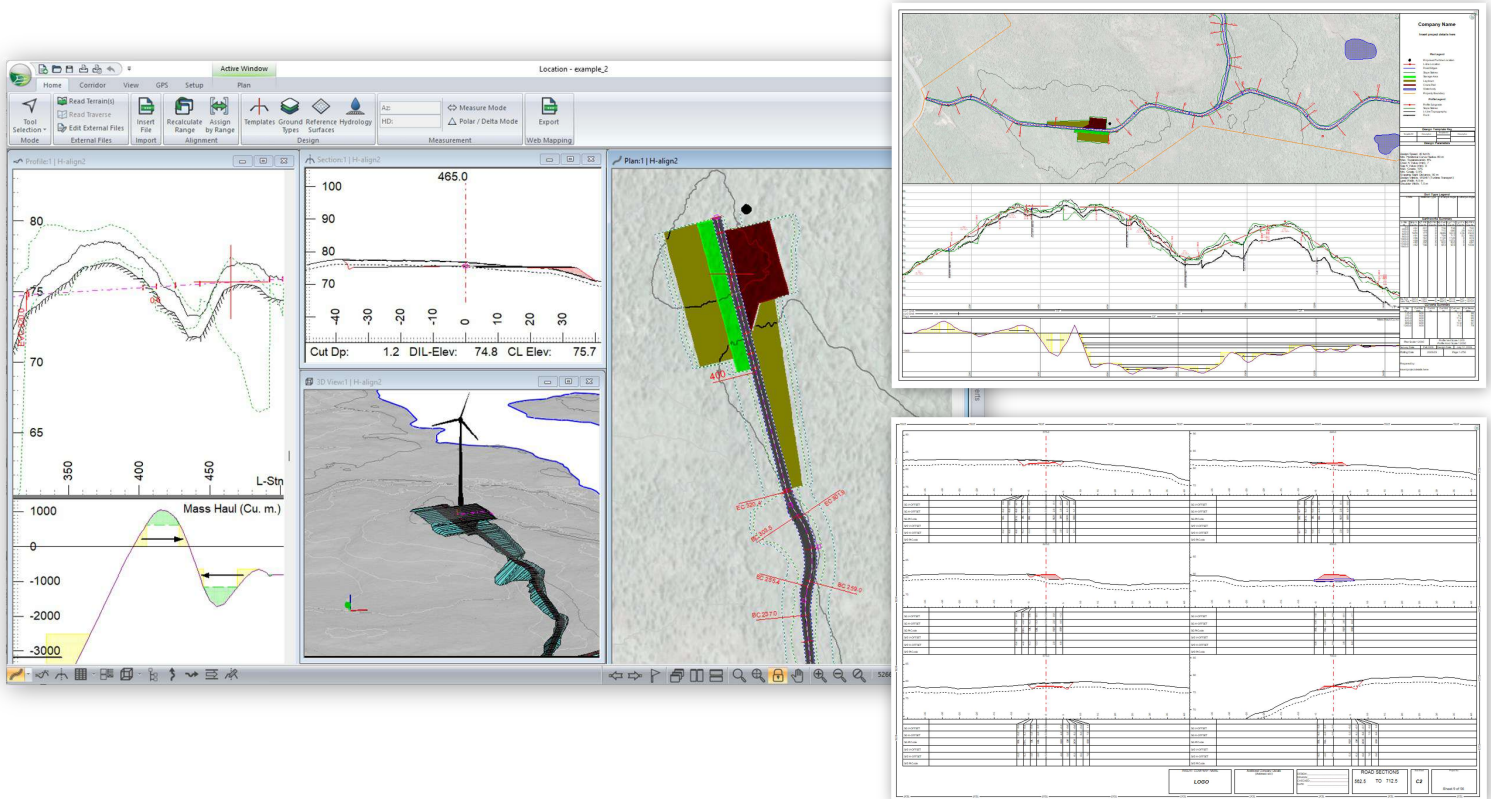
AI + EFFICIENT ENGINEERING

RoadEng combines AI algorithms that run locally on your desktop with practical, interactive engineering tools to help you plan better, faster, and more cost-effectively.

DESIGN

CONSTRUCTION-READY ROAD PLANS

Take optimized alignments from concept to construction with detailed design, mass haul balancing, and full deliverable export.



Dynamic corridor design

Fast, dynamic alignment creation & editing with full geometric design control. Adjust horizontal & vertical alignments interactively and see updates reflected instantly.



Mass haul balancing & optimization

Balance materials and mass haul across subsurface horizons, borrow / waste sites. Generate a detailed plan that minimizes haulage costs and optimizes earthwork.



Cross-sections & reporting

Control cross-sections including pad/laydown areas, cable trenches, & slopes. Generate detailed reports & quantity takeoffs ready for construction.



Construction-ready deliverables

Quickly generate dynamic design documentation with plans, profiles, and staking data. Export to LandXML & other common formats for easy use in other software.

*"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, Quebec, Canada

GET STARTED

OPTIMIZE TOMORROW

Ready to optimize your next wind farm?

See how RoadEng can reduce earthworks, and preliminary design time.



**Book a free
demonstration**



**Access a free
trial**

REQUIREMENTS

- Windows 10 or 11 OS
- Min. 8 GB RAM recommended
- Processor or motherboard built-in video is adequate
- 1 GB disk space

READS / WRITES

- 📄 DWG / DXF
- 📄 LandXML
- 📄 XYZ ASCII Points
- 📄 Shapefiles
- 📄 GeoTIFF
- 📄 & more

Why RoadEng:

- ✓ **Smarter Planning**—Generate optimized road networks using AI-assisted design.
- ✓ **Save on Earthworks** — Reduce cut/fill volumes and construction costs.
- ✓ **Faster Delivery** — Move from concept to construction-ready plans.

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Softree
Engineering an Easier Way