

Power line design software



**Power
Path**

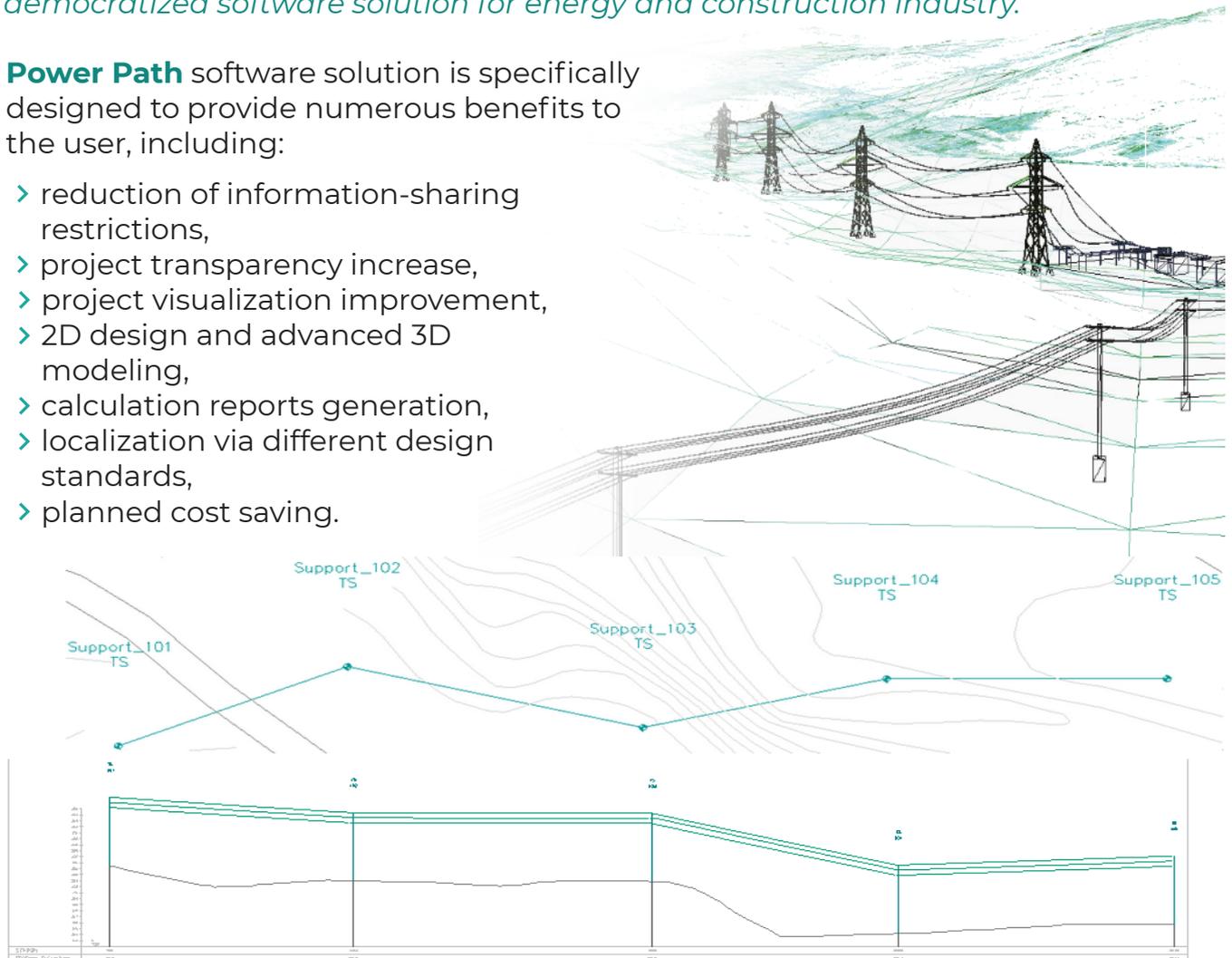
Energy, the smart way.

Why we need changes in power line project development?

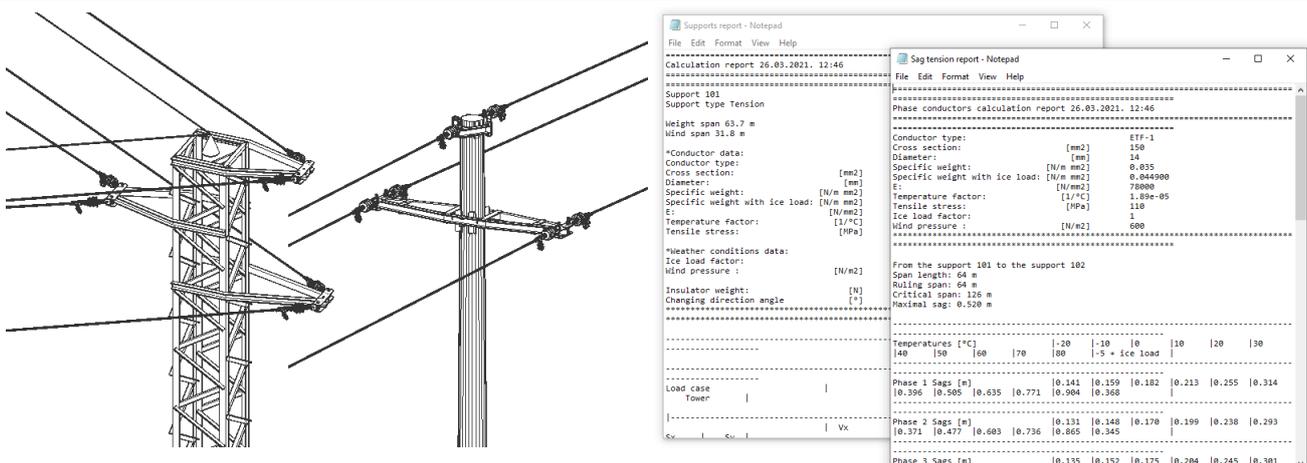
To ensure faster workflow and provide automation, changes are being made in the process of project development with the next generation of a democratized software solution for energy and construction industry.

Power Path software solution is specifically designed to provide numerous benefits to the user, including:

- reduction of information-sharing restrictions,
- project transparency increase,
- project visualization improvement,
- 2D design and advanced 3D modeling,
- calculation reports generation,
- localization via different design standards,
- planned cost saving.



Power Path is a software solution for designing power distribution & transmission lines and creating digital twin in accordance with BIM* methodology.



*Building Information Modeling (BIM) is a set of technologies, processes and policies enabling multiple stakeholders to collaboratively design, construct and operate a Facility in virtual space.

What does the new approach bring, compared to the classic/traditional?

There are less **information sharing restrictions** through intuitive user-oriented software for developing 2D documentation and 3D BIM models in .ifc record (". pdf format for construction"), dwg or .dxf formats.

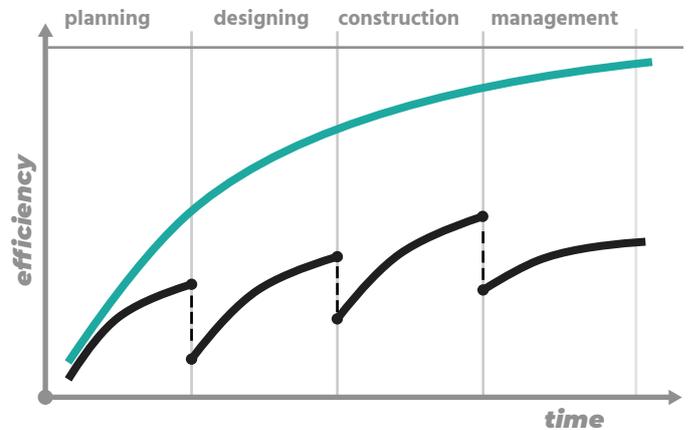
Increased **project transparency** in the design phase (time/schedule and cost i.e., 4D and 5D analyses are obtained from 3D BIM models and are dynamically linked) and reduced costs in next phases.

Facilitation of **project visualization** enables effortless demonstration to clients and ensures full understanding of all project participants.

2D design process enables the creation of necessary documentation (paper or electronic form) while **3D modeling** enables advanced system elements modeling with additional information.

For the project to offer a complete solution, it also supports obtaining **calculations** regarding loads and weather actions on catenaries and poles (sag-tension and loads reports).

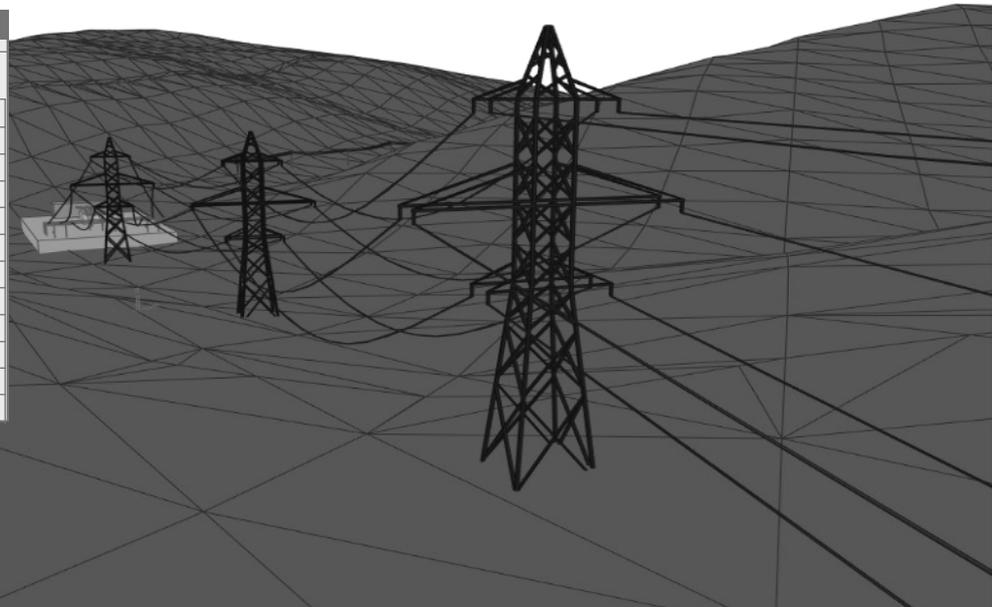
Localization enables software to be used in accordance with individual needs and local standards for calculations of the power line system elements.



- -classic/traditional approach
- -BIM approach

Cost savings are based on the implementation and use of new technologies. For engineers with basic project development needs, it accelerates the design process and simultaneously explains what BIM is. For engineers with advanced needs, it automatically generates BIM facilities allowing the model to be used for: visualization, AR (Augmented Reality) and the following construction phases (4D, 5D, 6D).

OpenBIM data			
Properties	Location	Classification	Relations
Name	Value		
-Element Specific			
-Transmission pole			
-Code	Support_101		
-Foundation	Concrete		
-Insulation	Tension/suspension		
-Material	Steel		
-Pole height	15m		
-Pole type	Support		
-Voltage	110kV		
-Transmission conductor			
-Conductor type	Al/Fe		



Why to choose Power Path?

Power Path solution is used for electricity transmission and distribution systems. It aims to provide a faster workflow and automation for 2D creation of documentation, mechanical calculations (sag-tension and loads reports) and 3D BIM model development. It works in CAD (Computer Aided Design), an environment familiar to all engineers.

Key features:



2D and 3D project development

Designing new and existing powerlines



User-oriented solution

Enables intuitive use by power line engineers



OpenBIM approach and Augmented Reality

Object lifecycle management and pre-construction preview



Dynamically connected project elements

CAD/BIM environment, no need for additional external files



Tailored for different world markets

Implementation of different standards, libraries and calculation



Familiar CAD environment

An easy-to-learn and adopt software solution

Benefits of using Power Path solution:

- Reduces risk, increases security and saves resources with the use of BIM technology in power line design
- Created power line models provide data for lifecycle management (planning, designing, construction and maintenance phases are supported)
- Working in CAD environment supports collaboration with other software solutions (.dwg, .ifc, .dxf, .dgn, .skp, .rvt and some other input formats are supported)
- An intuitive „quick-to-learn and easy-to-use“ interface



Power Path

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