



Electra

by **CGS plus**

Overhead Power Line
Design Software



AUTODESK
AUTOCAD CIVIL 3D
Compatible



AUTODESK
AUTOCAD
Compatible



AUTODESK
AUTOCAD MAP 3D
Compatible



DEVELOPED FOR



BRISCAD

Version 2017



Electra

by **CGS plus**

Overhead power line design

ELECTRA is powerful overhead power line CAD design software which combines design and documentation production workflows for electrical distribution design.

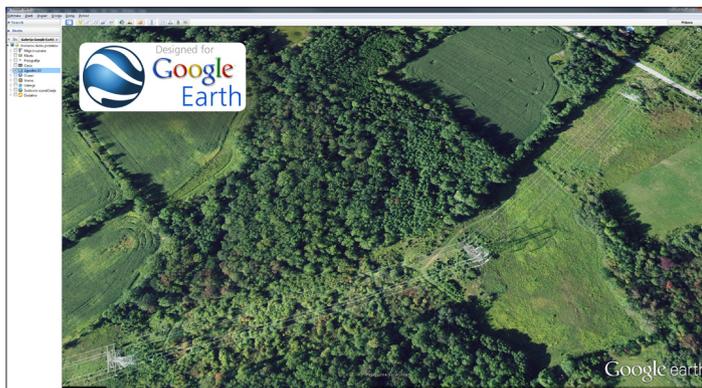
It provides sophisticated design and analyzing tools to optimize transmission network designs in plan and profile. Detailed and comprehensive documentation production is supported within Electra software solution.

3D terrain model design

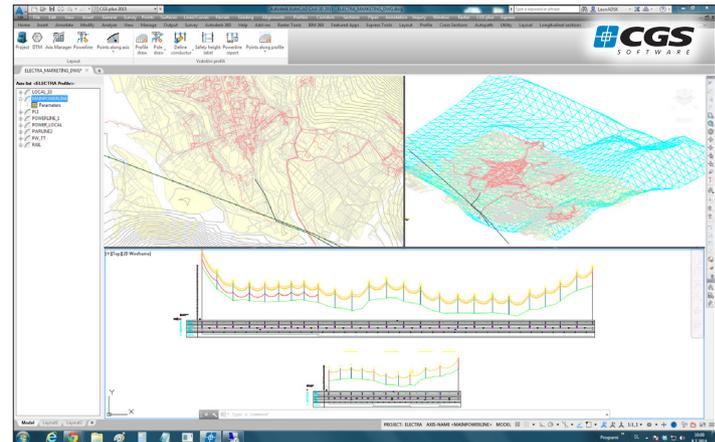
Electra support various digital terrain data from surveying instruments, Lidar technologies, photogrammetry and other data formats. Electra includes its own digital terrain creation tool to model 3D surfaces for generation of multiple plan and profile transmission lines design.

Easy to use workflows and dynamic data changes support

With its easy to use workflows and design data analysis tools Electra provides user a comprehensive tool to manage complex design requirements in most productive way. Automatic data update of plan and profile en-



Used for	Overhead power line design
Supported CAD platforms	AutoCAD, AutoCAD Civil 3D, AutoCAD Map 3D 2016 to 2011; BricsCAD V15 to V13; 32 & 64-bit
Supported languages	English, Portuguese, Slovenian
Supported standards	EN 50423-3-21 EN 50423-1
Product Internet page	www.cgsplus.com



able users to easily design or edit transmission line geometry and components.

Industry standards and calculations

Electra includes build in cables library and load parameters which can be user defined and customized. Catenary calcula-

tions and sag-tension analysis tools enable users to design, edit and optimize transmission lines accordingly. Electra complies with EN 50423-3-21 and EN 50423-1 standards.

GIS data support

Integration with Autodesk MAP 3D functionality is supported within Electra in order to manage existing and new infrastructure spatial data. Export of new transmission lines data to shp files, ASCII files or other database formats is also supported.

Drafting

Electra provides all the drafting possibilities to deliver design data in various forms and plotting delivery requirements.

Flexibility

The program allows interactive modifications and changes of several parameters for calculating and editing of overhead power lines.

CAD platform support

Electra operates on the AutoCAD and AutoCAD Civil 3D platforms from 2017 to 2013 version. It also operates on BricsCAD V16 to V13 version.



Head Office Europe / Slovenia

CGS plus d.o.o.

Brnčičeva ulica 13
SI-1000 Ljubljana, Slovenia

Internet: www.cgsplus.com
email: info@cgsplus.com
Phone: +386 1 530 11 00

Office Germany

CGS Labs GmbH

Egerstrasse 2
65205 Wiesbaden, Germany

Internet: www.cgs-labs.de
email: info@cgs-labs.com
Phone: +49 X XXX XX XX

Office USA

CGS plus LLC

3426 NW 14th Ave
Camas, WA 98607, USA

Internet: <http://usa.cgsplus.com>
email: info.usa@cgsplus.com
Phone: (360) 210-5397

