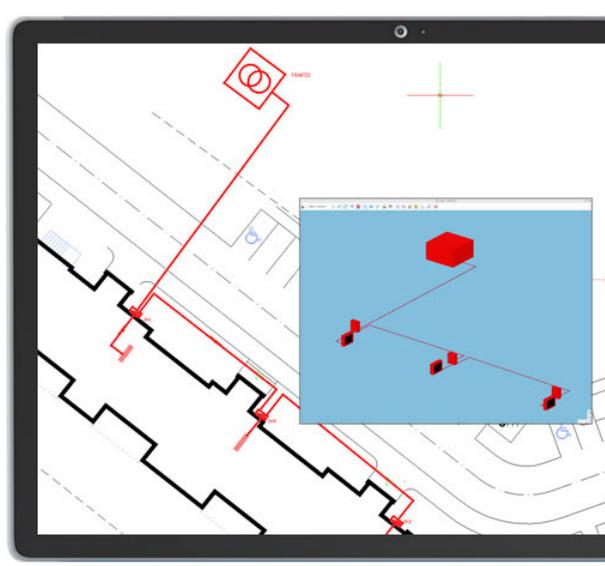
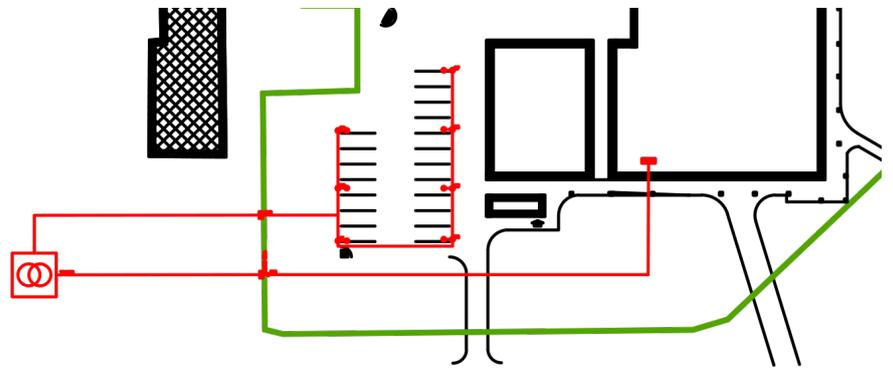


ArCADia POWER NETWORKS

Design of external low-voltage power network

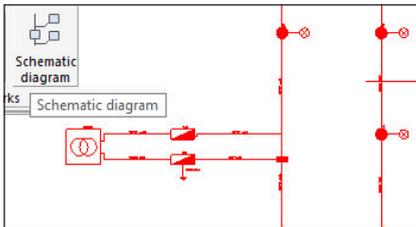


ArCADia-POWER NETWORKS allows the creation of professional documentation related to the design of external low-voltage power networks. The program enables object-oriented creation of drawings for external power networks in spatial development plans or the preparation of user drawings showing a power network starting from a low-voltage transformer to a distribution panel in a building.

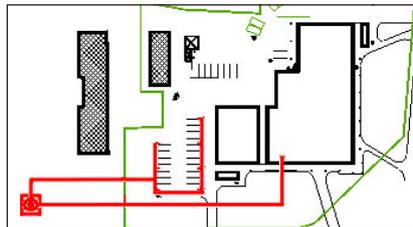
ArCADia-POWER NETWORK is a module that expands the capabilities of the ArCADia BIM program with advanced functions, which means that part of the building modelling options are in the basic version of the program:

ArCADia LT, ArCADia, ArCADia PLUS

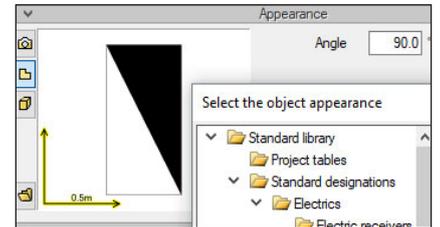
Advanced features of The ArCADia-POWER NETWORKS module:



The generation of structural diagrams of networks starting from the power source to the final object. The functionality can be used to quickly generate a drawing of the structural diagram of a proposed network. The diagram contains the topology of the proposed network.



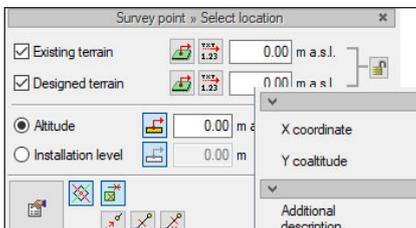
The program allows the object-oriented creation of drawings for external power networks in spatial development plans as well as preparation of user drawings showing a power network starting from a low-voltage transformer to the distribution panel of a building.



The cable joint box.

The possibility to substitute a symbol view for a specific object and create user symbols for designed objects.

A rich library of objects and the possibility for the user to create their own items.



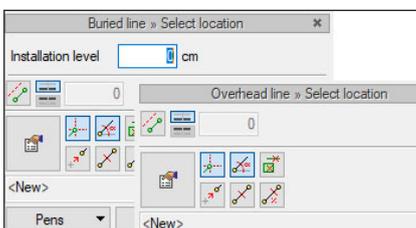
The possibility to create survey coordinates in spatial development plans. Once survey points are marked, the user can generate a report on X and Y coordinates in an RTF file.

Specification of lines lead out from transformer TRAFOL

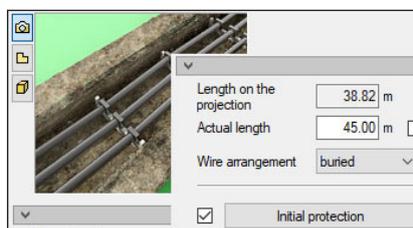
Section marking	Length [m]	Resistance [Ω]	Reactance [Ω]	Voltage drop [%]	Load current [A]	Short-circuit current [kA]	Surge current [kA]
L1	40.0	0.018	0.003	0.37	55.87	4.12	7.85
L2	80.0	0.030	0.006	0.65	55.87	2.10	4.10
L3	45.0	0.039	0.005	0.92	1.69	2.58	4.97
L4	14.0	0.042	0.001	0.82	1.69	1.10	2.15
L5	4.0	0.012	0.000	0.90	0.48	1.14	2.24
L6	3.8	0.011	0.000	0.90	1.21	0.97	1.90
L7	8.5	0.026	0.001	0.90	0.24	0.90	1.78

The execution of all basic calculations for a network.

Generation of professional technical documentation and bills of the materials used in the design for further processing.



The designing of cable and overhead power networks.



For each planned power line, the user can select protective devices for short circuits and overloads using the library of protective devices or creating their own objects.

The quick and efficient preparation of the design of a power connection to building facilities and the design of an external lighting system, e.g. lighting for streets, road, car parks, etc.