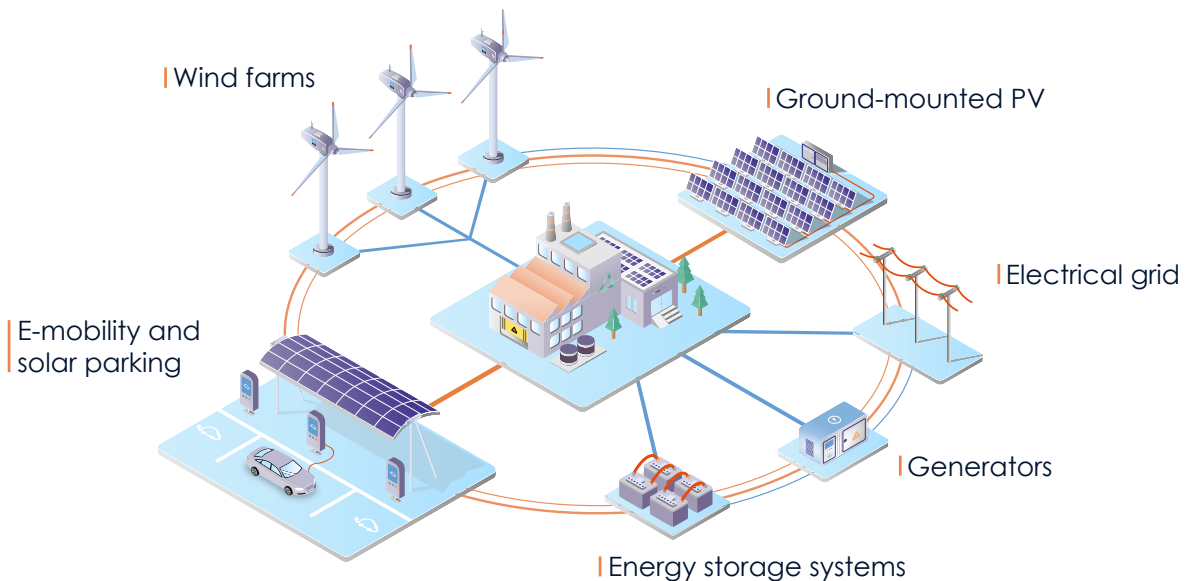


Next-generation electricity computing for your multi-source networks

Unique solution combining computing power and ergonomics



Why choose elec calc GRID?

- 1. Efficiently manage** complex power grids, whether it be low voltage, high voltage or direct current. This **flexible software** allows the integration of all electricity sources.
- 2.** Use intelligent software to ensure the design meets **international standards**, ensuring optimal **safety** and **reliability**.
- 3.** Benefit from advanced calculation algorithms to analyse **power flows and short-circuit currents** in real time.
- 4. Automated design** to precisely define cable cross-sections and optimal protection setup.
- 5.** Access a database of **more than 100,000 manufacturer references** for increased equipment choice and improved configuration propositions.
- 6.** Work faster with an **intuitive interface** designed for your needs, with predefined data for easy entry and early computational iterations.
- 7. Generate** a complete prescriptive report including schematics and BOM in the language of your choice, in just one click.

elec calc GRID is a state-of-the-art software dedicated to the sizing of electrical networks. it allows you to simulate all voltages in the same project, ensure compliance with standards and integrate manufacturing equipment, all with ease of use.

1. Modelling and Drawing

- **Intuitive data entry:** Quick creation of the synoptic diagram with an open, unconstrained drag-and-drop interface
- **Intelligent automatic drawing:** Optimised placement and connection of electrical components
- **Multi-level management:** Modelling of HV, MV, LV and DC networks in the same project

2. Source management and regulation

- **Integration of renewable energies:** Photovoltaics, wind, batteries, generators
- **Advanced PQ Regulation:** Active/reactive power control of sources for load flow calculation
- **Dynamic scenario management:** Simulation of load and power supply variations.

4. Normative compliance

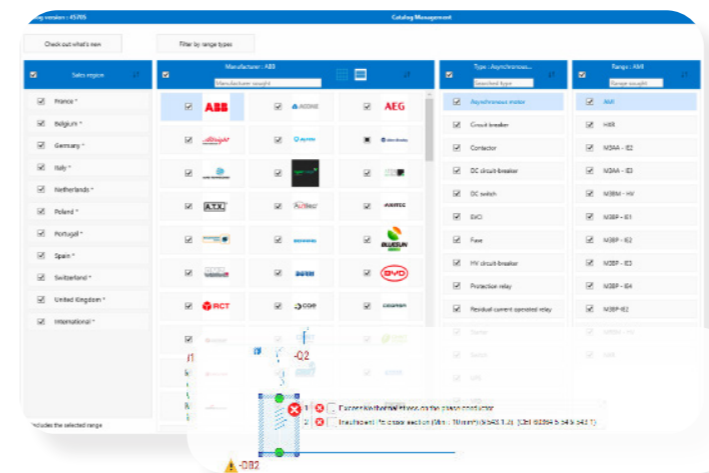
- **Normative control:** Compliance with IEC 60364, BS, NF, REBT, NIBT, VDE, RGIE and NEN standards
- **Non-compliance messages:** Alerts associated with the corresponding normative articles

5. Database and coordination

- **Large selection of hardware:** Access to a comprehensive database of multi-manufacturer electrical components
- **Automatic selection:** Optimal choice of material according to project constraints
- **Selectivity management:** Selectivity analysis via multi-manufacturer curves and setup of protection relays (ANSI 50,50N,51,51N,67) and fault simulation
- **Filiation:** Coordination of protections from the manufacturers' tables

3. Advanced real-time calculations

- **Power flow:** Real-time energy flow analysis and voltage and current calculations at all points of the installation
- **Short-circuit calculation:** Complies with IEC 60909 with critical point detection
- **Power balance:** Expansion and sizing optimisation
- **Analysis of electrical stresses:** Voltage drops, thermal stresses and THD (Total Harmonic Distortion)
- **Reactive Energy Compensation:** Calculation and Integration of Power Factor Correction Systems

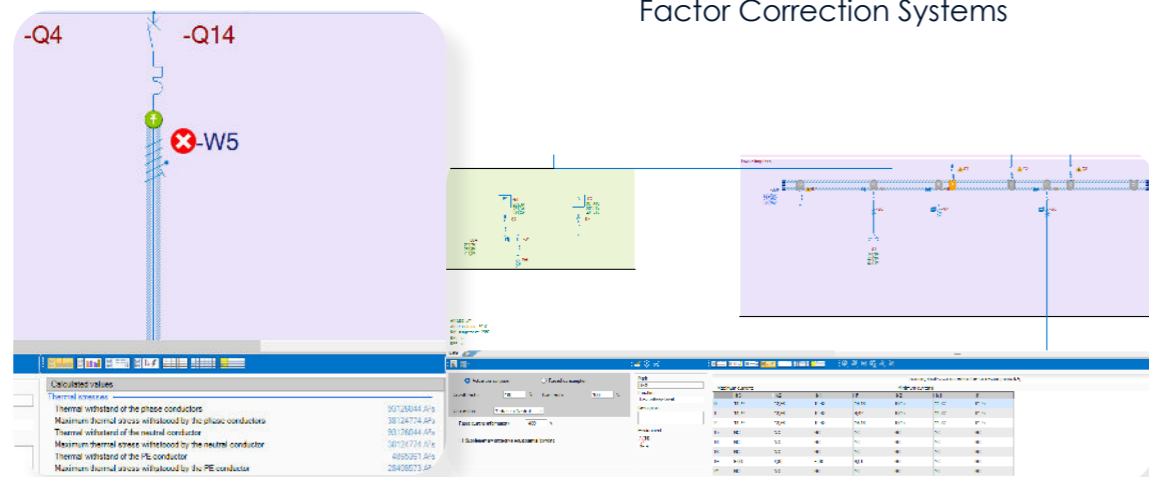


6. Optimisation and scenarios

- **Automatic Design:** Calculation of the optimised architecture. Automatic settings and selections
- **Operating Modes:** Simulation of scenarios and identification of sizing cases

7. Deliverables and Export

- **Standardised Reporting:** Automatic synthesis that complies with regulatory requirements in 8 languages
- **Synoptic Export:** PDF and DWG formats for easy integration
- **Bill of Materials (BOM):** Automatic generation for tracking and procurement
- **Interoperability with EPLAN:** Seamless connection to ensure continuity of electrical projects



elec calc | grid

Scale your multi-source installations
with ease

Trace Software Services



Hotline, ticket or
phone support



Request Manufacturer
References



Webinars & video
tutorials



Product Updates

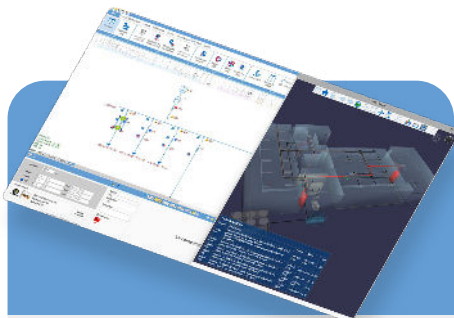


Online or face-to-
face training



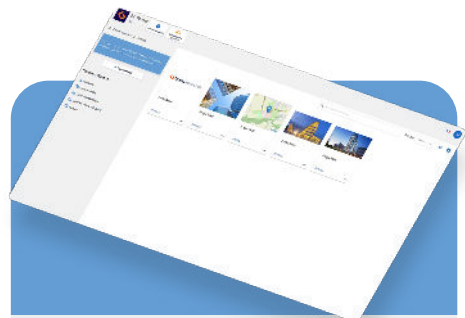
The software is referenced by the Elie BT brand of GIMELEC, ensuring the compliance of calculations and their recognition by all control offices.

Discover the elec calc range:



elec calc | bim

Size your electrical
installations in an Open
BIM process



elec calc | project

Collaborate effectively
on your electrical projects
thanks to a business
platform