



# HyTEPS simulations - Get more out of your installation

Simulation services are a very useful way to efficiently obtain greater insight into your installation's risks and possibilities. These simulations can be carried out during the design phase of new electrical installations and during expansions. They also offer tools for optimising energy efficiency, continuity and safety in existing installations.

- Freedom to test scenarios and solutions quickly, safely, easily and affordably instead of trying them out in practice
- Guaranteed safety, continuity and reliability of the installation
- Well-informed decision-making regarding modifications
- Cost-efficient insights into existing and new construction
- Get more power from your installation, reduce energy consumption and increase operational reliability through enhanced insights
- Manage ever-increasing energy costs
- Sustainable entrepreneurship by using energy economically.

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**HyTEPS is an expert in arc flashes and simulations**

Want to know more? Get in touch!

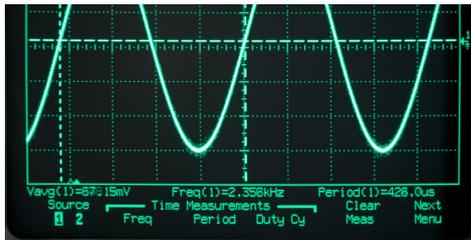
**We are your Power Quality partner**



## HyTEPS Simulation services

Implementing your electrical installation into a simulation software package provides the basis for all our simulations. Our simulation services provide you with insight into your network, helping you guarantee the safety, continuity and reliability of your electrical installation. Simulations also offer you the opportunity to make well-informed decisions regarding adjustments to your installation, or investigate and resolve issues during the design phase.

In addition to Power Factory, we also use Vision Network Analysis for simulations. This powerful, user-friendly software package makes networks, calculations and simulation results available to you in an accessible manner.



### 1. Harmonic load flow calculations

How much harmonic pollution is present and what risk does this entail?

### 2. Short-circuit current calculations

Which short-circuit currents can I expect in the installation? Can my installation handle this?

### 3. Arc flash calculations

What protective equipment must I wear with certain types of distributor?

### 4. Load flow calculations

How much load is my installation subject to and what can I still connect?

### 5. Selectivity calculations

Are short-circuit current protections properly matched? Is the entire network disconnected in the event of a fault? Or

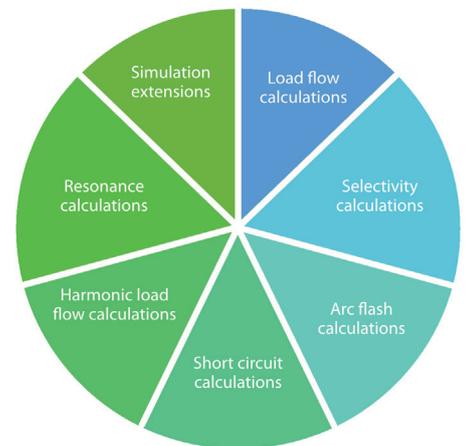
is the affected section of the network isolated?

### 6. Resonance calculations

What is the resonance frequency of my installation? Is there a risk of harmonic pollution?

### 7. Simulation of extensions

What do I need to consider if I want to connect more devices? What is the current grid load? Which investments do I need to make if I want to install more power?



REDUCE RISKS

INCREASE INSIGHT

EFFICIENT TOOLS

ACCESSIBLE

WIDE RANGE OF OPTIONS

VISION

POWER FACTORY

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