10 good reasons,

to design transformer stations and substation with Eplan

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You have an eye on all the requirements from the very start

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The documentation is just a few clicks away

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Manufacturer's data can be integrated en masse

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Press a button for bills of materials

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The digital twin simplifies your work …

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… and simplifies maintenance

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Even last-minute changes are no problem

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The software allows for the most efficient deployment of personnel

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Reap the benefits of 40 years of experience in machine building and plant-system engineering

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You have an eye on all the requirements from the very start:

Designing, building and expanding transformer stations and integrating them into the power grid are all carried out in accordance with a complex series of regulations. The structure of the switchgear systems and the different combinations of cable, transformer and circuit-breaker panels also depend on the power distribution and grid topology. If you design new systems using Eplan, the software supports you in implementing these many various requirements.

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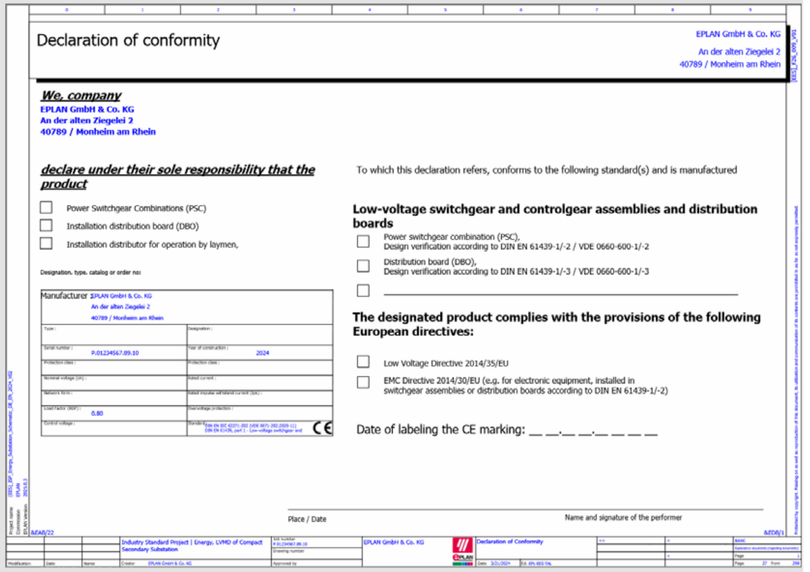
The documentation is just a few clicks away

Parts inspection report and CE-conformity declarations in the documentation are important for the production and installation of switchgear systems in the low-voltage grid. This is available in the Eplan software with just a few clicks.



Declaration of conformity

EPLAN GmbH & Co. KG
An der alten Ziegelei 2
40789 / Monheim am Rhein

We, company
EPLAN GmbH & Co. KG
An der alten Ziegelei 2
40789 / Monheim am Rhein

declare under their sole responsibility that the product

- ☐ Power Switchgear Combinations (PSC)
- ☐ Installation distribution board (DBO)
- ☐ Installation distributor for operation by laymen,

Designation, type, catalog or order no:

Manufacturer: EPLAN GmbH & Co. KG, An der alten Ziegelei 2, 40789 / Monheim am Rhein

Type:	Designation:
Serial number: P.01234567.89.10	Year of construction: 2024
Protection class:	Protection class:
Nominal voltage (Un):	Rated current:
Network form:	Rated impulse withstand current (Ipk):
Load Factor (RDF): 0.80	Overvoltage protection:
Rated voltage:	Standard: DIN EN IEC 61371, DIN VDE 0671, DIN 2839-111, DIN EN 61439, part 1 - Low-voltage switchgear and

To which this declaration refers, conforms to the following standard(s) and is manufactured

Low-voltage switchgear and controlgear assemblies and distribution boards

- ☐ Power switchgear combination (PSC), Design verification according to DIN EN 61439-1/-2 / VDE 0660-600-1/-2
- ☐ Distribution board (DBO), Design verification according to DIN EN 61439-1/-3 / VDE 0660-600-1/-3
- ☐ _____

The designated product complies with the provisions of the following European directives:

- ☐ Low Voltage Directive 2014/35/EU
- ☐ EMC Directive 2014/30/EU (e.g. for electronic equipment, installed in switchgear assemblies or distribution boards according to DIN EN 61439-1/-2)

Date of labeling the CE marking: __.__.__ __.__.__ __ __

Place / Date

Name and signature of the performer

Industry Standard Project | Energy, LVMD of Compact Secondary Substation

EPLAN GmbH & Co. KG

Declaration of Conformity

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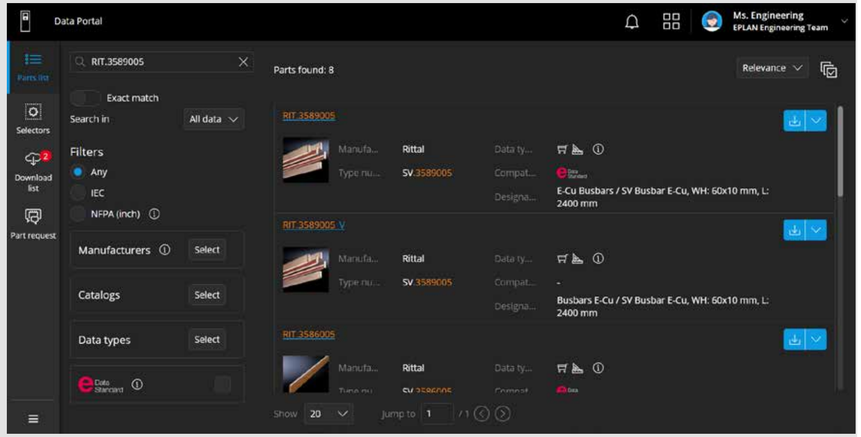
Manufacturer’s data can be integrated en masse:

With the Eplan Data Portal, device data can be directly imported into the schematics and used there.



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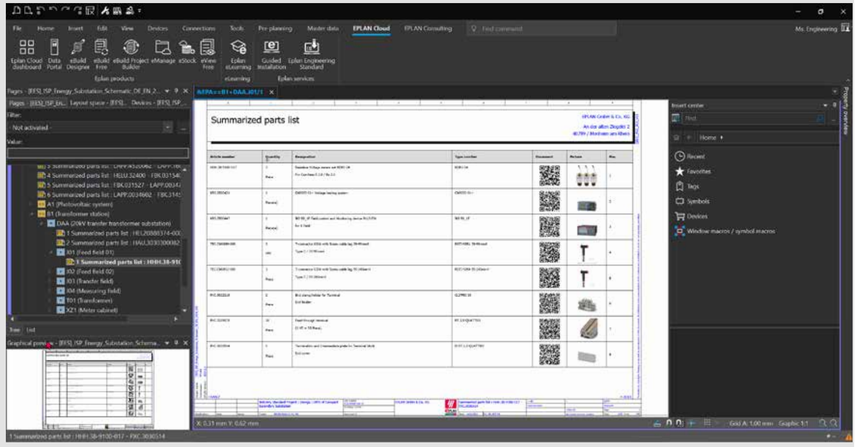
Press a button for bills of materials:

The bills of materials for components, in turn, can easily be exported. The Purchasing Department then has everything they need for ordering.



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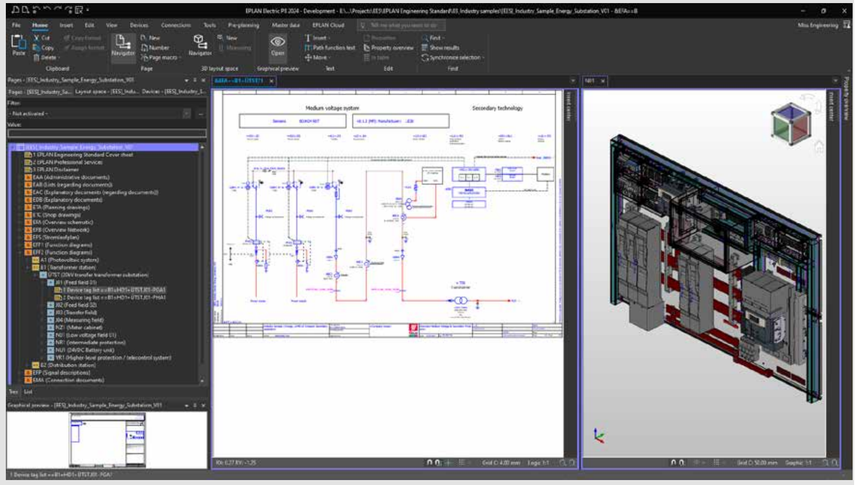
End-to-end use of engineering data:

Our solutions build on each other. For instance, you can easily design the power distribution system in 3D using Eplan Pro Panel and then use this data for other designs. The projects can also be easily checked to ensure across-the-board consistency.



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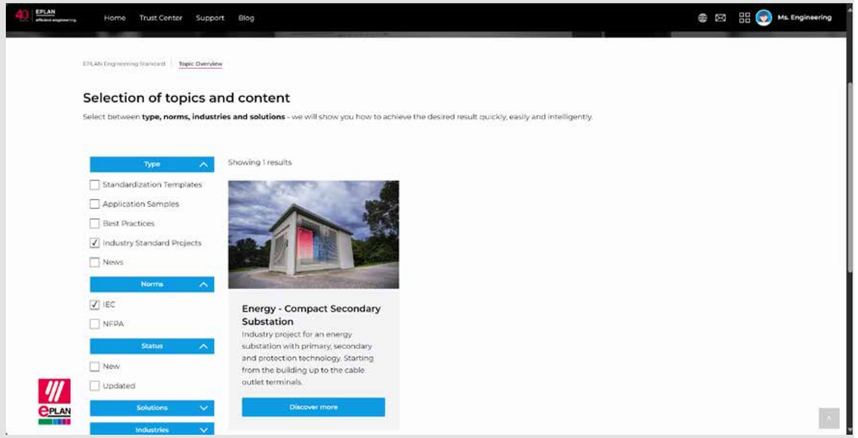
There is a blueprint for your engineering:

The Eplan project, also known as the Industry Standard Project, includes a fully functional transformer station with a low-voltage section, transformer and medium-voltage section. As an Eplan customer, you receive this as an aid to getting started. Using this example, which also contains CAD data and bills of materials, you can move your project forward more quickly.



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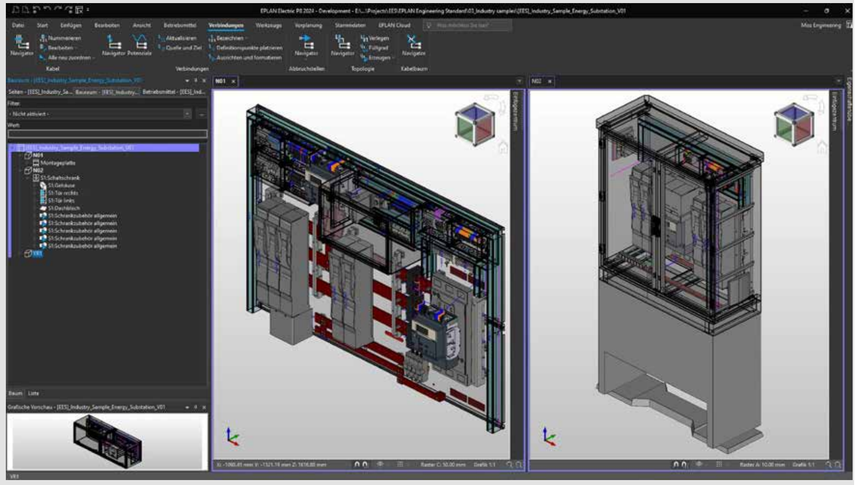
The digital twin simplifies your work ...:

Using Eplan, you work on the digital twin, that is to say a virtual representation of your systems. This allows you to run simulations of systems, interfaces and processes at an early stage in the engineering process. This reduces the number of development loops that must be run and mistakes are discovered earlier. This speeds up the final commissioning.



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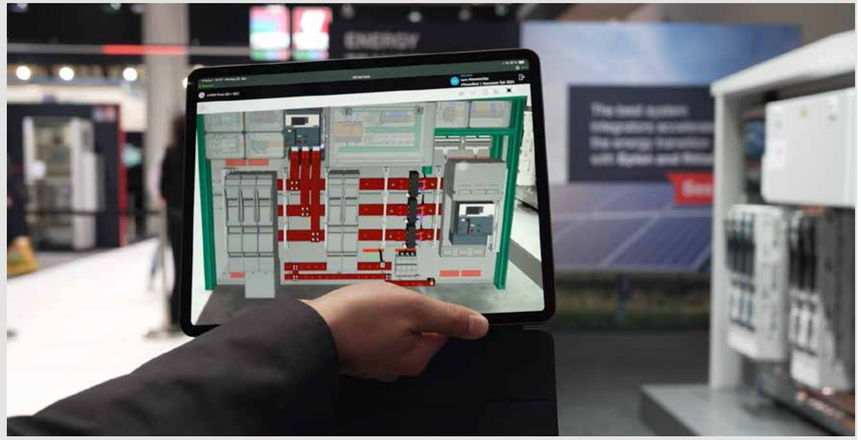
… and simplifies maintenance:

The possibility of creating a model of the system in augmented reality simplifies the system's maintenance. For example, service technicians can run through the operation in the office and give tips from there to onsite contacts.



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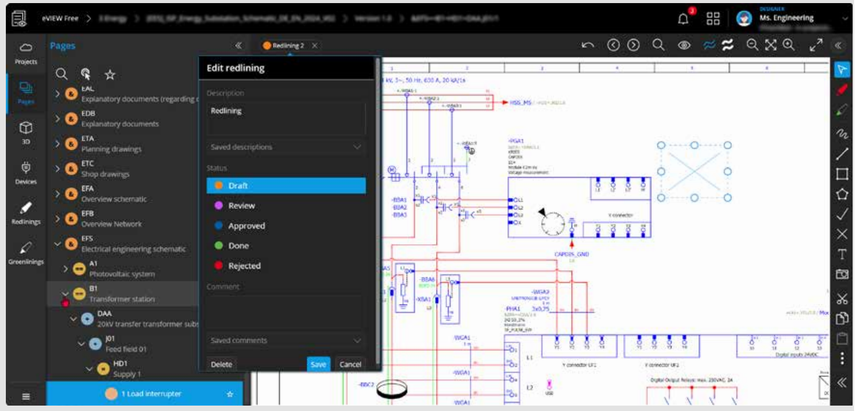
Even last-minute changes are no problem:

Changes can be implemented quickly and easily in Eplan. If components are removed, added or switched out, the complete documentation and the updated digital twin are immediately available afterwards. This makes collaboration between the many project participants even easier: everyone is working with the current version of the project. Our cloud-based technology makes it easier to share information – even in international “energy ecosystems.”



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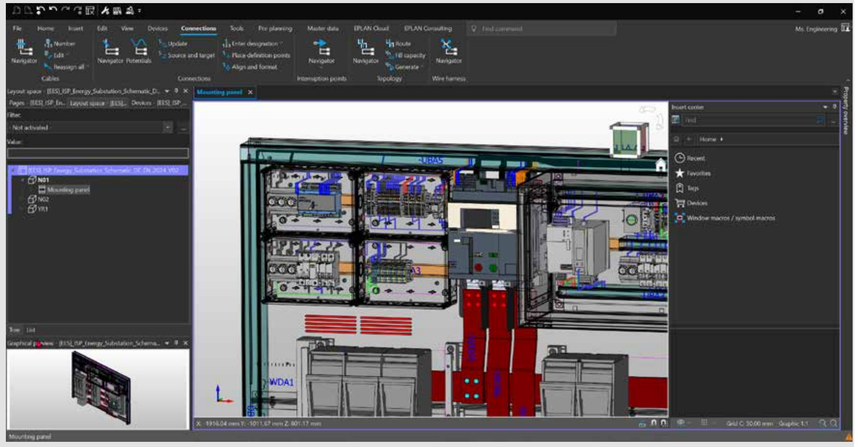
The software allows for the most efficient deployment of personnel:

Any information, down to cable ducts and mounting rails, can be designed in detail using Eplan. With this support, plant-system manufacturers and operators can counteract the shortage of skilled workers: since the software takes over many tasks, specially trained personnel can also be deployed elsewhere.



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- Engineering Software
- Implementation
- Global Support

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