Power distribution

Application: all types of buildings

Design smart to reduce capital expenditures and operating costs

"When it comes to having an energy-efficient electrical installation, the most important thing to me is to minimize power losses while keeping capital expenditures on target."

Use ID-Spec Large software to design the ideal electrical installation for your building and your budget

Solution

ID-Spec Large software offers an array of design capabilities unique on the market:

- Assess the actual cost savings generated by energy-efficiency solutions like power factor correction and low loss transformers
- Reduce wiring lengths and diameters for lower materials and installation costs
- Lower capital expenditures by scaling equipment down to optimized use scenarios
- Calculate the percentage of recyclable wiring and busbar trunking materials
- Assess the cost of the electrical system over the entire building lifecycle

ID-Spec Large reports provide compelling data to back up the recommended solutions and can quickly and easily calculate the impact of alternative solutions.

Benefits

For the user

> Reduce capital expenditures by 10% by scaling equipment down to optimized use scenarios

> Lower energy consumption by 3% simply by optimizing your electrical equipment

> Avoid utility penalties through more responsive power consumption

> Reduce raw materials and installation costs by optimizing wiring lengths and diameters

For professionals

+ Shorten the design cycle by up to 40%

+ Increase quality by using a single tool for the whole design process

+ Present hard data to back up your recommended solution

+ Enhance your image as an environmentally-conscious professional

+ Produce Bill of Equipment, reports, and specifications with a single tool

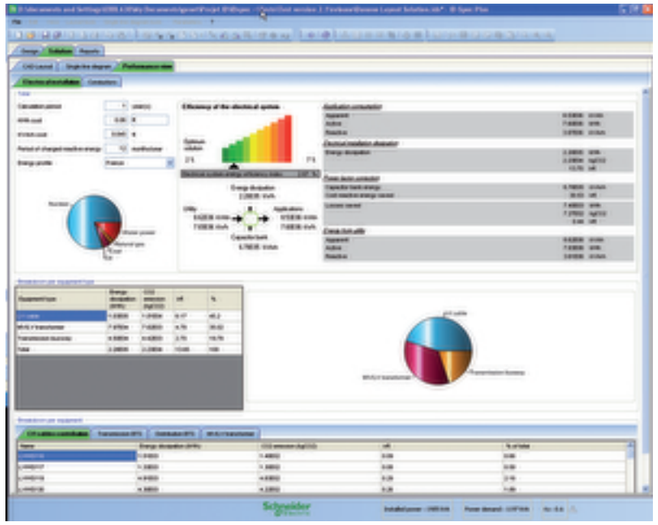
Examples

> Food and beverage plant in Jakarta, Indonesia

ID-Spec Large demonstrated the savings achieved by moving low voltage switchboards to alternative locations:

- **35%** reduction in power loss for savings of €200K over 15 years
- Amount of cabling reduced by half

☐ Measure ☑ Reduce energy consumption ☐ Reduce energy costs



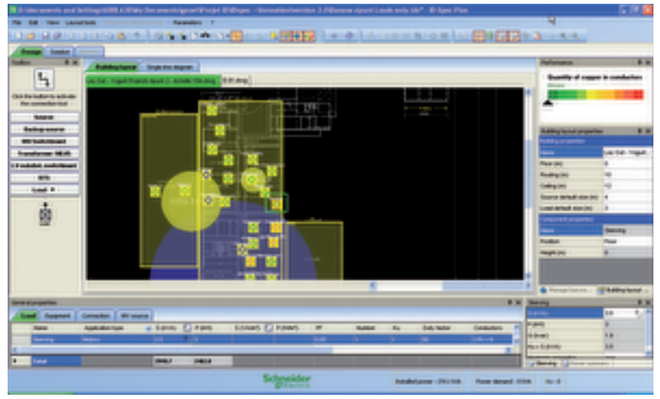
At the Solution stage

View energy dissipation cost, CO_2 emissions and ROI of power factor correction

Sort components by energy consumption to identify the most efficient choices

At the Design stage, use the power barycenter tool to:

- find out the best equipment locations in the layout
- define the electrical architecture for your project



ID-Spec Large functions

- Power Summary
- Installation drawings (CAD layout and single line drawings)
- Automatic equipment selection and sizing
- Automatic electrical installation performance evaluation
- Automatic RFQ specifications
- Budgeting