SIEMENS

Totally Integrated Power

E-House

Plug and Play Power Supply Solution

www.siemens.com/e-house

Fully equipped and pre-tested power equipment centers

E-houses are the optimal approach to install electrical power and control equipment for a fast and reliable power supply. Our E-houses consist of one or several metal or steel modules to protect the equipment. They accomodate our comprehensive portfolio of medium-voltage switchgear, low-voltage switchboards and busbar trunking systems, auxiliary equipment, etc. The E-houses are completely developed, manufactured, assembled and pre-tested at the factory, and installed, connected, and put into operation on site. If size allows, the E-house is shipped as one single unit. Larger E-houses are split into shipping sections to be joined together on site. E-houses are widely used in the oil and gas and mining industry, and ever more frequently for the installation of equipment in other sectors.

Optimal power supply solution for every requirement

The industry needs a reliable and efficient power supply as well as a flexible solution that can be adapted to the individual requirements. E-houses are fast and easy to install and can be used as interim solution. They are easy to upgrade, and use available space optimally. In the oil and gas industry, e.g., E-houses meet and exceed the requirements of the most ambitious projects, and withstand the harshest environmental conditions. E-houses ensure the minimum interference with other on-site activities, and offer a better HSSE* performance thanks to reduced manpower on site. Plus, projects that use E-houses suffer from fewer delays and construction risks (due to the weather) than projects with a conventional solution. After preparation of the site, installation and commissioning is fast. E-houses are an efficient and cost-effective alternative to conventional site-built substations.

This makes them the most suitable option for a broad range of applications in restricted spaces, as temporary power supply, or for distribution grid extension. E-houses can also be used for plant balancing for fossil and renewable energy, as reliable power supply for critical processes, for grid coupling, as well as for the grid connection of electrical energy storage systems. For all these applications you benefit from the advantages of our E-house plug & play solutions.

The advantages of an E-House at a glance:

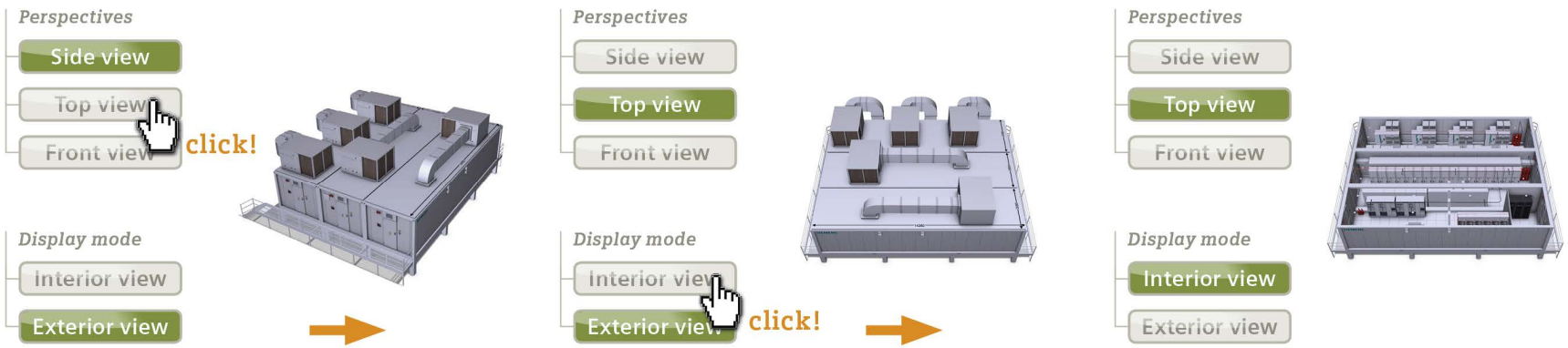
- Fast and easy to install
- Flexibility in design and upgrading
- Reduced construction risks and delays (e.g. due to weather)
- Cost-effective and time-efficient solution (e.g. for applications in restricted spaces or in harsh environment)
- Better HSSE* performance through reduced manpower on site

Benefits of the Siemens solution:

- Single source from engineering to installation and commissioning
- Expertise in project management and life cycle management
- Comprehensive range of systems and products
- Innovative and proven systems and products
- Reliable and competent local support – from planning to operation

*Health, Safety, Security and Environment

Navigation on the right side

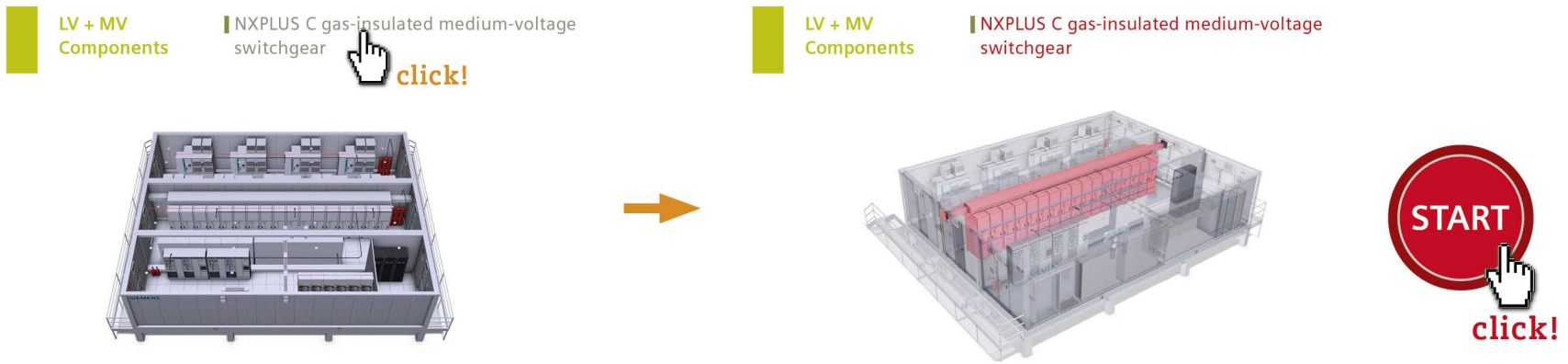


E-House solution example

Perspectives
Side view
Top view
Front view

Display mode
Interior view
Exterior view

Navigation inside the components



Rotate

Move

Zoom

Components

LV + MV Components

- NXPLUS C gas-insulated medium-voltage switchgear
- 8DA10 gas-insulated medium-voltage switchgear
- SIVACON S8 low-voltage distribution board
- SIVACON S8 low-voltage MCC board
- SIVACON 8PS busbar trunking system
- SIVACON auxiliary distribution board

VSD (variable Speed Drives)

- ROBICON medium voltage drive converters
- SINAMICS G150 cabinet units: Universal drive solution for single drives

Energy Automation

- SCADA connection system / RTU*-cabinet (*Remain Terminal Unit), e.g. SICAM by Siemens

HVAC, fire and safety equipment

- HVAC
- Fire detection and extinguishing system (e.g. Sinorix 1230 by Siemens)

Battery room

- Battery Rack
- UPS (uninterrupted power supply)

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