

GE

Your favorite partner in Energy



GE imagination at work



GE in Energy

GE's broad range of activities allows the company to offer multiple products and services in specific markets such as healthcare, oil & gas, power generation, transportation, waste to energy, telecommunications, water commercial buildings, etc.

In each specific market, GE has the capacity to work with the builder, the architect, the general contractor, the engineering firm or the installer to put together an integrated package. An example of solutions for the construction and/or maintenance of the Power Generation facilities can be found in this leaflet.

Power Generation

Low Voltage Switchgear SEV/SEK

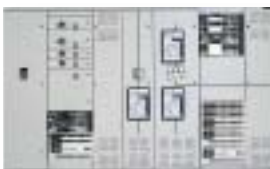


- Fully arc fault protected
- Intelligent MCC system (by Modbus or Profibus)
- Protection degree up to IP54
- Rated voltage: 3~ 690 V, 40-60Hz / = 600V
- Rated current: main bus bar -6300A (3 pole / 4 pole)
- Short-circuit strength: peak withstand current -220kA | rated short time withstand current -100 kA
- Rated current: vertical riser 800A, 1200A (3 pole / 4 pole)
- Short circuit strength: peak withstand current. -176kA, rated S.T. withstand curr. 70 kA, (80kA, 0.5 sec)
- Vertical auxiliary bus bars: 60A (2 ,4, 6 pole) rated voltage 400V
- Standards: IEC 60439-1, DIN EN 60439-1, VDE 660 Teil 500



- GT LOADS**
- Cooling air fan motor
 - Gear motor
 - Heaters
 - Hydraulic systems
 - Blower and Fan motors
 - Pump motors...
- GT AUXILIARY LOADS**
- Fire protection
 - Package ventilation
 - Package heaters
 - Main transformer cooling
 - Battery chargers
 - UPS board supply
 - Motor heaters
 - Air filters...

Low voltage switchgear SEN Plus



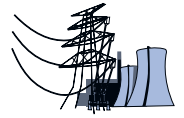
Air circuit breakers



Moulded case circuit breakers



We cover all your needs, to address your most challenging projects in Power Generation



Wind Energy

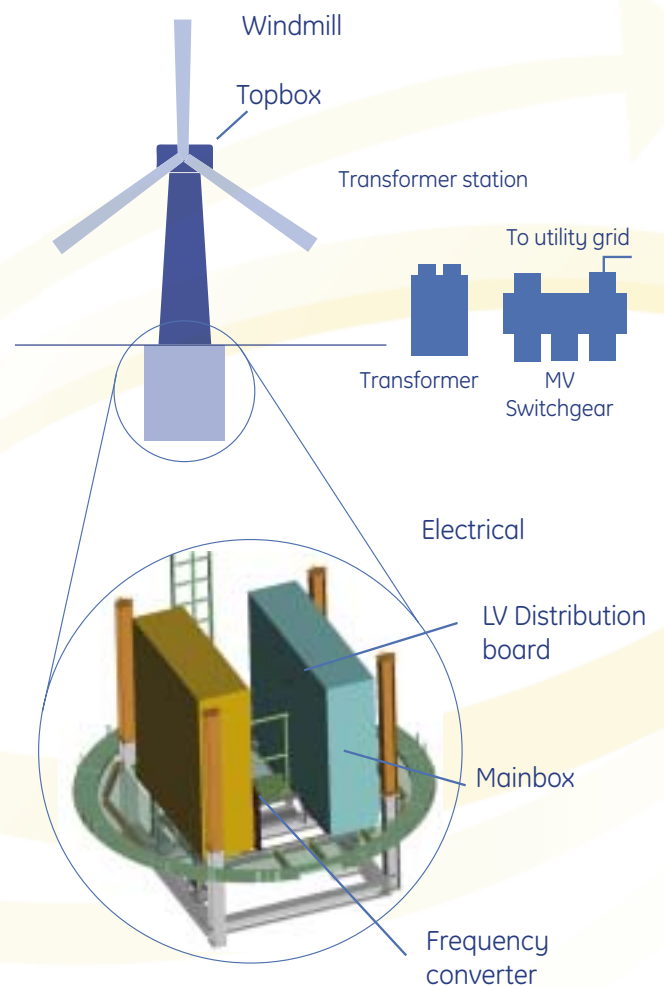


COMMON

- Building Lighting
- Building Air Conditioning
- Hall and building sockets
- Hall crane...

CRITICAL LOADS

- Local HMI
- Generator Control
- Turbine Control
- Relay protection
- Gas detection...



Control devices



UPS



Lighting systems



A recent success

Combined cycle power plant in Dubai

Customer requirements

- Arc proof tested system in accordance with IEC 61641
- Anti seismic test in accordance with ANSI standards C37.98 & IEEE 344
- Maximum reliability and availability of electrical power distribution and process control

Added value of GE

- Local presence of GE service team for daily contacts & maintenance capabilities
- Capability to propose a high quality switch gear following the most strict standards
- Cost & expertise
- Flexibility in technical solution and issues
- Long experience in energy market

Key technical features

- 18 panels
- 400V, 3200A
- Form of internal separation - 3B
- ICC 105kA



References

More than 100 power plants equipped with GE LV equipment

GE Energy - Banshan (China)	SEV/SEK
GE Energy - FEWA – Nakheel Project (UAE)	SEV/SEK
GE Energy - Project Risha (Jordan)	SEV/SEK
GE Energy - Qishuyan (China)	SEV/SEK
GE Energy - Wangting (China)	SEV/SEK
GE Energy - Zhangjiagang (China)	SEV/SEK
Hitachi - Certified supplier > 30 gas turbines during the last 3 years	
Tengizchevroil - Bechtel Power Station Kazakstan	SEV/SEK
Vattenfall - Nuclear power plant Ringhals	SEV/SEK - earthquake test
VEAG - Power Plant Boxberg	SEV/SEK with EPOS

Contact:

Verticalmarkets@ge.com

www.ge.com/eu/powerprotection



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