

Siemens Switchgear Ltd., Shanghai Entering A New Era of Growth Version: Oct. of 2011



Shareholders of JV

SIEMENS

Siemens Ltd., China with 55% of total investment

**On October 1st,
the new Siemens Sector
Infrastructure & Cities (IC)
will be in place.**

**Five divisions of IC:
Rail Systems (IC RL)
Mobility and Logistics (IC MOL)
Low and Medium Voltage (IC LMV)
Smart Grid (IC SG)
Building Technologies (IC BT)**



Siemens Switchgear Ltd., Shanghai is affiliated to IC LMV

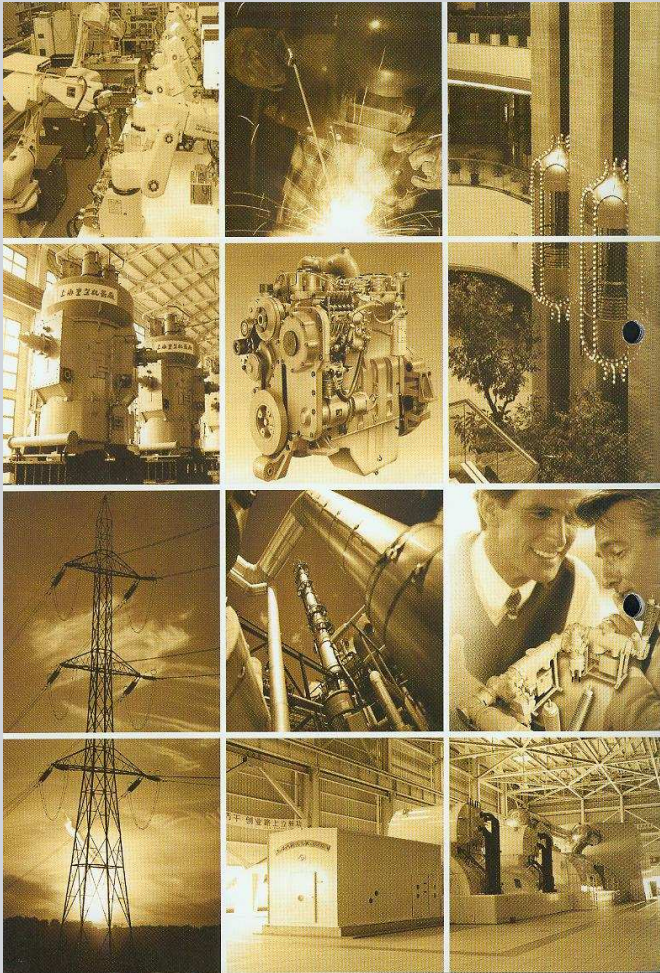
IC LMV covers the entire product, system and solutions business for low and medium voltage.

Its customers include utility companies, industrial and building customers as well as solutions providers and system integrators.

Shareholders of JV

SIEMENS

Shanghai Electric Group Co., Ltd with 45% of total investment



- Shanghai Electric Group Co., Ltd. is one of the largest diversified equipment manufacturing groups in China. EPC has a modern and wide range of energy equipments from high voltage up to low voltage. Since 1990s they are always No.1 in China equipment manufacturing industry.
- The leading products cover's 1000MW thermal power units, heavy-duty machineries, power transmission and distribution, elevators, printing machines etc.
- Shanghai Electric is a leading manufacturer in China. It is listed No.5 in Asia and No.1 in China among the Asian Top 500 Brand.
Shanghai Electric becomes modern in technology and globalize manufacturing group.

Invested by Siemens Ltd., China (55%) and Shanghai Electric Group Co., Ltd (45%)

Location: 298 Tianning Road,
Minhang District, Shanghai City

Total Investment : 24 million USD

Employees: 600

Business License: September 1993

GM: Mr. Carlos Ferreira

CM: Mr. Wu Chongzhou

DGM: Mr. Zhang Hongbiao

Registered capital: 17.91million USD

Area: 50000m²

Production started in April 1994

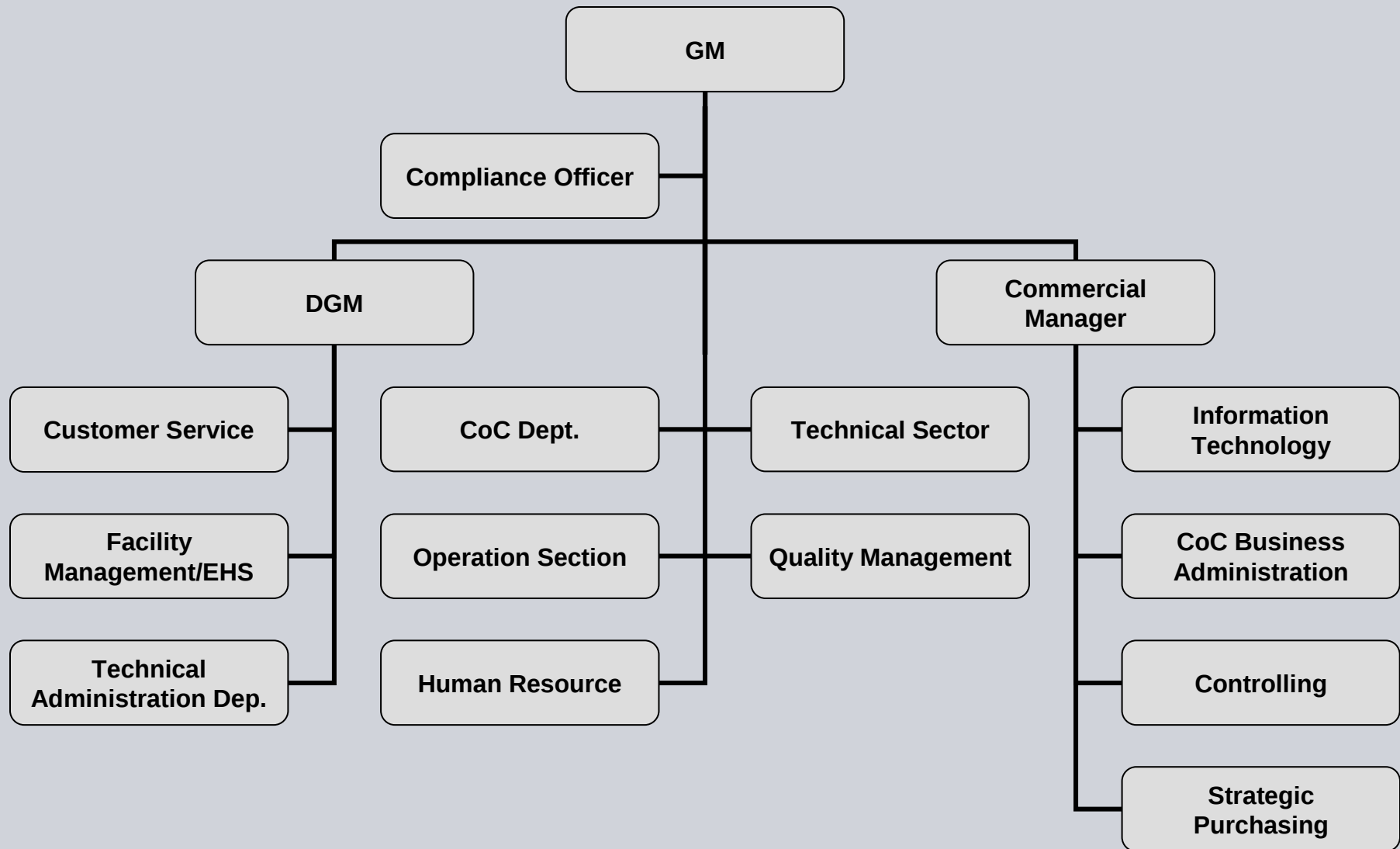
German standard, local manufacture, type tested products

Yearly production capacity: 26000 VCB and 8000 panels per shift

Business scope: Designing, manufacturing , assembly, sales, field service

Organization Chart

SIEMENS



Management

SIEMENS



GM: Mr. Carlos Ferreira



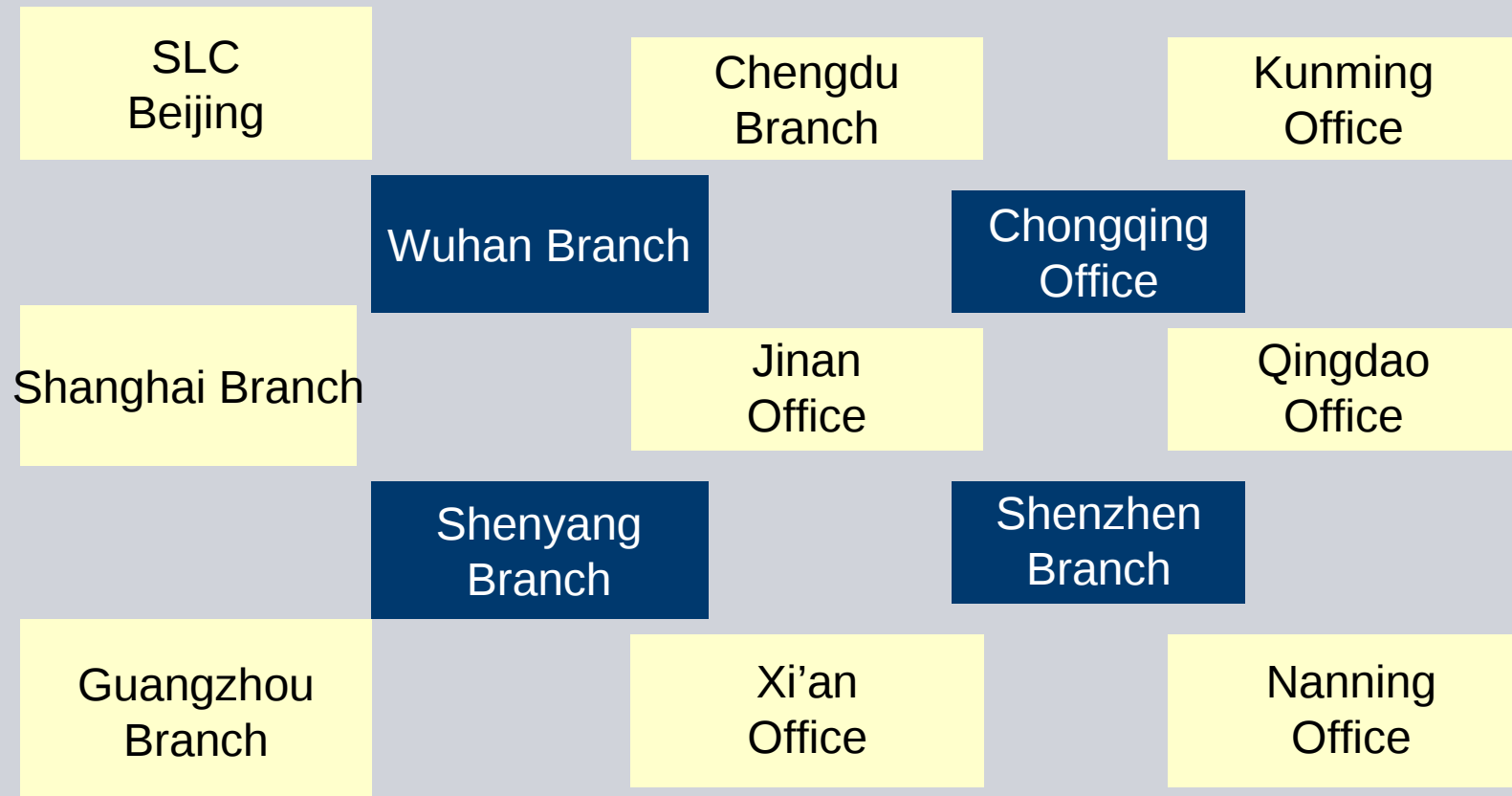
CM: Mr. Wu Chongzhou



DGM: Mr. Zhang Hongbiao

Siemens Branches (Offices)

SIEMENS



Advanced Processing Equipment

SIEMENS



TruLaser 3030 (CNC Laser Cutter Machine)

- Combination of punching and laser cutting
- High speed
- High precision

Equipment	Manufacturer
TruLaster 3030 (CNC Laser Cutting Machine), TC 5000 R (CNC Punching Machine), TC 6000 (CNC Laser Combination Machine), Trumabend V230 (CNC Press Brake) and C60 (CNC Press Brake)	TRUMPF, Germany
EHRT40-6 (Hole-cut CNC Punch) and EB40-160 (CNC Copper Bender)	EHRT, Germany
Turning Center Machine and Milling Center Machine	DMG, Germany
GAMMA 333PC (Fully Automatic Crimping Machine)	COMAX, Germany

Advanced Testing Equipment

SIEMENS

Equipment	Manufacturer
SA200 Breaker Machine Feature Computerized Testing System	ROCHEST; WEIS
Local Discharge Instrument	ROBINSON
Power Frequency Withstand Voltage Testing Equipment	HAEFELY; PHENIX
Instrument for Electric Conduction Rate	FISHER
Digital projector	RATIONAL
Optics Sclerometer	DONGHUA
400kV Lighting Impulse withstand Voltage	HUATIAN
6000A Temperature-rise test Generator	HONGFEI
Hispec 2G Moto High speed Vidicon	FASTEC IMAGING

400kV Impulse Voltage Generator



High-speed Camera



LMV IC Sector

Quality Assurance

SIEMENS

Siemens production process management assures the consistency and reliability of product quality.



Factory Management

SIEMENS

■ The management flow is optimized by SAP system. SAP system integrates the process from customer orders, engineering design, production planning, purchasing, cost controlling, financial statistics database, which enable high efficiency and harmonic cooperation.

■ SSLS implement lean production and has made remarkable achievements. Workshop environment and production capability has been improved.



LMV IC Sector

Milestone of Development

SIEMENS

Sep. 1993	→	Foundation of Company
Sep. 1994	→	Passed type test of 3AF VCB, attained the first sales permit
Oct. 1996	→	Issued ISO9002 Quality Certificate by German Quality Organs. TUEV
Sep. 2002	→	Issued ISO14001 Environmental Certificate by TUEV
Feb. 2003	→	Approved ISO9001 Quality Certificate
Feb. 2004	→	Issued OHSAS18001 Certificate by TUEV
Oct. 2004	→	Move to new plant in Minhang Shanghai
Oct.2005	→	Set up 8BK CoC Beijing Branch
Dec.2006	→	Completion of Second Phase Plant Expanding Project
Jan. 2007	→	25000th Switchgear and 35000th VCB Offline
Apr. 2008	→	Granted CCS certificate for marine application
Nov.2009	→	Environmental award for “Green Production”
Oct. 2010	→	NXAirS received Siemens North East Asia “business award”
Aug. 2011	→	Reviewed as Shanghai “High& New-tech Enterprise” in 2011

Modern Factory

SIEMENS



Covers a area of 50000 m² ,and using advanced processing equipments and test equipments and devices.

Production capacity increased with 26000 VCB and 8000 switchgear per shift one year.



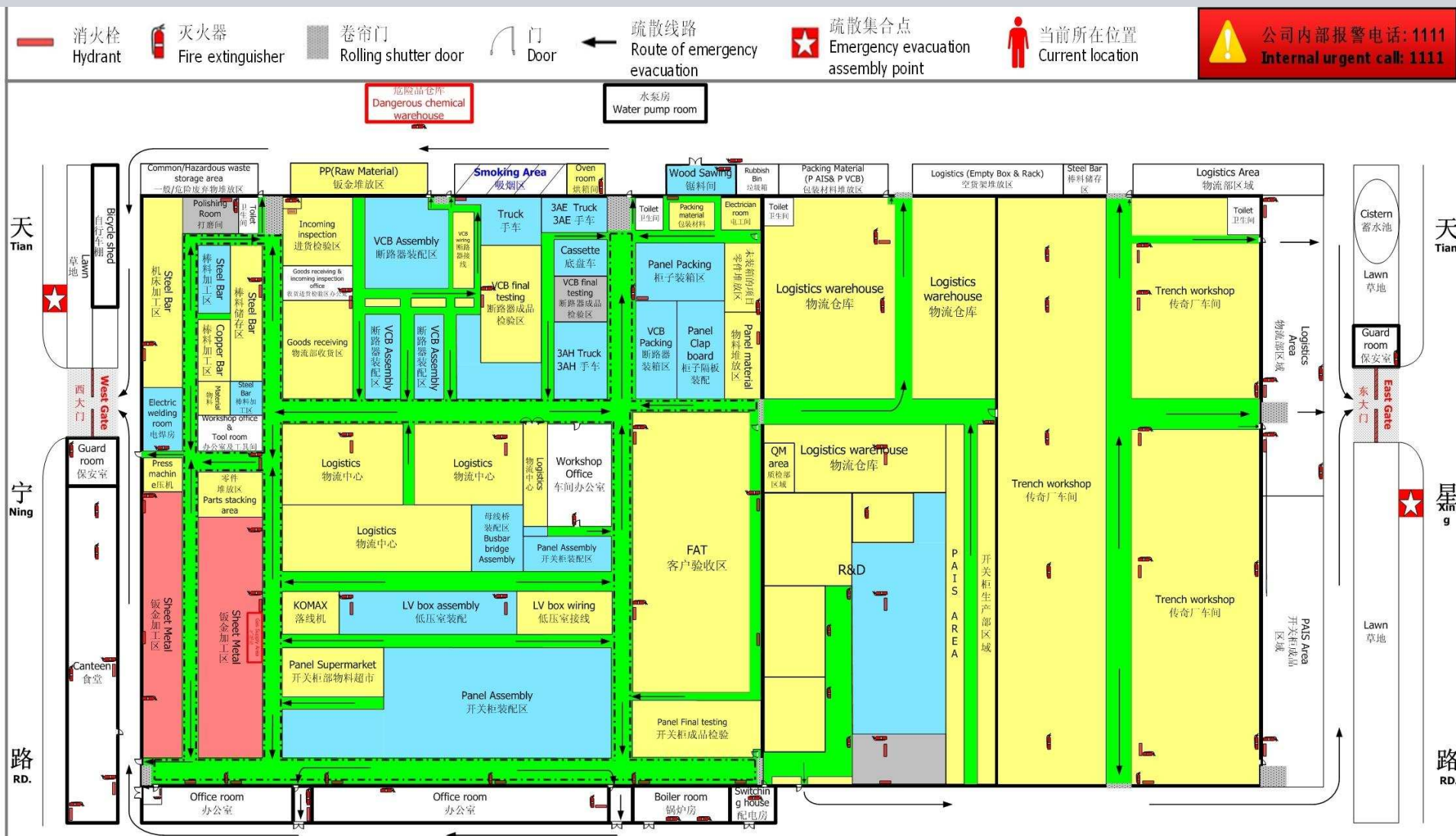
Modern Factory

SIEMENS



Factory Layout

SIEMENS



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Factory Production Process and Assembly Lines

SIEMENS



Metal production processing



VCB assembly line



Panel assembly line



Low voltage compartment assembly line

- As part of Siemens global R&D strategy, R&D center was set-up in 2004 at SSLS to share the latest technology in-phase with Siemens headquarter.



■ I-DEAS

3D CAD system is standard tools for designing, integrated with CNC process for parts production

■ Test lab

Development test is performed in house test lab to minimize testing loop of type testing processes.

■ SAP

Integrated system that interface between designing and production.

- More than 50 local experience engineers.

Our Products (AIS)

SIEMENS

Air Insulated Switchgear (AIS)- NXAirS

- Rated voltage up to 12kV
- Rated short-circuit breaking current up to 40kA
- Rated normal busbar currents up to 3150A
- Rate current of feeders and busbars up to 3150A
- Fully tested according to latest standard of GB3906,DL404 and IEC 62271-200/VDE0671-200
- Air insulated
- Withdrawable circuit breaker
- Compact and modular design with one tier.
- Suitable for public power supply systems, substations and industry



Typical customers

- Beijing PSB Retrofitting
- Shanghai Lujiazui Trade X2 Zone
- Shanghai Expo (China Pavilion, Expo Axes, Expo Performance Center, Expo Center, Expo Theme Pavilion etc.)
- Tianjin Railway Station Retrofitting
- Shenzhen Airport
- Handan Iron & Steel

Our Products (AIS)

SIEMENS

Air Insulated Switchgear (AIS)- 8BK20

- Rated voltage from 7.2 to 24kV
- Rated short-circuit breaking current up to 50kA
- Rated normal busbar currents up to 4000A
- Rate current of feeders and busbars up to 4000A
- Fully tested according to IEC Publication 298, PEHLA guideline and DIN VDE 0670
- Air insulated
- Withdrawable circuit-breaker
- Metal enclosed and metal clad with one tier
- Suitable for power stations, industry, offshore installations, pipelines and ship buildings.



Typical customers

- Beijing PSB
- Tianjin Olympic Center Gym
- Zhenhua Port Machinery
- Fujian Refinery
- Jingtang Iron & Steel, Capital Steel Group
- Shenzhen Mawan Power Plant

Our Products (AIS)

SIEMENS

Air Insulated Switchgear (AIS)- 8BK30

- Rated voltage from up to 12 kV
- Rated short-circuit breaking current up to 50kA
- Rated normal busbar currents up to 4000A
- Rate current of feeders and busbars up to 400A
- Fully tested according to IEC Publication 298,PEHLA guideline and DIN VDE 0670
- Air insulated
- Withdrawable fuse and vacuum contactor combination
- Metal enclosed and metal clad
- Slim design with two tier
- Suitable for high voltage motors, transformers andn capacitors.



Typical customers

- Rizhao Harbor
- Shanghai Waigaoqiao Power Plant
- Shenyang Coal Mining Group
- Nanjing BASF

Our Products (AIS)

SIEMENS

Air Insulated Switchgear (AIS)- 8BK40

- Rated voltage from up to 17.5 kV
- Rated short-circuit breaking current up to 63kA
- Rated normal busbar currents up to 5000A
- Rate current of feeders and busbars up to 5000A
- Fully tested according to IEC 60298 and PEHLA guideline.
- Air insulated
- Withdrawable fuse and vacuum contactor combination
- Metal enclosed and metal clad
- Slim design with one tier
- Suitable for output control of generator and substations with large capacity.



Typical customer

- OMV Refinery Project in Austria
- Indian Essar Steel
- Italy Dow Chemical
- Saudi Arabia Iron & Steel Project

Our Products (VCB)

SIEMENS

Vacuum Circuit Breaker (VCB)- 3AE-SION

- Compact design suitable for different requirements of various switchgear up to 24kV
- Rated short-circuit breaking current to 40kA and rated current to 4000A.
- Modular design
- Mechanical life cycle is up to 30000 times.
- Insulated design and used of BMC pole shell.



Typical customer

- Capital Aripport in Beijing
- South Power Grid
- Nanjing Changjiang Tunnel
- Ahle Cement Project in United Arab Emirates

Our Products (VCB)

SIEMENS

Vacuum Circuit Breaker (VCB)- 3AH3

- Complete product range suitable for various requirements of customer
- Rated short-circuit-breaking current to 50kA and rated current to 4000A.
- Complete type tested according to GB and DL standards
- Stable insulation performance
- Mechanical life cycle is up to 30000 times.
- Maintenance-free within 10000 operations under normal condition.



Typical customer

- Jinshan Petrochemical
- Beijing Metro
- China Aluminium
- Dafang Power Plant

Our Products (VCB)

SIEMENS

Vacuum Circuit Breaker (VCB)- 3AH5

- Suitable for different requirements of various switchgear up to 24kV
- Rated short-circuit breaking current to 31.5kA and rated current to 1250A.
- Complete type tested according to GB and DL standards
- Stable insulation performance
- Mechanical life is up to 30000 times.
- Maintenance-free within 10000 operations under normal condition.



Typical customer

- Dongguan PSB
- Tsinghua University
- Shanghai Coking and Chemistry Plant
- China Southern Airlines Base in Guangzhou

Our Products (VCB)

SIEMENS

Vacuum Circuit Breaker (VCB)- 3AH2-EP

- Embedded pole type and composite insulation
- Rated short-circuit breaking current to 40kA and rated current to 4000A.
- Complete type tested according to GB and DL standards.
- Mechanical life is up to 30000 times.
- Wide compatibility to exchange with local similar products.



Typical customer

- China Telecom
- Lianyungang PSB
- Vietnam Cement
- Sichuan Polysilicon

Existent Project in China

SIEMENS



Effective and Excellent Field Service

SIEMENS

**Professional and rich-experienced,
well-trained engineers.**

**Provide service throughout the entire
life cycle of Siemens switchgear and
VCB.**

**A service network based in Shanghai
and spotted in main cities make zero-
distance service possible**

Advanced VCB testing devices.

**Most advanced software for Siemens
protection system.**

**Customer service hotline--
8009881160**



Value Employees

SIEMENS

Talent Is Our Most
Valuable Property

Provide Excellent
Working Conditions

Employee Development
and Training Plan

Full Assessment System
and Internal Promotion

the Best Employees to
Serve Our Customers

Business Excellence by
People Excellence

Social responsibility and corporate citizenship **SIEMENS**

We are committed to environment protection. We view the three key factors—company development, environment protection and social responsibility as being equally ranked.



Our Focus

SIEMENS

The satisfaction of the customers is the pursuit of the Company forever.

Early and extensive supplier involvements/supply chain management is key to our success.

Continuous improvements and learning individuals and organizations cope with constant change.

Involvement of personnel is our main lever: Hire, train, develop, retain, reward first-class talents and teams.

We commit to the highest standards in our professional business behaviors.

生产车间内安全警示标识
Safety caution symbol in workshop



须穿安全鞋
Protective shoe



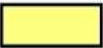
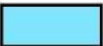
须戴防护耳塞
Ear protector/ Earplug



须戴防护眼镜
Protective goggle

Notice

SIEMENS

	黄：须穿安全鞋 Yellow: Wear Protective Shoe	
	红：须穿安全鞋及戴防护耳塞 Red: Wear Protective Shoe & Ear Protector/ Earplug	 
	蓝：须穿安全鞋及戴防护眼镜 Blue: Wear Protective shoe & Goggle	 
	灰：须穿安全鞋，戴防护眼镜和耳塞 Grey: Wear Protective shoe, Goggle & Earplug	  

进入以上四类车间生产区域，**禁止**穿拖鞋，短裤，裙子及露趾凉鞋
Slipper, short pants, skirt and peep-toe sandal are **prohibitive** when entering aboved 4 kinds of work areas

	绿：人行通道，可不穿戴防护用具及不受穿着限制 Green: Walking channels, wearing safe protector is not mandatory. No limitation to costume
	黑：主参观通道，可不穿戴防护用具及不受穿着限制 Black: Main visiting channels, wearing safe protector is not mandatory. No limitation to costume

**Thanks for your cooperation and
wish you enjoy your tour.**