



**QUALITY,
ECONOMY,
QUICK DELIVERY**

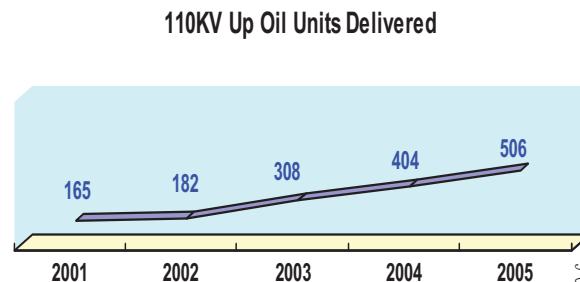
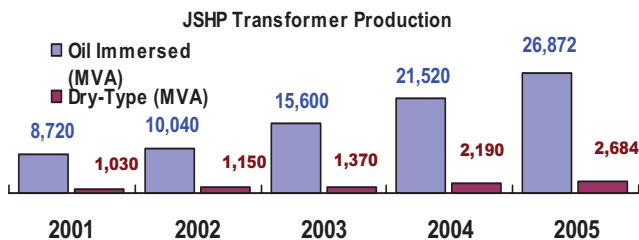
JSHP

Transformer

Feb. 2009

Quick Facts

- **Founded in** 1967
- **No. of employees:** 2000
- **Revenue in 2008:** US\$753.73 millions
- **Delivered MVA in 2008:** 59,235 MVA
- **Average order production time:** < 6 Months (ARO)
- **110KV & up units delivered 2008:** 823
 - 110KV below delivered: 5,517 units in 2008
- **Manufacturing Capacity:** 80,000 MVA up to 500kV
- **Zero field failure rate record since delivered first transformer in 1970 with thousands of units around the**



Market Position



- Tops the 2005,2006,2007,2008 Top 10 Chinese Transformer Manufacturers
- Has 28% of 110KV-220kV market in last 3 years in China

2007 Top Ten China Transformer Manufacturers **China 110kV-220kV Market** 2007

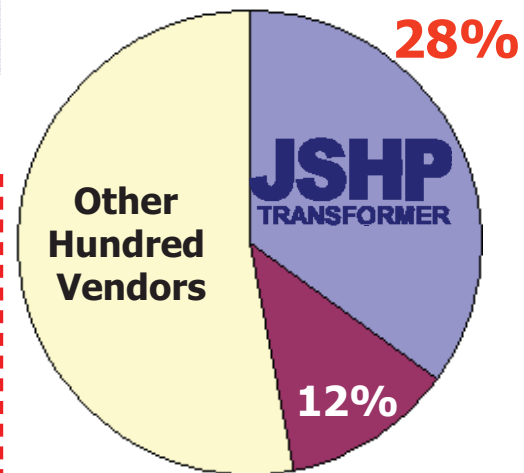
Published on May 20, 2008

Order	Manufacturer	Sales in US dollars
1	Baoding Tian Wei Baobian Electric Co. Ltd. (BTW Transformer)	\$442,047,143
2	JSHP Transformer	\$433,965,714
3	Xian XD Transformer	\$381,572,857
4	TBEA Hengyang Transformer	\$331,707,143

2006 Top Ten China Transformer Manufacturers

Published on May 21, 2006

Order	Manufacturer	Sales in US Millions	Profit in US Millions
1	JSHP Transformer	\$305.81	\$16.04
2	Xian Xidian Transformer	\$258.77	\$17.15
3	BTW Transformer	\$256.50	\$28.79



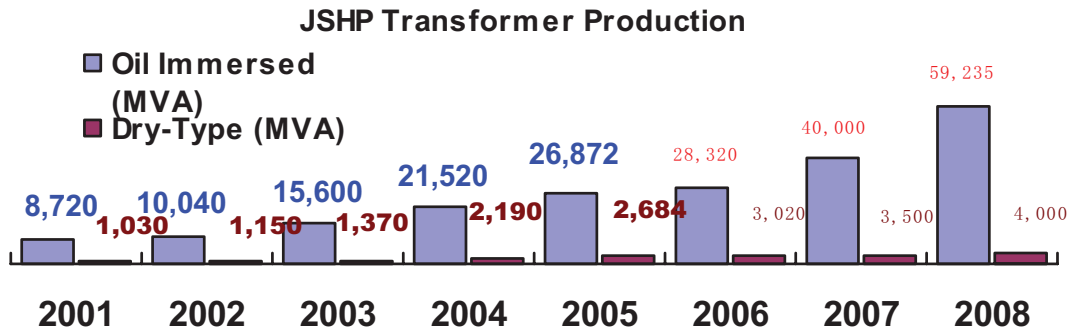
Adobe Acrobat
Document



By Jim Y Cai

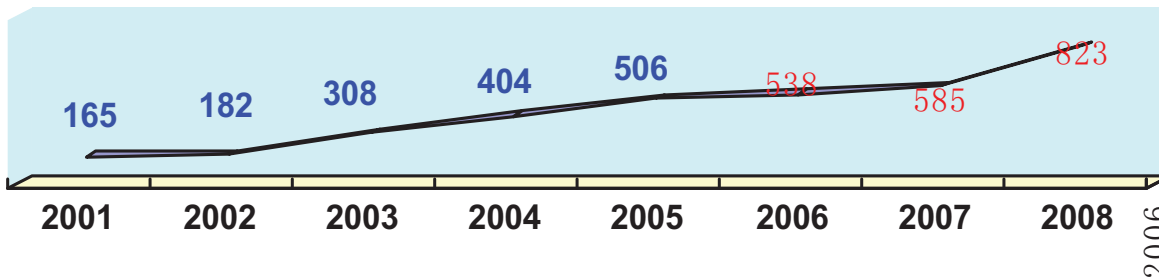
Stable and Strong Growth

- A completely private company under the same management team for over a decade



- Delivered hundreds of 110KV & up units per year

110-345kV Oil Units Delivered



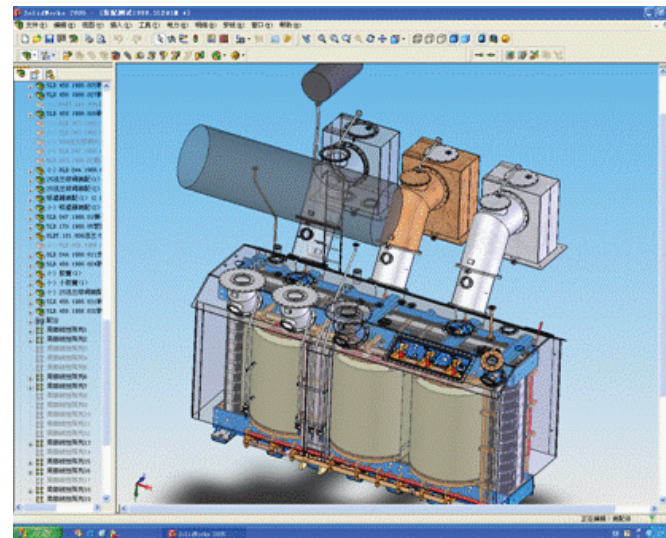
Product Line

- **Oil-Immersed Transformers**
 - Up to 345KV, 400 MVA
 - 500 kV, 800 MVA in 2009
- **Cast-Resin Transformers**
 - Up to 35KV, 20 MVA (delivered 3,128 units in 2008)
- **Single Phase Pole-top Transformers**
 - 10KV/230V, 10kVA-160 kVA
- **Radiator Production**
 - Annual Production: 10,000 tons



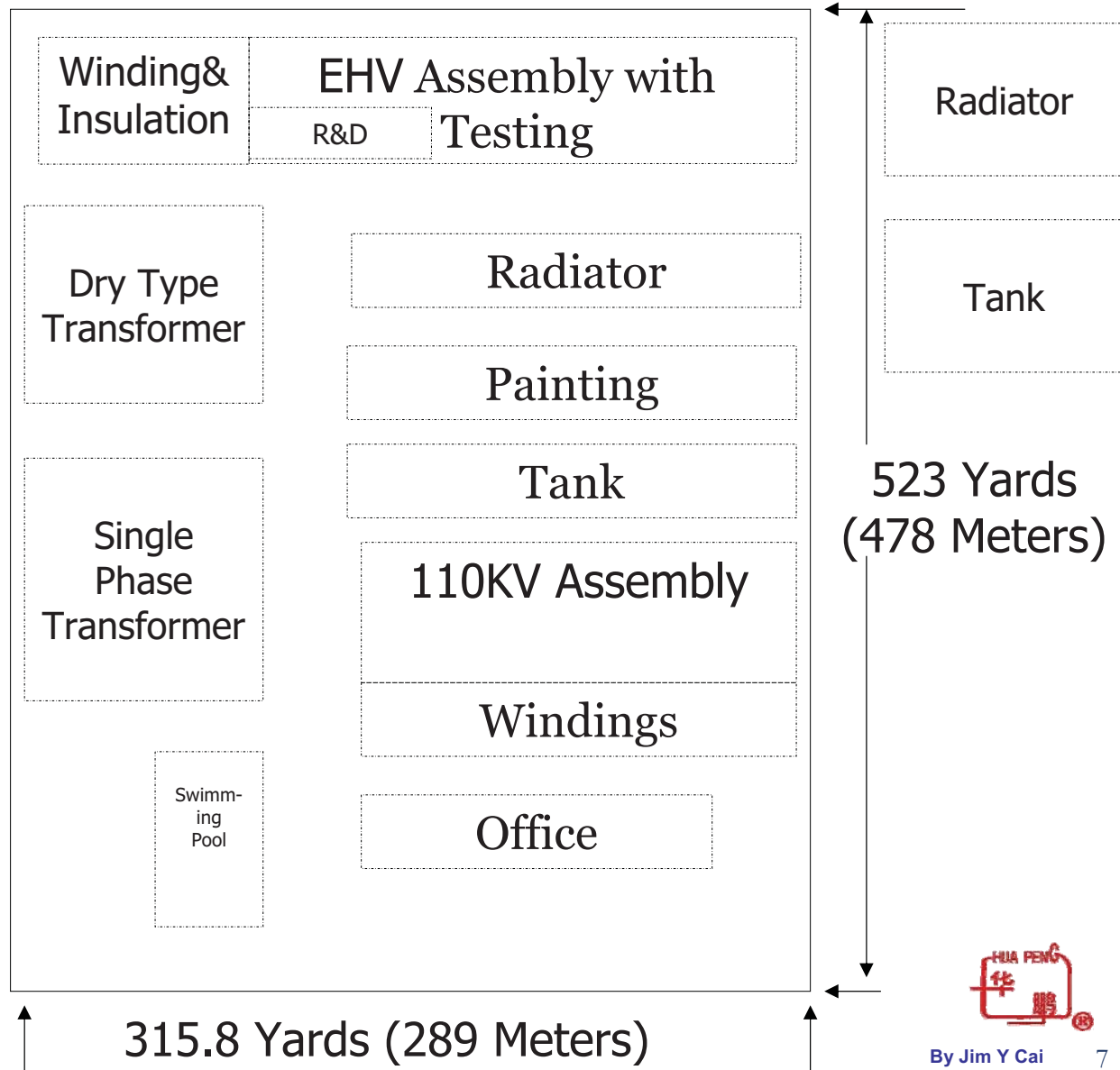
Engineering

- R&D has more than 60 full time staff
- With design & simulation software



JSHP Campus Layout

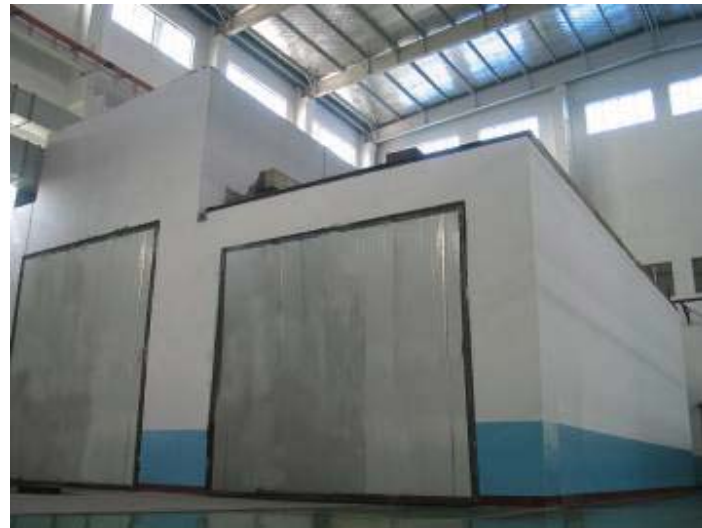
- 44 acres
- < 2 miles to highway
- < 3 hours to Port of Shanghai
- 1.5 million square feet of factory space



JSHP Campus



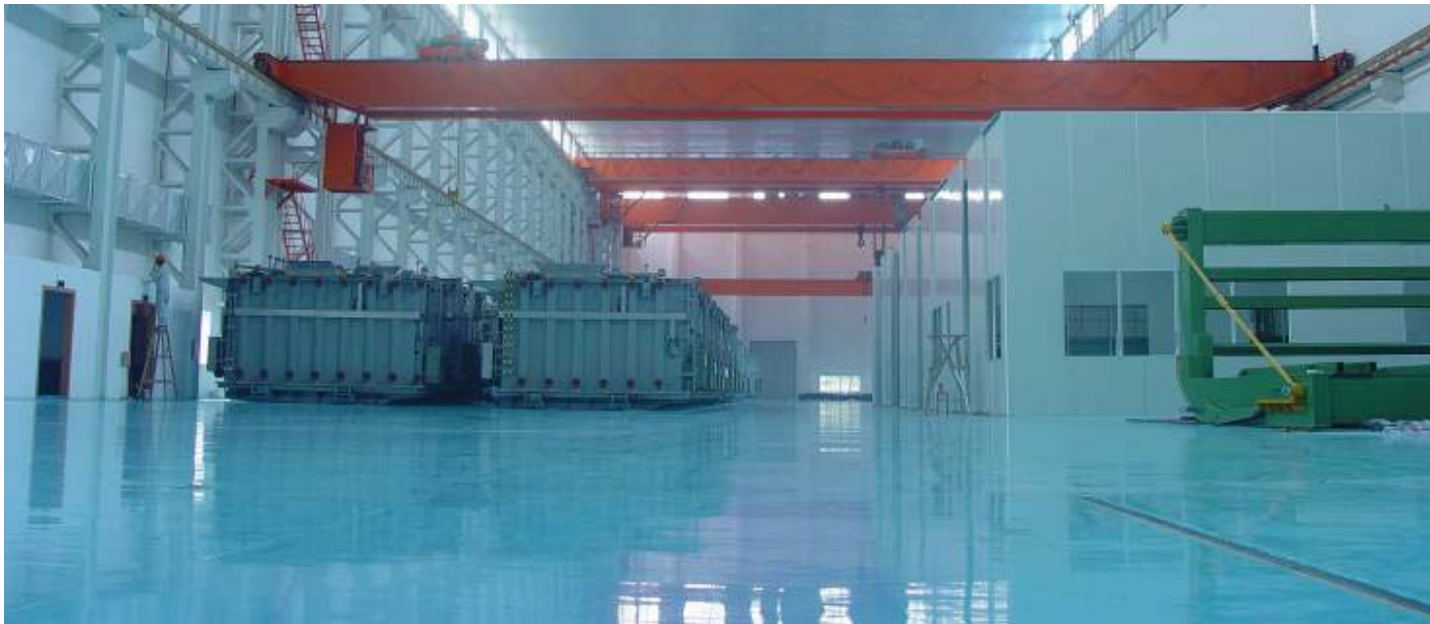
New Tank Shop Cross Street



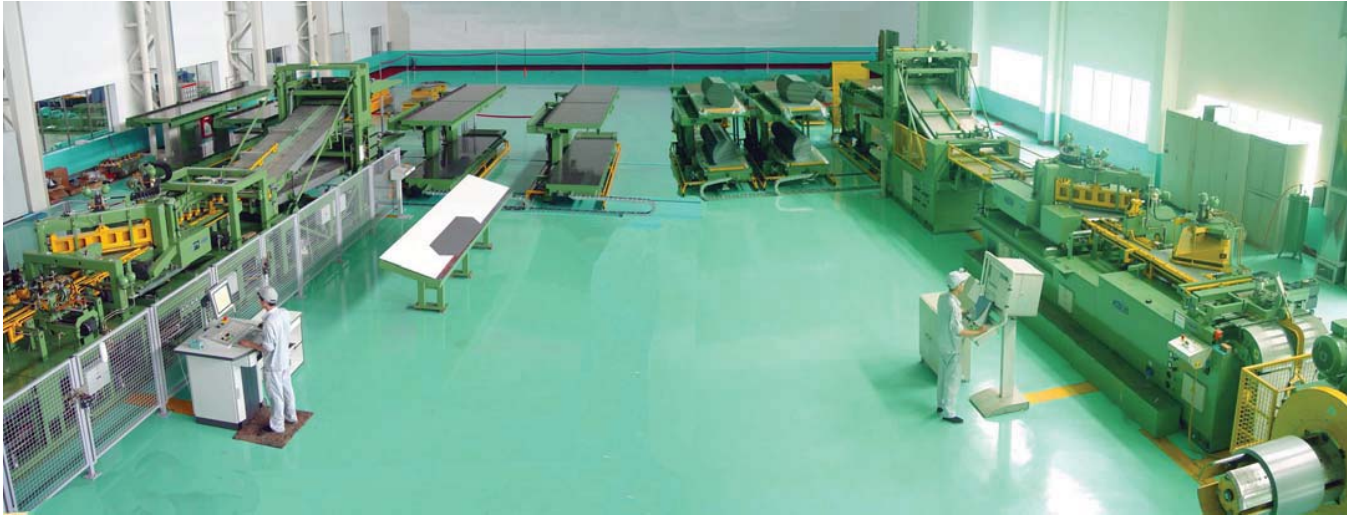
JSHP State-of-the-Art Facility

• Typical Factory Space Equipment Setup

- Special enclosed A/C workshops
- 200&100 ton travel cranes in different factory spaces
- Two Georg's slitting lines
- Two Georg's length cutting lines
- 120 ton swiveling device
- Each factory space has its own dry-out furnaces
- 12 winding machines in each factory space



Georg's Cutting & Slitting Lines



Core Stacking



120 tons

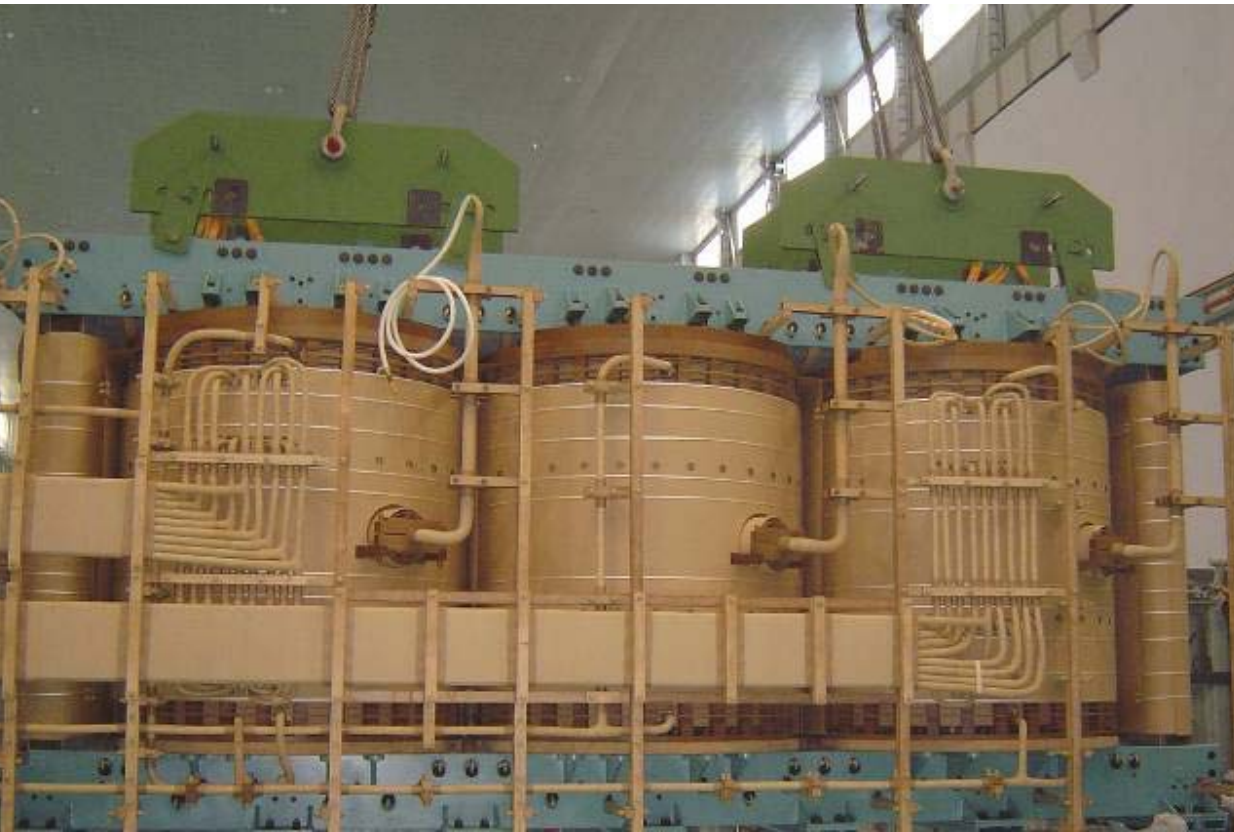


The Winding Machines

- A dozen winding machines including LAE (Italy)

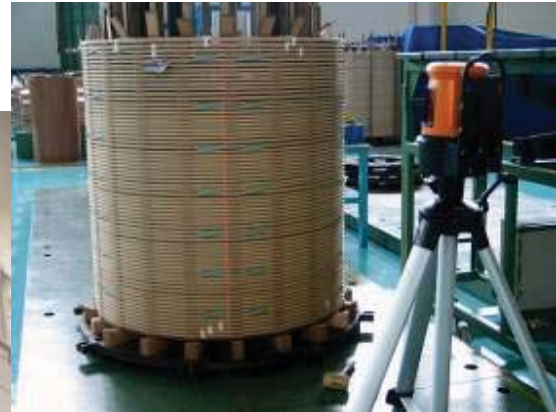


Workmanship



Drying Machines – Vapor Phase

**Guarantee to be tanked
in 6 hours or less after drying**



Testing

- 3000 KV, 300 KJ Impulse Generator
 - 60 Hz Generator



Quality Control - Zero Failure Rate

Maintain excellent record with growth

Year	110kV & up Units	Test Failures	Total Test Failure Rate	Of Component Failures	Misc. Test Failure Rate	Field Failure Rate
2001	165	8	4.85%	4	2.42%	0.00%
2002	182	9	4.95%	4	2.75%	0.00%
2003	308	13	4.22%	7	1.95%	0.00%
2004	404	10	2.48%	7	0.74%	0.00%
2005	506	9	1.78%	6	0.59%	0.00%
2006	538	11	2.04%	8	0.56%	0.00%
2007	595	10	1.68%	7	0.51%	0.00%



ISO9001-1996



ISO14001-2001



OHSAS18001-2004



References (1) – Shanghai

- **“Upstairs” Radiator Installation**

- 35kV \pm 3 \times 2.5% / 10.5kV 20MVA, ONAN
- Tap Changer: ABB
- Caoyang Substation, Shanghai
- Commissioned: June, 2003



References(2) – Low noise < 52dB

- 110kV \pm 8x1.25% / 10.5kV, 40MVA
- Cooling: ONAN
- On-load tap changer: MR
- Jiangsu Province, China
- Commissioned: March, 1999
- The noise level < 52dB



References(3) – 110KV/180 MVA

- 110kV $\pm 8 \times 1.25\%$ / 38.5kV $\pm 2 \times 2.5\%$ / 10.5 kV
- Capacity: 180MVA Cooling: ONAF
- On-load Tap Changer: MR
- Jincang Group, Gansu Province, China
- Commissioned: Dec. 2005



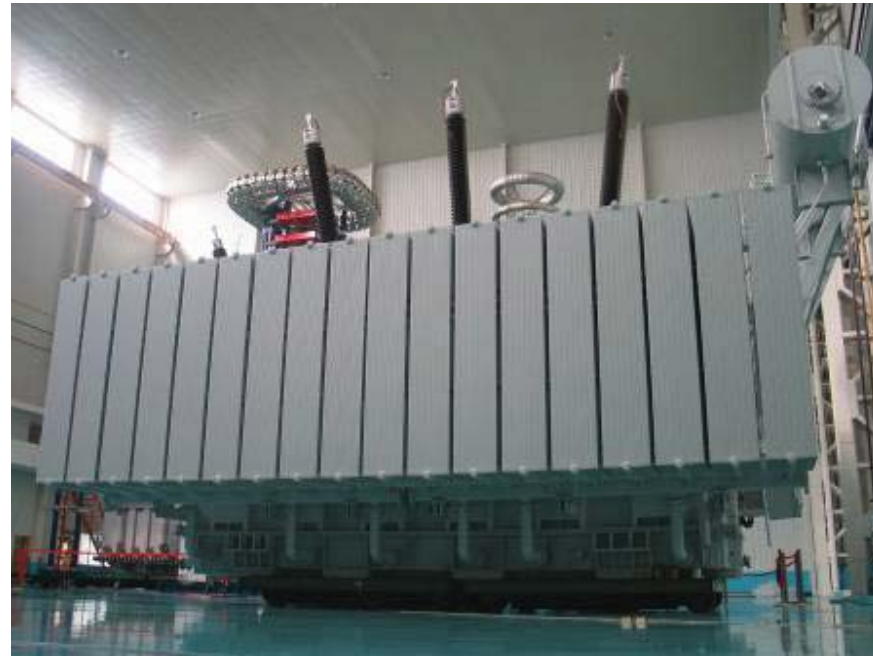
References(4) 220KV/180MVA

- 220kV $\pm 8 \times 1.25\%$ / 110kV $\pm 2 \times 2.25\%$ / 38.5kV, 1050KV BIL
- 180MVA Cooling: ONAF
- On-load tap changer: MR
- Chating substation, China
- Commissioned: Dec. 2006
- **Passed the short-circuit test**



References(5) 220KV/240MVA

- 220kV $\pm 8 \times 1.25\%$ / 118kV / 37.5kV
- 240MVA Cooling: ONAN
- Suzhou substation, China
- Passed the China State Grid's Certification



References(6) OEM to GE

- 115kV $\pm 2 \times 2.5\%$ / 10.5 kV
- 52MVA Cooling: ONAN
- GE oil & Gas ENEL GREEN POWER
- Conducted and Passed a Short-Circuit Testing
- Commissioned: Sept. 2006



Another One:

69kV $\pm 2 \times 2.5\%$ / 13.8kV
25 MVA, 60Hz
San Diego County
Water Authority
Delivered March, 2006



Come & Visit – 2:00 hours extra flight

- 2:00 hours flight from Seoul, Korean Airport
- 30 Minutes Drive from Nanjing Intl. Airport
- 3:00 Drive from Shanghai Intl. Airport



JSHP Service in North America

1. JSHP has made a serious commitment to the North American market with a Marketing & Service Office in California.
2. JSHP has a service agreement with North American Substation Services (NASS) for NASS to provide prompt support.
3. JSHP commits **72 hour response time** on service in US.



JSHP in North America

- Passed Vendor Pre-qualification



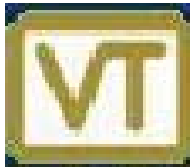
- Users



The Factory Floor Video @ YouTube

OPEN TO THE WORLD

Who visited JSHP:



**KUHLMAN
ELECTRIC**

FAUKESHA®

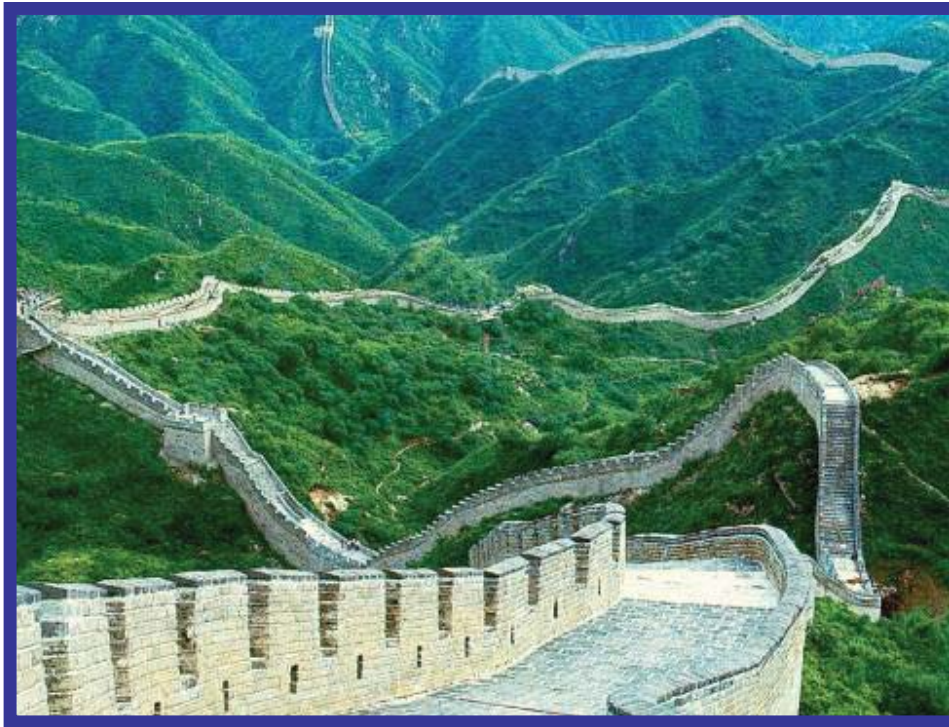
 **PROLEC**

SIEMENS

In Learning Mood Always !



Really Appreciate Your Time



Something Built in China Long Time Ago Still Stands

