



About Us

PLUTOTECH is a Thailand based industrial electromechanical service company, established in 2004, Presently our services are covering nationwide and Southeast Asia in several industrial sectors;

Our stand is clear; we make our customers be the champion of their accountability.









WE EMPOWER PERFORMANCE



Vision

WE MAKE EVERYONE TRUSTS AND WINS THE GAME OF PERFORMANCE

We exist on our experts and creativity in our solution and service business of electro-mechanical systems that make everyone trust and wins the game of performance.





Mission

Our mission is to provide creative and trusted solutions and services. by our expertise in area of electro-mechanical systems to main industries, power plants, energy electric transportations and utility owners, across the AEC.

WE ARE COMMITTED TO CREATE VALUES,
HAPPINESS AND MAKE DIFFERENCES
TO OUR COMMUNITIES AND
STAKEHOLDERS.





Quality Policy

เป็นความครบถ้วนสมบูรณ์และถูกต้องตั้งแต่แรก เพื่อจริยธรรมและความสุขของลูกค้า และผู้มีส่วนร่วมในธุรกิจของเรา

Being complete and being right at the first time, ethically Customer and Steak-Holder happiness is our Ultimate Goal!





PLUTOTECH COMPANY

3 MAIN SERVICE CENTERS

250 SKILLED TECHNICIANS AND ENGINEERS.

5,000 SQM. WORKSHOP AREAS, 6 X20+4X5 TONS OVERHEAD CRANES (IN 3 STRATEGIC LOCATIONS)

YEAR 2004

YEAR 2012

YEAR 2014

YEAR 2017

Consolidation
(share holders) and
renamed to
Plutotech Company
limited

PLUTOTECH KHONKAEN-CENTER

Established
PlutotechRayong-Center

ESTABLISHED

PLUTOTECH MALAYSIA

REPRESENTATIVE

OFFICE



SPECIAL FACILITIES

- 3m x 6.5 m tank-VPI Plant
- High voltage coil making shop
- Wire Arc Spray & HVOF-Metalizations
- Sand blasting and Glass Bead
- 3x 3 tons, 10 tons and 20 tons Dynamic Balancing Machines.













SPECIAL FACILITIES

- 3m x 6.5 m tank-VPI Plant
- High voltage coil making shop
- Wire Arc Spray & HVOF-Metalizations
- Sand blasting and Glass Bead
- 3x 3 tons, 10 tons and 20 tons Dynamic Balancing Machines.

RAYONG WORKSHOP





SPECIAL FACILITIES

- 3m x 6.5 m tank-VPI Plant
- High voltage coil making shop
- Wire Arc Spray & HVOF-Metalizations
- Sand blasting and Glass Bead
- 3x 3 tons, 10 tons and 20 tons Dynamic Balancing Machines.

KHONKHAEN WORKSHOP





Services Scope

Predictive and condition based. Failure analysis and Resolutions

Repair and Maintenance

Engineering servicesand solutions

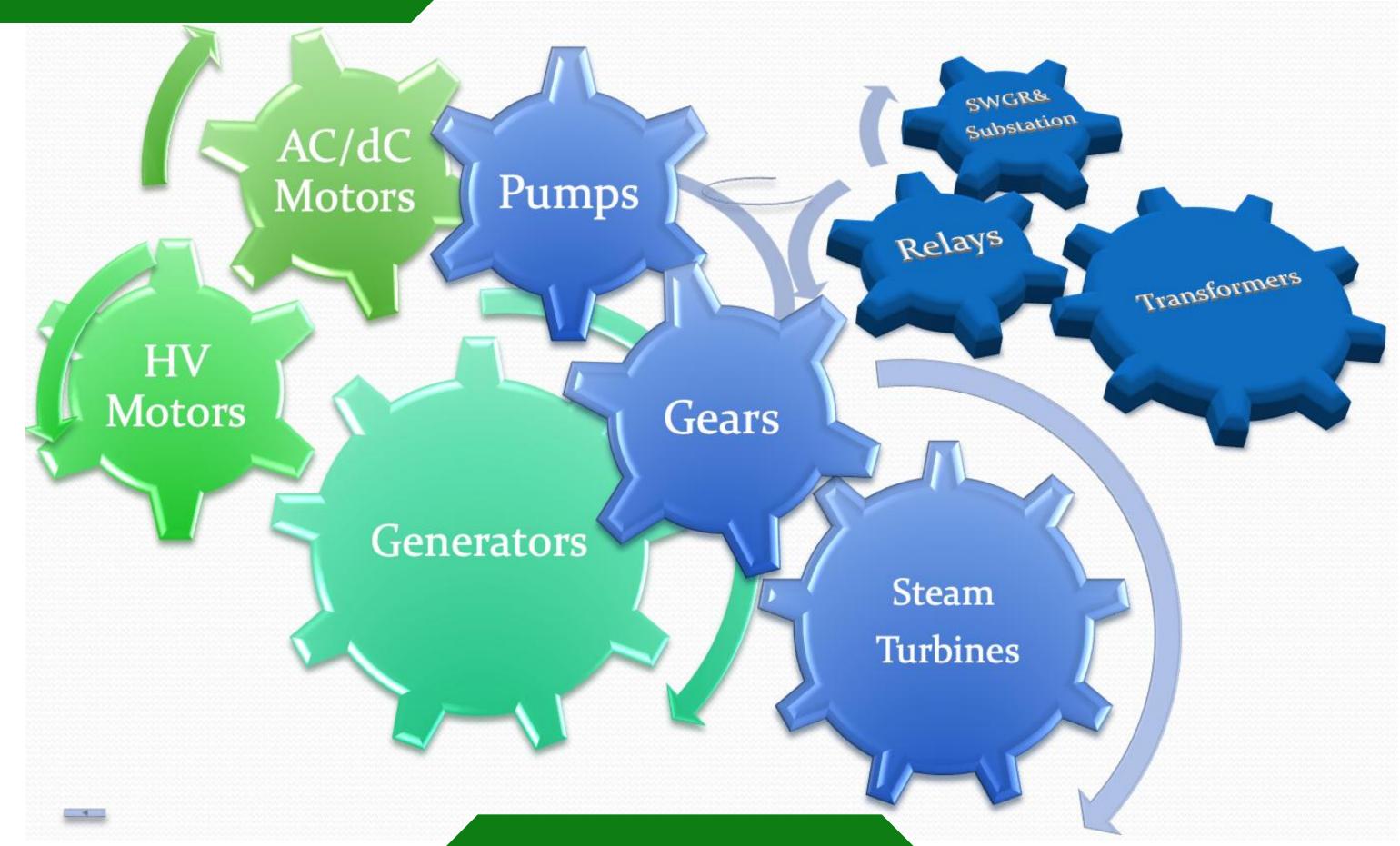
Installation projects

Test & Commissioning

Modification
Upgrading
Rehabilitation

New Supply
Spare parts
Service Contracts







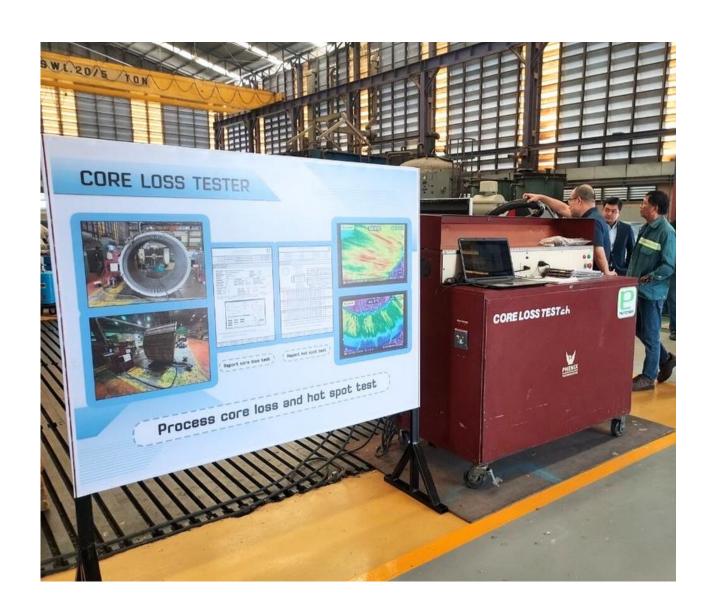
WORKSHOP AREA TESTING STATION



HV 12 KV SURGE COMPARISON TESTER& 12KVDC HIPOT



HV AC HIPOT TESTER 24



CORE LOSS TESTER



WORKSHOP AREA MECHANICAL FITTING AREA







WORKSHOP AREA MACHINING & MILLING AREAS











WORKSHOP AREA DYNAMIC BALANCING

DYNAMIC BALANCING M/C







3 Tons 10 Tons 20 Tons



WORKSHOP AREA ELECTRIC DRY-OUT OVENS





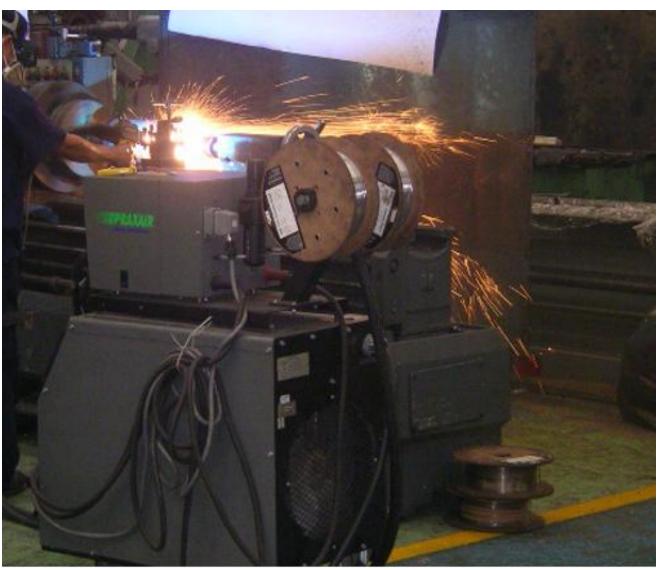
Auxiliary unit = 2x2x2 M3

Main unit = 4x4x4 M3



WORKSHOP AREAwire arc spray - METALLIZATION - LASER WELDING



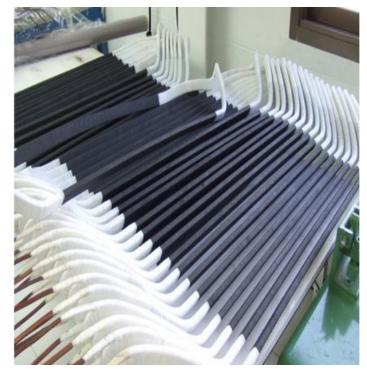






WORKSHOP AREA

HIGH VOLTAGE REWINDING







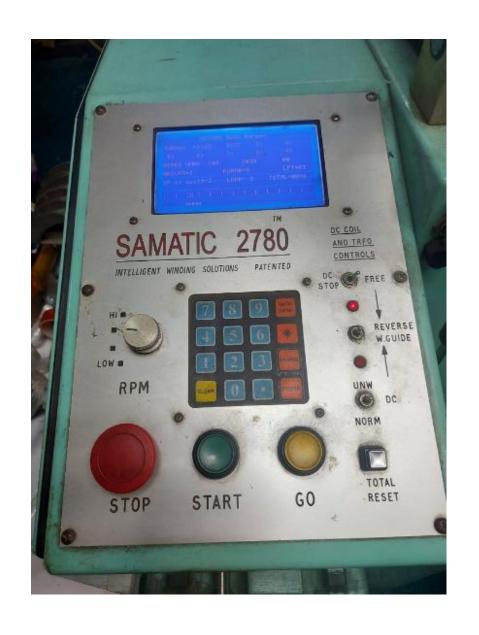






WORKSHOP AREA

LOW VOLTAGE REWINDING







PROGRAMABLE WINDING MACHINE

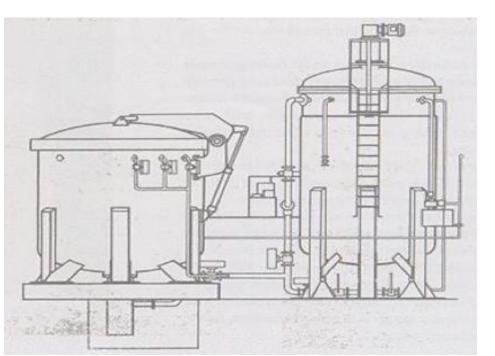


WORKSHOP AREA

VPI(Vacuum Pressure Impregnation) Plant









IMPREGNATION VACUUM TANK DIAMETER = 3.0 M, DEPTH = 4.5 M

RESIN: EPOXY RESIN-EPOXYLITE 578E

SINGLE COMPONENT EPOXY RESIN

PLANT CYCLE: 3 ALTERNATIVES

- LOW VOLTAGE WINDING
- HIGH TENSION WINDING
- 11 KV STATOR WINDING

VACUUM PROCESS CAPABILITY: 0.2 MILLI-BAR

TANK PROCESS PRESSURE=6 BARS

STORAGE TANK CAPACITY: 15,000 LITRES

COMMETS:

IT IS THE LARGEST VPI PLANT IN THAILAND AND SOUTH EAST ASIA



TOOL AND EQUIPMENT







ELECTRICAL TO<u>Ø</u>LS



QUALITY SYSTEM





•FOLLOW THE EASA MANUAL

FORELECTRICAL AND MECHANICAL

MACHINE SERVICE AND REPAIRING

· ISO9001:2015

· ISO45001:2018

AEMT-STANDARD PRACTICE





Certificate Number TH12/6552







QUALITY SYSTEM

IECEX CoC **Certified Service Facility** INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com Certificate No.: IECEx SIR S0023 Certificate history: Issue 1 (2021-12-13) Issue 0 (2014-08-21) Issue No: 1 Status: 2021-12-13 Date of Issue **Plutotech Company Limited** Rayong Branch 18/18 Charemphattana Road Huaypong Muang Rayong 21150 Repair and Overhaul according to IEC 60079-19 Type of Service: Type of Protection: Flameproof Enclosure "d", Increased Safety "e", Type of Protection "n" Scope of Service: Repair and overhaul of rotating machines to Ex d, Ex e and Ex n Locations covered by this Certificate **Plutotech Company Limited** Rayong Branch 18/18 Charemphattana Road Huaypong Muang Rayong 21150 Thailand Facility Audit Report: GB/SIR/FAR14.0003/00 GB/SIR/FAR14.0003/02 GB/SIR/FAR14 0003/04 GR/SIR/FAR14 0003/03 This certificate is issued as verification that the Service Facility and associated locations were assessed and found to comply with the IECEx Scheme requirements, reliating to the type and scope of service listed above. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 03 and Operational Documents as amended. Approved for issue on behalf of the IECEx Certification Body: Matthew Fielding Position: **Audits Team Manage** Signature: (for printed version) This certificate and schedule may only be reproduced in full. This certificate is not transferable and remains the property of the issuing body. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code. Certificate issued by: CSA GROUP" CSA Group Testing UK Ltd Unit 6, Hawarden Industrial Park Hawarden, Deeside CH5 3US

CERTIFICATION FOR EXPLOSIVE ATMOSPHERES

IEC EX COC
CERTIFIED SERVICE
FACILLITY



EASA MEMBER







MOTOR SERVICES

- MOTOR RUNNING CONDITION ANALYSIS
- MOTOR TROUBLE SHOOTING
- OVERHAUL
- REWINDING STATOR, ROTOR
- MECHANICAL REPAIRING, HOUSING, SHAFT, SLEEVE BEARING ELECTRICAL **TESTING**
- ROTOR DYNAMIC AND FIELD BALANCING
- MOTOR PROTECTION TESTING
- MOTOR INSTALLATION, ALIGNMENT AND **COMMISSIONING**





GENERATOR SERVICES

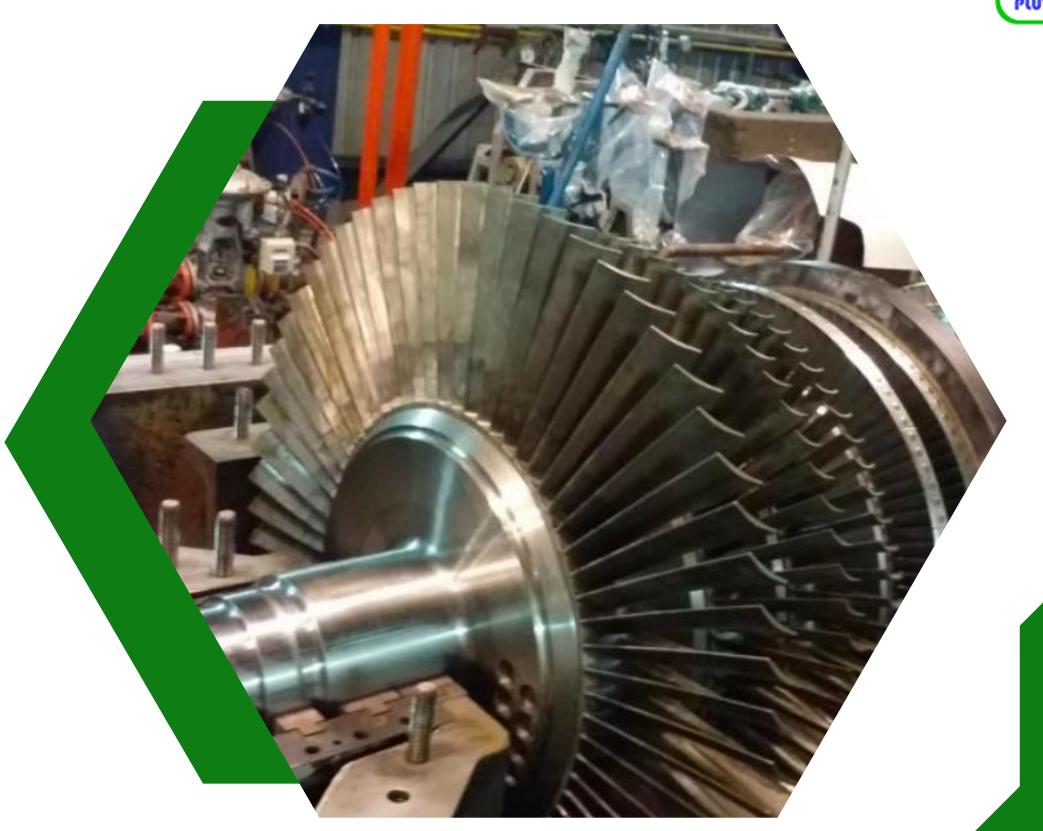
- GENERATOR RUNNING CONDITION
 ANALYSIS TROUBLE SHOOTING
- GENERATOR OVERHAUL
- REWINDING STATOR, ROTOR, EXCITER
 MECHANICAL REPAIRING
- COOLING MAINTENANCE AND TESTING ELECTRICAL TESTING
- DYNAMIC AND FIELD BALANCING
- AVR AND GENERATOR PROTECTION TESTING





STEAM TURBINE SERVICES

- MINOR INSPECTION
- MAJOR OVERHAUL
- ROTOR DYNAMIC BALANCING
- ROTOR RE-BLADING
- SHAFT JOURNAL AND BEARING
 REPAIRING
- TURBINE VIBRATION ANALYSIS AND TROUBLE SHOOTING
- INSTALLATION AND ALIGNMENT





ELECRIFICATION SERVICES

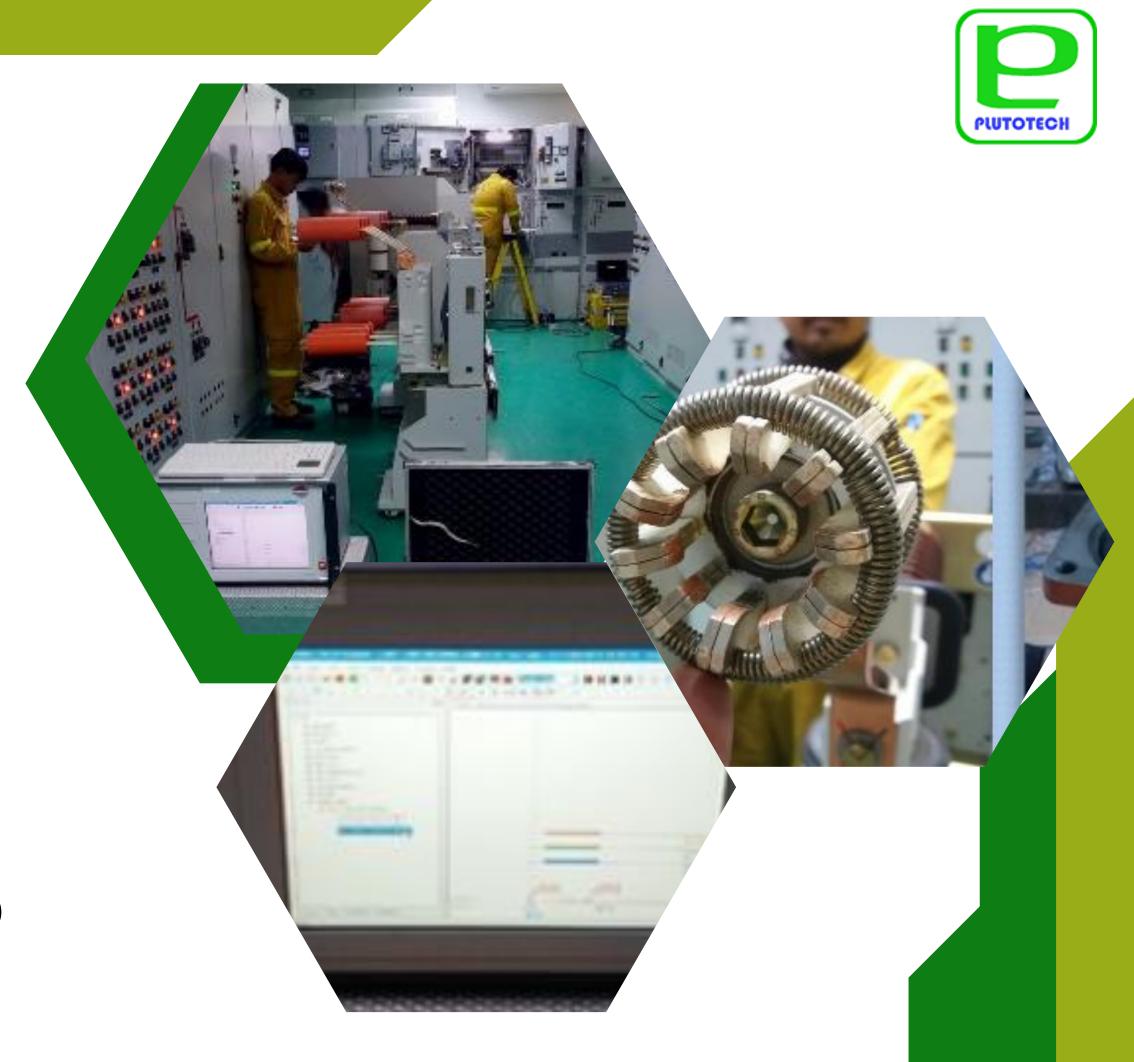
- DESIGN AND ENGINEERING POWER
 DISTRIBUTIONS
- SWITCHGEAR RETROFIT PROJECT
- MDB & MCC SWITCHGEAR DESIGN ENGINEERING AND SUPPLY
- MV SWITCHGEAR SUPPLY AND INSTALLATON SERVICE





SWITCHGEAR.

- PM AND CM
- ROUTINE MAINTENANCE AND TESTING; CLOSE-OPENED TIME, IR, CONTACT RESISTANCE
- REPAIR/REPLACE ELECTRO- MECHANICAL COMPONENTS
- COMMSSIONING TEST AND SPECIAL TEST
- FUNCTION AND OPERATING CLOSE-TRIP TEST
- CONTACT RESISTANCE TEST
- IR, HIPOT TEST
- INSULATION POWER FACTOR TEST (TAN-DELTA)





ELECRIFICATION SERVICES

TRANSFORMER

POWER AND DISTRIBUTION TRANSFORMER MAINTENANCE, SERVICE AND COMMISSIONING-TESTING

- OIL SAMPLING FOR DGA AND BREAKDOWN TEST
- OIL FILTRATION AND PURIFY MAINTENANCE TESTING
- COMPONENT REPAIRING
- ONSITE AND WORKSHOP OVERHAUL
- INSULATION POWER FACTOR AND HIPOT TEST
- COMMISSIONING TEST WINDING AND WINDING
- INSULATION, RATIO, VECTOR- GROUP, INSULATION POWER FACTOR TEST
- OIL SAMPLING FOR DGA AND BREAKDOWN TEST
- OIL FILTRATION AND PURIFY





ELECRIFICATION SERVICES

PROTECTIVE RELAY

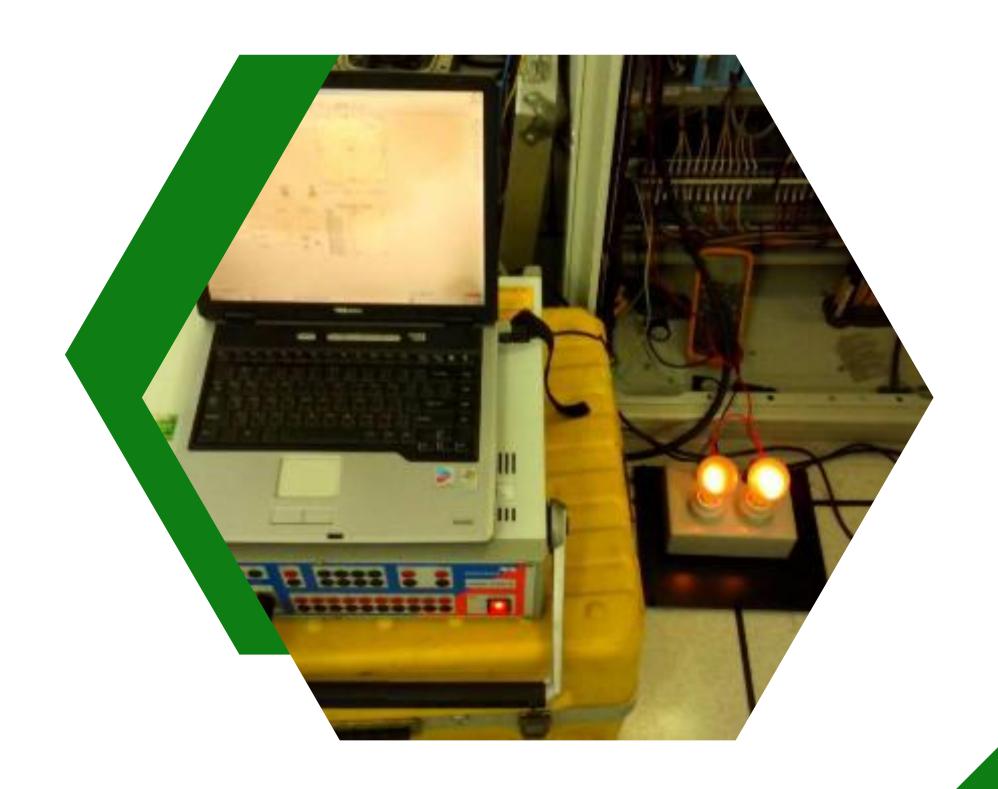
CALIBRATION AND TESTING

- Characteristic test
- Service setting test
- Trip/alarm function test
- Calibration and repairing

UPGRADE AND REPLACEMENT

NEW INSTALLATION

RELAY CO-ORDINATION

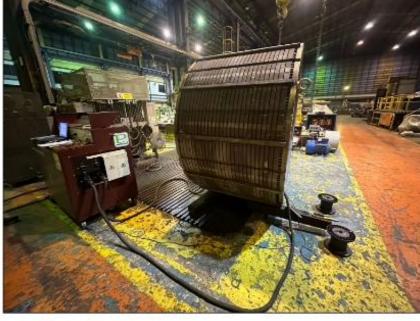






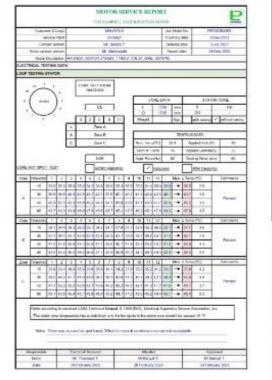
CORE LOSS TESTER





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CTPSON, TEST				
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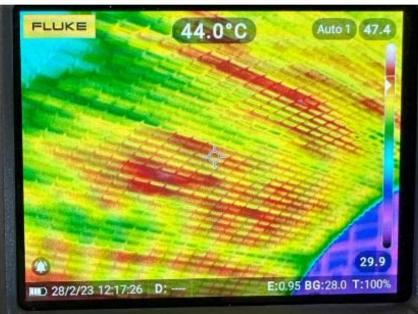


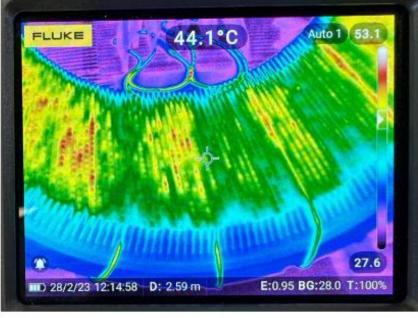
Report hot spot test

MALAKOFF POWER BERHAD

Process core loss and hot spot test











EFD HF INDUCTION HEATER







ขนาด: กว้าง**x**ยาว 120x150 cm.



PANJAPOL PULP INDUSTRY PUBLIC COMPANY LIMITED

Remove bearing





ขนาด: กว้าง**x**ยาว 120x150 cm.



MALAKOFF POWER BERHAD

After coil placement and Circuit Connection





ขนาด: กว้าง**x**ยาว 120x150 cm.



MALAKOFF POWER BERHAD

Manufacture coil – Completed coil







COILS MANUFACTURING PRODUCTS



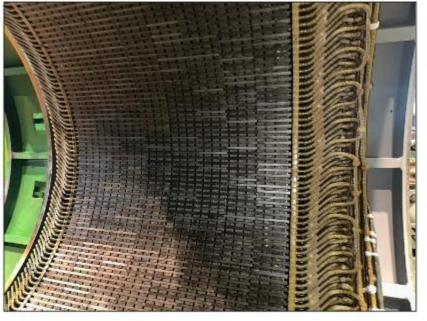












Reference: Customer











































GPSC

















Some - Reference

THE MOTOR STATOR REWINDING AND GLOBAL VPI (YEAR 2022): 4220KW, 11000V

Plant: Jimah O&M Sdn Bhd. / Jimah Power Plant, Malaysia







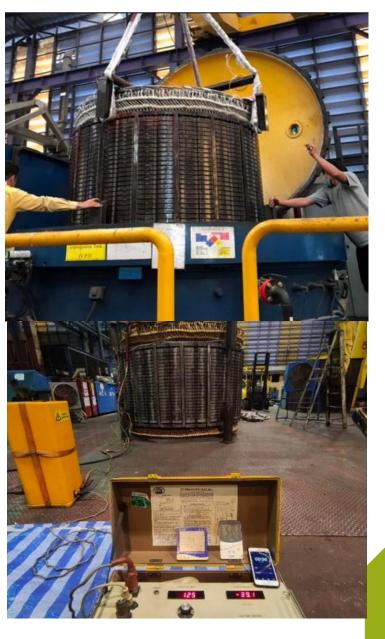




THE MOTOR STATOR REWINDING AND GLOBAL VPI (YEAR 2022): 4150KW, 11000V Plant: MALAKOFF POWER BERHAD / Tanjung Bin Power Plant, Malaysia









THE MOTOR STATOR REWINDING AND GLOBAL VPI (YEAR 2023): 2750KW, 11000V

Plant: MALAKOFF POWER BERHAD / Tanjung Bin 4, Malaysia

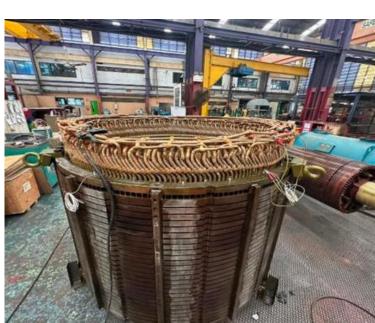














RESTACK & REWIND STATOR (YEAR 2023): ELIN Motoren: 12000KW, 11000V

Plant: Linde (Thailand) Public Company Limited









RENEW SHAFT & REWIND STATOR, ROTOR (Y2019): "ABB" 2100KW.6600V.

Plant: The Siam Cement (Kaeng Khoi) Company Limited













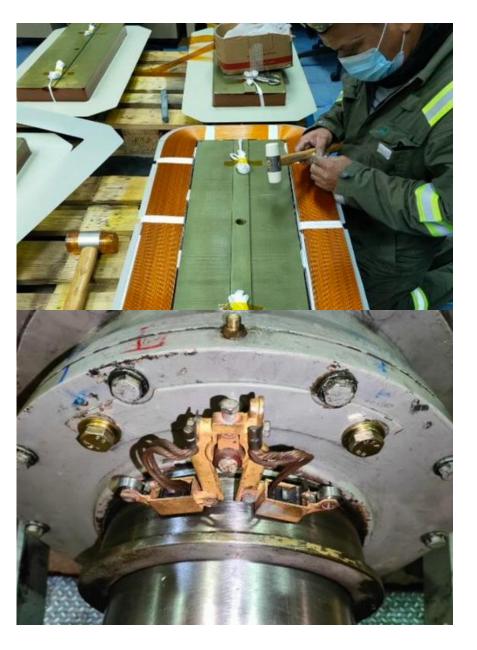


REWIND STATOR DC MOTOR (Y2022):DC MOTOR 1650KW.

Plant: POSCO-Thainox Public Company Limited









AC GENERATOR OVERHAULED (Y2022): "MITSUBISHI" 750KVA.PRI.3300V

Plant: Mae Sariang hydroelectric power plant project





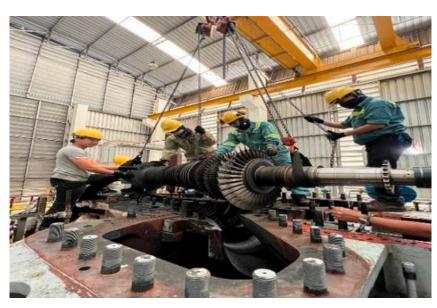
AC GENERATOR OVERHAULED (Y2021): NEWAGE STAMFORD 540/432KVA/KW., PRI.400V. Plant: Mae Haad hydroelectric power plant project (Chiang Mai)

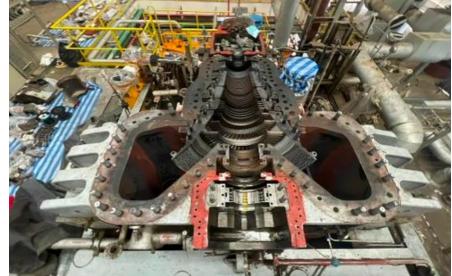




MAJOR OVERHAULED GENERATOR & STEAM TURBINE (YEAR 2023): 9.9MW

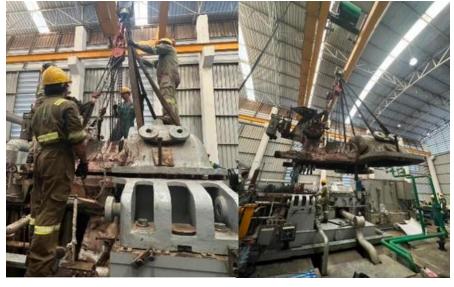
Plant: โรงไฟฟ้าพลังงานสะอาดเถิน















MAJOR OVERHAULED GENERATOR & STEAM TURBINE (YEAR 2023): 40MW Plant: PANJAPOL PAPER INDUSTRY COMPANY LIMITED















MAJOR OVERHAULED GENERATOR & STEAM TURBINE (YEAR 2023): 7.5MW Plant: UNITED PAPER PUBLIC COMPANY LIMITED













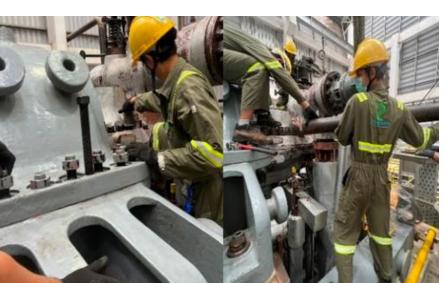


MAJOR OVERHAULED GENERATOR & STEAM TURBINE (YEAR 2022): 9.9MW

Plant: โรงไฟฟ้าพลังานสะอาดบ่อพลอย













MAJOR OVERHAULED GENERATOR & EQUIPMENT REPAIR (YEAR 2018): 12.5MW Plant: E-SAAN SUGAR INDUSTRY CO.,LTD. (KALASIN)















Overhaul and Replace New Turbine Rotor, Overhaul Reduce Gearbox (YEAR2016): 10 MW Plant: Tha Chang Oil Palm

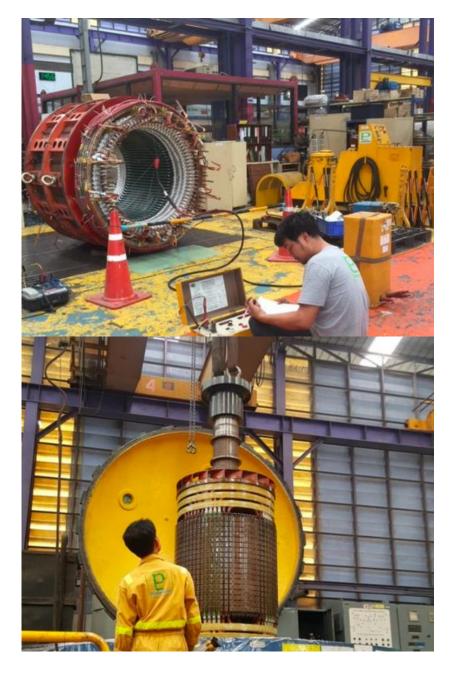


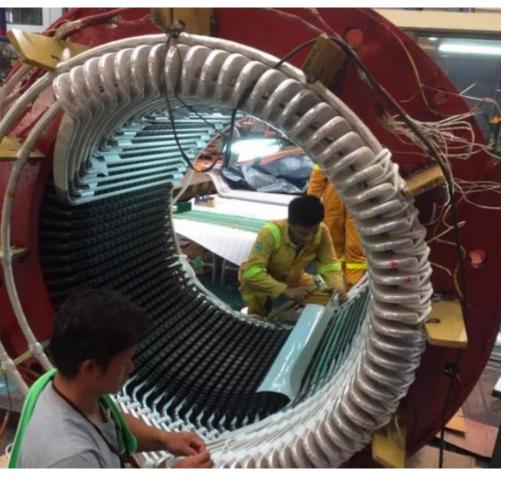






MAJOR REWIND NEW COIL AND VPI INSULATION SYATEM GENERATOR (Y2017): 9.9 MW Plant: ADVANCE POWER CONVERSION CO.,LTD. (SITE: R-EEP)











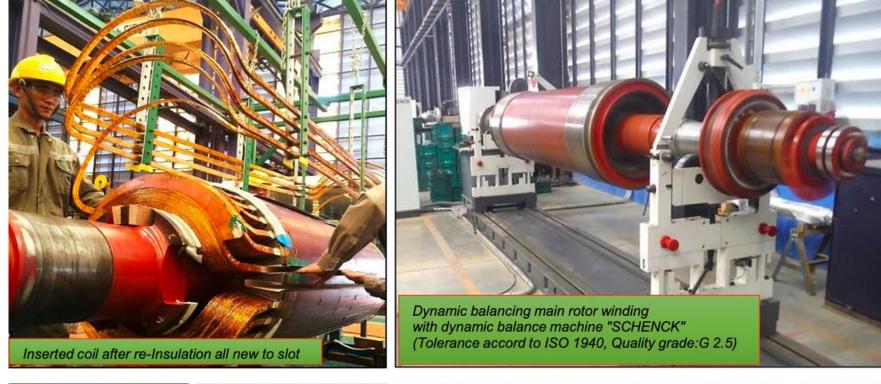
MAJOR REWIND NEW COIL AND VPI INSULATION SYSTEM (Y18): 11.8 MW Plant: UWC AMPHAN BIOMASS COMPANY LIMITED





RE-INSULATION MAIN ROTOR WINDING OF GENERATOR (Y16): 10 MW

Plant: ABB













Contact Us

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