



PLUTOTECH COMPANY LIMITED

64MOO5 PAHOLYOTHIN ROAD., HUAYBONG, CHALERM PRAKIAT
SARABURI 18000, Thailand
TEL. +66 36 - 275 353 to 55 FAX. +66 36 - 275 338
Website : www.plutotech.co.th , E-mail : sales@plutotech.co.th

HQ: SARABURI

KHONKAEN

RAYONG

MALAYSIA



PLUTOTECH Company Presentation

About **PLUTOTECH**

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**



About **PLUTOTECH**

We are in **electro-mechanical
service industry**

we provide variety maintenance-services,
engineering-services and engineering
solutions

to our OEMs, industrial plants, power-
utilities and large commercial buildings
workshop based and field service based.

About **PLUTOTECH**

3 MAIN SERVICE CENTERS
250 SKILLED TECHNICIANS AND ENGINEERS.
5,000 SQM. WORKSHOP AREAS, 6 x20+4x5 TONS OVERHEAD CRANES (IN 3 STRATEGIC LOCATIONS)

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.

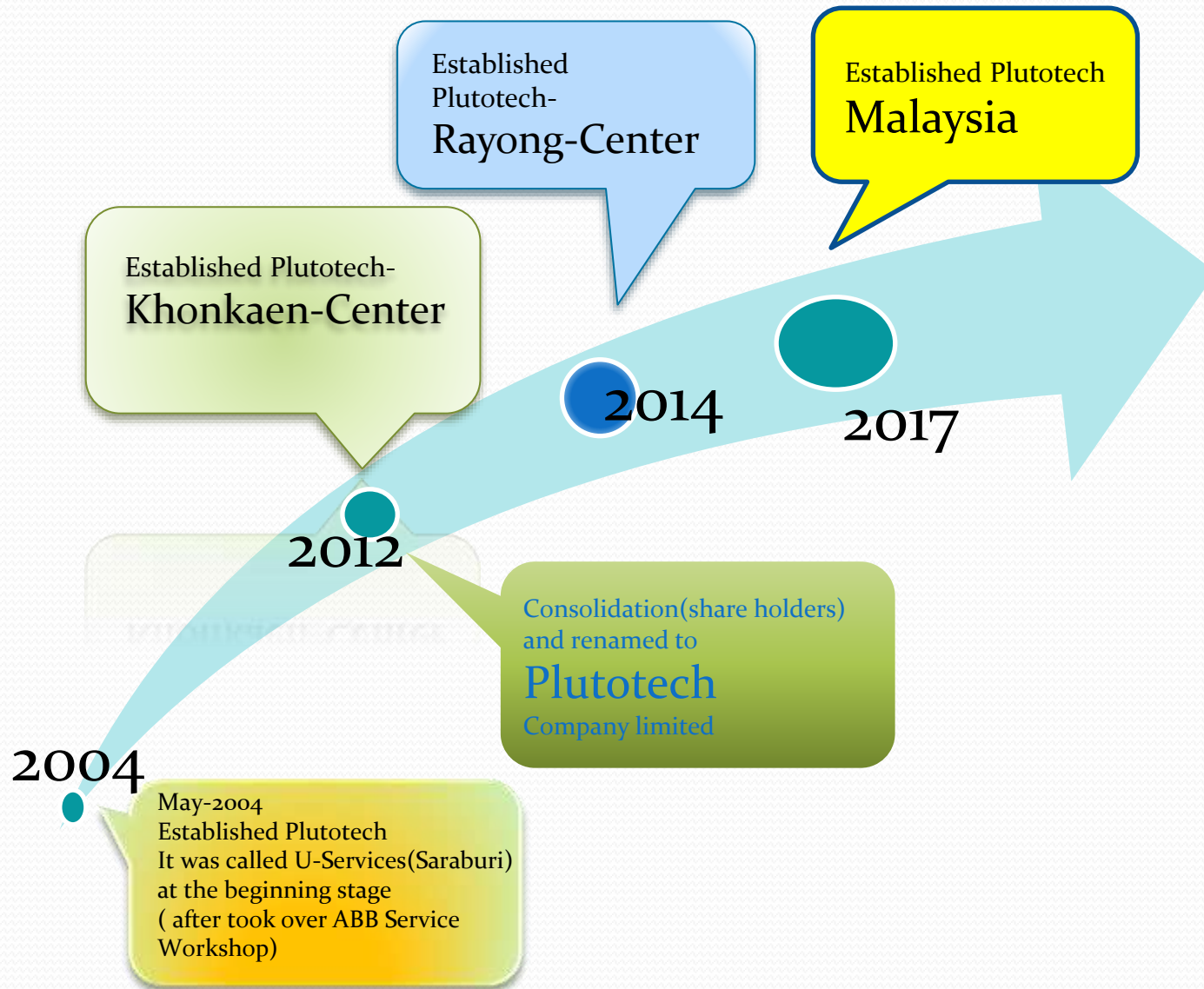
Plutotech-Saraburi Center
Plutotech-Rayong Center
Plutotech-Khonkaen Center
PlutotechMRRD-Malaysia Representative Office

Capacity

Special Facilities

Strategic Locations

Our History



PLUTOTECH-service-scopes



Repair and
Maintenance

Engineering
services and
solutions

Installation
projects

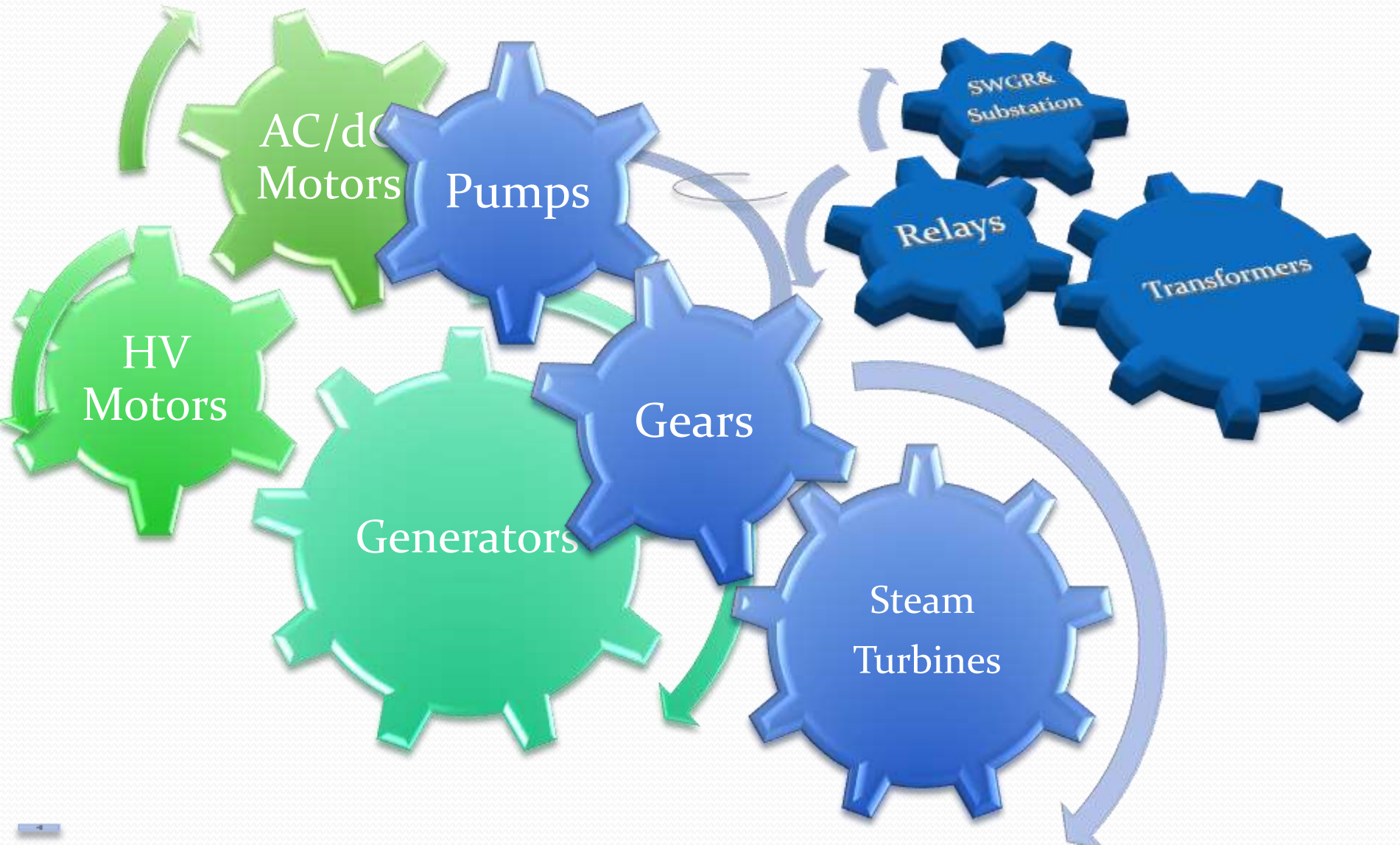
Predictive and condition based.
Failure analysis and Resolutions

Test &
Commissioning

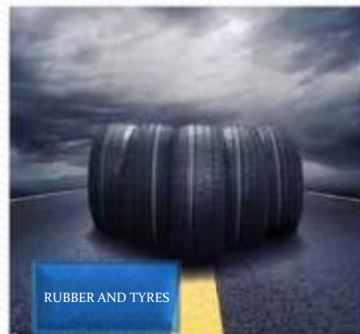
Modification
Upgrading
Rehabilitation

New Supply
Spare parts
Service Contracts

PLUTOTECH services for:



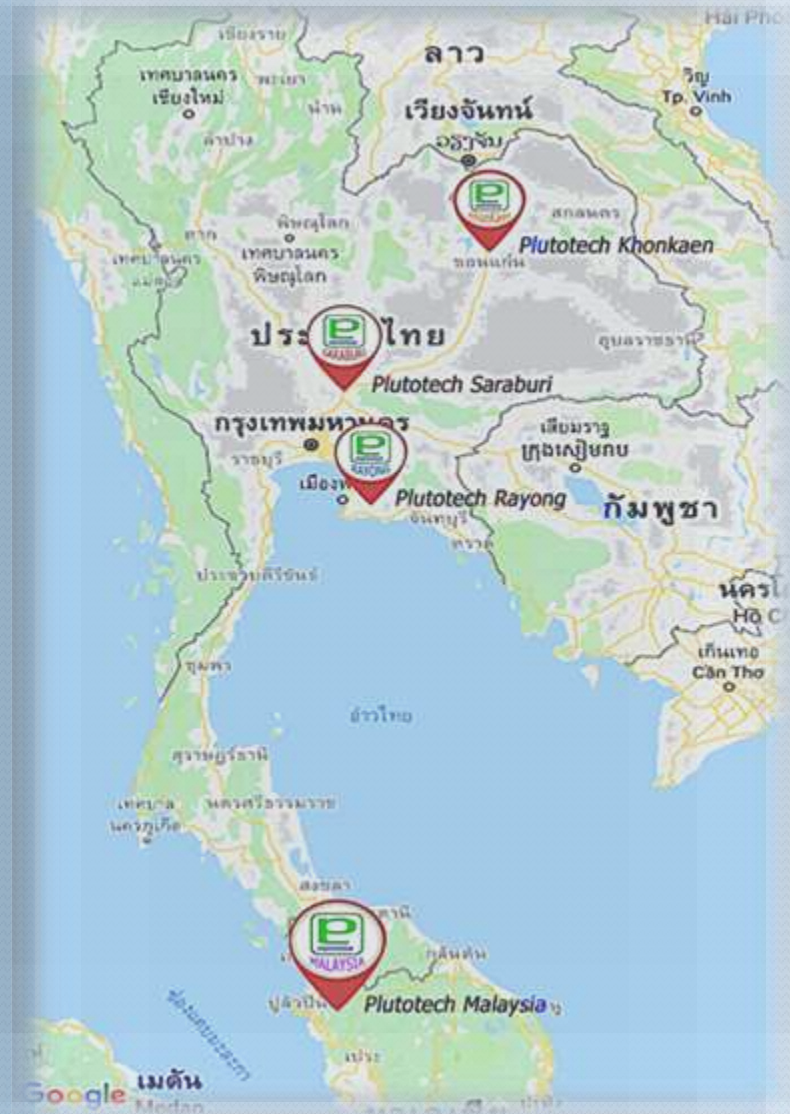
Our customers-segments



PLUTOTECH- Service Network



- **KHONKAEN-service center.**
 - Located on Sirchant Road, Muang, Khonkhaen
- **SARABURI- Service Center (HQ)**
 - Located at Phahoyothin Raod, 8Km north of Muang Saraburi, or 110 km north of Bangkok
 - It is our excellent and largest capacity for workshop servicing
- **RAYONG-service center.**
 - located at Huaypong, Maptaput, Muang, Rayong
- **PLUTOTECH-MRRD Sdn Bhd. - MALAYSIA**
 - Located in Kulim, north of Malaysia



PLUTOTECH. SARABURI WORKSHOP



PLUTOTECH. RAYONG WORKSHOP



PLUTOTECH. KHONKHAEN WORKSHOP



WORKSHOP AREA



MACHINING & MILLING AREAS



MACHINING AREA



WIRE ARC SPRAY - METALLIZATION



MECHANICAL FITTING AREA



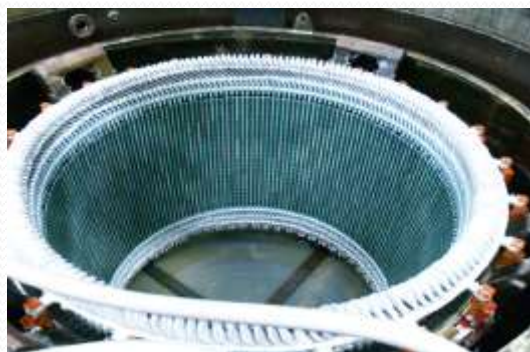
MECHANICAL FITTING AREA



HIGH VOLTAGE REWINDING



HIGH VOLTAGE COIL REWINDING



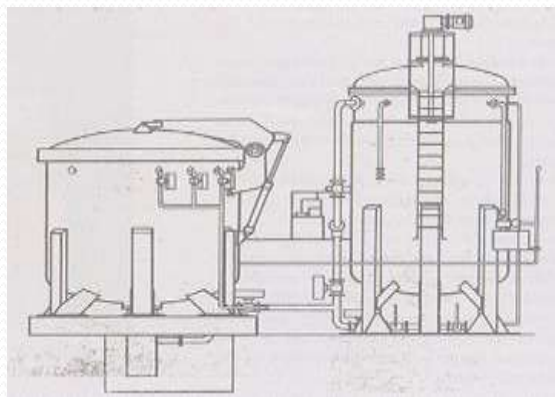
ELECTRIC DRY-OUT OVENS



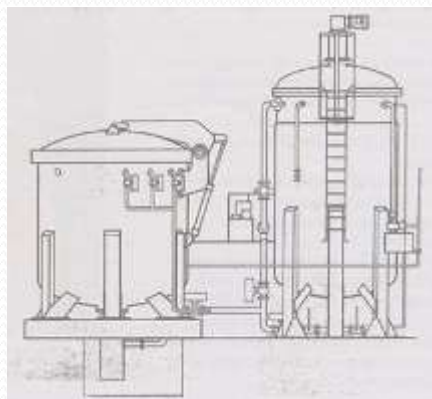
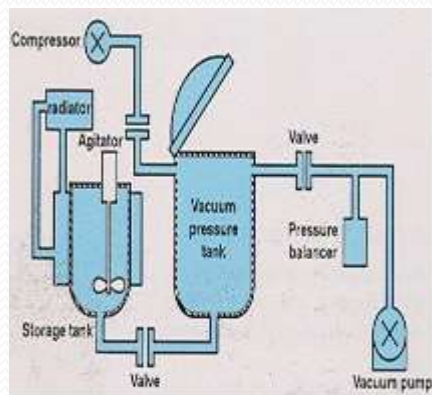
Auxiliary unit = 2x2x2 M3 Main unit = 4x4x4 M3



VPI (Vacuum Pressure Impregnation) Plant



VPI PLANT. Specification



- 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

Comments: *It is the largest VPI plant in Thailand and South East Asia*

TESTING STATION



HV 12 KV SURGE COMPARISON TESTER& 12KVdc HIPOT



HV AC HIPOT TESTER 24 KV

QUALITY SYSTEM

- Follow the EASA Manual for Electrical and Mechanical Machine Service and Repairing
- ISO9001:2015
- ISO45001:2018
- AEMT-Standard Practice



Certificate Number TH12/6552



QUALITY SYSTEM



Certification for Explosive Atmospheres

IEC Ex CoC Certified Service Facility



IEC **IECEX** **IECEX CoC**
Certified Service Facility

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.	IECEX SRF 50021	Issue No. 0	Certificate history
Status	Current	Date of Issue	2014-01-14
Applicant	Plutotech Company Limited 54 Moo 5 Papholyotin Rd Huayfong, Chulabongkol, Saraburi 18000 Thailand		
Type of Service	Repair and Overhaul according to IEC 60079-10		
Type of Protection	Flameproof Enclosure "d" Increased Safety "n"		
Scope of Service	Repair and overhaul of rotating machines to Ex d and Ex e		
Locations covered by this Certificate	Plutotech Company Limited 54 Moo 5 Papholyotin Rd Huayfong, Chulabongkol, Saraburi 18000 Thailand		

Facility Audit Report: [CG/0/RT/12/13/0034/00](#)
This certificate is issued on verification that the Service Facility and associated functions were assessed and found to comply with the IECEx Scheme requirements, relating 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 ID and Operational Documents as amended.

Approved for issue on behalf of the IECEx Certification Body:

Position: _____
Signature: _____
Date: 14-01-2014

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The status and authenticity of this certificate may be verified by visiting the Official IECEx website.

Certificate issued by:

SIRA Certification Service
Rake Lane
Ecclestone
Cheshire
CH4 5LN
United Kingdom

sira
CERTIFICATION

CUSTOMERS

1. WORKSHOP ELECTRICAL
ROTATING MACHINE SERVICES

2. HIGH VOLTAGE COIL FOR
MOTORS, GENERATORS
MANUFACTURING

3. TRANSFORMER AND
SPECIAL ELECTRICAL
MACHINE REPAIRS &
SERVICES

4. SWITCHGEAR & SUBSTATION AND
PROTECTIONS REPAIRS & SERVICES

5. STEAM TURBINES, GEARS
PUMPS AND VALVES SERVICES

6. TURBINE HYDRAULIC GOVERNOR TEST
AND REPAIR (WOODWARD)

7. POWER PLANT PROJECT
INSTALLATION

8. ELECTRICAL MOTORS & GENERATORS
ONSITE OVERHAUL AND REPAIRS

9. ONSITE SERVICE MAINTENANCE
CONTRACTING

10. PREDICTIVE & CONDITION
MONITORING SERVICES

PLUTOTECH ENGINEERING & MANAGEMENT SUPPORTS

PROTECTIVE RELAY SERVICES

□ Calibration and Testing

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



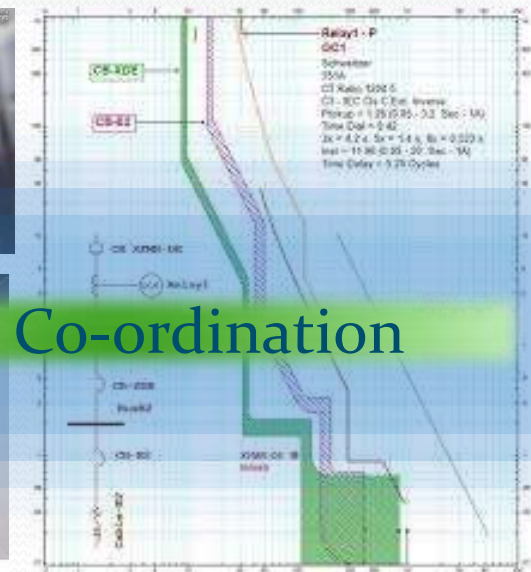
□ Upgrade and Replacement



□ New Installation



□ Relay Co-ordination



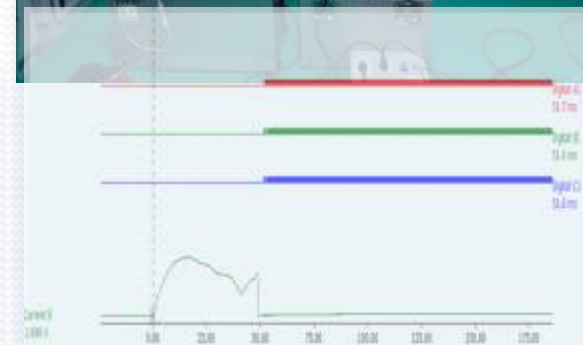
SWITCHGEAR. SERVICES

❖ PM and CM

➤ Service and Inspections

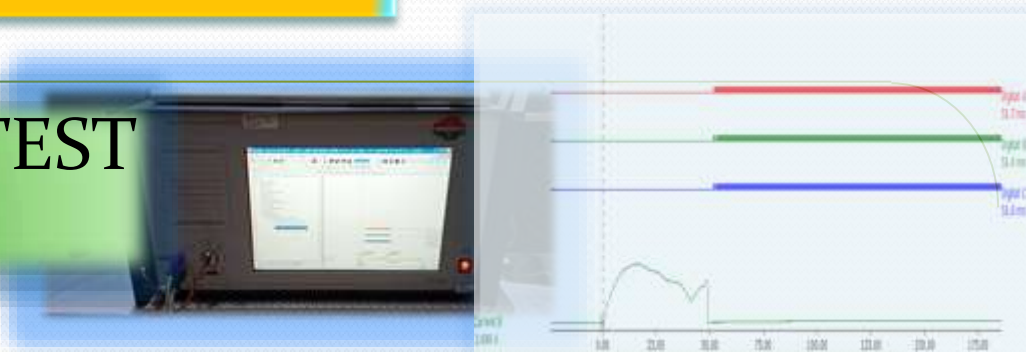
➤ Routine Maintenance and testing; Close-opened time, IR, Contact resistance

➤ Repair/Replace electro-mechanical components



SWITCHGEAR. SERVICES

❖ COMMISSIONING TEST and SPECIAL TEST



➤ Function and operating close-trip test

➤ Contact resistance test

➤ IR, HIPOT test

➤ Insulation Power Factor Test (tan-delta)



TRANSFORMER. SERVICES

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

TRANSFORMER. SERVICES

- Oil sampling for DGA and Breakdown Test
- Oil Filtration and Purify



DYNAMIC BALANCING M/C



3 tons

10 tons

GENERATOR. SERVICES

GENERATOR SERVICE AND REPAIRING

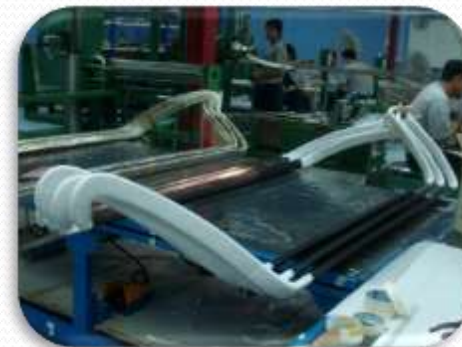
- Generator running condition analysis
- Trouble shooting
- Generator overhaul
- Rewinding Stator, Rotor, exciter
- Mechanical repairing
- Cooling maintenance and testing
- Electrical testing
- Dynamic and Field balancing
- AVR and Generator protection testing



MOTOR. SERVICES

MOTORS-SERVICE AND REPAIRING

- 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



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



Design and Engineering power distributions

Switchgear Retrofit Project

MDB & MCC Switchgear design engineering and supply



MV Switchgear supply and installation project