





Vision

**Transformative leader
Leveraging innovation
to foster sustainable growth.**

Mission

- Comprehensive service provider delivering superior quality that consistently exceeds customer expectations.
- Powerful innovator, adept at navigating and overcoming business transitions.
- Committed to transparency, aligned with EGCO's expectations.
- Actively pursuing opportunities in related industries to foster sustainable growth.

Quality Policy & Commitment

ESCO stands for quality,
Ensuring customer satisfaction,
Continuous improvement,
Safety always comes first, and
Fairness to business partners.

About ESCO



EGCO Engineering and Service Company Limited (ESCO), established on 8 September 1995, is a leading power service provider of Operation and Maintenance (O&M), Maintenance, Engineering and Construction.

As a wholly-owned subsidiary of the Electricity Generating Public Company Limited (EGCO), Thailand's first independent power producer, ESCO benefits greatly from the expertise and strategic partnerships established by the parent company.

ESCO has three core services—O&M, Maintenance, and Engineering & Construction—which have sustained our business for nearly 30 years. We continue to enhance these offerings by integrating energy-related services, such as technical consulting, drone inspections, and digital platforms.



ESCO has invested in two companies, both domestically and internationally, as part of its expansion into new business opportunities:

1. **E&E Engineering & Service Co., Ltd.**, registered in Lao PDR, provides O&M services for a hydropower plant.
2. **RES Renewable Energy Solution Co., Ltd.**, specializes in PV panel assessment and performance testing services.

O&M Services



Power Plant

With nearly three decades of experience in Operation and Maintenance (O&M), ESCO is committed to delivering comprehensive O&M services that meet international standards, driven by highly skilled personnel. To navigate the energy transition, ESCO continuously develops and implements advanced technologies to optimize the operational performance of every power plant under our management to ensure maximum efficiency.



O&M Services

- O&M preparation: O&M planning, system optimization, and comprehensive O&M training.
- Consulting service: performance enhancement, plant reliability, operating procedure, and inventory management.
- Full scope O&M services: Supplying O&M personnel, operation planning, maintenance (PM, CM), data collection, data analysis, etc.
- Test and commissioning.



Turbine



Maintenance Service

Turbine Maintenance service offers comprehensive services for rotating machine maintenance, specializing in gas turbines, steam turbines, and centrifugal compressors. ESCO also provides maintenance for related equipment, including admission steam valves, generators, reduction gears, and other auxiliaries, supporting to all types of power plants and related industries.



Gas Turbine

- Combustion inspection
- Hot gas path inspection
- Major overhaul

Steam Turbine

- Yearly inspection
- Minor inspection
- Major overhaul

Furthermore, ESCO has the capability to provide maintenance services for unplanned outages and emergency shutdowns both domestically and internationally.

Generator

- Inspection
- Overhaul



Rotating Equipment

- Centrifugal/ Axial flow compressor inspection and overhaul
- Centrifugal, Mixed flow and Axial flow pump inspection and overhaul
- Large centrifugal fan/ Blower inspection and overhaul
- Troubleshooting for mechanical equipment



Boiler



Maintenance Service

Boiler Maintenance service provides full-scope services for all types of boilers across various industries. With a long history of excellence in the boiler maintenance service, ESCO is recognized as an expert in delivering high-quality services to a diverse range of power plants under Long Term Service Agreements (LTSA).

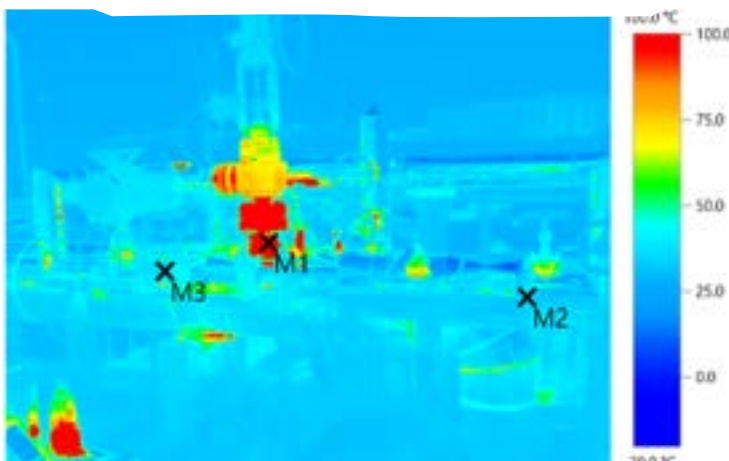


HRSG and Boiler

- Boiler annual inspection and auxiliary equipment
- Pressure part, Steam drum, and Pressure vessel inspection
- Boiler tube replacement
- Boiler casing modification
- Burner
- Pulverizer (Coal mill)
- Fuel feeder, Ash conveyor

Inspection and Repair

- Valve/ Safety valve
- Boiler feed water pump
- Boiler water circulating pump
- Gas air heater
- Steam piping, Pipe support, and Expansion joint
- Rotating equipment



Electrical



Maintenance Service

Electrical Maintenance service provides comprehensive maintenance services for electrical systems across all industries. ESCO specializes in generator testing and inspection, as well as expertise in Auto Voltage Regulator (AVR) and protection systems. We are equipped to perform partial discharge measuring both online and offline.

Additionally, ESCO is capable of inspecting substations for all voltage ranges and maintaining transformers, transmission systems, and industrial motors.



Generator

- Generator inspection and overhaul
- Generator cleaning
- EL CID test on generator stator
- Wedge tightness test
- Generator bore scope inspection
- AC/DC Hi pot test
- Online & Offline partial discharge test
- RSO, PDC test
- Generator AVR and control system inspection and test
- Wind turbine generator inspection

Motor

- Motor inspection and overhaul

Transformer

- Power and distribution transformer inspection and test
- Dynamic resistance test of OLTC
- SFRA test of Power Transformer

Switchyard / Distribution system

- HV switchyard and MV Switchgear equipment inspection and test
- Metering transducer inspection test and calibration
- Protective & Synchronizing relay inspection and test
- Station battery, Charger, and UPS maintenance
- Grounding resistance test and repair
- Troubleshooting of electrical and control systems



Instrument

Maintenance Service



Control & Instrument Maintenance service provides inspection and maintenance services for control and instrument systems to ensure optimal process performance. Our services also include functional testing of equipment to prevent unplanned downtime. Additionally, ESCO offers calibration services and device repair.



C&I maintenance service

- Field instrument calibration and testing (ISO-17025)
- Calibration of on-bed instrument Speed sensor, Vibration sensor, etc.
- SCADA, DCS, PLC preventive maintenance and modification.
- Control valve test, overhaul and calibration.



- Motor operate valve test, overhaul and calibration.
- Flow meter and Flow computer metering calibration
- Ultrasonic flow measurement service.
- Fire and Gas detector testing and calibration.
- Fire alarm system
- CO2 concentration test
- Analyzers calibration
- Equipment rental



Engineering & Construction



Service

Engineering and Construction service specializes in project management, project development, and engineering design. ESCO offers comprehensive EPC turnkey solutions for construction projects. Our services include testing and commissioning power plants, transmission lines, steam and water distribution systems, and related utilities.

Services

- Project development
- Project management
- Foundation
- Design of utility system
- Machine and pressure vessels installation
- Electrical system and transmission system



Other Energy Services

Drone inspection | Digital Solution

ESCO offers drone inspection services capable of performing thermo scans for transmission lines, PV solar panels, and other related infrastructure.



Furthermore, ESCO is committed to developing and utilizing technology to enhance our core business. We have developed a platform called "ESCO Smart Logsheet & Equipment Database" to centralize operational data from various power plants under our management. The platform facilitates the collection and monitoring of equipment operating data, allowing for the analysis and prevention of potential failures.

Customers References



O & M Service

- EGCO Cogeneration
- Banpong Utilities
- Klongluang Utilities
- EGCO Khanom (IPP)
- Theppana Wind Farm
- SOLARCO
- NED
- SPP 2
- SPP 3
- SPP 4
- SPP 5
- NAMTHEUN 1
- NAMTHEUN 2
- B.Grimm Group
 - Bothong Wind Farm
- Ratch Group
 - Ratch Cogeneration
 - REN Korat Energy

Maintenance Service

Overseas

- Khartoum Refinery Company (Sudan)
- Sudanese Thermal Power Generating (Sudan)
- NATIONAL DISPATCH CENTER (Iraq)
- Volta River Authority (Ghana)
- Namtheun 1 (Laos)
- Namtheun 2 (Laos)
- MYANMAR LIGHTING (IPP) (Myanmar)



Domestic

- EGCO Group
- EGAT
- BLCF
- RATCH Group
- Bangkok Cogeneration Co., Ltd.
- Advance Agro Asia Co., Ltd. (AAA)
- Siam Power Generation Public Co., Ltd.
- Betago Agro Group PLC
- Hyundai Engineering (Thailand) Co., Ltd.
- Combined Heat & Power Producing Co., Ltd.
- B.Grimm Group
- Gulf Group
- Thai Oil Power Co., Ltd.
- GPSC
- PTT GC
- Mitrphol Group
- IRPC Clean Power
- TTCL Public Company Limited
- TOYO Engineering Corporation
- Betago Agro Group PLC



EGCO Engineering & Service Co.,Ltd



EGCO Engineering & Service Company Limited

Head Office

EGCO Tower, 222, Vibhavadi Rangsit Rd.,
Tungsonghong, Laksi, Bangkok 10210

(66) 2998 5000

Rayong Branch

35 Rayong Highway No.3191, Huay Pong,
Amphur Muang, Rayong 21150

(66) 3868 2611-4

 **Email : esco.contact@egco.com**





EGCO Engineering & Service Company Limited



Website



Line OA