



# Corporate **PROFILE**



Petrosa Energia Ltd

FEB 2025

.....Innovative Energy Solutions.

# About US

Pure, Simple & Innovative.

Petrosa Energia Limited (PEL) is focused in providing sustainable solutions with Innovative & Intelligent products and services that improve utility performance , lower energy consumptions, reduce emissions thus making business refreshingly simple, cost effective, environmental friendly and pleasant to our customers.



## VISION

Our vision is to be the world leader in Energy, Engineering, and Utility management services.

## MISSION

Our mission is to provide the most innovative, sustainable and highest quality products & solutions to maximize customers competitive position at the least possible cost to make them delighted.

# Core Values

Petrosa Energia Ltd. desires to facilitate you accomplish your utility & energy cost reduction goals by supplying advanced products & customized solutions to stabilize or lower your overall Power / utility / production cost.

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02

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**Innovation.**

**Integrity.**

**Quality.**

**Sustainability.**

**Environmental and Safety.**

# What we do...



## Supply

- ✓ PowerGenerators
- ✓ Electrical Panels
- ✓ Lubricants
- ✓ Vapor Absorption Chillers
- ✓ PowerCables
- ✓ Genuine Spare Parts
- ✓ Transformers
- ✓ Boilers



## Services

- ✓ Powerplant O & M
- ✓ Electro Mechanical Installations
- ✓ Maintenance Services
- ✓ Synchronizing of multiple generators



## Solutions

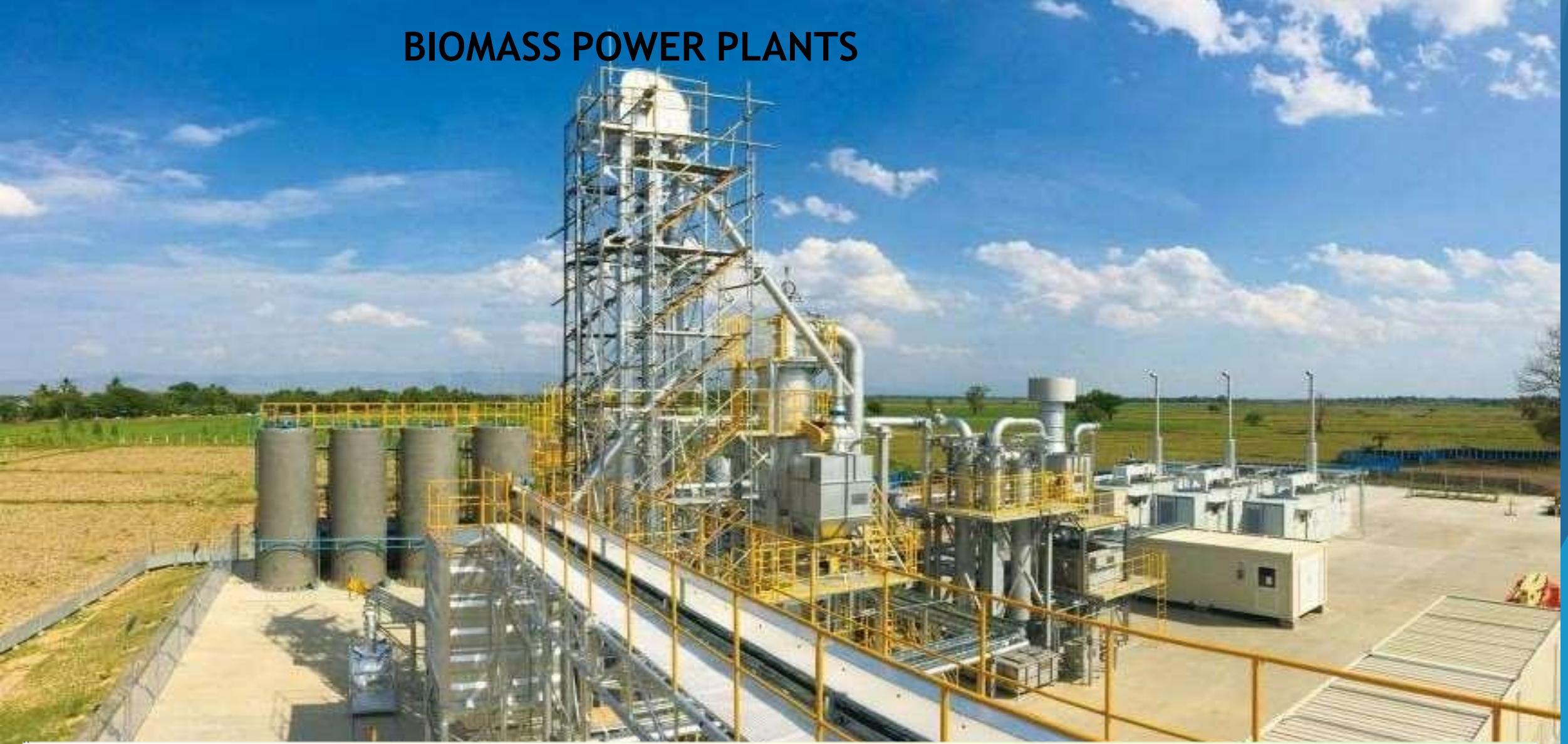
- ✓ Biomass Power Plants.
- ✓ Solar IPP
- ✓ Independent Power Plants.
- ✓ Energy Conservation.
- ✓ HVAC / Chilling .
- ✓ Engineering Procurement & Construction.



## Value Added

- ✓ Energy Audit
- ✓ Power Analysis
- ✓ Solar Survey

# BIO MASS POWER PLANTS



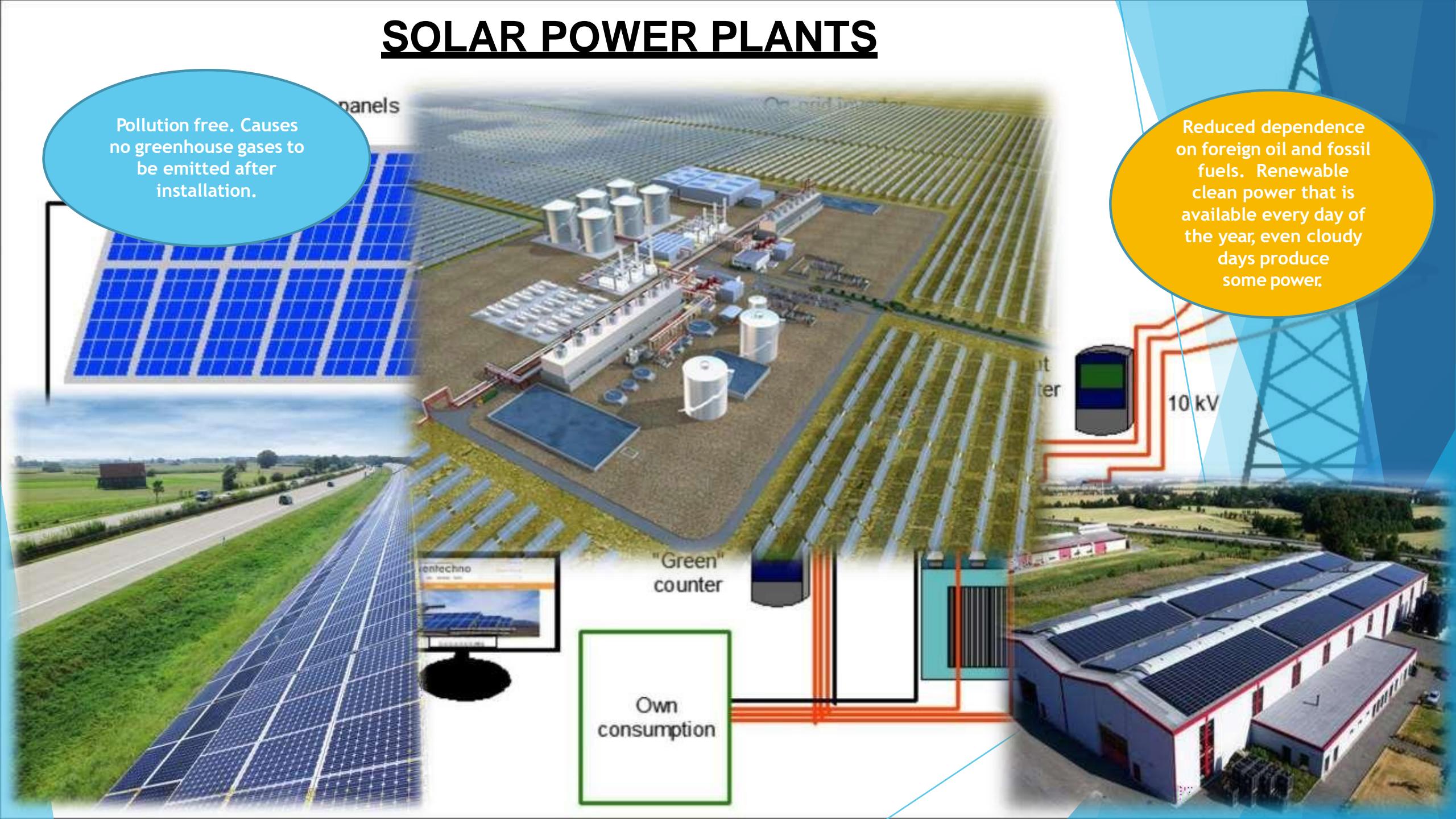
*Biomass Power plant solutions from PEL are highly economical with below features;*

1. Always and widely available as a renewable source of Energy. ....
2. Carbon neutral and reduces the overreliance of fossil fuels. ....
3. Less expensive than fossil fuels. ....
4. It adds a revenue source for manufacturers and reduces garbage in landfills.

# SOLAR POWER PLANTS

Pollution free. Causes no greenhouse gases to be emitted after installation.

Reduced dependence on foreign oil and fossil fuels. Renewable clean power that is available every day of the year, even cloudy days produce some power.



# Power Solutions



We supply, Install,  
Commission, Service /  
maintain and Overhaul  
Diesel and Gas Generators  
of reputed brands like  
Jenbacher, Caterpillar,  
Cummins and Perkins,  
starting from 9KVA up to  
5000KVA.

Our experienced Operation and maintenance Team is capable of ensuring maximum uptime of your plant utilities like Generators, compressors, Boilers & Chillers, etc.

We have a fleet of Diesel generators of various capacities for rental purpose.

© Diesel Service & Supply

# Spare parts

Fleetguard

Our strategic spare parts management system is the key component that drives efficiency and creates cost savings to our customers.

Our Imported Genuine spares for Caterpillar, Cummins and Perkins brands are always available at an advantageous price at our facility.



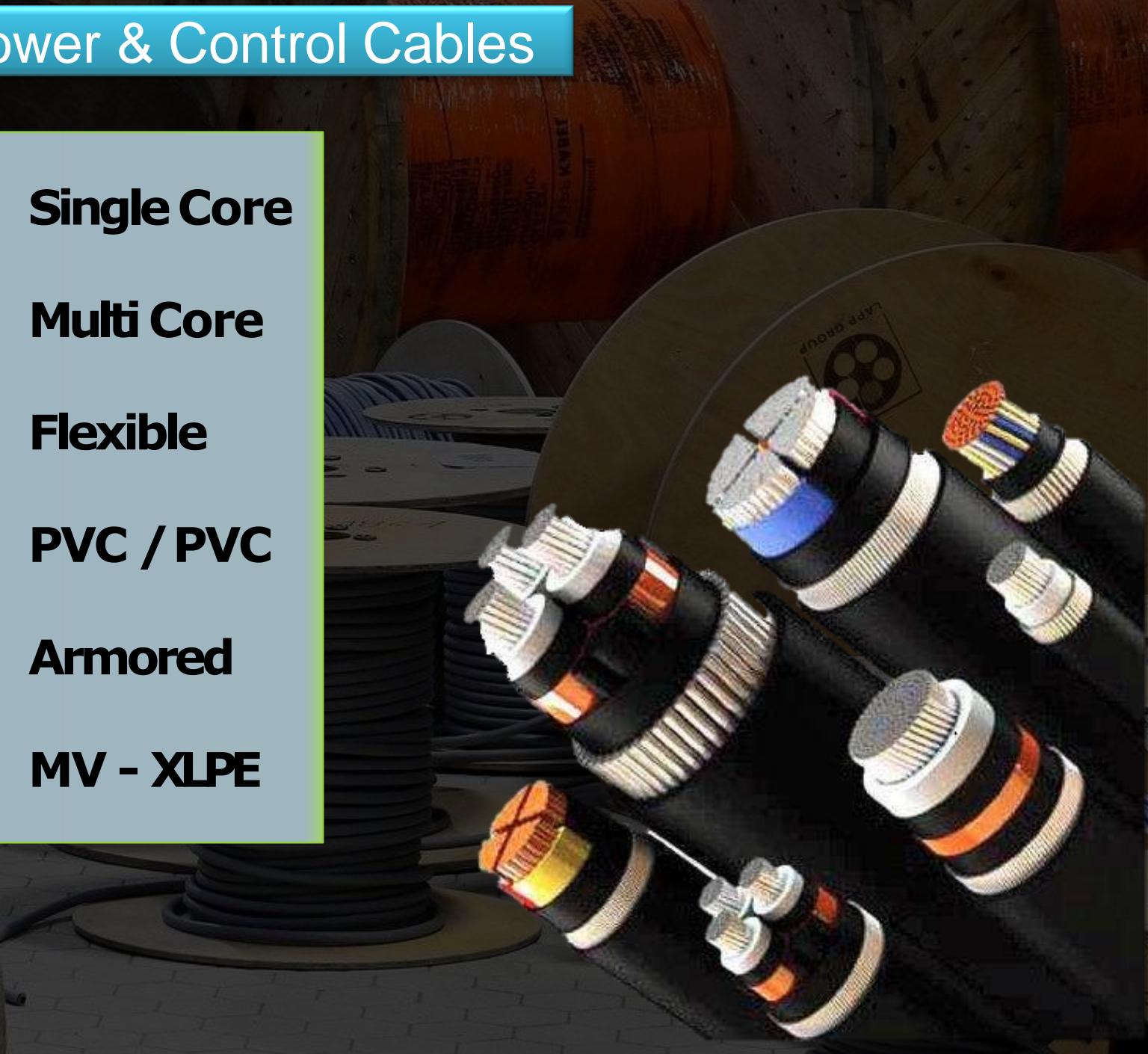
# LUBRICANTS

Engine Oil- CAT, Total, Shell.  
Gear Oil, Hydraulic Oil  
Diesel/Gas Engine coolants.  
All type of Greases.  
Transformer Oil



# Power & Control Cables

- **Single Core**
- **Multi Core**
- **Flexible**
- **PVC / PVC**
- **Armored**
- **MV - XLPE**



# Switches & Gears

We deal in genuine products from reputed brands like ABB, Schneider & Himel. AC and DC, low / medium / high voltage products will help to improve energy efficiency in most applications with maximum protection. Basic switches, RCCBs, MCBs, MCCBs, Distribution Boards, Distribution boards, Electric Motors (foot Mounted & Flange mounted up to 240 HP), Variable frequency drives, Soft Starters, Breakers(ACB, VCB), Change over switches, Contactors are always readily available.



# Transformers & RMU's

CFM - TCA



Medium voltage (33KV / 11 KV) Panels, Transformers (both Power and distribution) and RMU's. We also carry out installation works of medium and low voltage power distribution systems.

- ▶ Our state-of the art filtration units are capable of carrying out oil filtration of transformers of all capacities within shortest possible time.
- ▶ Our high quality imported Transformer oil is best for all sizes of transformers.

# SYNCHRONIZING PANELS



We build superior quality Generator Synchronizing panels to sync multiple generators of various capacities, different brands & different fuels. Our intelligent power management system will take care of automatic starting, syncing and load sharing to optimize generator usage and seamless

# ELECTRICAL PANELS

Automatic Power Factor Correction Panels.

MCC Panels.



ABB



Our expert panel building team design all kind panels to suit your requirement while ensuring maximum protection. We build superior quality Distribution panels, Generator synchronizing panels, Automatic Power Factor Correction (APFC) panels and Motor Control Centre (MCC) Panels by using genuine components mainly ABB & Schneider.

# Inverters / UPS



We supply very reliable and advance technology Inverters and Industrial UPS from India and France.

Sine wave inverters built with Advanced ASIC Technology helps to ensure the safety of home, office and Industrial appliances.



## Energy Audit / Power Analysis

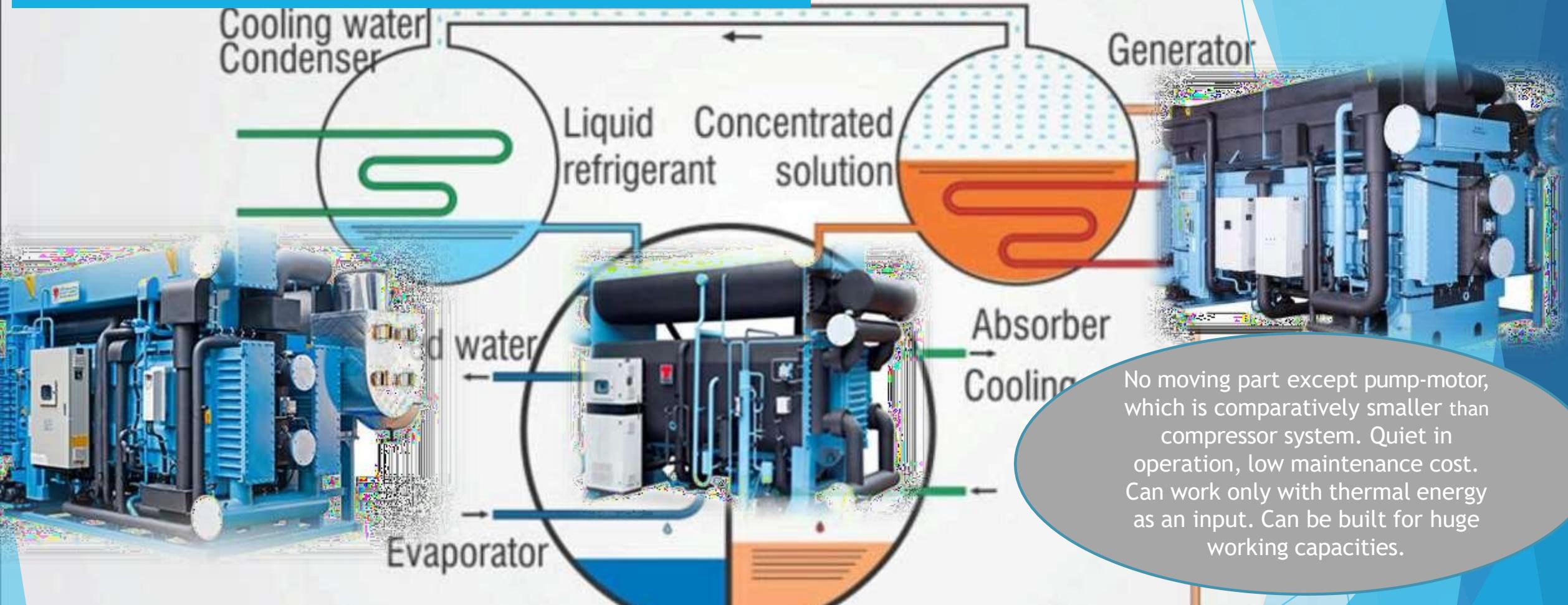
We carryout Energy Audits for our clients which is basically a survey and analysis of energy consumption in a building, factory, process or system by using advanced power analyzers and provide corrective solutions to eliminate power losses.

### Energy Audit Advantage:

- ✓ Energy saving
- ✓ Quality improvement
- ✓ Productivity improvement
- ✓ Reduced maintenance cost
- ✓ Fewer breakdowns
- ✓ Better safety & protection
- ✓ Avoid powerfactor penalties
- ✓ Greater comfort
- ✓ Lower utility bill
- ✓ Higher resale value
- ✓ Greater installation durability
- ✓ Return on investment.



## VAPOUR ABSORPTION CHILLERS



Generator

Cooling water  
Condenser

Liquid refrigerant  
solution

Absorber  
Cooling

Cooling water

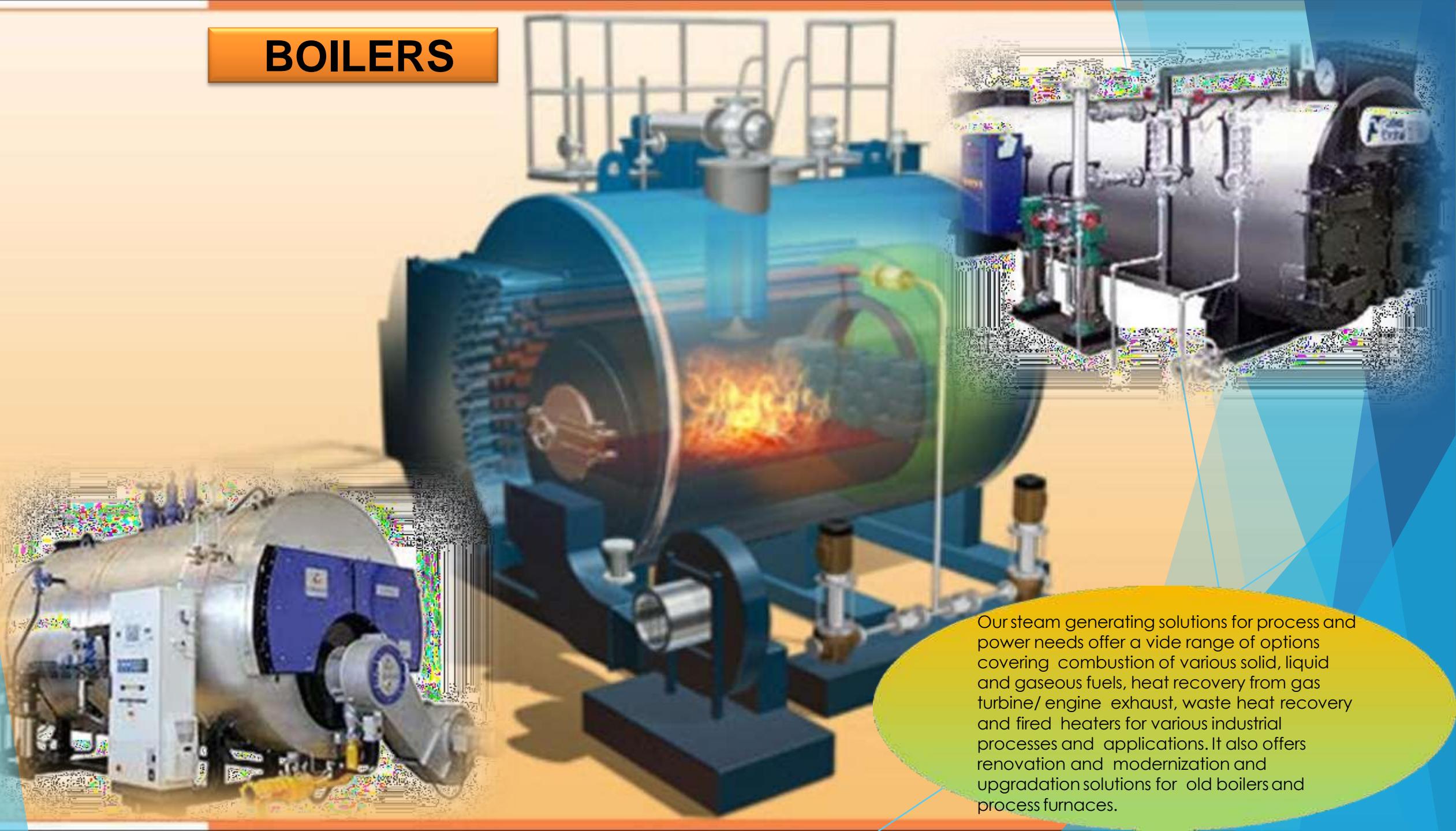
Evaporator

No moving part except pump-motor, which is comparatively smaller than compressor system. Quiet in operation, low maintenance cost. Can work only with thermal energy as an input. Can be built for huge working capacities.

Our Vapour Absorption Chillers are designed to be driven by a variety of heat sources – steam, hot water, gas/liquid fuels, exhaust gases or a combination of these fuels. These machines offer an outlet temperature of 1°C with water and up to -5°C with brine, a rare feat in the industry.

This heat causes the solution to release the absorbed refrigerant in the form

# BOILERS



Our steam generating solutions for process and power needs offer a wide range of options covering combustion of various solid, liquid and gaseous fuels, heat recovery from gas turbine/ engine exhaust, waste heat recovery and fired heaters for various industrial processes and applications. It also offers renovation and modernization and upgradation solutions for old boilers and process furnaces.

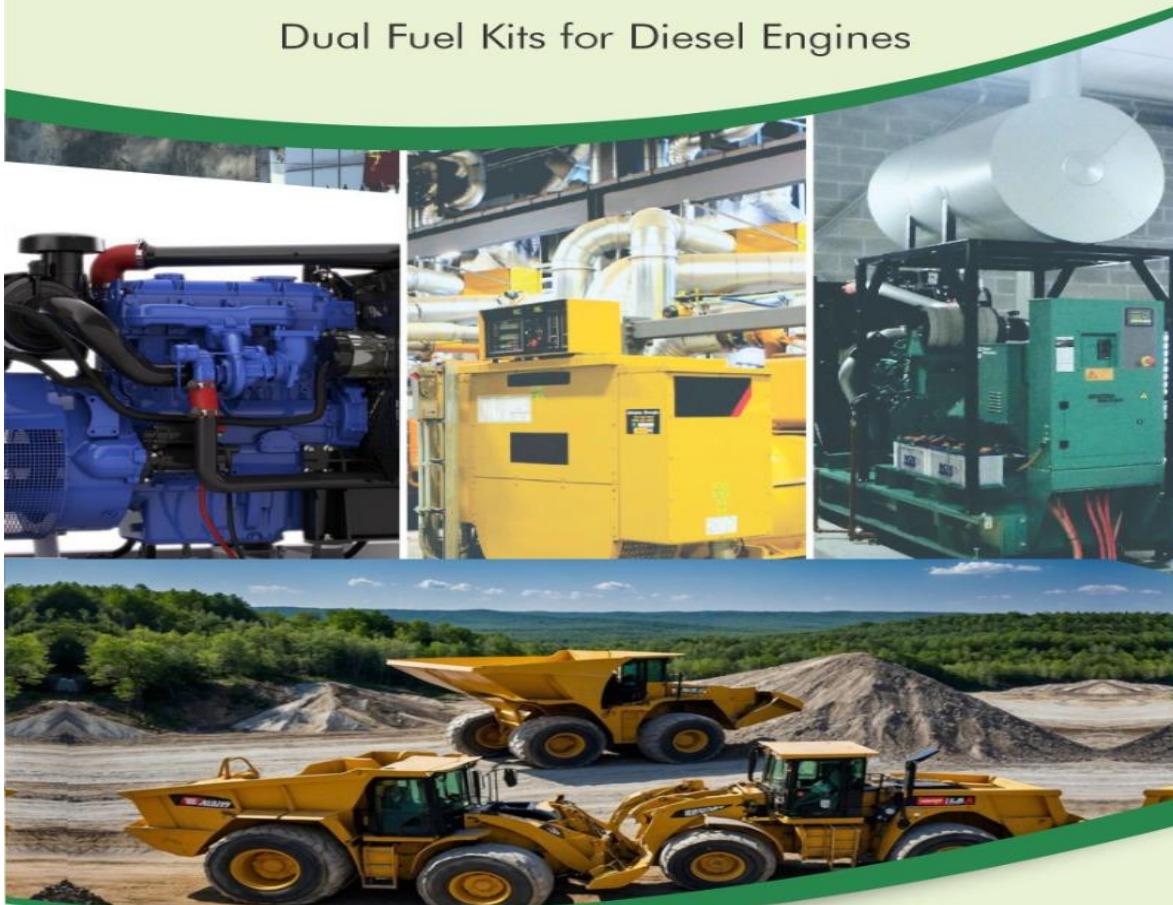
# DUAL FUEL KITS FOR DIESEL GENERATORS



PETROSA Energia Ltd.  
....Innovative Energy Solutions.

**GasTech**  
Go Green | Cut Cost

## Dual Fuel Kits for Diesel Engines



25+  
years of  
experience

4,000+  
installations

85%  
DFKs market  
share in India

0%  
failure rate

8 -hours  
installation

100%  
on-time  
delivery

### ■ What is a Dual Fuel Kit?

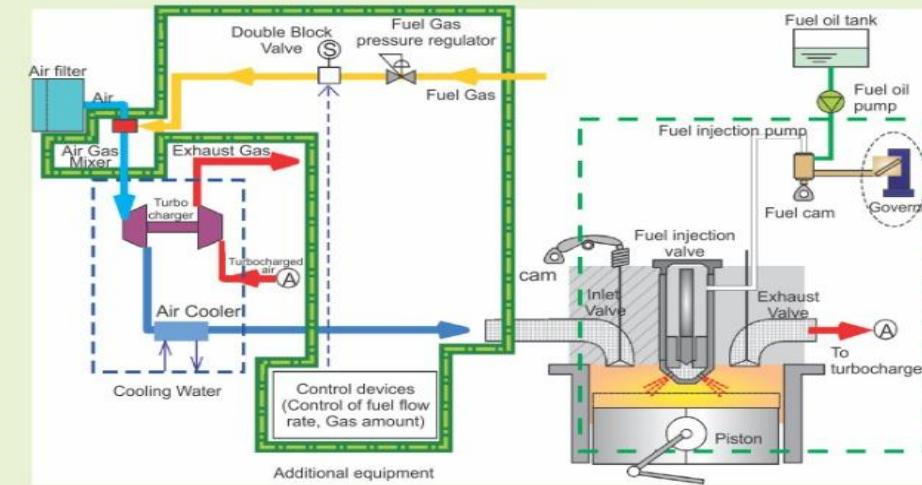
Being a catalyst in Nigeria's journey to achieve energy efficiency and NetZero, Petrosa Energia Limited has brought the innovative concept of dual Fuel conversion kits for existing Diesel Engines.

Petrosa GasTech technology is based on the concept of admitting additional gas fuel in to the combustion chamber in a controlled approach, allowing the engine to use less diesel fuel to produce the same power output. The kit is a retrofit to the air intake system and does not require any modification to the engine ignition system / ECM and does not interfere in the equipment control panel functionality.

In dual fuel mode, a much reduced amount of diesel serves as ignition pilot for the Air-Gas mixture. Typically, 50-70 percent of the diesel fuel normally used can be safely displaced with natural gas, based on the engine efficiency. This greatly reduces NOx formation due to the lower combustion temperature.

The system is independent and is designed in such a way that our state- of-the-art electronic system continuously monitors critical engine parameters ensuring utmost safety and maximizing diesel substitution. In case of any deviation in the engine operating parameters beyond the limits, it will reduce or shut off the gas admission automatically or with a push of a button, you can return to diesel-only mode without any speed / power output variation.

### DUAL FUEL TECHNOLOGY



Distributed & Integrated by: PETROSA ENERGIA LIMITED.

# Engineering, Procurement & Construction (EPC)

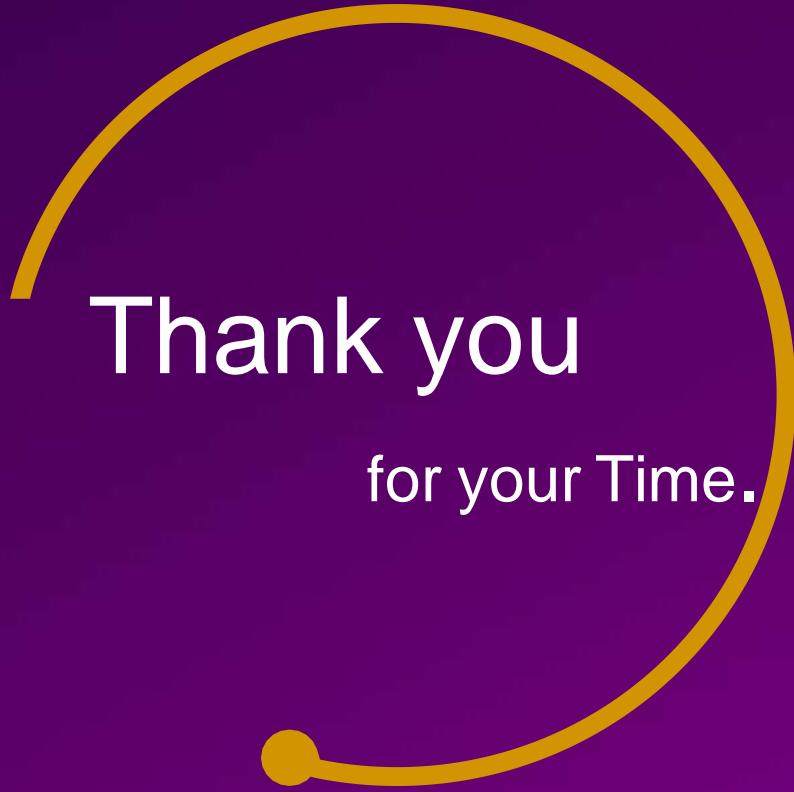
Being a leading EPC contracting company, we carryout a detailed engineering design of the project, procure all the equipment & materials necessary and then construct to deliver a functioning facility or asset to our clients within the agreed time and budget.

*We have successfully completed quite good number of projects of various capacities across Nigeria.*





Sl. No	Customer name	Type of Service	Type of Service
1	Olam Group	Power plant O & M	Power Consultancy, AMC of electrical distribution
2	Deekay Group	Turn key Power project	Generator AMCs
3	Prima Corporation	Power Consultancy	IPP Solutions
4	Mega plastic	Turn key Power project	Generator AMCs
5	Seven Up Bottling Co	Generator AMCs	Installation of WHRB
6	Recoplastic Ltd	Factory electrification	Generator AMCs
7	Ruyat Impex Ltd	Synchronizing Solution	IPP Solutions
8	Ubereness Nig. Ltd	Factory electrification	AMC of Panels & Transformers
9	OK Foods Ltd	HVAC consultancy	Power Consultancy
10	Nigerian Bottling Co.	Power Consultancy / Installation of WHRB	Electrical panel supply



Thank you  
for your Time.



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