



# **CGW HYBRID POWER PVT. LTD**

CGW Hybrid Power Pvt. Ltd, incorporated for the advancement of green energy revolution across the world. We are the power generation and implementation partner of reputed international energy corporations in the world. We believe in promoting 100% renewable green energy with zero emission for the industrialization of countries without compromising the environmental factor... CGW Hybrid Power Pvt Ltd. incorporated on 29th October 2018 Under Indian Companies Act, as a Private Limited Company in Kerala, India under the Chairmanship of Ajith Kannanputhoo Cheriyan

## Vision

Being a valuable and responsible green energy generation company and enforce the best zero emission green renewable technologies in-order to provide the better eco-friendly environment for the communities where we operate. A healthy generation of people would be the asset of any government in the world by protecting their environment and the planet earth, which we support.

## Mission

Work with various countries across the globe and other international organizations like UN, World Bank etc to promote green energy solutions and reduce carbon emission up to the maximum extent by offering long lasting, sustainable green renewable energy solutions with most modern technologies in the world.

## **BOARD OF DIRECTORS**

### **Ajith K. Cheriyan (Chairman)**

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### **Shaji Puthenpurakkal (Managing Director)**

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### **Reeja Ajith Cherian (Administration Director)**

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## PRODUCT DETAILS

### ABOUT THE HYBRID ELECTRIC GENERATOR

#### ★ PRODUCE & CONSUME POWER WHERE IT IS NEEDED!

There is no need for Grid connectivity and transmission lines. Hybrid generates power where it is required, thereby preventing the huge power losses in transmission, which may go up to 20 to 30 percent even!

#### ★ STURDY EQUIPMENT WITH LONG DURABILITY

Since air is abundant, unlimited, the equipment can operate efficiently 24 hours a day indefinitely anywhere in the world, since there is no combustion or heating. It is so sturdily built that it will operate efficiently for even up to 50 years, with only occasional need for servicing or for the quick replacement of a part.

#### 🌱 PRODUCES POWER WITHOUT FUEL

The Hybrid does not use any fossil fuel or carbon-based compounds to produce electricity. In this Power Plant, high - velocity air is used in a sophisticated patented reactor/turbine, as the power producing agent. It is the World's most advanced and most efficient green energy technology.

#### 📦 LOWEST COST POWER!

Hybrid Power Plants for the three core sectors are ready for manufacture. Domestic sector Commercial establishments sector Industrial scale sector These power plants will produce power at an incredible cost.

#### ★ GET POWER 24X7, 365 DAYS NON-STOP!

The Power Generator is named as "Hybrid Generator". It is one of the world's most Innovative and Advanced Technology-based Power Generator/Power Plant, which can generate electricity 24 x 7, without fossil fuels or water/steam input, by using only air as the medium, and Fuel-less Power Generator/Power Plant.



## Procurement & Equipment Sourcing

CGW Hybrid Power Private Limited has strong sales & marketing network in all over the world for the sourcing the material & equipment. We have strong network with various suppliers all over the world. It can be assured of timely delivery with after sales services, best price and quality that will far exceed your expectation.

## Electrical Instrumentation & Automation

Low Voltage and Medium Voltage Switchgear (MCB, MCCB, ACB, VCB, SF6 & GIS) Main Distribution Board, Motor Control Centers, Synchronizing and Load Sharing Panels, Variable Frequency Drives, Capacitor Bank, Soft Starter and Static Variances Compensator (SVC). Plug in Bus Bar System up to 6300 A, Bus Bar, Low voltage & Medium voltage Bus Duct. Cables (Signal, Instrument, Control & Power) and Termination Kit, Cable Tray (Ladle Tray & Perforated), Cable Tray Accessories and Cable Accessories. Testing Equipment, Measuring Instrument, Instrumentation Fitting, Transmitter and Gauges. Battery Charger with Battery, UPS & Battery. Transformer, Transmission Line, Switchgear, Motors, Compressor & Relays DCS & SCADA System. Low Current System (BMS, Access Control, Fire Alarm System, Telephone & Paging system).



## Engineering Services

Feasibility studies | Front-end design and complete detail design | Basic and detailed engineering | Development of plot plans and layouts | P&I Diagrams | Dimensioning & Isometrics | Project management | Evaluation of system integration and recommendations | Development of equipment specifications, third party inspection & Calibration services | Water treatment services | Pipe stress analysis | Sub-station | Power and control system integration | Life assessment and condition monitoring of equipment.

## Process Equipment & Material Handling

- ④ Cooling Tower, RO Plant, Chillier Unit & HVAC System.
- ④ Over head cranes & Mobile cranes. Diesel Generator & alternators. Gas Turbine & Steam turbine. Fuel Skid, Metering skid & Filtration Skid equipment. Pressure vessels, Hot metal carrier & Heavy Equipment Carrier. Steel Mill Equipment & Heavy Equipment. Bulk Material Handling equipment. Conveyor System & Conveyor Products . De dusting Equipment Boilers.
- ④ Water supply & Utility - cooling Tower, RO System & Marine work.
- ④ Technical support and Assistants of Operation Maintenance & shutdown Activities for the metal, power, oil and gas industries industries.
- ④ End Termination and Straight Joint up to 36KV Fibre Cable, Communication cable and Data cable laying & Splicing.
- ④ Erection, Testing and Commission of Instruments. (Transmitter, Flow meter, Measuring Gauge & Analyzer), PLC Installation & programming and calibration of instruments.
- ④ Erection, testing & Commissioning of Switch gears (Low & Medium). Erection, Testing & Commissioning of GIS & Package Sub station. Installation and Commissioning of motors, VFD SVC, Telephone Systems & Fire Alarm. Installation and Commissioning of load sharing panel & synchronizing panel. Installation and Commissioning of DCS, PLC & SCADA System
- ④ Erection, Testing & Commissioning of Transformers (Low Voltage, Medium Voltage & High Voltage). Transformer oil filtration & Transformer Revamping. cable (Signal, Power, Control & Instrumentation) laying.

## Turkey Project for Steel, Power, Oil & Gas Industry

HFO/ Diesel Based Power Plants.  
Transmission & Distribution System.  
Metal Industry Project  
Steel Plant, Pellet Plant,  
Direct Reduction Iron Plant,  
AC Electrical arc Furnace  
Induction Furnace & process Industries.  
Oil & Gas- Natural Gas Pipe Line  
Filtration Skid & Metering Skid.  
Civil Construction  
-Commercial & Residential Building  
Mass Housing Project and Town Ship,  
Information Technology Park.  
Corporate Offices and Hospital.  
Water supply & Utility- Cooling Tower  
RO System & Marine Work.

## Mechanical Project Support

Overhauling of Diesel Generator, Gas Turbine & Steam Turbine. Overhauling of heat Exchange & Turbo Charger. Fabrication & Erection of Structures. Fabrication, Erection & Commissioning of Pipe Line(Natural Gas, LFO, HFO & Water Line). Operation & Maintenance of HVAC System & Chillier Plant. Flushing of the Pipe line.

## Plumbing

Chilled Water distribution pipe work. Calorifiers to supply hot water to Apartments. Cold water transfer and booster pumps. Water tanks (by others) Hot & Cold water distribution pipework. Drainage system including Sanitary and rainwater. RO Plants, Sewage treatment plant, District cooling Plant. Ammonium Removal Plant.



## Electrical

The electrical work normally entails supply, installation, testing and commissioning of various electrical equipment/systems in the Project as previously listed. The sequence of work to be followed in the above areas is generally as detailed in the Constitution Schedule. All electrical works is undertaken in compliance with local regulations and best international standards and codes of practice. Appropriate measures are adopted to ensure the electrical system is fully coordinated with other works, e.g. Architectural, Structural, Interior Design, Mechanical, Public Health and other working drawing of al other divisions. While the procurement of major equipment is underway, GTS completes the installation of all necessary containment and cabling,the sequencing of which is shown on the construction program.Particular attention is paid to the requirements for Earthing and Lighting Protection requirements as the structure progresses, with all necessary intermediate testing performed to ensure continuity of these systems. Close liaison with the relevant local authorities will take place to ensure approvals and inspections occur so as not to affect the construction programe.

## Electrical Systems

Earthing systems. | Lighting protection.| Emergency lighting. | Central Battery system. | Variable Frequency drive | Electronic surge protection | Sub mains distribution boards | Medium Voltage Distribution System | LV distribution via bus bar trunking and cables. | Power factor correction. | Low Voltage Switch Boards (Normal & Emergency). | Motor Control Centres supplying power to mechanical equipment. | Internal lighting - Light Fittings | Fire alarm and voice evacuation system. | Public Address and speakers Fireman's telephone system. | Power supplies to lifts. | Power supplies to security and access control equipment & containment. | Facilities.(containment)for.telecom systems.

# PROJECTS

## MEP Projects

- All kind of mechanical works including HVAC,Plumbing, Fire fighting Etc..
- Electrical System Design
- Complete electrification work
- Plant modelling and implementation



## Solar Projects



- Solar Home systems
- Commercial Applications
- Industrial Applications
- Remote Applications (Schools, Community Halls, Clinines Etc..)
- Solar Fencing
- Solar Street lights.

## Solar Panels & Batteries

### Solar Panels:

Off-Grid Model | Glass-glass Solar Panel

Poly Crystalline | Mono Crystalline

**Battery:** Tubular Batteries | Solar Batteries



# PRODUCTS

Hybrid Electric Power Generator (APEG)

Solar Power

Hybrid Solar

Wind Energy

Other Most Modern Technologies

### **REGISTERED OFFICE**

CGW Hybrid Power Pvt Ltd  
2nd Floor, TOBO Tower  
Kundara, Kollam, Kerala  
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### **CORPORATE OFFICE**

CGW Hybrid Power Pvt Ltd  
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### **OVERSEAS OFFICE**

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