M&E LTD
MANUFACTURING

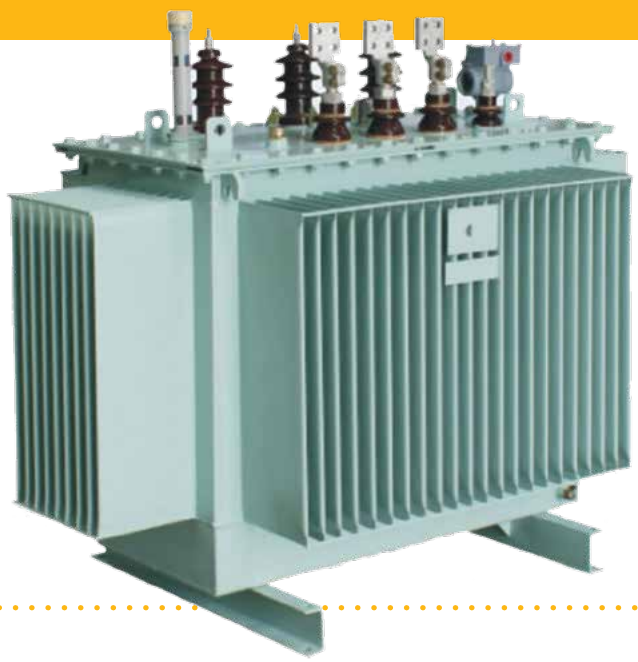
YOUR POWER PARTNER
Electromechanical Assemblies

Assembly of Distribution Boards

Renewable Energy & Grid Battery Systems / Hybrid Systems

Assembly of Luminaires

Our New Ventures Assembly of Power Transformers



OUR ACTIVITIES
Assembly of LV Distribution Boards

Enclosures range from the smallest terminal box to the largest station distribution panel, assembled, wired and customised to your requirements in Mauritius.

ELSTEEL Brand Assemblies

Availability of stock through our sister company for quick assembly with a variety of brands.

Distribution Board Assemblies & Designs

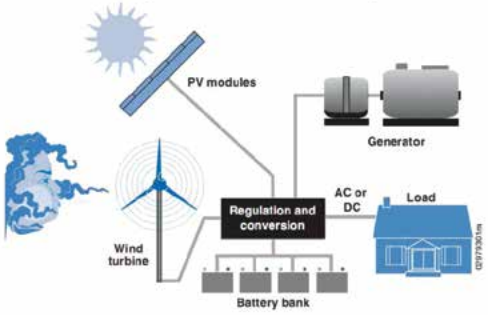
OUR ACTIVITIES
Renewable Energy Projects

Hybrid Systems (Multi Charging & Meters)

Single Phase & Three Phase Hybrid Systems

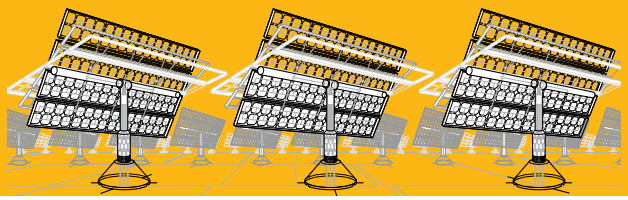
The main feature of a hybrid system is the use of two or more different electricity sources.

Alongside solar energy, photovoltaic hybrid systems employ a wind turbine or the public grid as a further electricity source. The inverters used in hybrid systems, which have integrated battery chargers, supply the connected AC loads according to demand from the battery bank of solar energy or the second electricity source. These devices also allow the batteries to be recharged from the extra energy source.



Photovoltaic hybrid systems offer the advantage that the solar generator does not have to be significantly oversized for periods of low sunlight. This avoids substantial costs when selecting its energy source, the system always gives priority to the energy provided by the module. In combination with a controllable second source, the energy supply remains reliable and available 24 hours a day, all year round.

OUR ACTIVITIES
Renewable Energy Projects



Solar Systems

Solar energy can be used to generate electricity using photovoltaic panels. Maximum yields can only be achieved by adopting equipment and components that guarantee the highest levels of quality with a range of products wide enough to meet the needs of every kind of plant. With its extensive expertise, M&E Manufacturing is the ideal partner to provide you with solutions designed to optimize investment and maximize results in terms of quality, reduced costs and operational efficiency in the field of the renewable energy.

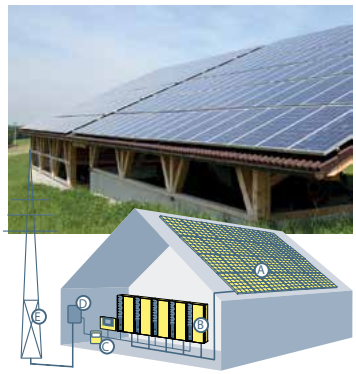
Practical Applications to suit local needs

- Telecommunications
- Lighting
- Household
- Commercial
- Pumping Systems
- TV Outlet
- Computer Charging Systems
- Telephone USB Charging Systems

Night Light Systems

Solar kits in remote areas

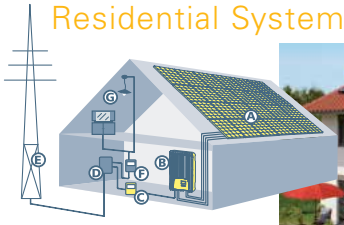
Commercial Systems



A Solar modules
B Grid inverter
C Grid-feed electricity meter
D House connection point
E Public electricity network

Packaging of solar kits to your requirements

Residential Systems



A Solar modules
B Grid inverter
C Grid-feed electricity meter
D House connection point
E Public electricity network
F Consumption electricity meter
G Electrical load

Battery Backed Systems

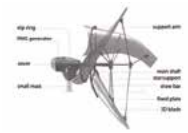
Wind Energy Systems

- Innovative and unique design
- Silent (free frictions)
- Higher performance
- Robust
- Lower wind speed & cut-in speed
- Universal
- Simple and flexible
- Economical

Practical Applications

Lawn lamp power supply
Remote area power supply
Landscape electricity supply
Independent house energy supply
Electricity for Agriculture and Fishery
Power supply for independent unit such as ships, cars...
Microwaves relay system power supply
Wind-hydraulic mixed generation system
Independent Military
Islands power systems
Public building and community electricity supply
New wind solar mixed LED street lighting system
Correspondence base ceaseless electricity supply
Mobile or Telecommunications launches receiving power system
Street/Highway/forest-fire indicator and Monitoring System and Traffic signals

Horizontal Turbines



Vertical Turbines

OUR ACTIVITIES
Lighting

Based on modular assembly of Chinese and Europeen parts (mostly industrial and outdoor - MH SOHP, LEDS).

LED Street Lights

Finest core light units to meet today's general lighting requirement with industry leading junction temperature of 150°C, making the LED suitable for outdoor application.

Features

- Optic Technology
- Fixture Design
- High Quality Material
- Efficient Thermal Management
- Safety Feature
- Top Cover Access

Application

- Residetial Areas
- Parks
- Urban Roads
- Car Parks
- Pathways
- Pedestrian Precincts

LEDs: 30 to 160 Watts

Street lights with step airing function for solar applications

LED Floodlights

Application

- Parking Areas
- Facade Lightings
- Sports Lightings
- Commercial Areas
- Residetial Areas
- Shopping Malls

LED Warehouse Energy Saving Illumination Solution

Highbay Luminaire

Lowbay Luminaire

Eco friendly solution with Nikkon LEDXion LED Module (lowbay & highbay)

OUR NEW VENTURES (2014 - 2015)
Power & Distribution Transformers

Assembly of standard transformers in accordance to IEC 76 for temperature rise, insulation levels and dielectric test requirements. The over load withstanding capacity of transformers shall be as per IEC 354.

Tolerances applicable for no load loss, load loss, total losses, impedance voltage and voltage ratio are in accordance to IEC 76. Tapping range for standard transformers is +5% for high voltage winding variation as required.

Distribution transormers are designed with oil natural cooling wound with Copper conductor. The transformers are supplied both with corrugated tank and pressed steel radiators.

Assembly of distribution boards with any available makes of circuit breakers.

Power transformer manufacturing shall also be generally in accordance to Mauritius Central Electricity Board specialists:

- Between 50 and 1600 KVA for African needs
- Quality assurance according to ISO 9000 and international IEC standards

M&E LTD
MANUFACTURING

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