

VEHICLE CONVERSION

- CNG-HYBRID
- DIESEL-ELECTRIC
- CNG-PETROL
- CNG-DIESEL

**NIGERIA'S NO.1
CNG & HYBRID
SOLUTIONS BRAND**



CNG TRUCKS

- Designed to handle high-pressure gas and includes specialized components such as regulators and injectors.
- Better range and performance than their diesel counterparts
- Reduced Carbon Footprint
- Noise Reduction



WHY CNG?

- 80% more economical than petrol-powered vehicles.
- 50% more economical than LPG-powered vehicles.
- CNG provides cleaner combustion compared to diesel fuel.
- CNG is generally a cheaper fuel option.
- Quieter and vibration-free than diesel engines
- Fewer moving parts -this means **less wear and tear**, thus requiring **less maintenance**
- Vehicle approach sensors and cameras



DIESEL-CNG BUSES

CNG-CARS

We have a sustainable framework that delivers on creating and converting CNG-powered vehicles with the following features.

- CNG Cylinders and pressure tanks
- Pressure Regulators
- CNG Fuel Injectors
- Electronic Control Unit (ECU) that manages the engine's fuel injection and ignition systems



AUXILIARY DRIVERS

FEATURES

- Motor drives on E-axle
- Electronic differential
- Air compressor ECU
- Hydraulic ECU
- Vehicle approach sensors and cameras



**OUR EXTENSIVE
REACH ENSURES OUR
CNG PUMPS IN EVERY
PART OF NIGERIA**



OUR BATTERIES

Building on the limitations of Lithium-ion batteries such as overheating and loss of capacity during fast charging, we design and manufacture Zinc-Air Batteries with added advantages:

- Superior to Lithium battery.
- 10x Higher density to store energy
- Affordable and accessible
- Light-weight and does not overheat
- More eco-friendly



50KW & 33KW CHARGING CABLE FOR EV CHARGING STATIONS

- Low Fuel/Energy Cost
- High Engine Efficiency
- Cheap Periodic Maintenance
- Higher Performance
- Quiet, Smoke-free, Vibration-free
- Regenerative Braking
- Safer
- Longer Life



CONVERSION OF VEHICLES TO HYBRID/ELECTRIC OR FULLY ELECTRIC



ELECTRIC MOTOR HUBS

- Over 90% High Efficiency converting electrical energy into mechanical energy
- Instant torque from a standstill for rapid acceleration.
- Compact Size and Lightweight
- Quiet Operation
- Efficient for HVAC Systems



ELECTRIC AXLES

As a key component in electric and hybrid vehicles, our e-axes enhance vehicle performance, efficiency, and design flexibility.

- Integrated with Electric Motor
- Modular design, allowing for easy integration into different vehicle platforms and configurations
- High Torque Output
- Regenerative braking, converting braking energy into electrical energy to recharge the battery

440 HP YUCHAI CNG ENGINE

- 80% SAVINGS ON FUEL
- Long-lasting, high references
- Environmentally friendly
- High performance in the harshest road conditions
- Agile as a commando
- Able to operate at -50°C air temperature



CNG ENGINES FOR CLEAN TRANSPORTATION AND INDUSTRIES



LOCALISED SOLUTIONS

We have in-depth knowledge of Nigeria's energy challenges and are in line with the National Energy Transition Plan and commitment to Gas-as-a-transition fuel, our innovations are designed for Nigeria and made/assembled in Nigeria.

About Us

Our team includes international Original Equipment Manufacturers across various technology sectors, specializing in the fabrication and manufacturing of:

- CNG compressors, pumps, accessories & engines
- CNG-powered vehicles
- LNG equipment
- Electric axles, hubs and motors
- Zinc-Air Batteries
- Solar panels
- Electric Charging Stations

Contact Us

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ZOLAIR
ENERGY SOLUTIONS LIMITED

**CONVERSION
OF ALL TYPES
OF VEHICLES**

The Renewable Energy Solutions Expert