



CNG ECOSYSTEM DEVELOPMENT

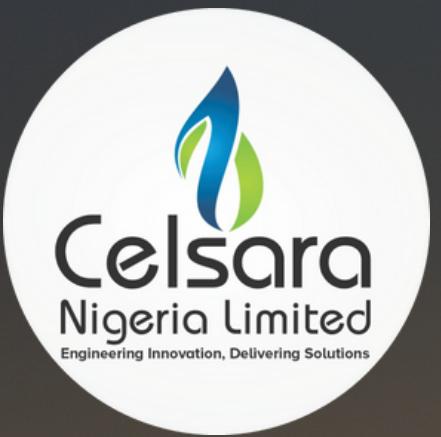




ABOUT US:

Celsara Nigeria Limited' is a company formed by Industry veterans having a cumulative experience of more than 3 decades in Oil & Gas and Transportation Industry. "BHAISHREE PETROLEUM", " SANMISH ENERGIES" & " CELPLAS INDUSTRIES' have joined hands to provide state of the art, seamless experience and service in the field of green mobility.

With experience of retro-fitment of more than 1000+ Trucks/Busses from Diesel to CNG and with industry experience of Indraprashta Gas Ltd, Mahanager Gas Ltd India and other CGD entities, the team makes a perfect blend of innovation, technology, service and quality.



WHAT WE OFFER

CELSARA' IS COMMITTED TO PROVIDE A "ONE-STOP SOLUTION" FOR THEIR GREEN ENERGY NEEDS. OUR PRODUCTS/SERVICES ARE:



Retrofitment of Vehicles & Generators from Diesel to CNG



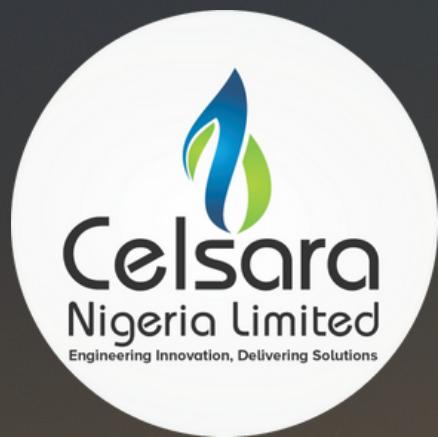
Complete CNG Station: Designing, Engineering, Execution and Implementation Solutions



CNG Storage & Transportati on Solution



CNG Distribution System: A solution for Commercials, Industries, Hospitals and Residences



CNG STATIONS



CELSARA TEAM IS PROUDLY ASSOCIATED WITH LARGEST FUEL RETAIL COMPANIES OF INDIA, NAMELY, INDIAN OIL, BHARAT PETROLEUM, GAIL, RELIANCE, CONFIDENCE, AEGIS, IPPL AND MANY MORE.



OUR DESIGN TEAM OPTIMIZES AND DESIGNS THE MOST EXQUISITE FUEL RETAIL STATIONS WITH PROPER SPACE AND EQUIPMENT UTILIZATION.



PROPER SELECTION OF EQUIPMENT'S WRT STATION SIZE, VEHICLE TYPE AND VEHICLE POPULATION IS VERY CRITICAL

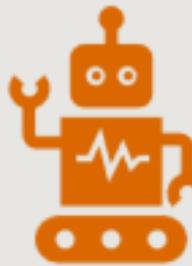


WITH ALMOST ALL THE EQUIPMENT'S BEING WITH US IN-HOUSE OR IN PARTNER COMPANIES, WE ARE THE MOST COST VISIBLE SOLUTION PROVIDER FOR OUR CUSTOMERS.



MOTHER/ONLINE /DAUGHTER STATIONS

01



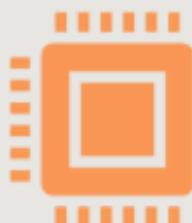
**EXTENSIVE EXPERIENCE OF DESIGNING,
CONSTRUCTION AND IMPLEMENTATION OF CNG
MOTHER/ONLINE STATIONS**

02



**IN-HOUSE/STRATEGIC PARTNERSHIPS FOR
COMPRESSORS, BOOSTERS, DISPENSERS,
CASCADES, HIGH PRESSURE INSTRUMENTATION
AND MECHANICAL TUBES & FITTINGS AND OTHER
STATION EQUIPMENT'S.**

03



**COST EFFECTIVE DESIGNING TO SUITE
THE DEMAND.**





MOBILE CNG REFUELING STATION (MRU):

- **COMPACT AND EASE OF MOBILITY.**
- **REFUELING OF LIGHT AND HEAVY-DUTY VEHICLES ON THE GO.**
- **POSSIBILITY TO REFUEL FIXED GROUND STORAGE FOR INDUSTRIES, HOUSES, RESTAURANTS, POWER GENERATORS, ETC.**
- **POSSIBILITY TO DISCHARGE TRAILER UNTIL 30 BAR**
- **POSSIBILITY TO SELF-RECHARGE FROM PIPELINE**
- **COMPLETELY INDEPENDENT FROM EXTERNAL POWER SOURCES**
- **STORAGE CAPACITY ACCORDING TO APPLICATION NEEDS.**
- **CAPACITY CAN BE DESIGNED TO FILL AS PER REQUIREMENT**



BENEFITS OF MOBILE CNG STATION:

- TRUCKS FUEL WHILE PARKED OVERNIGHT
- DRIVERS SPEND THEIR TIME DRIVING INSTEAD OF FUELING
- INCREASE FUEL COST SAVINGS AND INCREASE PROFITABILITY
- NO LARGE CAPITAL EXTENSIVE INVESTMENTS
- NO LONG-TERM FUEL SUPPLY CONTRACTS
- NO CONNECTION TO NATURAL GAS PIPELINE
- TAKE CONTROL OF ONE OF YOUR LARGEST OPERATING COSTS
- CONCEPT IS BASED UPON HELPING TO SOLVE THE 'CHICKEN & EGG' – FUELING & NGVS – PARTICULARLY WHERE THERE WERE/ARE NO PIPELINE CONNECTIONS AVAILABLE.
- ALSO USED AS A STRATEGY TO DELIVER GAS ON A TEMPORARY BASIS TO VEHICLES, COMMERCIAL SECTOR OR SMALL INDUSTRIAL GAS CONSUMERS



STORAGE & TRANSPORTATION SOLUTIONS

**TYPE 1, 3 & 4
CYLINDERS FOR
CNG**

**STORAGE
SOLUTIONS FROM
60 LTRS TO 20000
LTRS**

**CNG CASCADES
FOR MOBILIZING
CNG TO PLACES
NOT CONNECTED
WITH PIPELINES.**

**CNG/LPG MOBILE
REFUELING SYSTEM
FOR DOOR-STEP
DELIVERY OF FUEL**

**LNG SMALL
CYLINDERS FOR
CARRYING MORE
GAS IN LESS
VOLUMES**



STORAGE & TRANSPORTATION SOLUTIONS

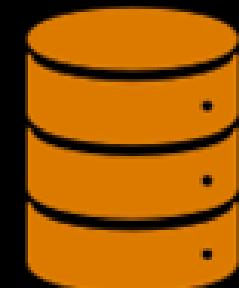
OUR TEAM OF EXPERTS HAVE DEVELOPED, TESTED AND CURATED THE TECHNOLOGY OF VEHICLES
RUNNING ON CNG DELIVERING SUPERIOR PERFORMANCE WITH SIMILAR FUEL EFFICIENCY
LEADING TO HUGE COST SAVINGS.



Existing Diesel
Cars/Trucks/Busses
shall be converted to
Monofuel CNG Cars/
Trucks/Busses



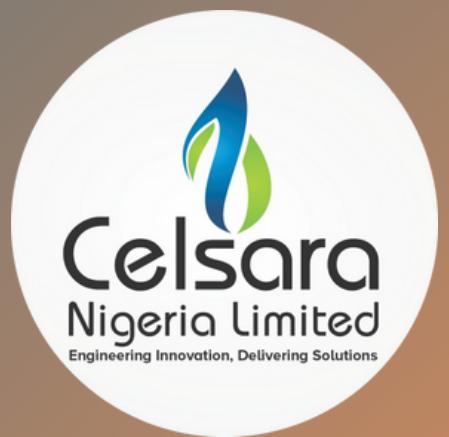
Complete Engine
Overhauling



Technology for CI
Engine to be
modified into SI
Engine



CNG Storage
Options providing
range as per
requirement



- INNOVATIVE SOLUTIONS FOR MAKING CNG AVAILABLE FOR COMMERCIALS, INDUSTRIES, HOSPITALS, SCHOOLS, RESIDENTIAL SOCIETIES.
- COST EFFECTIVE WAY OF REPLACING DIESEL WITH GREEN FUELS
- HIGH PRESSURE HANDLING WITHOUT ANY MANUAL INTERVENTION
- PLUG & PLAY





GENSET DUAL FUEL BASICS

KNOWLEDGE

Dual Fuel Technology Benefits

Low Impact engine conversion
Diesel mode full backup
Low-and High-pressure Natural Gas
compatible
No power loss after
Dual Fuel conversion
No torque loss after Dual Fuel
conversion
Reduce the engine
pollutions
Better engine oil quality
Less operative costs

Diesel / Natural Gas Substitution Rate



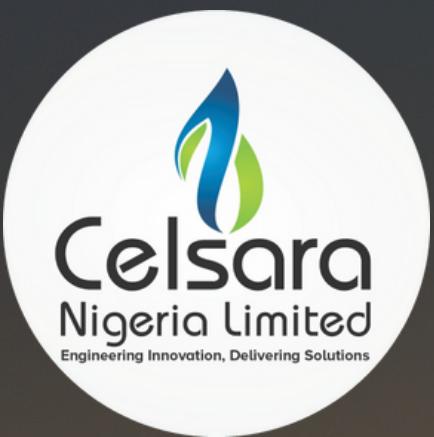
- **50-70%NaturalGas**
- **30-50%Diesel**

The Average Diesel/Natural Gas
substitution rate could vary in a range
between 50 to 80%, according with the
type of engine and the average load
applied moreover the natural gas quality.



BENEFITS OF DUAL FUEL KIT INSTALLATION

- 01 • FLEXIBILITY TO OPERATE BETWEEN DIESEL AND DUAL FUEL (DIESEL + NATURAL GAS/ LPG) MODE.
- 02 • IN DUAL FUEL MODE, THE SAME DIESEL MODE POWER IS AVAILABLE
- 03 • IN OLD ENGINES, WHERE THE DIESEL SYSTEM IS DEGRADED, DUAL FUEL OPERATION OFFERS BETTER POWER THAN DIESEL MODE.
- 04 • OPERATING COST SAVINGS DUE TO THE HIGHER ENERGY CONTENT OF GAS AND NATURAL GAS PRICING.
- 05 • NO MAJOR MODIFICATION TO THE BASE ENGINE
- 06 • NO ADDED EXHAUST BACK PRESSURE AND ASSOCIATED ISSUES.
- 07 • NO PARTICULATE MATTER DISPOSAL ISSUES.
- 08 • QUICK INSTALLATION (2 TO 3 DAYS) IN CASE OF NATURAL GAS AVAILABILITY NEAR GENSET LOCATION.
- 09 • AUTOMATIC SET TO 100% DIESEL IN CASE OF TROUBLE DETECTION



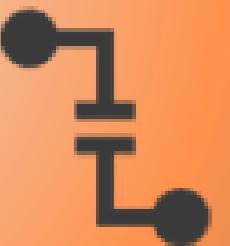
KEY FEATURES



**OMS IN HOUSE CONTROLLER
(MAKE IN INDIA) 7 INCH
TOUCHSCREEN DISPLAY**



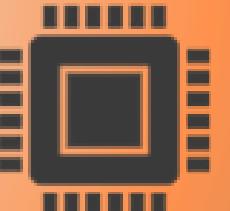
**ALL PERFORMANCE
PARAMETERS AND ERROR
MESSAGES ARE DISPLAYED ON
ASCREEN**



**KNOCK AND EXHAUST
TEMPERATURE BASED SAFETY
LOGIC HAS ADDED LOAD-BASED
CONTROL**



**30 TO 70% DIESEL SUBSTITUTION
DEPENDING ON LOAD CYCLE
AND GAS QUALITY 12 V TO 24 V
DC SUPPLY COMPATIBLE**



**SYSTEM IS TELEMATICS CAPABLE
(CLOUD BASED REMOTE
MONITORING) AUTOCALIBRATION
AND FUZZY LOGIC FOR BETTER
ENGINE SAFETY**



**GAS FLOW METER CAN BE
ADDED AS PER CUSTOMER
REQUIREMENT**



OUR CNG PRODUCT RANGE

01

CNG DISPENSERS

02

CNG MOBILE REFUELING UNIT

03

**CNG INTEGRATED SYSTEM/CNG
PNEUMATIC BOOSTERS/HYDROGEN
BOOSTERS**

04

GAS ENGINES

05

GAS GENERATORS



LOCAL ESTABLISHMENT IN NIGERIA



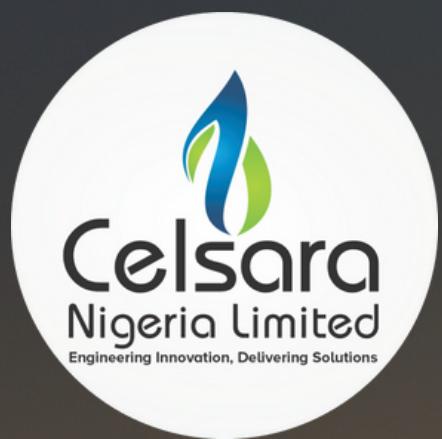
We are a Local
Nigerian
Company



We have plans of
establishing local
manufacturing of
equipment's



Celsara is a Local
Nigerian Entity and
shall ensure 100%
post sales support.



COSTING:

Our Customized solutions will ensure best prices to industry

Depending on requirement, costing shall be submitted for Online/Mother/Daughter Stations and MRU.

PHOTOGRAPHS



PROJECTS



A large construction site featuring several yellow tower cranes of different heights. In the background, a tall residential or office building is under construction, its structure covered in a blue safety mesh. The sky is overcast and grey. In the bottom left corner, there is a small logo for 'Cohcons' with a stylized 'C' and 'cohcons' text.

THANK
YOU.