



OMTECH SYS

RE-ENERGISING LIFE CYCLE

End-to-End CNG & Bio-CBG Infrastructure Consultants
Vehicle Conversion · Accessories · Import / Export

200+

STATIONS BUILT

40K+

VEHICLES CONVERTED

2

COUNTRIES

15yr

EXPERIENCE



+91 87882 70729



omtechsysenquiry@gmail.com



Vile-Parle, Mumbai — 400029



COMPANY OVERVIEW

Who We Are

OmTech Sys is a Mumbai-headquartered energy infrastructure company delivering **end-to-end CNG and Bio-CBG solutions** across India and Nigeria. Founded on the conviction that no energy project should fail due to a fragmented vendor chain, we built one team that owns the entire pipeline — from first site visit to long-term support.

We operate across **five integrated business lines**: CNG station consulting, vehicle fleet conversion, Bio-CBG plant development, accessories and spare parts supply, and international import-export of commodities and machinery between India and Nigeria.

■ OUR MISSION

Make clean fuel infrastructure accessible, fast, and reliable by owning the full delivery chain.

■ OUR MISSION

Be the most trusted cross-border CNG and Bio-CBG partner across South Asia and West Africa.

CORE VALUES

■	ACCOUNTABILITY	One team, one contract — we own outcomes end to end.
■	SAFETY FIRST	Every project follows strict regulatory and safety protocols.
■	SPEED	Parallel-track execution cuts commissioning time by 35% vs industry average.
■	GLOBAL REACH	Active consulting and supply operations across India and Nigeria.



OUR SERVICES

Five Business Lines. One Accountable Partner.



CNG Station Development

Land to live dispensing — full turnkey delivery.



Vehicle Fleet Conversion

Petrol & diesel to CNG — all vehicle classes, AIS approved.



Bio-CBG Plants

Organic waste to vehicle-grade fuel — SATAT aligned.



Accessories & Spares

Kits, cylinders, regulators, dispensers, station spares — in stock.



Import / Export

Palm oil, rice, stone flower, sesame, machinery — India ↔ Nigeria.



Turnkey Projects

One contract, full delivery — CNG stations, Bio-CBG plants, workshops.



CNG STATION DEVELOPMENT

End-to-End Delivery — Land to Live Dispensing.

OmTech Sys provides **complete CNG station development** — from the very first site visit and land negotiation, through every regulatory clearance, to the moment your dispenser activates. **One team. One contract. Zero gaps.**

DETAILED SCOPE OF WORK

01	Site Identification & Land Acquisition Location analysis, traffic density survey, demand projections, title due diligence, encumbrance checks, lease/purchase negotiation, zoning clearance.
02	Statutory Approvals & Licensing PNGRB authorization, PESO approval, fire NOC, environmental clearance, PCB consent (CTE/CTO), all municipal permissions. Nigeria: NMDPRA & DPR clearances.
03	Detailed Project Report (DPR) Technical design, financial modelling, ROI projections, risk analysis, phased implementation plan — suitable for bank financing and investor presentations.
04	Station Engineering & Design Civil/structural engineering, P&ID;, single-line diagrams, HAZOP study, safety distance calculations, layout optimization for maximum throughput.
05	Equipment Supply & Installation Certified OEM: reciprocating compressors, high-pressure cascades, storage spheres, digital dispensers, control panels, SCADA, safety shut-off valves, gas detectors.
06	Civil & MEP Works Foundation and canopy works, electrical installation, UPS/DG backup, fire suppression, bunded forecourt, CCTV, safety signage per norms.
07	Gas Dispensing Commissioning System commissioning, dispenser calibration ($\pm 0.5\%$), pressure/leak testing, interlock testing, as-built documentation.
08	Training, SOPs & Handover Operator training, Standard Operating Procedures, emergency response plan, maintenance schedule, 12-month post-commissioning support.



STATION TYPES WE DELIVER

Station Type	Description	Capacity	Ideal For
Online (Mother)	Direct pipeline high-pressure supply	Up to 4,000 kg/hr	Major city nodes, highway hubs
Offline (Daughter-Booster)	Mobile cascades from mother stations	Up to 1,500 kg/hr	New zones, expansion areas
CNG-cum-Retail	CNG integrated with petrol/diesel	Flexible	Highway retail fuel stations
Fleet Station	Captive CNG for fleet owners	Custom	Bus depots, logistics parks



VEHICLE CONVERSION SERVICES

Petrol & Diesel to CNG — Safe, Certified, Cost-Effective.

OmTech Sys provides **AIS-certified CNG conversion** for every vehicle class — personal cars to heavy trucks. Save up to 50% on fuel. Reduce emissions. Retain full performance.

■ PETROL TO CNG

Sequential & Venturi Kit Conversion

- ✓ AIS 027/110 approved sequential injection kits
- ✓ ECU-mapped for performance & mileage
- ✓ Dual-fuel — petrol retained as backup
- ✓ Complete RTO endorsement documentation
- ✓ Vehicles: cars, taxis, autos, vans, SUVs
- ✓ Turnaround: 1–2 days · Warranty: 1yr/20Kkm

■ DIESEL TO CNG

Dual-Fuel Diesel-CNG Retrofit

- ✓ AIS 150 certified dual-fuel diesel-CNG kits
- ✓ Engine compression compatibility check
- ✓ Full diesel power and torque maintained
- ✓ Fleet depot-visit programs available
- ✓ Vehicles: buses, trucks, LCVs, generators
- ✓ Turnaround: 3–5 days · Saving: 40–55%

VEHICLE CATEGORIES & FUEL SAVINGS

Vehicle	Kit Type	Fuel Saving	Payback	Turnaround
Hatchback / Sedan	Sequential CNG	45–50%	~10 months	1 day
Taxi / Cab	Sequential CNG	48–52%	~8 months	1 day
3-Wheeler Auto	Venturi/Sequential	40–48%	~6 months	1 day
LCV / Mini Truck	Dual-Fuel D-CNG	35–45%	~14 months	2–3 days
City Bus	Dual-Fuel D-CNG	40–55%	~12 months	3 days
Highway Truck	Dual-Fuel D-CNG	35–50%	~18 months	4–5 days
Industrial Generator	Dual-Fuel D-Gas	30–45%	~24 months	2 days

VEHICLE CONVERSION PETROL & DIESEL TO CNG

Smart Conversion. Better Performance.
Greener Tomorrow.

- ✓ Save Money
- ✓ Reduce Emissions
- ✓ Increase Engine Life
- ✓ Environment Friendly



PETROL / DIESEL



CNG

BENEFITS OF CNG CONVERSION



Lower Running Cost



Eco Friendly Fuel



Better Performance



Reduced Emissions



Increased Engine Life



High Safety Standards

6-STEP CONVERSION PROCESS

01	Vehicle Inspection Engine check, fuel system, cylinder space evaluation.
02	Kit Selection Matching AIS-approved kit to vehicle make, engine type and use case.
03	Certified Fitment Installation by trained technicians per AIS/RTO standards.
04	Pressure & Leak Test High-pressure leak testing and gas-tightness verification at all joints.
05	ECU Calibration ECU mapping for optimal CNG/petrol switching and performance.
06	Docs & Handover RC endorsement support, warranty documentation, driver orientation.



BIO-CBG PLANT SOLUTIONS

Compressed Biogas — Turning Organic Waste into Clean Fuel.

OmTech Sys designs and delivers **Bio-CBG (Compressed Biogas) plants** converting agricultural residue, cattle dung, Napier grass, food waste, press mud and MSW into vehicle-grade CNG — fully aligned with India's **SATAT mission**.

HOW A BIO-CBG PLANT WORKS

01	Feedstock Reception & Pre-treatment Organic waste weighed, tested for VS/TS content, shredded and mixed with process water to achieve optimal slurry consistency.
02	Anaerobic Digestion Slurry fed into sealed digesters — bacteria break down organic matter over 25–30 day HRT producing raw biogas (55–65% CH ₄).
03	Biogas Purification / Upgradation H ₂ S scrubber, moisture trap, CO ₂ removal (PSA/Membrane) achieving 95%+ methane purity.
04	Compression & Cascade Filling Purified gas compressed to 200–250 bar for vehicle filling or cylinder bank supply.
05	FOM — Fermented Organic Manure Digested slurry dewatered and composted to FCO-certified FOM for additional revenue.
06	CO₂ Capture (Optional) Separated CO ₂ purified to food-grade for industrial buyers — additional high-value revenue stream.



CAPACITY REFERENCE BY PLANT SCALE

Scale	Feedstock/Day	Feedstock Type	CBG Output	FOM Output
Small (Farm)	5–10 TPD	Cattle dung + agri residue	200–400 kg/day	3–6 T/day
Small-Med	10–25 TPD	Napier grass + cattle dung	400kg–1T/day	6–15 T/day
Medium	25–50 TPD	Paddy straw + food waste	1–2 T/day	15–30 T/day
Large	50–100 TPD	Press mud + food waste	2–4 T/day	30–60 T/day
Industrial	100–150 TPD	MSW + organic waste	4–8 T/day	60–90 T/day

WHAT OMTECH SYS DELIVERS

 Feasibility & DPR Feedstock study, mass balance, financial modelling, DPR for bank financing.	 SATAT & Regulatory SATAT registration, MNRE/state subsidies, PCB consent, env. clearance.	 Plant Engineering Process design, digester sizing, civil drawings, P&ID, instrumentation.
 Equipment & Build OEM sourcing, civil supervision, skid erection, pipework, commissioning.	 FOM Marketing Connecting plant owners with fertilizer buyers for FOM revenue optimization.	 Training & Support Operator training, process optimization, 12-month post-commissioning support.

IMPORT / EXPORT & ACCESSORIES

Global Trade Desk — India to Nigeria and Beyond.

OmTech Sys manages sourcing, quality inspection, freight, customs documentation and last-mile delivery across India and Nigeria.

Commodity / Product	Trade Direction	Key Details
■ Palm Oil	Nigeria → International	CPO & refined, flexitanks/ISO tanks, SGS certified, RSPO
■ Rice (Basmati & Non-Basmati)	India → Nigeria & World	APEDA registered, phytosanitary cert., 5–50 kg bags/bulk
■ Stone Flower (Kalpasi)	India → International	Spices Board India certified, specialty culinary spice
■ Sesame Seeds	India → International	99.95% purity, hulled/natural, BIS certified, 25 kg bags
■ Old & New Machinery	India ↔ Nigeria	Generators, compressors, CNC machines, pumps, units

ACCESSORIES & SPARE PARTS — IN STOCK

Part / Accessory	Specification	Certification	Status
CNG Conversion Kit (Petrol)	Sequential injection, venturi kits	AIS 027/110	In Stock
Dual-Fuel Diesel-CNG Kit	Heavy vehicle dual fuel retrofit	AIS 150	In Stock
CNG Cylinder Type-1	Steel, all water capacities	IS 15490	In Stock
CNG Cylinder Type-2	Hoop-wrap composite	IS 15490	In Stock
Pressure Regulator / Reducer	All pressure ranges	ARAI Approved	In Stock
Gas Dispenser (Single/Dual)	Digital metering, dual hose	OIML/BIS	In Stock
Compressor Spares	Valves, rings, belts, filters	OEM Genuine	In Stock
Safety Equipment	Gas detectors, PRVs, E-stops, PPE	BIS/CE	In Stock





OUR CLIENTS

Trusted by Leading Gas Companies Across Two Countries.

OmTech Sys serves city gas distribution companies in India and gas marketers in Nigeria — from initial consulting to long-term equipment supply and conversion programs.

■■ INDIA — CITY GAS DISTRIBUTION	■■ NIGERIA — GAS MARKETERS
◆ GAIL — Gas Authority of India Ltd.	◆ Power Gas Nigeria
◆ MNGL — Maharashtra Natural Gas Ltd.	◆ NGC — Nigerian Gas Company
◆ GGL — Gujarat Gas Limited	◆ Shell Nigeria Gas Ltd.
◆ Adani Total Gas Ltd.	◆ Nipco Gas Limited
◆ IGL — Indraprastha Gas Limited	◆ Green Energy International Ltd.
◆ Torrent Gas Pvt. Ltd.	

TRACK RECORD

200+

STATIONS BUILT

40K+

VEHICLES CONVERTED

11 mo

AVG COMMISSIONING

2

COUNTRIES ACTIVE





CLIENT TESTIMONIALS

What Our Partners Say.



"OmTech Sys delivered our 3-station CNG network on time and within budget. Regulatory handling was exceptional — we didn't follow up a single approval ourselves."

Rajesh Mehta

Director, Mehta Transport Co. — Pune, India



"Converting our 300-bus fleet from diesel to CNG was seamless. Zero downtime, certified documentation, and fuel savings visible within the first month."

Sunita Prakash

Fleet Manager, City Metro Bus Corp — Pune, India



"Bio-CBG plant consulting saved us 4 months on approvals and secured SATAT benefits. They understand both the technology and the business side."

Arvind Lal

MD, GreenFuel Ventures — Rajasthan, India



"We imported CNG compressors through OmTech Sys. Documentation was clean, customs smooth, equipment quality excellent."

Emeka Okafor

CEO, Power Gas Nigeria — Lagos, Nigeria



"As a first-time investor I was nervous. OmTech Sys guided me from land evaluation to the day we dispensed the first kg. Highly recommend."

Priya Shenoy

First-Time CNG Station Investor — Mumbai, India



"Turnkey project team is world class. CNG station commissioned in 11 months from land signing. The PNGRB approval alone usually takes longer!"

Vikram Shah

Partner, Shah Energy Pvt. Ltd. — Gujarat, India

4.9/5.0



Based on 120+ verified client reviews

Across India & Nigeria — 2010 to 2026





OM TECH SYS

RE-ENERGISING LIFE CYCLE

THANK YOU

for choosing Om Tech Sys as your energy partner.

It's a pleasure working with you



*Re-Energising Life Cycle : starts with one thing,
A partnership rooted in trust, expertise and a shared
vision for a cleaner, greener energy future.*



— Om Tech Sys



+91 87882 70729
+234 906 144 0666



omtechsysenquiry@gmail.com
info@omtechsys.in



Vile-Parle, Mumbai — 400029
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