



LAIMEX

ENERGY SOLUTIONS

Complete Gas & Energy Solutions

CNG • NGV • LCNG • LNG • PNG
ENGINEERING • EPC • COMMISSIONING • O&M • TECHNICAL CONSULTANCY



Field-led solutions across the gas value chain

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Built from the field. Focused on the right solution.

WHO WE ARE

LAIMEX Energy Solutions delivers tailored gas and energy solutions for industrial customers, project developers and investors across PNG, CNG, LCNG and LNG. We support the full project lifecycle—from technical assessment and solution selection to engineering, equipment sourcing, installation, commissioning, training and O&M.

WHY OUR APPROACH IS DIFFERENT

Our approach is shaped by nearly two decades of hands-on experience in projects, commissioning, plant operations and maintenance, including client-side engineering and management roles. This practical background gives us a clear understanding of Nigeria's operating environment, supplier gaps, maintainability needs and the conditions that determine whether a project continues to perform after handover.

SOLUTION-LED, NOT PRODUCT-LED

We are not restricted to one gas route, equipment brand or project type. Every recommendation is assessed against demand, site conditions, safety, lifecycle cost, reliability, local support and future expansion—so clients receive the solution that best fits their business, not simply the product a supplier wants to sell.



**FIELD EXPERIENCE
INFORMS EVERY
DECISION**

More than a supplier. A long-term technical partner.



Every gas solution. One partner.

LAIMEX helps clients select, develop and operate the gas solution that best fits their demand, site and long-term business plan.



CNG STORAGE & DISTRIBUTION



PNG / PRMS & METERING



LNG / LCNG INFRASTRUCTURE

CORE CAPABILITIES

Complete capability, one accountable team

Turnkey Projects & Infrastructure

We deliver customised turnkey projects and infrastructure, tailored for PNG, CNG, LCNG and LNG applications.

Commissioning, O&M & Manpower

Testing, start-up, operator readiness, preventive maintenance, troubleshooting and competent technical manpower.

Engineering & Project Delivery

Process, mechanical, electrical, instrumentation, OEM coordination, installation and balance-of-plant integration.

Advisory, Training & Support

Feasibility reviews, technical due diligence, safety training, lifecycle guidance and support after commissioning.



Pipeline gas infrastructure built around your operation

LAIMEX delivers customised PNG receiving, pressure regulation, metering and distribution projects. Each system is engineered around site conditions, gas demand, required outlet pressure, safety, maintainability and future expansion.



PRMS • METERING • CONTROL
Safe, accurate, maintainable.

END-TO-END PROJECT SCOPE

From engineering to reliable operation

Engineering & Design

Site survey, demand assessment, process design, equipment sizing, P&IDs, layouts and execution planning.

Installation & Commissioning

Testing, calibration, leak checks, start-up, performance verification and handover.

PRMS & System Integration

Filtration, heating, pressure regulation, metering, piping, E&I, automation, ESD and gas detection.

O&M & Lifecycle Support

Preventive maintenance, troubleshooting, operator training and technical manpower.



Customised CNG infrastructure, built around your operation

LAIMEX delivers tailored, turnkey CNG and NGV infrastructure, including mother and daughter stations, booster compressor packages, cascade systems, dispensers and industrial end-user projects.



BOOSTER COMPRESSOR • CASCADE • NGV



CUSTOMISED CNG & NGV PROJECTS

From compression to reliable end use

Mother Stations & Compression

Gas treatment, compression, priority panels, storage, loading systems, metering, E&I and automation.

Booster Compressors & Cascades

Booster packages with overhead cascade storage, integrated manifolds, controls and safety systems.

NGV Stations & Dispensing

Complete NGV station development covering layout, storage, booster compression, dispensers, metering, E&I, safety and commissioning.

Daughter & End-User Systems

Decompression, PRMS, heating and end-user infrastructure, supported by commissioning, O&M, training and technical manpower.



LCNG REFUELLING STATIONS

Complete LCNG station delivery

LAIMEX engineers and delivers LCNG stations that convert LNG into high-pressure CNG for public autogas and captive fleet refuelling. We integrate storage, HP cryogenic pumping, vaporisation, CNG buffering, dispensing, E&I, safety systems and station control.

INTEGRATED PROCESS

LNG STORAGE

HP CRYOGENIC PUMPING

HP VAPORISATION

CNG DISPENSING

One EPC scope. One accountable technical partner.



**LNG STORAGE • HP PUMP SKID
HP VAPORIZERS • CNG DISPENSERS**

ENGINEERING & EPC SCOPE

Complete delivery for CNG mobility

Project Development

Feasibility, demand assessment, site layout, process design, equipment sizing, P&IDs and execution planning.

Equipment Integration

LNG tank and unloading, HP pump skid, HP vaporizers, CNG buffer or cascade, dispensers, metering and station control.

Construction & Commissioning

Civil and BOP works, piping, E&I, safety systems, testing, cooldown, start-up and performance verification.

O&M & Training

Preventive maintenance, operations and safety training, technical manpower, spares and after-commissioning support.

Designed for public autogas and captive fleet refuelling.



Industrial LNG infrastructure for reliable gas supply

LAIMEX delivers customised LNG storage and regasification facilities, integrating unloading, cryogenic storage, vaporizers, PRMS, metering, PLC/SCADA, F&G, BOG utilization and EAG safe-vent systems.



BOG • EAG • F&G

PLC/SCADA control with integrated F&G.

ENGINEERING & LIFECYCLE SCOPE

Complete delivery for industrial LNG

Engineering & EPC

Feasibility, process design, equipment sizing, P&IDs, layouts, procurement and execution planning.

BOG & EAG Management

BOG vaporizer enables gas use; EAG vaporizer warms relief gas for safe venting.

Storage & Regasification

Unloading pump skid, LNG tank, PBU, main and BOG/EAG vaporizers, PRMS, metering, PLC, SCADA and F&G.

Commissioning & O&M

Cool-down, testing, start-up, training, preventive maintenance and technical support.



Keeping gas facilities safe, reliable and ready to perform

LAIMEX supports CNG, LCNG and LNG facilities from pre-commissioning through stable operation—combining field experience with structured maintenance, troubleshooting, integrity checks, automation support and training.



LIFECYCLE SUPPORT

Lifecycle support beyond project handover

Testing & Commissioning

Pre-commissioning, leak testing, calibration, loop checks, ESD/F&G verification, start-up and performance testing.

Maintenance & Asset Integrity

Inspection and troubleshooting of compressors, PRMS, valves, piping, hoses, instruments and safety systems.

O&M & Technical Manpower

Operations support, preventive and corrective maintenance, shift coverage, AMCs and competent field teams.

Automation, Training & Support

PLC/HMI/SCADA support, alarm and backup checks, SOPs, operator and safety training, and post-start-up support.



Independent guidance grounded in real field experience

LAIMEX helps clients make sound decisions across CNG, LCNG and LNG projects by reviewing demand, site conditions, design, safety, operability, execution risks and lifecycle needs.



SITE & DESIGN REVIEW

**Need-led.
OEM-neutral.**

OWNER'S ENGINEERING SUPPORT

Better decisions before project commitment

Feasibility & Concept Selection

Demand assessment, site screening, gas-route comparison, capacity planning, technology selection and project definition.

Design Review & Owner's Engineering

Constructability, operability, maintainability, safety and interface reviews with clear actions.

Technical Due Diligence

Independent review of PFDs, P&IDs, layouts, datasheets, vendor offers, compliance gaps and execution risks.

Project Planning & Compliance

Scope, BOQ/MTO and tender reviews, contractor evaluation, document control and regulatory coordination.



Building capable teams for safe, reliable gas operations

COMPETENT TECHNICAL MANPOWER

LAIMEX provides competent operators, technicians, supervisors and specialist support for CNG, LCNG and LNG facilities. Teams can support start-up, shift operations, maintenance, troubleshooting and planned technical interventions.

PRACTICAL OPERATIONS TRAINING

Training is built around the actual facility, equipment and operating risks. We cover start-up, normal operation and shutdown; station checks; alarms and ESD response; routine maintenance; and safe handling of gas systems. Sessions combine clear procedures with practical, field-based coaching.

SOPS, SAFETY & COMPETENCY

We support SOP development, toolbox talks, permit-to-work awareness, emergency drills and task-based competency assessment. Refresher training and field coaching help teams sustain safe, consistent performance.



**FIELD-READY TEAMS
SAFE, RELIABLE
OPERATIONS**

Capable teams support safe, reliable infrastructure.



Equipment selected to fit the duty

When required, LAIMEX supplies equipment and critical spares selected for duty, safety, compatibility, maintainability and local support.



SUPPORTING CAPABILITY

Specified for duty. Supported in service.

Process Equipment Packages

Compressors, boosters, pumps, vaporizers, PRMS, storage systems, cascades and dispensing equipment.

Piping, Valves & Fittings

High-pressure tubes, CNG hoses, SS piping, regulators, valves, ferrule fittings and installation accessories.

Automation & Safety Systems

PLC/SCADA panels, instruments, metering, F&G, ESD, gas detection and field devices.

Critical Spares & Service Kits

Regulator and valve kits, seals, sensors, filters, cartridges and maintenance-critical replacements.



INDUSTRIES & APPLICATIONS

Serving industry mobility & power

Demand profile, pressure, duty cycle, space and operating risk vary by user. LAIMEX engineers PNG, CNG, LCNG and LNG infrastructure—including NGV refuelling applications—around the actual site, safety, performance and lifecycle needs.

APPLICATION FOCUS

INDUSTRIAL USERS

NGV & FLEET MOBILITY

GAS INFRASTRUCTURE

POWER & UTILITIES

One approach.
Engineered for the actual duty.



INDUSTRY • NGV MOBILITY GAS INFRASTRUCTURE • POWER

APPLICATION-LED ENGINEERING

Infrastructure matched to the operating duty

Industrial & Manufacturing

PNG receiving, CNG downloading and LNG storage or regasification for continuous process and thermal-energy demand.

NGV & Haulage Fleets

Public and captive CNG or LCNG refuelling stations for NGV fleets, designed around vehicle mix, throughput and peak demand.

Gas Developers & Operators

Mother stations, daughter stations, storage, distribution, dispensing and balance-of-plant integration for gas projects.

Power & Utility Users

Gas receiving, conditioning, pressure regulation, metering and automation for engines, turbines, boilers and utility loads.

Fit the solution to the duty—not the duty to the product.



A disciplined path from concept to stable operation

LAIMEX connects assessment, engineering, execution, commissioning and lifecycle support under one technical team—reducing interface gaps between project stages.



ASSESS • ENGINEER •
EXECUTE
Commission •
Sustain

CONNECTED PROJECT LIFECYCLE

One team. Connected responsibility.

Feasibility & Definition

Demand validation, site survey, gas-route selection, capacity basis, risk review and project definition.

Construction & Commissioning

Civil and BOP works, installation, QA/QC, testing, start-up, performance validation and handover.

Engineering & EPC Planning

Process, mechanical and E&I design, layouts, P&IDs, BOQ/MTO, procurement, scheduling and construction planning.

Operations Readiness & Support

SOPs, training, manpower, preventive maintenance, troubleshooting, spares strategy and continuous improvement.

Clear ownership from the first decision to reliable operation.



Safety, quality and compliance built into project delivery

RISK-BASED PLANNING & HSE

Project-specific risk reviews, method statements, permit-to-work coordination, toolbox talks and emergency controls guide activity from mobilisation to start-up.

QUALITY & TRACEABILITY

Inspection and test plans, QA/QC records, material certificates, calibration evidence and vendor dossiers support each acceptance point and make project decisions traceable.

COMPLIANCE & CLOSE-OUT

Applicable Nigerian requirements and relevant international codes guide execution. Testing packs, punch-list closure, as-builts and handover evidence complete the project record.



**SAFE EXECUTION
VERIFIED QUALITY
HANDOVER READY**

Plan safely. Build correctly. Verify before handover.



WORKING TOGETHER

**Simple.
Practical.
Reliable.**

We start with the operating need, define a practical technical solution, align responsibilities and remain accountable through delivery, start-up and sustained operation.

ENGAGEMENT FLOW

01 DISCOVER

02 DEFINE

03 PROPOSE

04 DELIVER

05 SUSTAIN
Support beyond handover.



**SIMPLE ENGAGEMENT • ACCOUNTABLE DELIVERY
FIELD-LED • LIFECYCLE SUPPORT**

START A CONVERSATION

Share the need. We will define the right path.

Project Objective

Gas application, required capacity, pressure, operating profile and target completion date.

Technical Information

Available drawings, equipment data, utilities, site conditions, access and operating constraints.

Scope & Delivery

Required deliverables, responsibilities, schedule, decision-makers and preferred contracting framework.

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SCAN FOR OUR DIGITAL PROFILE

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