

Company Profile

**LU
XX
OR**
Gas



Tomorrow's Fuel, Delivered Today.



LuxxorGas will go beyond by building on our pipeline expertise, technology and people to be the company of choice for distribution of hydrocarbon energy and associated services

Our goal is to be a superior investment through the production, transmission & distribution of natural gas and natural gas liquids to customers in the West Africa region.



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To me the point of a fuel company is to take away the stress of keeping my generators running and the LuxxorGas team do this perfectly. These were the same guys that fitted us a remote sensor which allows us to keep track of fuel levels, reducing non-technical losses and ensuring I always order fuel in good time.

Would I recommend them? Without a shadow of doubt!

CEO (Cityscape International PLC - Real Estate Development)

Who We Are

LuxxorGas Ltd (LXG) is a privately-owned company specialising in the distribution and commercialisation of Natural Gas in West Africa. It is a wholly owned subsidiary of The Luxxor Group, with distribution operations within Nigeria.

LXG is an autonomous company with a highly innovative product with huge market prospects. The company is divided into two divisions; Industrial and Automotive. The Industrial division specialises in the Distribution of Compressed Natural Gas (Methane/Pipeline Gas) to stranded assets which are off pipeline networks, thus enabling wider access to cleaner, cheaper more sustainable natural gas. While the automotive is part of a long term development plan to strategically place CNG in the automotive market place as a verifiable alternative to conventional fuel sources including Petrol and Diesel.

We serve the market a cheaper, cleaner, more sustainable alternative fuel.

What We Do

Our Services are aligned to the Nigerian Federal Government's efforts to increase domestic Natural Gas utilization as an alternative energy source to the more costly, overwhelmingly imported fuel oils, which negatively impact the local economy.

What We Offer

We offer several strategic solutions for our customers. One of which is to service those whom are located in the areas isolated from existing gas distribution pipelines. This is performed through our proprietary gas delivery network, which includes multiple transport modes; utilising trucks via roads, and barges via waterways. This concept also guarantees reliable and stable gas pressure at customer sites, regardless of whether they are within, or out of Pipeline Coverage.

Another means by which we comprehensively cover our customers' needs is by Designing, Building and Operating Natural Gas refuelling stations across Nigeria on and off Pipeline routes. A significant operation which provides our contracted customers ready convenient access to natural Gas fuel, with little or no investment, allowing them to completely focus their time and valuable capital on operating their fleets.



LIQUIFIED NATURAL GAS

LNG, or Liquefied Natural Gas, is primarily Methane (natural gas) condensed into liquid form.

LNG is produced by cooling natural gas to -160°C (-265°F), creating a clear, colourless, nontoxic, non-corrosive, non-toxic liquid.

Because it takes up 600 times less volume than natural gas in its vapour form, LNG is more cost efficient to store and transport over long distances where pipelines do not exist.

Guaranteed Supply: With LuxxorGas you are assured of reliable LNG supply. With our on site storage, clients are sure of increased reliability & supply assurance.

Suitability: There are multiple purposes for LNG such as steam recovery, steel, paper, heating and cooking in sectors like tourism, ceramic, amongst others.

Cost Effective: LNG reduces not just fuel cost but also saves money. The production of LNG costs less energy and its transportation is much simpler than any other fossil fuel. In addition, equipment running on LNG is virtually maintenance free and that leads to additional savings. Also, compared to the prices of other fuels derived from crude, LNG prices are relatively stable.

Efficiency: The methane in LNG has a flame temperature of 1330°C (2426°F) this makes Natural Gas burn hotter than all other fuels. Because of its high energy content, the total amount of energy needed is reduced.

Flexible Distribution: As it does not need an underground pipeline network LNG can be transported from one point to another as easily as diesel or petrol. This makes it a more viable option for industrial companies located in regions that are not connected to the natural gas grid and currently rely on other fuels.

Environmentally Friendly: LNG is the cleanest burning fossil fuel. It evaporates fast when exposed to the environment and leaves no residue on water or soil. If spilled, it does not result in a slick because it totally evaporates.

Low Maintenance: LNG equipment requires less repairs, maintenance and over the years a lower replacement cost, all due to the clean burning nature of LNG.

Safety: LNG is the safest fossil fuel.

- Liquefied Natural Gas has a very low flammability range, making it the safest fossil fuel.
- When LNG spills on the ground or water it vaporizes quickly, leaving no residues.
- LNG vapour poses no toxic threat in case it's accidentally inhaled. It is non-toxic, most other common fuels are highly toxic.
- LNG tanks are all double walled and very thick, making them much stronger and more robust than tanks for other fuels and chemicals.
- When condensed, LNG is not explosive in open air and is less flammable than other fuels.
- LNG is only flammable if the amount of gas is 5-15% in air.
- Gas leaks are more noticeable with the addition of THT (tetrahydrothiophene) which has a strong pungent smell.

LNG Safety Tests

Liquefied Natural Gas poses no major danger to life and this can be confirmed in the following ways:

- LNG can be poured into drinking water and drunk. It is that safe.
- LNG has no effect on marine life. Pour LNG into a gold fish bowl and the fuel will float to the top, with the goldfish unaffected.
- A lit cigarette can be placed into a container with LNG and it will not ignite. LNG in its liquid form is not flammable, only the vapour is.



The following illustration outlines the process by which LuxxorGas effectively and reliably deliver Liquefied Natural Gas to our clients.



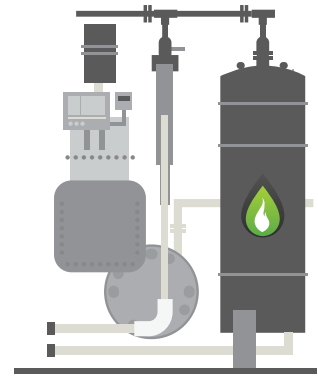
LuxxorGas receives pipeline gas from wellhead

Natural gas



LNG is transported via trucks to the client

Transported



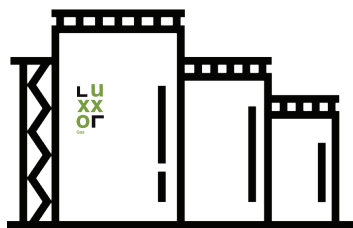
The gas is condensed into liquid form

Liquefaction



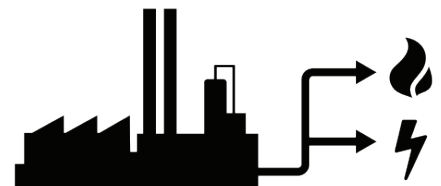
LNG is piped into cryogenic (low temperature) fuel tanks

Storage



The gas is received and stored on Client's on-board storage

Delivered



Facilities convert LNG to a gas that can power vehicles or generate electricity

Re-gasification

As a clean, affordable fuel which can be transported anywhere efficiently, Liquefied Natural Gas has a long list of uses. This ranges from enabling on site power generation, to powering vehicles and fleets, amongst other applications.

LNG Boilers — One of the many uses of LNG is for commercial and industrial boilers. These are in industries like food processing, manufacturing, and construction products.

Marine — As LNG has lower GHG and little emissions, it enables shipping operators meet their economic and environmental goals. Hence its present use as fuel for passenger and car ferries, ocean tankers, and bulk cargo carriers.

Road Transport — LNG can also be used as an alternative fuel to diesel for road transportation. It is a practical and economical way to reduce road transport emissions, as vehicles fuelled by LNG have a range and refuelling time similar to diesel. There are an estimated 4,000 plus LNG vehicles all over the world.

Rail — Freight train and regional railroad operators are making the shift to a cleaner, safer, cheaper, domestically available fuel - LNG.

Remote Power Generation — LNG is an efficient replacement to diesel for remote power generation. Such remote power plants supply energy for businesses and residential locations, ranging from 1MW to 50MW. Clients have the option of converting their current diesel generators to dual fuel or replacing them with gas generators.

Mining — Energy-dense LNG can be cost-effectively trucked to isolated sites where it is stored and then used to power off-road ore carriers and long-haul transport trucks.

(CNG) is simply Natural Gas (predominately methane) that has undergone a significant compression process, reducing the gas to less than 1% of the volume it occupies at standard atmospheric pressure. Although its combustion does produce relatively small quantities of greenhouse gases, it is a more environmentally friendly alternative to all other Hydrocarbon fuels.

The main advantages of CNG are listed below:

Narrow Flammability Range

To help ensure predictable, safe use, Natural Gas will only ignite when there is an air-to-gas mixture ratio of between 5% -15%. Any proportions outside of this range will simply not combust.

Cleaner

It is the cleanest-burning fossil fuel available. Natural Gas engines emit up to 40% less greenhouse gas than gasoline or diesel engines. When natural gas burns, virtually no harmful pollutants are produced. Reactive hydrocarbons are reduced by up to 80%, Nitrogen oxides are reduced by up to 50%, with Carbon monoxide reduced by up to 50%. Black smoke is virtually eliminated or nonexistent. In addition, there is a reduction in the emission of particulates in the atmosphere and there is a lower chance of oil/diesel spills.

Natural Gas is Lighter than air when released into the atmosphere, it rapidly dissipates, as opposed to the heavy nature of Propane or Gasoline, whose dense fumes accumulate at ground level and thus carry a higher flammability risk. Natural Gas also has a higher ignition temperature (628.3°C) than Gasoline (246°C) or Diesel fuel (210°C), which further significantly reduces the chances of an accidental ignition.

Non-toxic

Natural Gas contains no toxic ingredients. It is relatively harmless, even when inhaled

Odourless

When taken from the ground, natural gas is odourless. A harmless but pungent odour is added as a safety precaution, so as to be able to detect even the smallest quantity of gas in the event of a leak.

Colourless

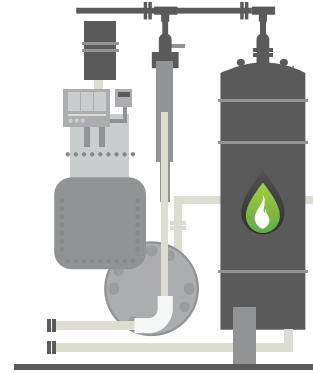
When mixed with a specific amount of air and ignited, invisible natural gas burns with a pure blue flame. It is one of the cleanest burning fuels, producing primarily heat, carbon dioxide and water vapour.

The following illustration outlines the process by which LuxxorGas effectively and reliably deliver Compressed Natural Gas to our clients.



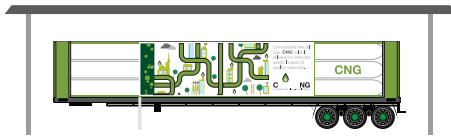
LuxxorGas receives pipeline gas from Shell Nigeria Gas (SNG)

NATURAL GAS PIPELINE



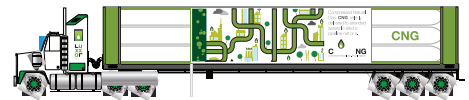
Gas from pipeline is dried, scrubbed and compressed at our Mother Station facility

COMPRESSION MOTHER STATION



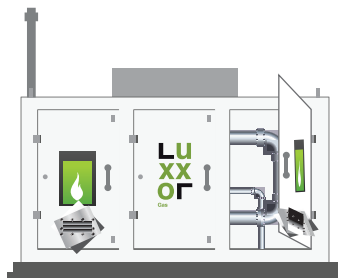
Storage space will be provided at the customer's location for the CNG trailer to discharge gas.

CUSTOMER LOCATION



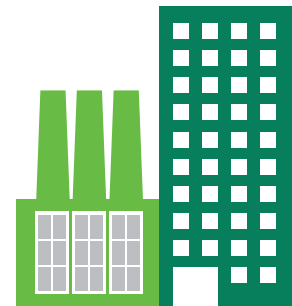
Compressed Gas is transported by CNG Trailers to customer locations

CNG TRAILERS TO CUSTOMER SITES



The Gas pressure can be reduced to the requirement of the equipment or plant at customer location.

PRESSURE REDUCTION SYSTEM (PRMS)



CNG can be utilised by both high & Low pressure equipment.

EQUIPMENT/ PLANT

LuxxorGas thrives on team work and collaboration to achieve maximum effectiveness.

LuxxorGas Distribution Process

LuxxorGas' proprietary LNG and CNG distribution system is engineered from the 'ground up' to make **natural gas available to customers** who are 'stranded' off pipeline networks.

This solution enables wider domestic utilisation of Nigerian gas, overcoming the current lack of adequate infrastructure, which has drastically limited both the economic and environmental gains from natural gas utility in both **industrial and automobile applications**.

ICT Systems

LuxxorGas' advantage in the industry is partly driven by the strength of the ICT infrastructure that is at the heart of our operations.

Cloud Based Enterprise Resource Planning (ERP) Application

Netsuite™ is LuxxorGas' choice of ERP. The platform has been implemented across all departments, including sales, marketing, service, finance, inventory, order fulfilment, purchasing, and employee management.

LuxxorGas' data is stored securely in the 'cloud' and accessible from any location. This allows for improved service, flexibility and redundancy.

All our customers have an online portal where they can manage their interaction with LuxxorGas. This CRM portal gives customers access to gas consumption and billing data, online payment systems, and relevant logistics data regarding their services.

LuxxorGas thrives on team work and collaboration to achieve maximum effectiveness. Our office communications system is powered by the search engine giant Google. We use a suite of **Google Apps for Business™** to create a seamless workflow between employees and projects.

A proprietary Supervisory Control and Data Acquisition (SCADA) system monitors and controls LuxxorGas CNG facility operations. LuxxorGas employ a fleet management system which combines Global Positioning Systems (GPS) and extensive fleet management to monitor all mobile assets, drivers and truck handlers.

Inventory Management System

Our inventory management system is integral to the sustainability of our operations.

Operational efficiency gains are realised by the elimination of manual data entry, paper files, manual stock entry through the automation of records and other important documents.

The Benefits Of LuxxorGas



No Upfront Investment – LuxxorGas is committed to creating “Natural Gas Corridors” across West Africa both for convenient fleet refuelling services and industrial applications. For qualifying clients who are contracted with LuxxorGas, we can provide highly customised fuelling solutions catering to particular requirements in return for long term fuelling contracts.



Cost Savings – Ready convenient access to stable and cheap Liquefied Natural Gas and Compressed Natural Gas across major haulage routes and distribution zones.

Providing both haulage and industrial users a robust platform from which to accrue massive cost savings on fuel, while simultaneously considerably reducing harmful emissions.



We take the risk – Our long term fuel contracts eliminate unpredictable fuelling costs. You’ll pay agreed low contractual rates at all times.



Hone your Strength – By providing cost effective end to end refuelling solutions, our customers can concentrate on the profitability of core business areas.

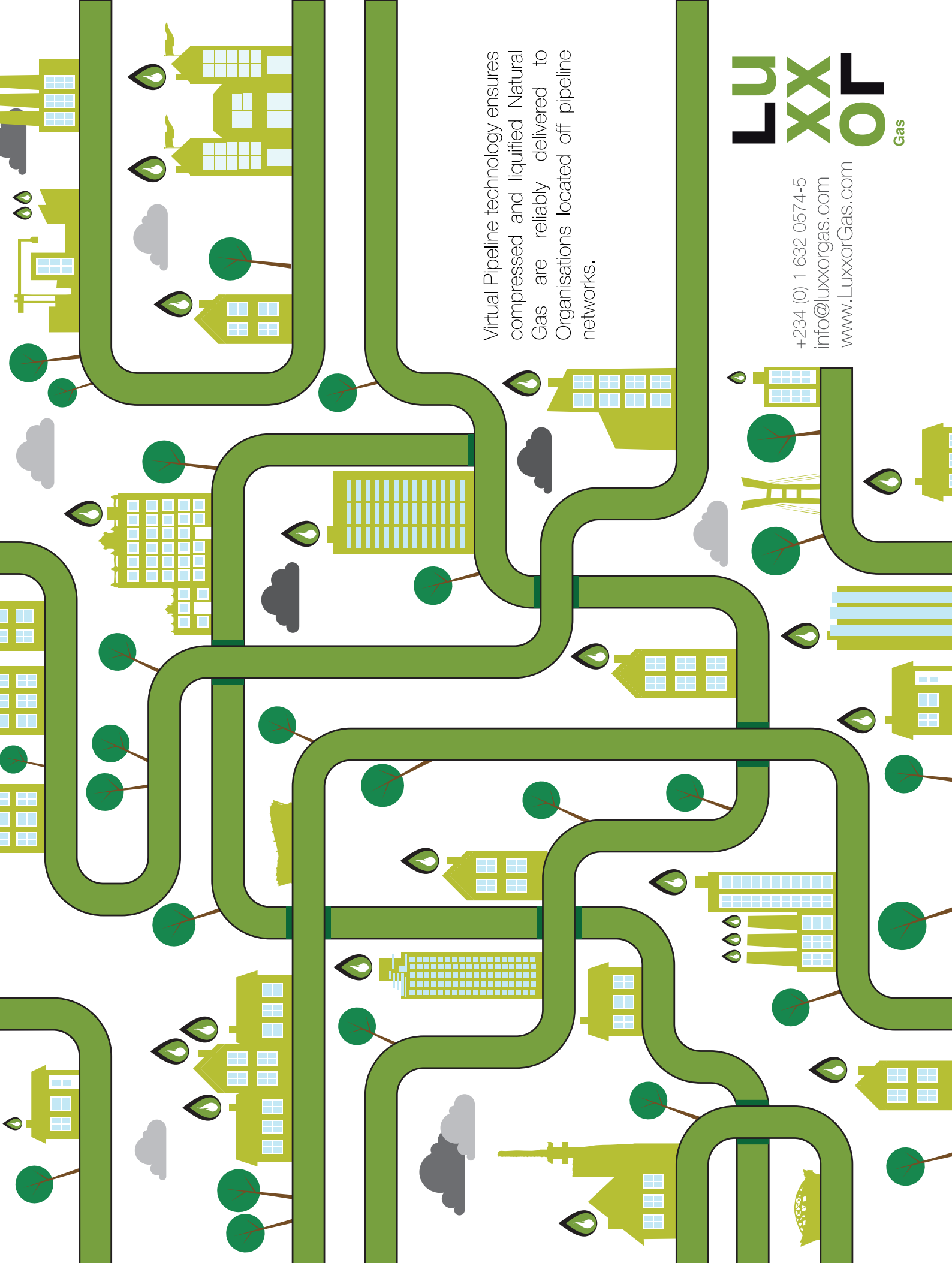


Enhancing your image – In addition to preserving the environment, going green will greatly enhance the image and recognition of your brand. This creates extensive marketing opportunities, both regional and global, at a time when sustainability and social responsibility are at the forefront of economic development.

OUR PROCESS

LuxxorGas aims to provide the most seamless fuel transition possible. From an initial enquiry, to the date Gas is first delivered, your Relationship Manager will be on hand to guide you through the acquisition process. The customer engagement flow is simplified here.

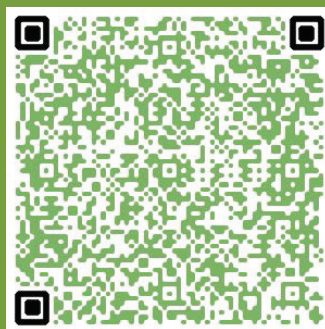




Virtual Pipeline technology ensures compressed and liquefied Natural Gas are reliably delivered to Organisations located off pipeline networks.


LUXXOR
Gas

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cleaner,cheaper, more sustainable alternative fuel

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