



INTERNATIONAL NATURAL TRANSPORT

1 FIRST ITALIAN
COMPANY TO USE
LIQUID METHANE
POWERED VEHICLES
LCG

LC3

a path of success.

2009.

Year in which LC3 was founded in Gubbio, Umbria.

2011.

LC3 consults with IVECO for the creation of liquid methane motors for HGVs.

2012.

LC3 presents the project for Italy's first liquid methane station, built by Eni in Piacenza, two years later. Enters the container sector.

2013.

LC3 launches the B.E.S.T. project (Better Environment & Sustainable Transport).

2014.

With the commissioning of the first five LNG vehicles, LC3 becomes the first Italian company to use liquid methane powered vehicles. LC3 is a Blue Corridor partner, a European Union development and research project on liquid natural gas for heavy-duty vehicles, and is invited to Paris to represent Italy.

2015.

LC3 adds 35 LNG vehicles to its fleet. LC3 signs the appeal of Green Economy Italian enterprises for the 2015 Paris Conference (COP21).

2016.

LC3 organises the event "Costruiamo il futuro INBLUE: l'utilizzo del metano e del biometano nel trasporto merci su gomma" (Building the INBLUE future: the use of methane and biomethane in road shipment), where it presents achieved results and future projects.

2017.

LC3 commissions another 30 latest generation LNG 400 cv vehicles.

2018.

LC3 inaugurates the first LNG and liquid nitrogen fleet fuelling station in Piacenza. LC3 continues to grow, updating its fleet with another 37 latest generation LNG vehicles, including 12 ones with 460 cv.



LC3

much more than a haulage company.

Not only is LC3 a company strongly **oriented around its customers** and their requirements, but it is also an organisation with a keen eye on the **evolution of transport services** in modern times.

This focus translate into the provision of high quality transport and logistics services, strict compliance with delivery times, the safety of goods and a **reduced environmental impact**.



Temperature
controlled transport
of goods



Terminal Containers



Shipment of normal
containers, reefers,
dangerous goods and
waste



Vehicle tracking

460 horses

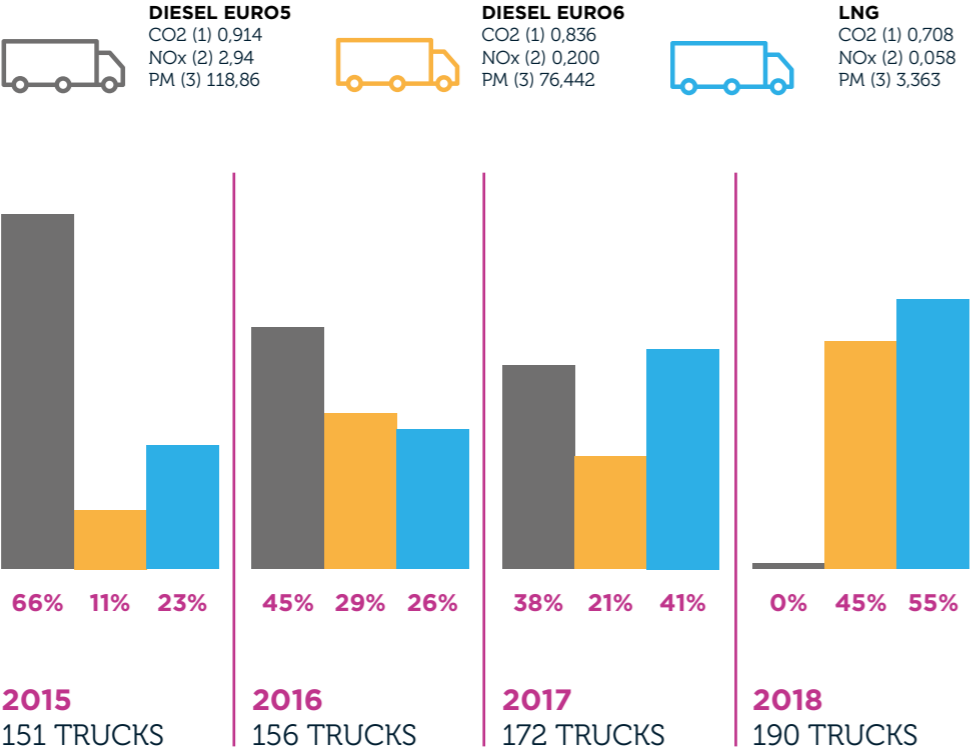
driven by quality people.

The **professional growth and personnel enrichment programme** has always been a strong point of LC3, right from its foundation. Specifically, given that everyone is required to share the company experience at all levels and in all organisational areas, we have structured a continuous improvement path for driving techniques, with **safe driving courses and economical driving courses** held by qualified and certified personnel, also with the aim of reducing the emission of pollutants.



Fleet evolution: the liquid methane challenge.

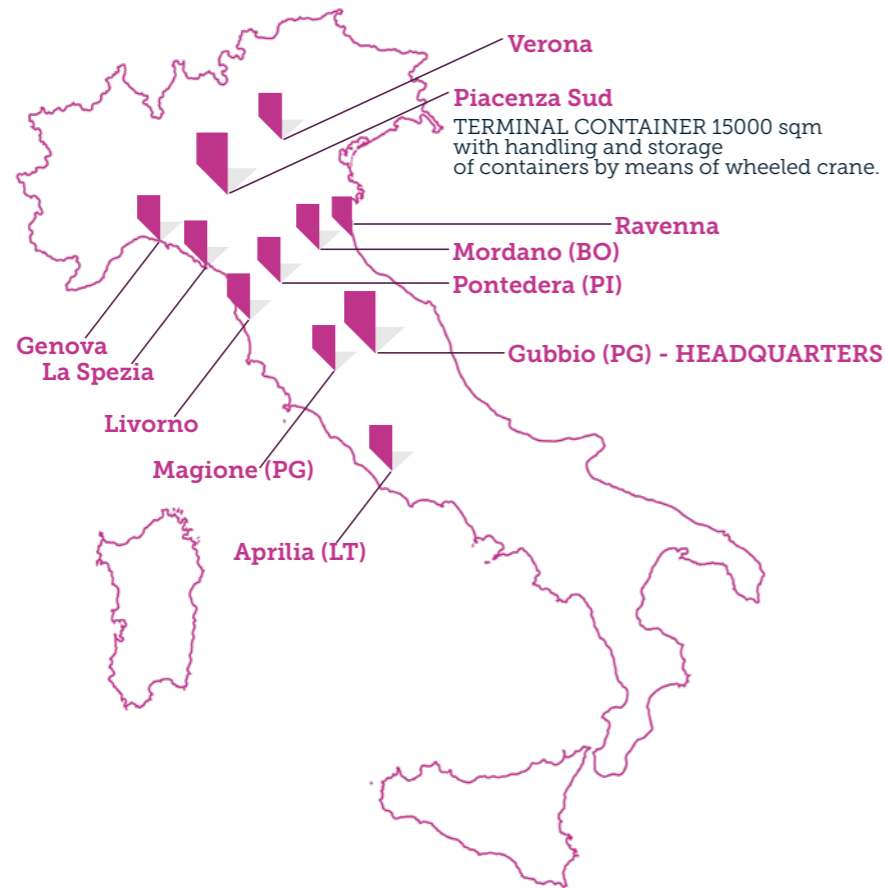
To date LC3 operates its own fleet of 190 trucks, approximately **55% are powered by liquid methane**. We were the first to believe and invest in this technology as a concrete solution for the ecological transition of road haulage. A trailblazing decision which, according to experts of the sector, constitutes a **valid fuel model**, a winning choice in the face of climate change which improves air quality.



(1) kg/km; (2) g/km; (3) mg/km
Fonte dati: Sistema satellitare Transics
Schede tecniche IVECO Stralis LNG
Handbook Emission Factors for Road Transport 3.1

Our ever-expanding network of branches.

With its branches, each operating its very **own fleet**, LC3 manages temperature controlled shipments, the shipment of containers, reefers, dangerous goods and waste, from all 4 northern Tyrrhenian ports: Genoa, La Spezia, Livorno, Vado Ligure and a terminal container at its Piacenza branch. Operative management relies on vehicle and goods **tracking systems** which transcend national borders, to



Goods haulage management, monitored and optimised.



TERMINALS

The **distance control system** and real time vehicle data analysis enables correction and the optimisation of shipment operations. Said management **enhances the safety** of shipment operations and goods, while also **reducing environmental impact**.



LOGISTICS



SHIPMENT

The advantages of liquid methane.

Reduction of CO2 emission by 2,905,534* kg, **reduction of nitrogen oxides (NOx)** by over 3,223,328* g; **reduction of fine particle dispersion (PM)** by almost 1,658,856,095* mg; **reduction of noise pollution by 5 dB(A)**, amounting to a reduction of perceived noise 4 times greater compared to a Euro6 Diesel.

*Data on the three year period 2016/2018 compared to Euro6 Diesel



EMISSIONS
REDUCTION



SAFETY
IN USE



RAPID REFUELLING
TIMES

Our commitment never stops.

LC3 concretely supports numerous activities regarding the **environment**, promoting the **development of research and studies on sustainability and green economy** jointly with Foundations and Associations. Projects have involved Educational Institutes, Universities as well as prominent medical-scientific bodies. In 2017 there was particular focus on **Umbria's community**, with a special initiative benefiting the **Cascia primary school** which was damaged by the **recent earthquake**.

**SUSTAINABILITY
& GREEN ECONOMY**

**EDUCATION
& RESEARCH**

**SOCIAL
RESPONSIBILITY**



Building the future, together.

The will to make a significant contribution in **building a sustainable future**, in the broadest sense of the term, inspired us to share our objectives with those of **LNG Blue Corridors**, **the Foundation for Sustainable Development** and **the Association for sustainable logistics**, pooling ideas, experiences and strengths.



Our LNG and Nitrogen station.

Inaugurated in May 2018, the refuelling station satisfies the requirements of the entire LNG LC3 fleet.

It is located in the new Piacenza logistics hub (60,000 sqm), of which 15,000 is a container terminal and weighing facility.



REVOLUTION₂

The first LC3 nitrogen refrigerated trailer



Using liquid nitrogen for trailer cooling is an efficient, silent, safe and easy to use solution, ensuring zero environmental pollutant and noise emissions.

The refrigerating power of liquid nitrogen is much higher compared to traditional systems, significantly shortening the time it takes to reach operating temperature, ensuring seamless cold chain continuity.

LNG TRUCK

CO ₂	NO _x	PM	dB(A)
-15%	-70%	-95%	-5

NITROGEN TRAILER

CO ₂	NO _x	PM	dB(A)
ZERO	ZERO	ZERO	ZERO

VANTAGGI

- reduced noise levels, enabling operation during times which would otherwise be forbidden, in city centres
- savings of high environmental impact fuel
- faster in reaching operating temperature
- greater efficiency for cold chain continuity
- significantly lighter, translating into economic advantage and greater load capacity
- significant increase in load compartment capacity
- rapid and uniform cooling along the entire length of the load compartment





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