



 **LC3**
INTERNATIONAL NATURAL TRANSPORT

1 PRIMA AZIENDA
ITALIANA AD
USARE VEICOLI A
METANO LIQUIDO


LC3

un percorso di successo.

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 **"Building the INBLUE future:** the use of methane and biomethane in road shipment, where it presents achieved results and future projects.

2017.

LC3 receives the **medal of the President of the Republic** for commitment and innovative vision in the environmental field. On the road 30 new generation LNG vehicles (400 HP).

2018.

LC3 inaugurates the **first LNG and liquid nitrogen fleet distributor** in Piacenza. LC3 continues to grow by implementing its fleet with an additional 37 latest generation LNG vehicles, 12 of which with 460 hp. Test for **REVOLUTION2**.

2019.

Lc3 introduces **REVOLUTION2**, the first ZERO emissions refrigerated liquid nitrogen semi-trailer. Currently 20 semi-trailers in the fleet.

2020.

February:

the first 14 100% BIO-CNG sustainable vehicles on the road.

March:

fleet cryogenic tanker truck on the road.

Settembre:

Mario Ambroggi, General Manager LC3, was awarded as "Person of the Year 2020" at Vega Day, the annual reference event for the transport and logistics sector.

November:

first BIO-LNG refueling, 1600 km with zero emissions.

December:

"Logistics of the Year" Award 2020 for the Ecological Report project.



LC3

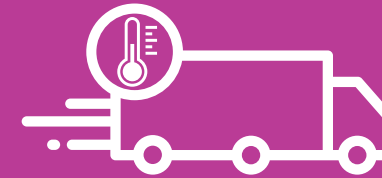
much more than that a transport company.

LC3 is a company strongly **oriented around its customers** and their requirements and 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**.

Safe and ecological vehicles 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.



Temperature
controlled transport
of goods



Terminal Container



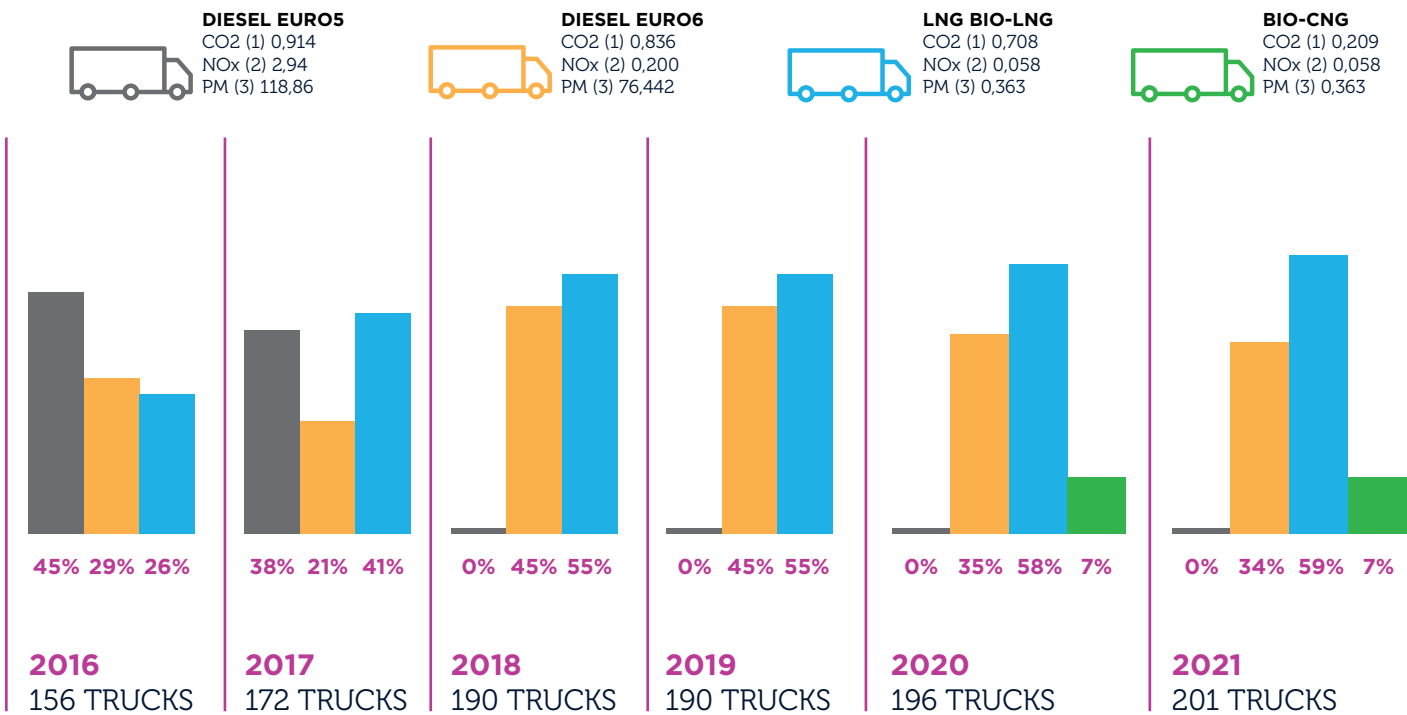
Shipment of normal
containers, refeers,
dengerous goods
and waste



Vehicle traking

Fleet evolution: the liquid methane challenge.

To date LC3 operates its own fleet of 201 trucks, approximately **66% are powered by methane (LNG - BIO LNG - BIO CNG)**. 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.



TOTAL TRUCKS
JANUARY 2021

DIESEL EURO6 **68**

LNG **119**

BIO CNG **14**

KM COVERED FROM
OUR VEHICLES
CNG and LNG
(Jan 2021)

57.096.915



(1) kg / km; (2) g / km; (3) mg / km Data source:
Transics satellite system IVECO Stralis LNG
technical sheets Handbook Emission Factors for
Road Transport 3.1

Liquid BioMethane: the first zero-impact road freight transport.

The road to the decarbonisation of road freight transport began in November 2020.
LC3 Trasporti, carried out the **first supply of Liquefied BioMethane (Bio-LNG)** at the distributor Vulcangas of Rimini.

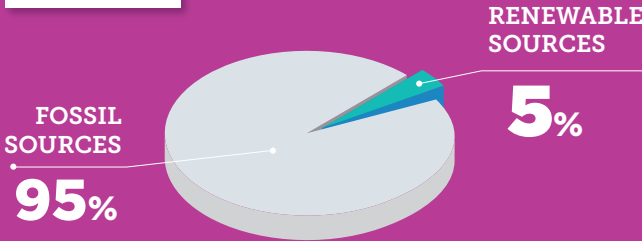
BioMethane is the **innovative and clean energy resource** obtained from the purification and liquefaction of methane produced mainly with the waste from the livestock industry in an all-Italian supply chain.

A giant step for the Italian logistics industry towards achieving the 2030 environmental objectives set by the European Union.

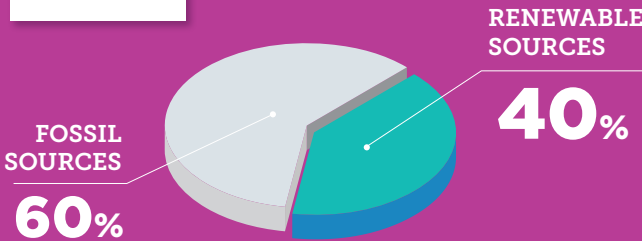


Km traveled with alternative fuels

2020



2021



November 2020.
First supply of Bio-LNG
at Vulcangas, Rimini.

Our LNG and Nitrogen station.

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



NEW PIACENZA
LOGISTICS HUB

60.000 TOTAL SQM

15.000 SQM FOR
TERMINAL CONTAINER
AND WEIGHING USE.

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

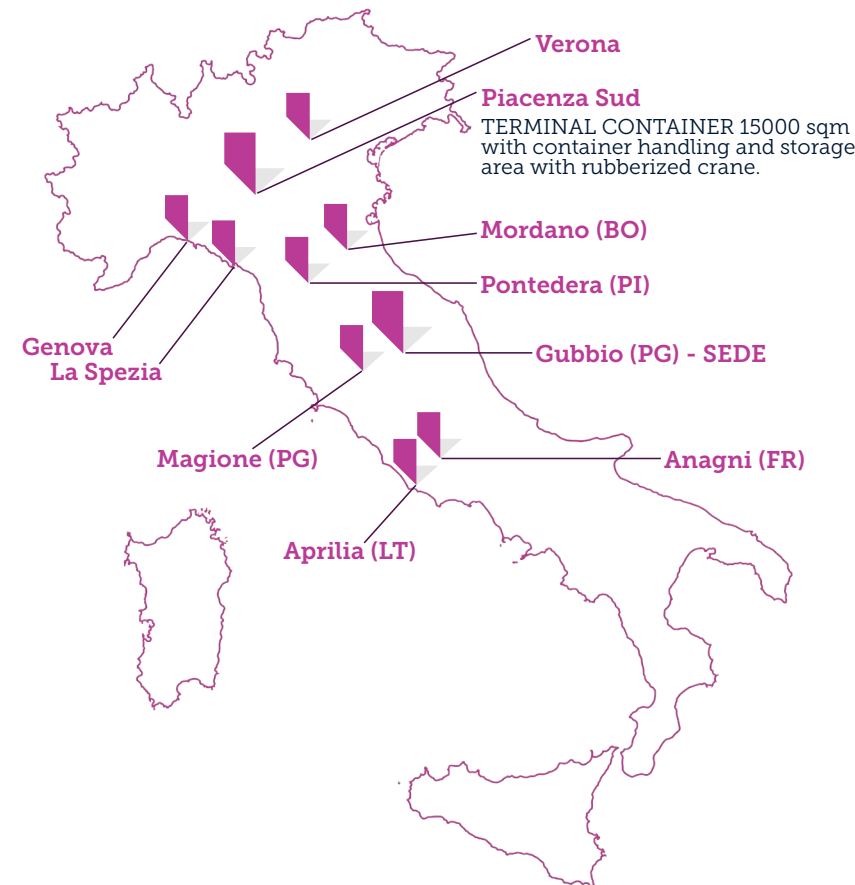
ADVANTAGES

- 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



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 **Spain, France, Belenux, UK**.



Management of freight transport monitored and optimized.

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**.



TERMINAL



LOGISTIC

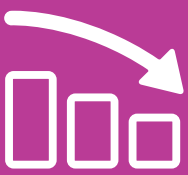


TRANSPORT

The advantages of liquid methane.

Reduction of CO2 emissions by 7,880,856 * kg, **reduction of oxides nitrogen (NOx)** by over 8.107.762 * g; **reduction of fine particle dispersion (PM)** by almost 4,172,585 * g; **reduction of noise pollution by 5 dB (A)**, amounting to a reduction of perceived noise 4 times greater compared to a Euro6 Diesel.

* Data updated to January 2021 LNG compared to Diesel Euro6



REDUCTION OF EMISSIONS



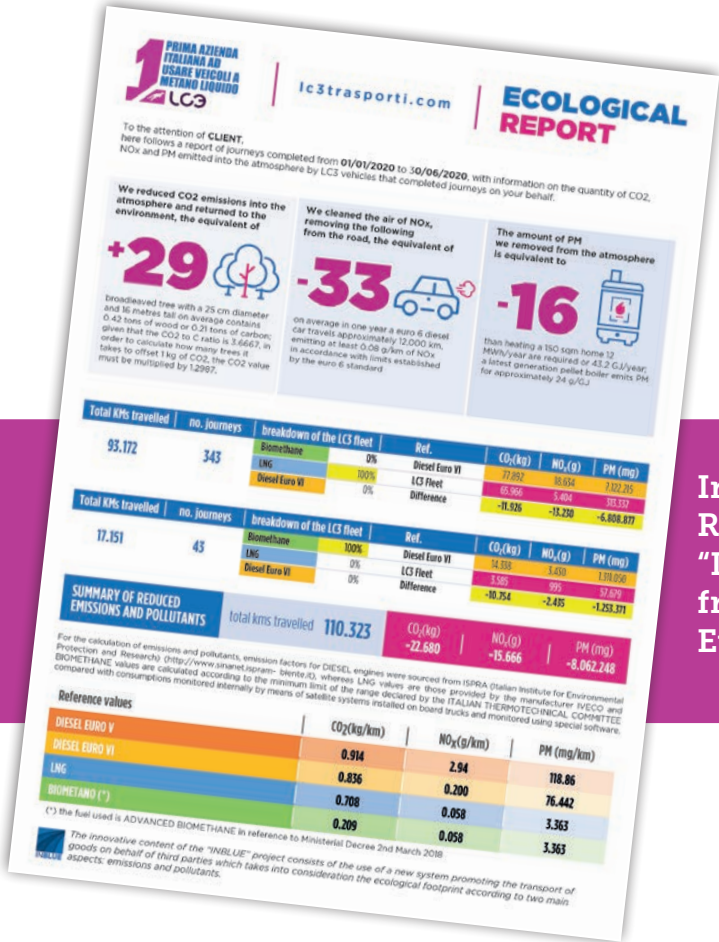
SAFETY IN USE



FAST REFUELING TIMES

Ecological Report: sustainability is clear.

LC3 has always been committed to the development of solutions for sustainable freight transport. A pioneering approach in the field of environmental sustainability that is also an important asset for LC3 customers who, starting from 2015, can make use of the 'Ecological Report' which photographs the performance in terms of impact reduction environmental both in the final balance and in the budgeting phase.



In 2020 the Lc3 Ecological Report project won the "Logistics of the year" award from Assologistica and Euromerchi.

Our commitment never stops

LC3 pursues improvement in every aspect of the company in order to guarantee its customers the highest standards in services.



La volontà di incidere significativamente nella **costruzione di un futuro sostenibile**, nel senso più ampio del termine, ci ha spinto a condividere i nostri obiettivi con quelli di **LNG Blue Corridors**, **Fondazione per lo Sviluppo Sostenibile e Associazione per la logistica sostenibile**, per mettere a fattore comune le idee, le esperienze e le forze.

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.





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