

Committed to clean

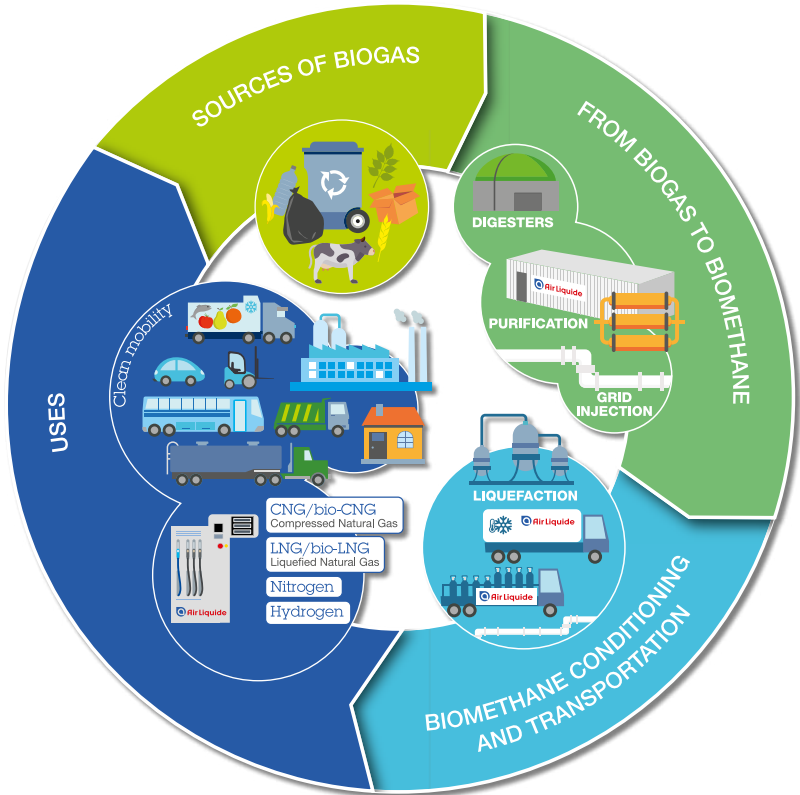
transportation



 **Air Liquide**



Air Liquide's solutions for clean transportation



Biomethane

Transform biomass into a renewable energy source

- Solution to purify biogas and liquefy biomethane
- Upgrading biomethane (injection into the grid, fuel for vehicles)
- A virtuous energy source which can replace natural gas derived from fossil fuels

Nitrogen

Cryogenic nitrogen for refrigerated transport

- A quiet, clean and reliable solution
- Zero emissions when in operation
- Technology with no combustion engine
- An ideal combination with bio-NGV (zero particulates, less noise, a much lower carbon footprint)

Hydrogen

Clean energy breezing ahead

- Vehicles are 100% clean at the point of use: zero CO₂ emissions, zero particles and zero noise
- A hydrogen car can drive over 500km with a single charging
- Already more than 120 hydrogen stations worldwide by Air Liquide

Air Liquide upgrades biogas into biomethane for use in road transport

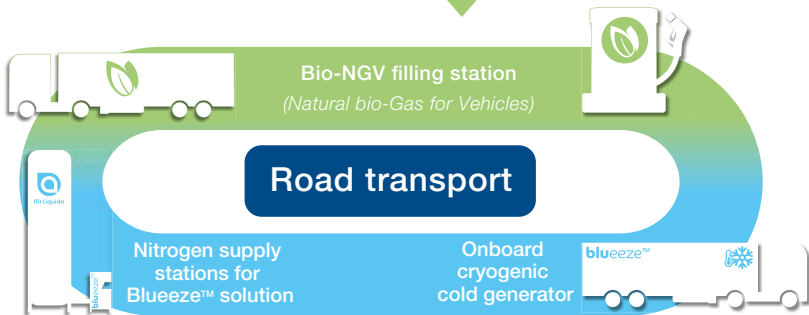
Committed to clean transportation, Air Liquide proposes a Bio-NGV (*Bio-Natural Gas for Vehicles*) offer that is being implemented thanks to the rollout of multi-energy stations.

Running on biomethane reduces:

- Noise by 50%
- NOx emissions by 80%
- Particulate matter emissions by 90%
- CO₂ emissions by up to 90%

Extended range capability:

- Up to 1,200km for a truck running on LNG (*Liquefied Natural Gas*)
- Up to 600km for a truck running on CNG (*Compressed Natural Gas*)



blueeaze™, the cryogenic nitrogen solution for onboard cold transportation, combined with the Air Liquide bio-NGV offer, helps to significantly reduce your ecological footprint and optimize your deliveries.



Sustainable and clean



Silent



Cold chain safety



Maximum availability

Multi-energy stations for clean mobility

Global references

20 biomethane production units worldwide

About 90 bio-NGV filling stations in Europe

More than 120 hydrogen stations designed and installed in the world

The Air Liquide group

A world leader in gases, technologies and services
for Industry and Health

Approximately 64,500 employees

Present in 78 countries

More than 3.8 million customers and patients

2020 Revenue: €20+ billion

Contact

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 **Air Liquide**