



Natural Gas Vehicles Company
(Cargas)

Company Profile

شركة الغاز الطبيعي للسيارات (كارجاس)
Natural Gas Vehicles Company



Today we meet to exchange ideas, build bridges of cooperation, and discuss ways to strengthen our partnerships to achieve our common goals.

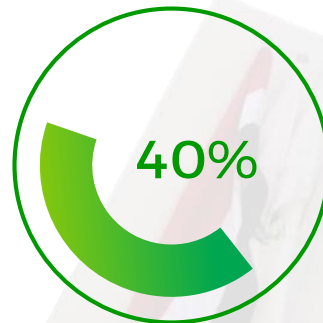
Thank You



Shareholders



bp



Company's Vision



We are committed to providing clean, safe, and economical alternative fuel that meets the needs of the Egyptian market and preserves the environment through:

Installation and maintenance of natural gas vehicle operating systems

Establishment and operation of gas refueling stations and transportation of natural gas

Mixing and marketing of automotive and industrial lubricants



Why CARGAS



- The first CNG company in Africa and the Middle East.
- Over 30 years of leadership in delivering safe, cost-effective, and environmentally friendly fuel solutions tailored to the Egyptian market.
- Specialized in the installation and maintenance of natural gas vehicle conversion systems.
- Expertise in the establishment and operation of natural gas fueling stations and gas transportation services.
- Expanding operations in gas transportation and NG-EPC projects.
- Driven by a strong regional growth and expansion strategy.

Regional cooperation and the establishment of partnerships with neighboring countries through the addition of compressed natural gas (CNG/LPG) operations and the export of oil products.

06

01

Expansion of the inauguration of refueling stations and conversion centers across all governorates to reduce reliance on gasoline and diesel.

Contributing to the reduction of carbon emissions by increasing natural gas sales.

05



6 Main axes

02

Utilizing locally produced natural gas as a national resource through conversion and refueling projects, thereby generating local added value.

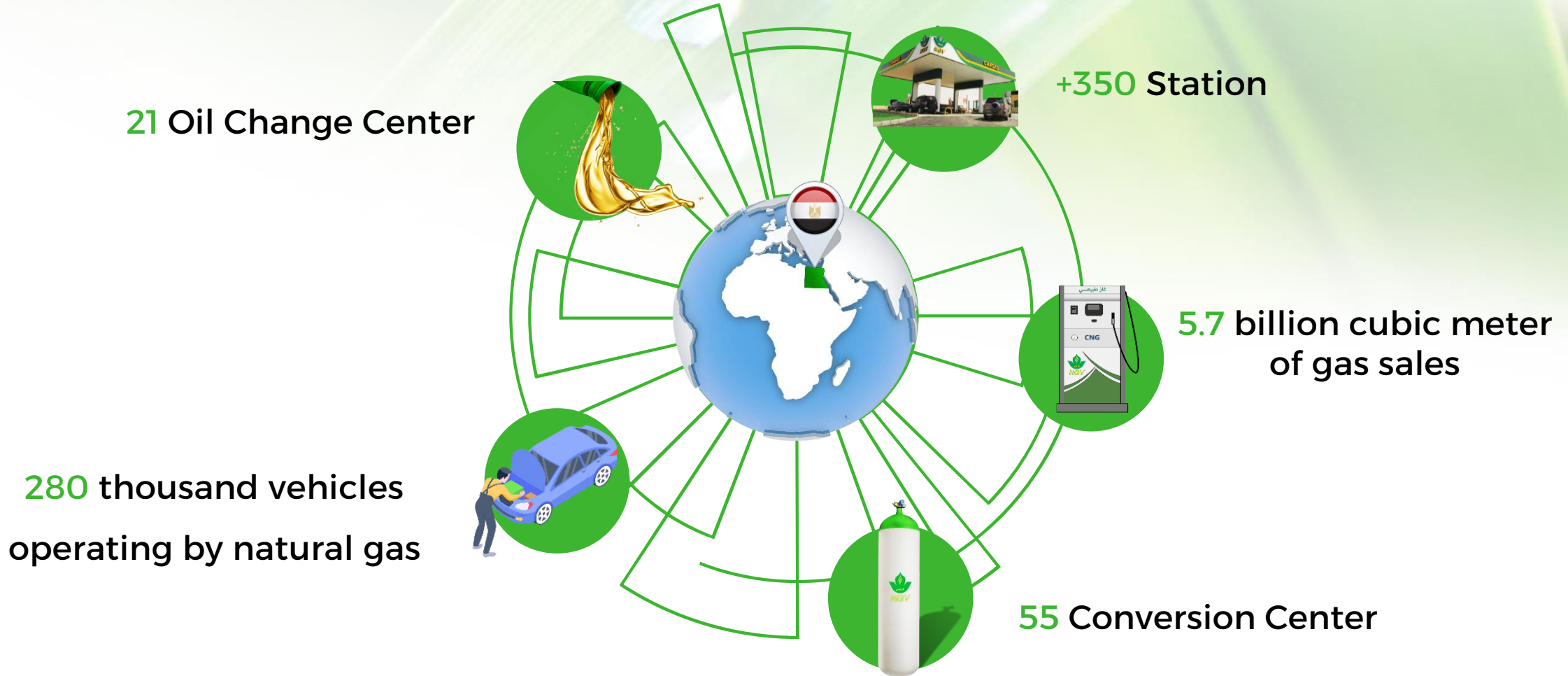
Enhancing the efficiency of the implementation of safety procedures at stations and conversion centers.

04

03

Reducing fossil fuel consumption and promoting natural gas as a clean transportation fuel.

Cargas Numbers





Safety and Occupational Health

Safety Fundamentals Program

Providing training on Safety Fundamentals, Occupational Health, Firefighting, and Defensive Driving Program



Civil Defense Training Certificate

Training Civil Defense Department Employees on Firefighting Operations



Emergency Plan

On-job training for employees on Implementing the Emergency Plan



Firefighting Systems

Equipping Stations with the latest firefighting systems



Automatic Extinguishing

Installing the latest automatic extinguishing systems



Automatic Cooling

Installing automatic cooling system for gas containers at stations



Safety and Occupational Health



Achieving International Standards





Conversion

Conversion and Maintenance Centers



The company operates a total of **55** conversion and maintenance centers

distributed across **24** governorates.



What is Compressed Natural Gas?

Clean



Compressed Natural Gas (CNG) is natural gas pressurized to 250 bar.

It is primarily composed of methane (CH₄)

Safer than liquid fuel



Economic feasibility



Available





Any vehicle can be converted!



Any Vehicle Can Be Converted



Synchronized electronic fuel injection engines

Carburetor engines

GDI engines

Electronic fuel injection engines

FSI engines

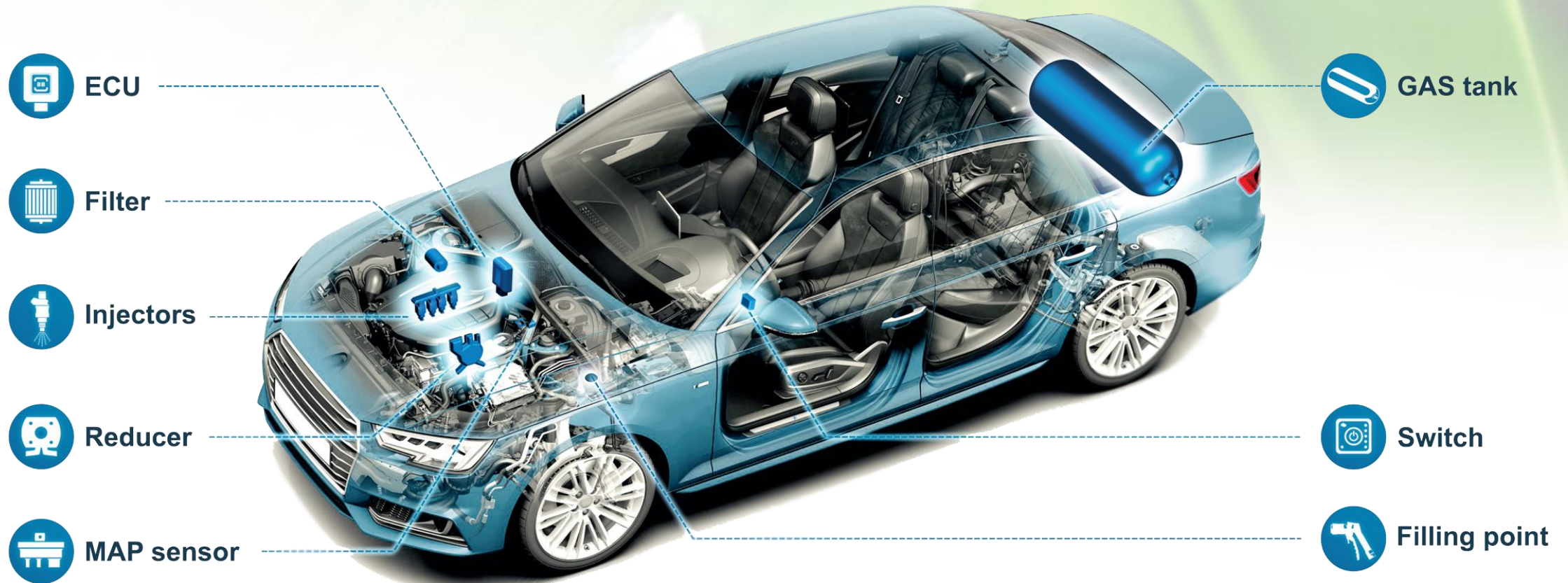
Turbo engines

OEM-manufactured vehicles designed to operate by natural gas



Conversion of Gasoline Engines

Conversion of Synchronized injection engines



Conversion of Diesel Engines



Complying with international standards



Certification	Focus Area	Impact on Sustainability
ISO 14001	Environmental Management	Systematic control of the conversion center's environmental impact.
ISO 9001	Quality Assurance	Documented work instructions to ensure consistent safety and performance.
ISO 45001	Health & Safety Management	Health & Safety Management
ISO 50001	Energy Management	Optimized power usage for sustainable workshop operations.
ISO 11439	CNG Cylinders	Specific safety benchmarks for high-pressure gas storage.
ISO 15500	Fuel System Parts	Technical requirements for gas fuel system components.
UN ECE R67	LPG Equipment	Strict safety standards for LPG motor vehicle components and tank safety systems.

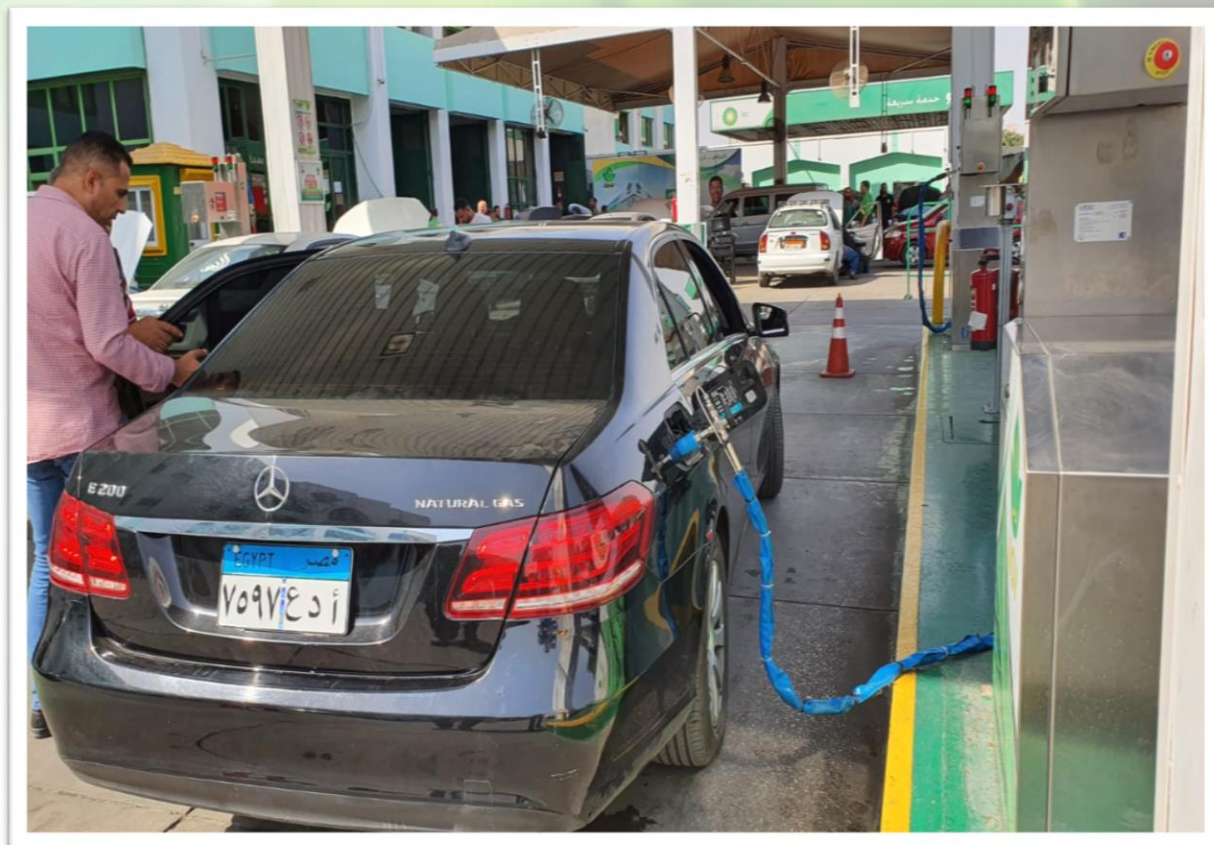
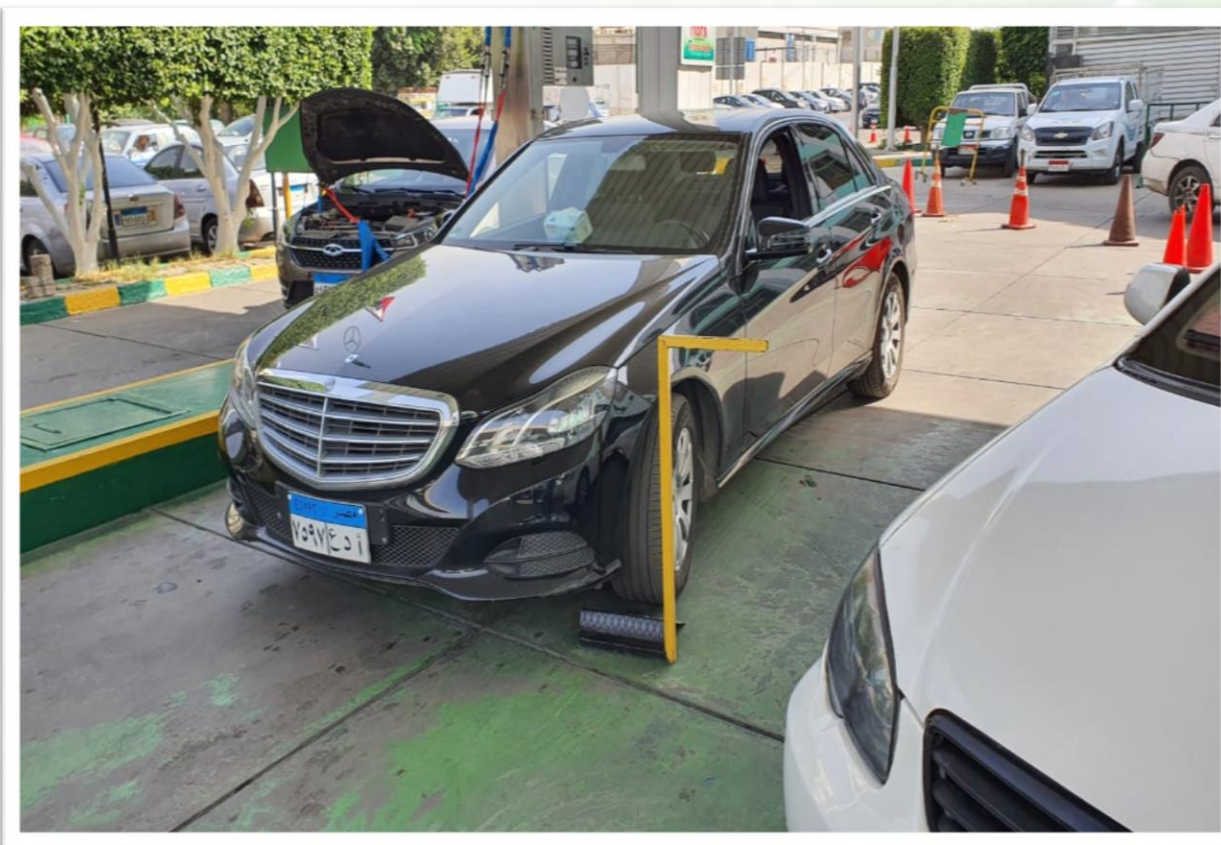
- Technical Activities

GDI Technology



- Technical Activities

Dedicated CNG Vehicles.

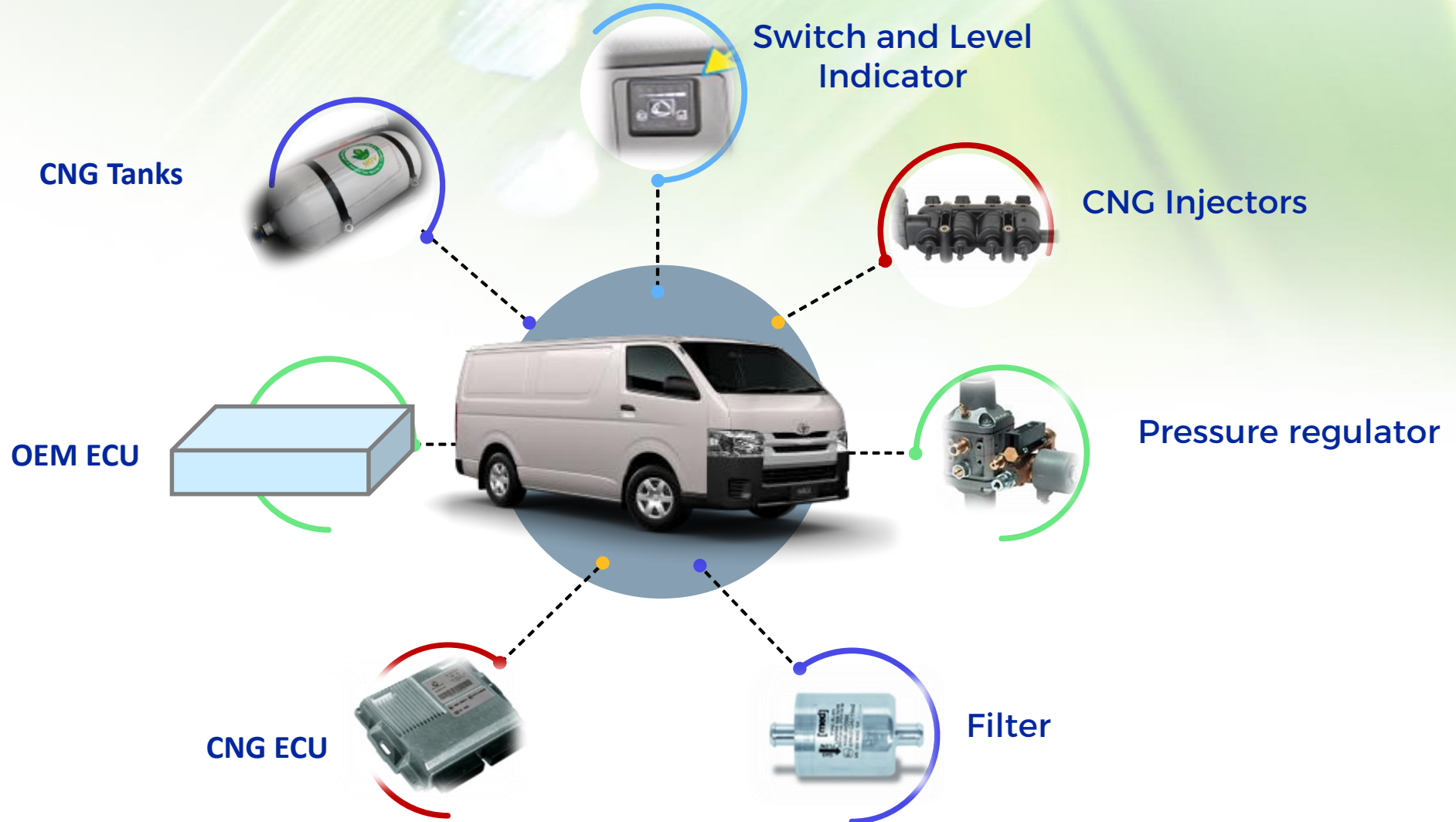


- Technical Activities

Forklift Conversion for Factories



Diesel Engines that Require DDF Conversion Kits



- **DDF conversion for HD Trucks**

- **Volvo**

Volvo D13 - 400 HP Engine Specs

- Engine Type: 12.8-liter, 6-cylinder inline diesel engine.
- Peak Power: 400 hp (298 kW).
- Max Torque: Approximately (1,965–2,100 Nm).



OEM PRODUCTION LINE INTEGRATION

Integration of CNG systems directly within vehicle manufacturing lines in collaboration with leading OEMs such as

- Nissan
- GB Auto (HYUNDAI – CHERRY)
- BAJAJ Qute



•Military Vehicles Conversion



Certified Cylinder Inspection Centers

CNG-1

Seamless metal construction (typically steel or aluminum alloy) for baseline durability.

- Periodic Inspection Schedule

Installation



Initial validation and installation of fuel system.

36 Months of Use



First mandatory periodic visual inspection.

48 Months



Full re-qualification and pressure testing cycle.

End



Full re-qualification and pressure testing cycle.

- Reporting Compliance

Following inspection, an official ISO 11439 compliance certificate is issued.



We have provided consultancy services for leading companies in the CNG/LPG sector



 **ADNOC - UNITED ARAB EMIRATES**



Provided consultancy services for vehicle conversion projects and CNG infrastructure development in the UAE.



 **AGIL - TUNISIA**



Provided consultancy services for CNG projects, including technical support and equipment procurement solutions.



Re-Fueling

Company's Stations



The company operates a total of **346** stations distributed across all governorates.



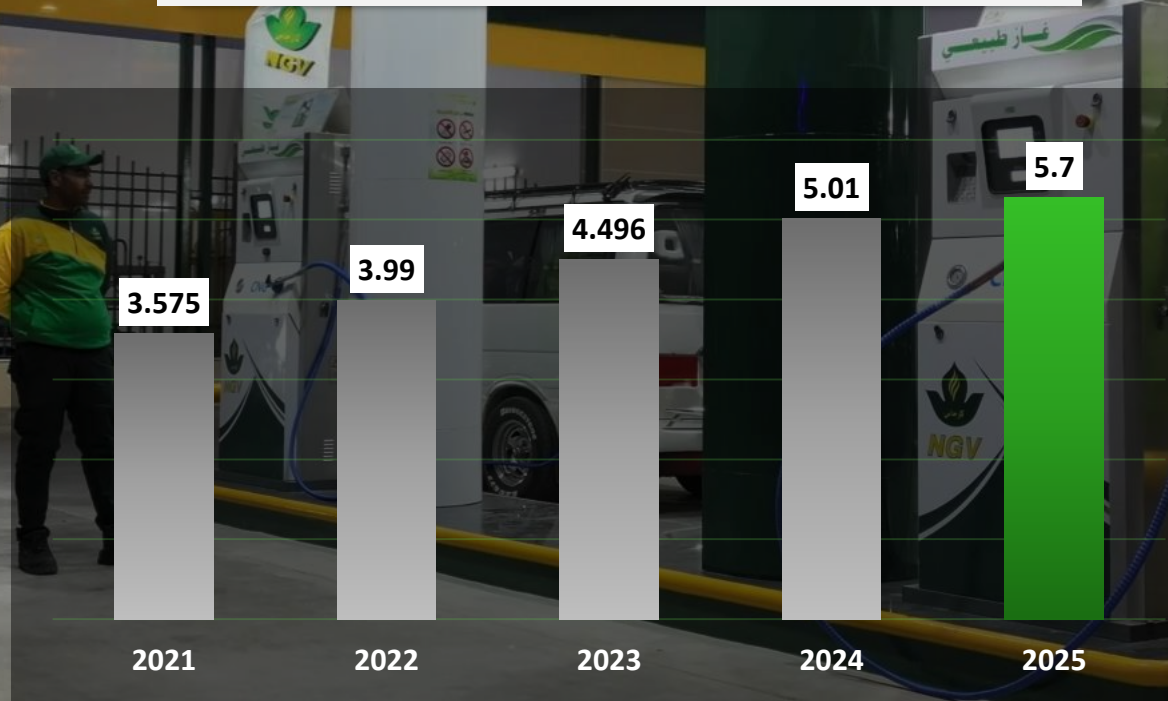
Exceeding the average daily sales threshold of
One Million Six Hundred Thousand Cubic Meters

1,750,000 m³



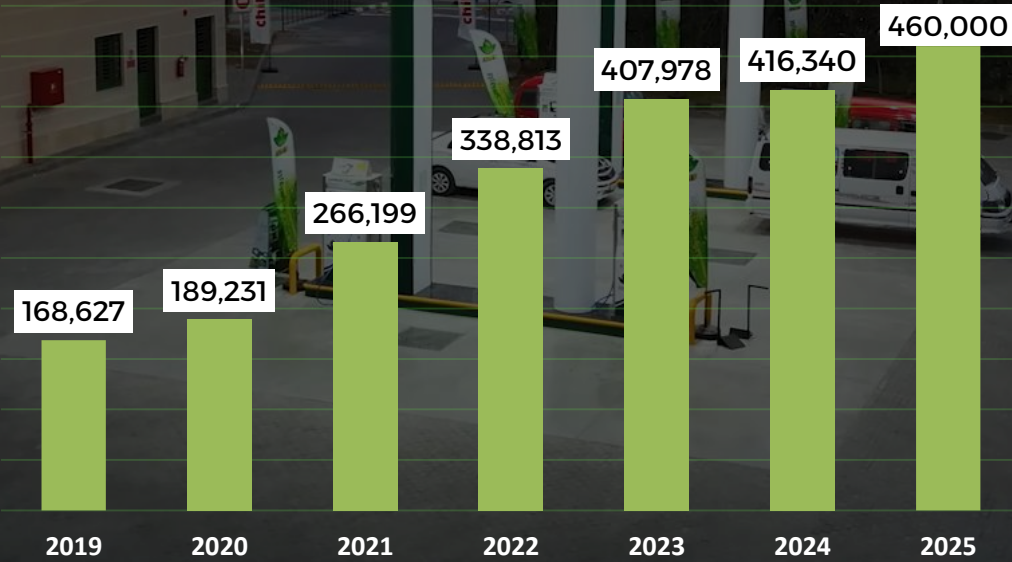
Accumulated gas sales to date have exceeded

5.7 billion cubic meter



Reducing Liquid Fuel Consumption During 2024

640 thousand tons



Achieving Annual Savings

342 million dollars



2021

2022

2023

2024

2025



Types of CNG Stations

1- Fast Fill Stations

01

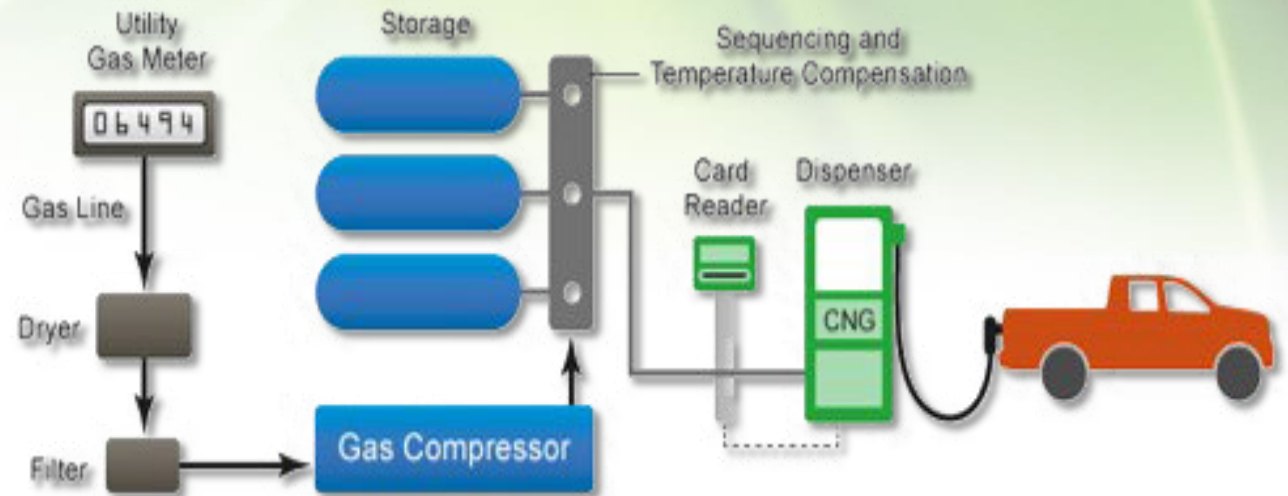
Suitable for buses or cars at public fueling stations

02

Commonly found at public fueling stations or bus hubs

03

Fast refueling time
(3 to 5 minutes per vehicle)



2- Slow-fill stations (overnight refueling)

01

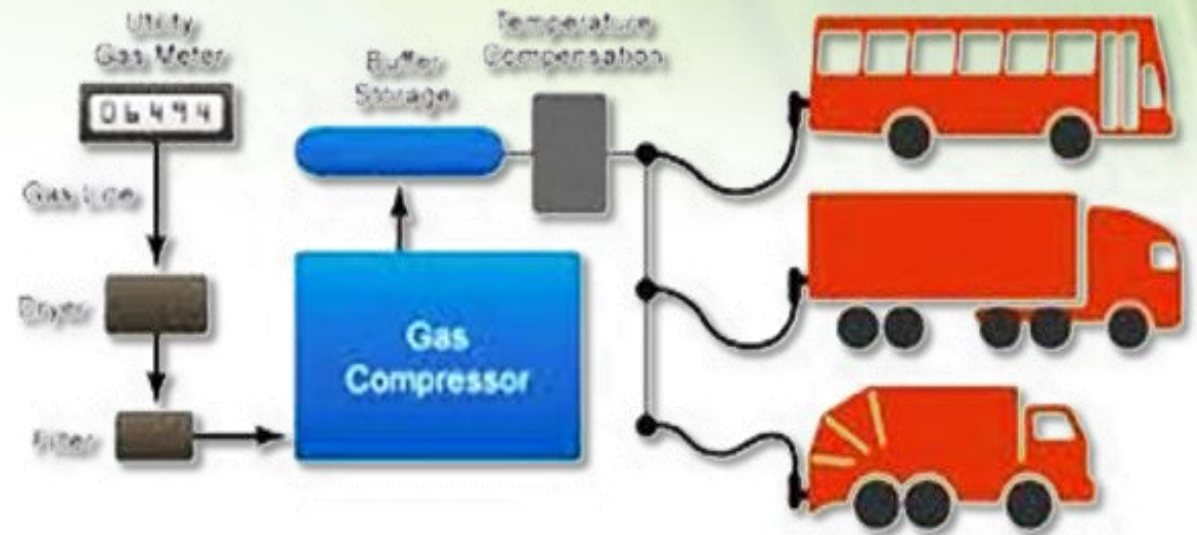
Designed for overnight refueling

02

Lower construction cost

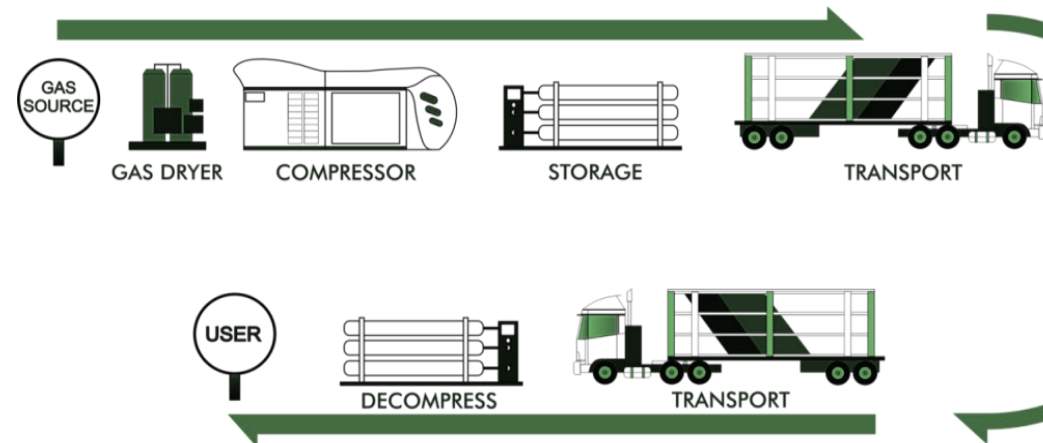
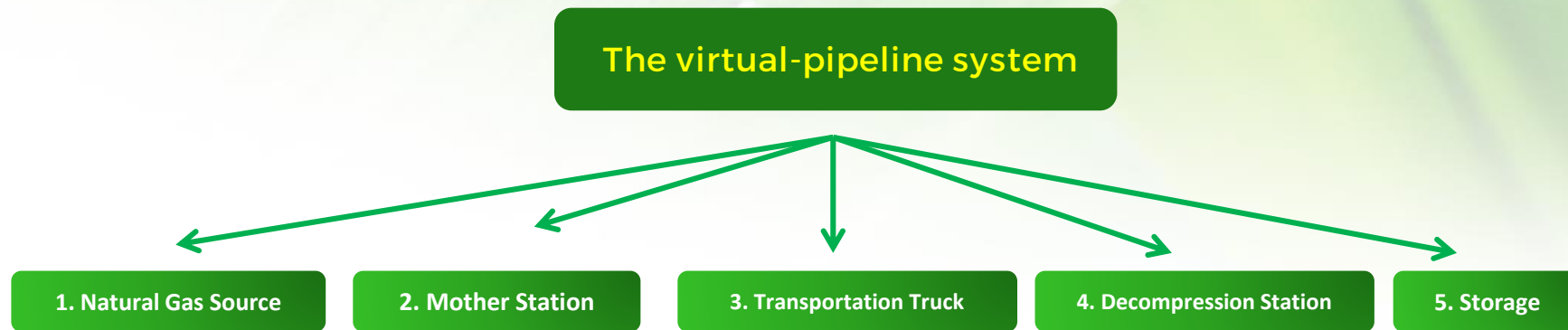
03

Longer refueling time
suitable for vehicles parked for
extended periods overnight



The Virtual Pipeline System

An alternative solution for transporting natural gas to areas without conventional pipeline infrastructure. Based on an integrated modular system which allows the natural gas transportation in the form of compressed gas.



Key Advantages

- Cost-effective solution
- Fast deployment compared to pipelines
- Suitable for remote or undeveloped areas
- High operational flexibility

5- Virtual Pipeline Gas Delivery System



01

Gas containers on the trailer are filled at one of the main mother stations connected to a gas source

03

The gas is discharged from the containers at a pressure reduction station

The trailer is transported to remote areas that are not connected to the gas network

02

The gas is injected into the gas network according to the required pressure and quantity for the end user.

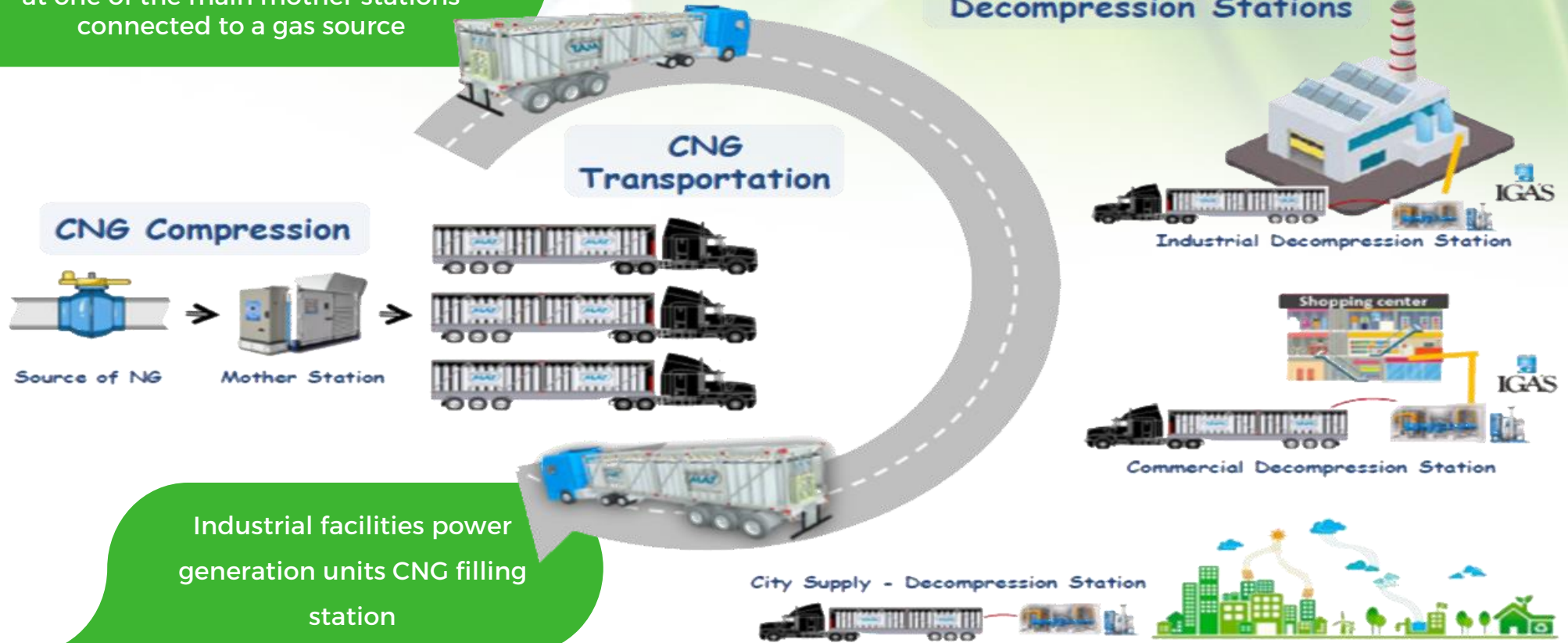
04

The virtual pipe line applications

End

End Users Applications

Gas containers on the trailer are filled at one of the main mother stations connected to a gas source



Industrial facilities power generation units CNG filling station

City Supply - Decompression Station

CNG Delivery Decompression Stations

CNG Compression

CNG Transportation

Source of NG

Mother Station

Industrial Decompression Station

Shopping center

Commercial Decompression Station

IGAS

IGAS

IGAS



Digital Transformation



200 stations added to the
SCADA system

Which led to enhanced
operational efficiency through
precise real-time monitoring of all
station components.

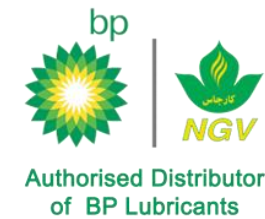


lubricants

Lube Oils



CarGas is the sole agent and authorized distributor for the international bp company, responsible for distributing Visco and Vanellus oils for gasoline and diesel engines in the Arab Republic of Egypt.

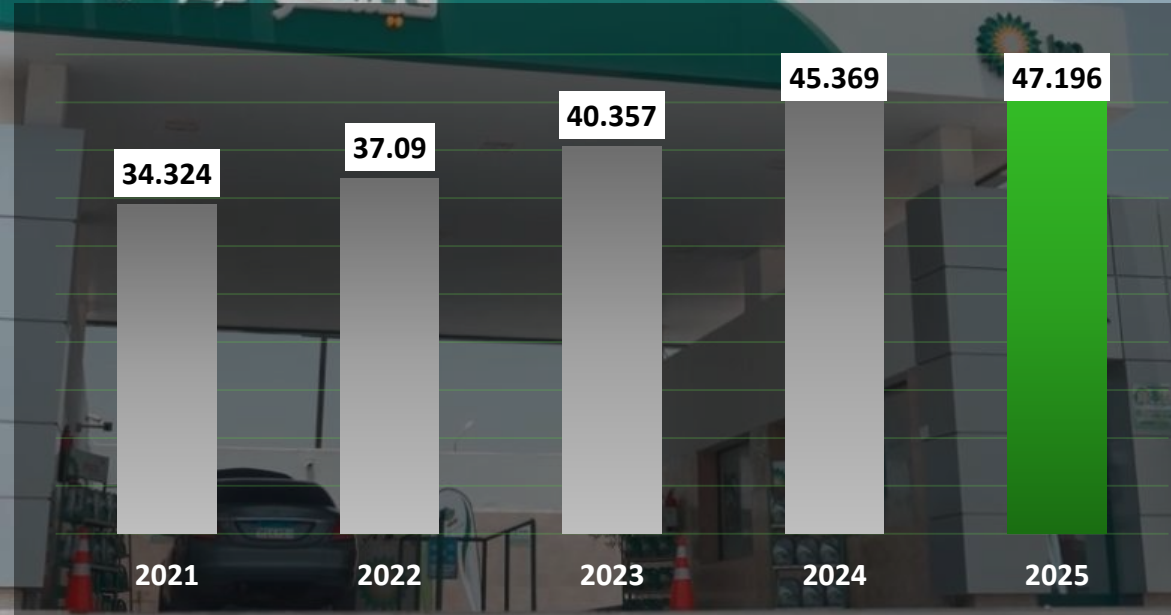


Lube Oils Sales



Accumulated lube oil sales to date have exceeded

47 thousand tons



Products of bp lube oils



bp lube oils are manufactured using the latest global technologies and undergo extensive testing to maintain high-quality standards in accordance with the highest specifications.



Hydraulic oils and other lubricants



Gasoline and natural gas engine oils



Diesel engine oils

Products of CarGas lube oils



A motor oil brand under the name Prime, produced by CarGas, in line with the national direction to support and promote Egyptian Production.



Diesel engine oils



Gasoline and natural gas engine oils



Effective marketing for wider reach through:



Advertising and promotions



Oil shops and distributors



Distribution vehicles and marketing teams



The company's oil centers



Natural Gas Vehicles Company
(Cargas)

Thank You for your Time