

**GAS
SOUTH**
Natural Energy



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THE ENTERPRISE INFORMATION

Trading name:

SOUTHERN GAS TRADING JOINT STOCK COMPANY

GENERAL INFORMATION



Name in English: SOUTHERN GAS TRADING
JOINT STOCK COMPANY
Abbreviation: GAS SOUTH JSC
Stock code: PGS
Listing date: 15/11/2007
Stock exchange: HNX

Business registration certificate No.
0305097236, first issued by the Department
of Planning and Investment of Ho Chi Minh
City dated 25/07/2007, registered for the
23rd change dated 11/08/2022.
Charter capital: 500,000,000,000 VND
Equity: 1,014,741,766,358 VND
(on 31/12/2024)
Total asset: 2,841,418,344,920 VND
(on 31/12/2024)
Total number of employees: 1,200
Head quarter: Floor 4th, PetroVietnam
Tower, no. 1 – 5 Le Duan Street, Ben Nghe
Ward, District 1, Ho Chi Minh City, Vietnam
Tel: 028 3910 0324 - 028 3910 0108
Fax: 028 3910 0165
Website: www.pgs.com.vn

Originally established as the Southern Gas Trading Enterprise, a subsidiary of the Petro Vietnam Gas Corporation (PV GAS), the Southern Gas Trading Joint Stock Company was founded under Decision No. 389/QĐ-HĐQT dated March 28, 2000, by the Board of Directors of the Vietnam Oil and Gas General Department (known as the Vietnam Oil and Gas Group).

Through the process of formation and development, Gas South has become one of the leading gas fuel suppliers in Vietnam, serving various uses from industrial, residential to transportation sectors.

With the strength of supplying three types of fuels, including LPG, CNG, and LNG, Gas South confidently meets optimally customer needs by ensuring a stable supply, product quality, and the most competitive pricing.

Operating motto “SAFETY – QUALITY – EFFECTIVENESS”

Establishment – trade
in LPG products

Listed on the Stock Exchange
(HNX)
Stock code: PGS

Trade in CNG products

Owning a plant for LPG
cylinder manufacturing
and refurbishment

Granted a Certificate of eligibility for trading
LNG – Becoming one of the few enterprises
capable of simultaneously supplying LPG,
CNG and LNG directly to customers

2000

2007

2009

2013

2023

"ENSURING A STABLE SUPPLY, QUALITY - COMPETITIVE PRICING"



REPUTATION – DEDICATION ACCOMPANYING FOR DEVELOPMENT TOGETHER

Diverse products: A set of three fuels – LPG, CNG, and LNG

Complete supply chain – Extensive distribution network

Flexible services for customers' options:

- Transportation
- Operation
- Investment in gas supply system installation

Gas supply systems with equipment that ensures safety and meets national and international standards.

Advantages of using LPG/CNG/LNG com- pared to traditional fuels (coal, oil):

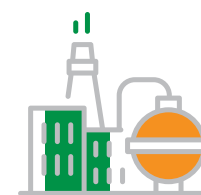
- Cost savings in production due to high combustion efficiency and competitive pricing.
- Extended equipment lifespan, reduced maintenance and repair costs due to cleaner operation.
- Environmental treatment cost savings due to low emissions.
- Optimization for industries in Industrial manufacturing/ Residential/ Transportation.

Benefits of using LPG/CNG/LNG from Gas South:

- Customers receive expert advice on selecting the most suitable and efficient fuel type.
- Ensured stable fuel supply.
- Guaranteed safety and fire prevention through a closed gas supply system and strict operating procedures.

LPG BUSINESS CAPACITY

- **4** LPG warehouses with the total capacity of **8,100** tons
- **17** LPG filling stations
- **100** Wholesalers
- **1,300** Agents and Affiliated Stores
- **01** Plant for manufacturing and painting cylinders



CNG/LNG BUSINESS CAPACITY



CNG compressor station for buses

Gas South currently owns and operates two large - capacity CNG compression stations located in convenient positions, thus ensuring a stable fuel supply for customers:

(1) My Xuan CNG compression station at My Xuan A Industrial Park, Phu My Town, Ba Ria - Vung Tau Province, with a capacity of 200 million Sm³ per year.

(2) Hiep Phuoc CNG compression station at Hiep Phuoc Industrial Park, Nha Be District, Ho Chi Minh City, with a capacity of 80 million Sm³ per year.

Additionally, in Ho Chi Minh City, Gas South also owns 03 CNG compression stations for more than 500 CNG - powered buses.

In 2023, Gas South invested in transportation vehicles and LNG supply stations for existing customers, becoming one of the few enterprises capable of simultaneously supplying all three products: LPG, CNG, and LNG.



The supply station integrates LPG, CNG and LNG



Tank truck transporting LNG

Thanks to its experienced and highly skilled workforce, together with CNG and LNG supply station equipment systems that meets international and Vietnamese standards, operated under strict procedures, Gas South consistently provides safe, continuous, high-quality, and efficient gas supply to its customers.

LIQUEFIED PETROLEUM GAS (LPG)

Liquefied Petroleum Gas (LPG), commonly known as gas, is composed of Hydro-Carbon gases, mainly Propane and Butane (also Iso-Butane), obtained from the process of crude oil refining or natural gas processing.



CYLINDER LPG PRODUCTION AND DISTRIBUTION PROCESS



SAFETY IN LPG USE



The LPG filling system is operated in a closed-loop process. All gas cylinders are:

- Strictly inspected before shipment.
- Initial safety inspection by the State authority before putting into use.
- Periodic inspection according to regulations.



LPG IS ENVIRONMENTALLY FRIENDLY



As a low-emission fuel that is easy to transport, LPG has been gradually replacing traditional fuels such as firewood, coal, rice husk, straw, etc.

CYLINDER LPG

The cylinder LPG products of Gas South have appeared in the market since 2000, and constantly grown over the years. In recent years, Gas South has maintained its leading position with the largest market share in the cylinder LPG business.

The sizes of cylinder LPG are diverse, and popular in domestic and industrial applications.

All cylinder LPG products of Gas South are insured with the compensation up to VND 25 billion/case.

THE SIZES OF CYLINDER LPG ARE VERY DIVERSE

6kg Cylinder LPG

Users: Students, small households, and mobile food stands.
Cylinder's weight: 8.1 - 8.5kg
Weight of LPG: 6kg \pm 50g

12kg Cylinder LPG

Users: households, small food stores.
Cylinder's weight: 13.5 - 15.5kg
Weight of LPG: 12kg \pm 100g

20kg Cylinder LPG

Users: For needs of small to medium consumption such as restaurants, cateries, and business households.
Cylinder's weight: 19.2 - 19.8kg
Weight of LPG: 20kg \pm 100g

45kg Cylinder LPG

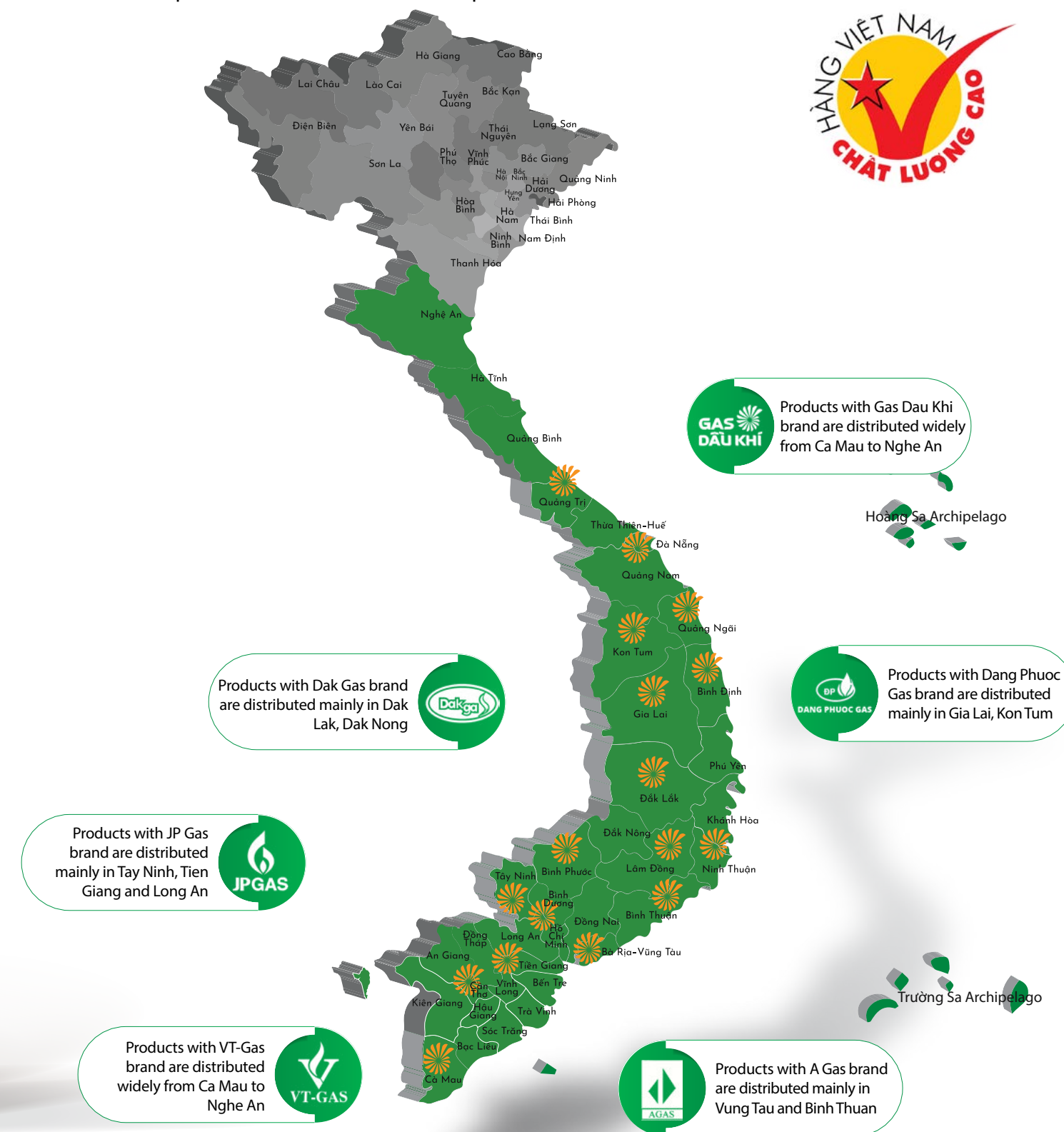
Users: for medium to large business such as restaurants, hotels, schools, catering business, small and medium-sized factories.
Cylinder's weight: 37 - 40kg
Weight of LPG: 45kg \pm 200g



DISTRIBUTION AREA OF CYLINDER LPG FROM CA MAU TO NGHE AN

For many consecutive years, Gas South has maintained its leading position in supplying LPG cylinders in the South with 06 brands: Gas Dau Khi, VT Gas, A Gas, Dang Phuoc Gas, JP Gas, Dak Gas. It is also proud to have products that have been voted by consumers as high-quality Vietnamese goods for many years.

This achievement is attributed to Gas South's extensive distribution system, which includes LPG storage facilities and filling stations spanning from Ca Mau to Nghe An, in addition to owning the largest LPG cylinder manufacturing and refurbishment plant in Vietnam. The complete supply chain has enabled Gas South to remain proactive and resilient in a competitive and volatile market.



WAREHOUSE SYSTEM

With the total storage capacity of up to 8,100 tons across 4 warehouse system, Gas South has the biggest warehouse system in Vietnam. Therefore, been able to take the advantage of operating scale and flexibility in inventory management to limit the impact of LPG price fluctuations in the market.



Dung Quat LPG warehouse in Quang Ngai (1,500 tons), taking directly from Dung Quat Oil Refinery, supplying LPG to the Central region



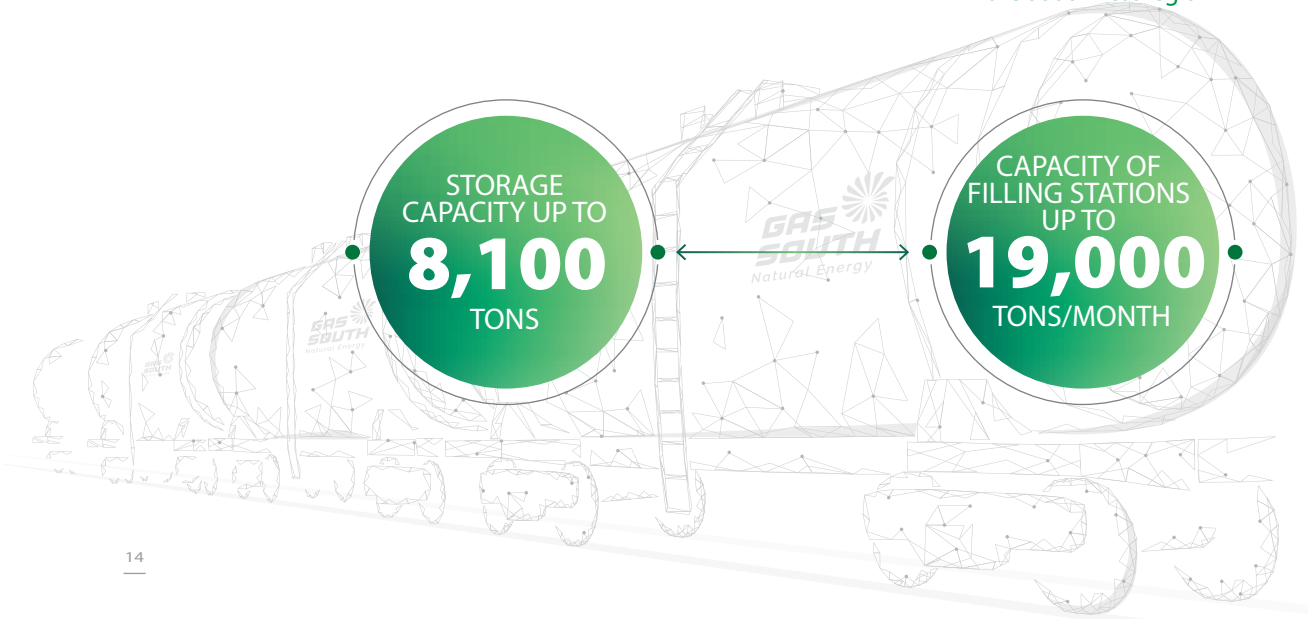
VT GAS LPG warehouse in Dong Nai (1,000 tons)



Go Dau LPG Warehouse in Dong Nai (4,000 tons), supplying LPG to the Southeast region



Can Tho LPG Warehouse (1,600 tons), supplying LPG to the Southwest region



SYSTEM OF FILLING STATIONS OWNED BY GAS SOUTH			
	UNIT	PROVINCE/CITY	CAPACITY (TON/MONTH)
I.	Western Branch		4,900
01	Ca Mau LPG station	Ca Mau	1,000
02	Can Tho LPG station	Can Tho	3,500
03	Tien Giang LPG station	Tien Giang	400
II.	VT GAS Company		7,400
01	Vinh Loc LPG station	Ho Chi Minh City	1,800
02	Dong Nai LPG station	Dong Nai	2,600
03	Vung Tau LPG station	Ba Ria – Vung Tau	600
04	Tay Ninh LPG station	Tay Ninh	600
05	Binh Phuoc LPG station	Binh Phuoc	500
06	Binh Thuan LPG station	Binh Thuan	500
07	Lam Dong LPG station	Lam Dong	800
III.	South Central Branch		3,900
01	Khanh Hoa LPG station	Khanh Hoa	2,700
02	Gia Lai LPG station	Gia Lai	500
03	Dak Lak LPG station	Dak Lak	700
IV.	Central Branch		2,800
01	Binh Dinh LPG station	Binh Dinh	500
02	Dung Quat LPG station	Quang Ngai	1,200
03	Da Nang LPG station	Da Nang	700
04	Quang Tri LPG station	Quang Tri	400
Capacity of LPG station owned by Gas South (17 stations)			19,000

INDUSTRIAL LPG SYSTEM

Gas South provides industrial LPG in two forms: by specialized tank trucks and bottled LPG system.

We specialize in advising, designing, installing, maintaining and guiding our partners through operating the system safely and effectively.



LPG CYLINDER

Gas South's Gas Cylinder manufacturing factory has the uniform closed-circuit and highly automated LPG cylinder production line with the main equipment imported from G7 countries (Japan, USA, etc.).

Gas South's LPG cylinders satisfy the domestic and international standards for producing LPG cylinder, specifically:

1. Vietnam Standard: TCVN 7763
2. Vietnam Standard: QCVN 04:2013/BCT
3. US Standard: DOT 4BA
4. European Standards:
 - EN 1442
 - ISO 4706
 - ISO 22991
5. KGS Standard - AC211(Korea)

LPG cylinders are manufactured by imported steel SG 255 of Nippon (Japan).



PRODUCTION CAPACITY OF LPG CYLINDER

500,000 new cylinders produced per year
1,000,000 cylinders refurbished per year

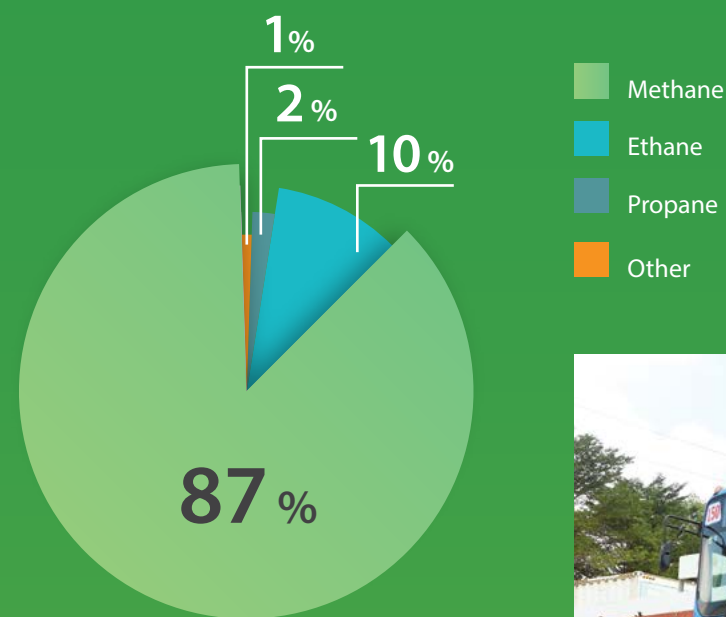
- Qualified valves imported to ensure safety for users.
- The outside of cylinder galvanized by high-tech electric arc technology and electrostatic powder coating technology to protect the metal inside.
- Life Cycle: over 25 years.



COMPRESSED NATURAL GAS (CNG)

CNG is compressed natural gas, mainly composed of CH₄ - methane (accounting for 85%-95%), taken from natural gas fields, and then compressed at high pressure (200 to 250 bar) into specialized tanks to be transported to the location of consumption.

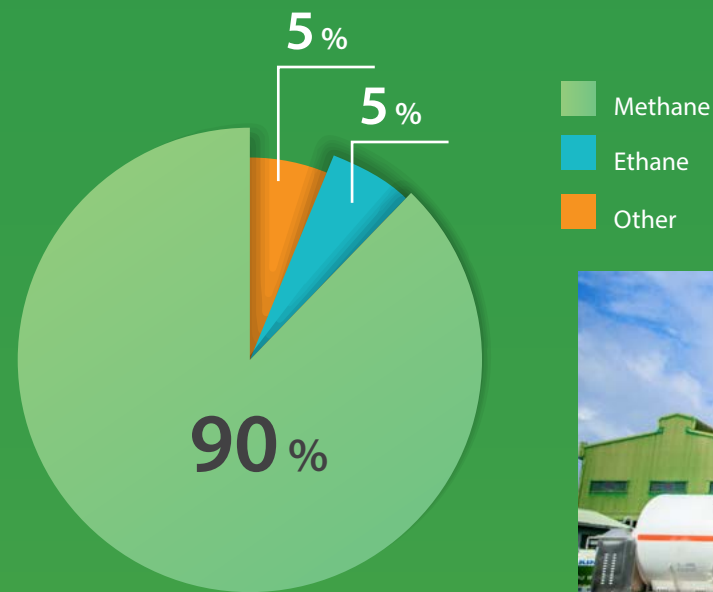
COMPONENTS OF CNG



LIQUEFIED NATURAL GAS (LNG)

LNG is natural gas, mainly composed of CH₄ - methane (accounting for about 90%), colourless and odourless, cooled down at -162°C into the liquid form, and stored in specialized vessels or tanks to be transported to the location of consumption.

COMPONENTS OF LNG



» Notes on units:

- BTU: British thermal unit.
- Sm³ (Standard cubic metre): 1 m³ CNG at standard condition (temperature of 15°C, pressure of 1 at)..
- mmBTU: One million BTU.
- 1Kcal = 3.968321 BTU.

TABLE OF CALORIFIC VALUES (*)					
FUEL	UNIT	Kcal	BTU	mmBTU	
LPG	Kg	11,823	46,917	0.046917	
DO	Kg	10,835	42,997	0.042997	
FO	Kg	9,800	38,890	0.038890	
CNG	Sm ³	10,080	40,001	0.040001	
LNG	Kg	13,114	52,042	0.052042	

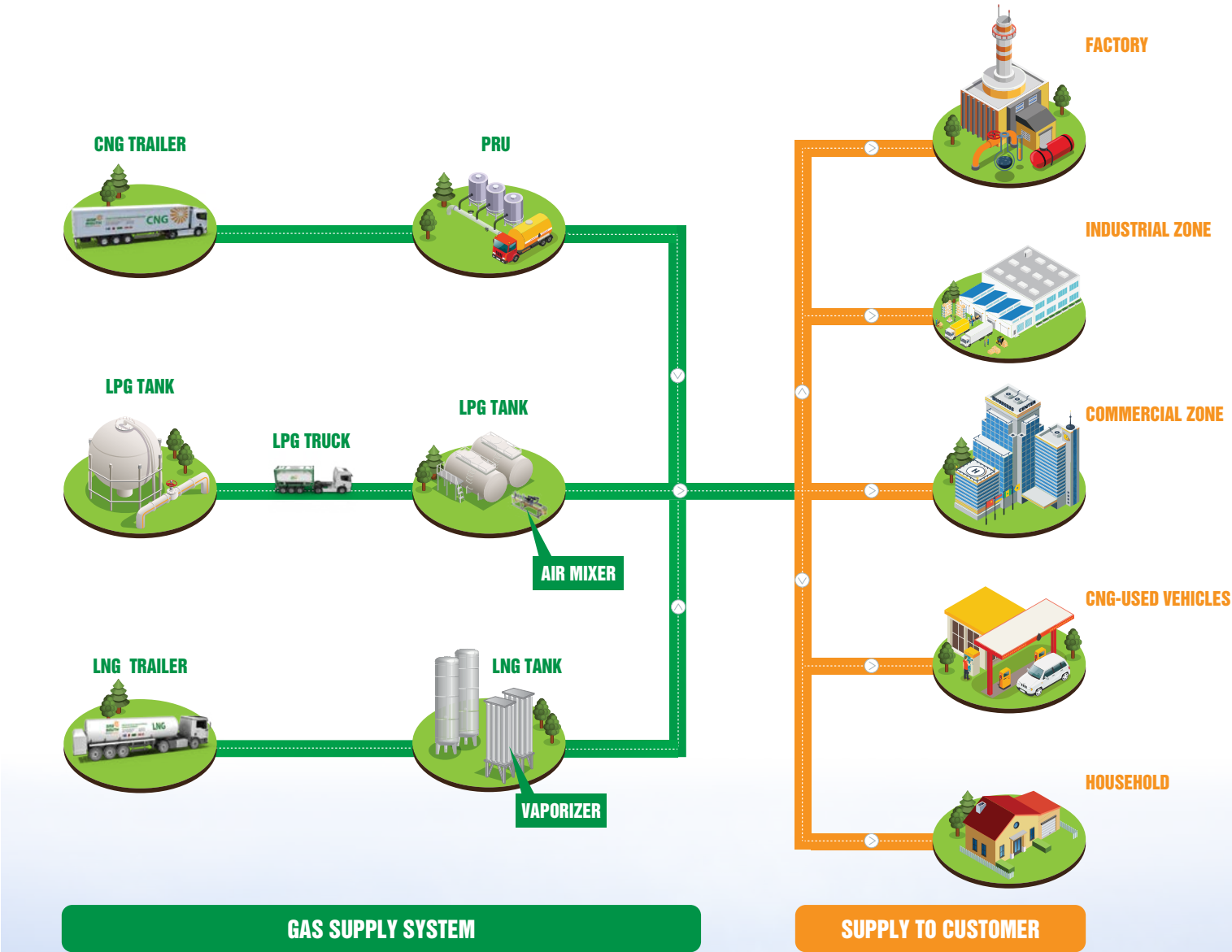
TABLE FOR PROPERTIES OF COMBUSTION FUEL (*)					
PROPERTIES	CNG	LNG	LPG	DIESEL	FO 3.5S
Color/Odour	None	None	None	Yes	Yes
Specific weight	0.75 - 0.83 Kg/Sm ³	0.41 - 0.5 Kg/Litre	0.51 - 0.56 Kg/Litre	0.82 - 0.87 Kg/Litre	0.991 (Max) Kg/Litre
Calorific value (MJ/kg)	50 - 56	55	49.5	45.36	41.03
Burning temperature (°C)	1,954	1,880	1,950	1,780	N/A
Auto-ignition temperature (°C)	540	482 - 632	374	260	407



TABLE FOR SAFETY COMPARISON OF COMBUSTION FUEL (*)				
	LNG	CNG	LPG	XĂNG DẦU
Combustibility	Lighter than air, easily disperse in event of spillage		Heavier than air, settle to ground and accumulate in low areas; highly flammable	
Container material	Special materials, design pressure of 12kg/cm ²	Special materials, able to withstand pressure above 250 bar	Normal steel, design pressure of 18kg/cm ²	Normal steel
Accessories	Emergency shutdown valve will automatically disconnect flow to prevent the leakage in case of incident			None

(*) Data is only for reference

THE MODEL OF GAS SOUTH’S GAS SUPPLY SYSTEM TO CUSTOMERS





1. Western Branch

Address: Lot II.5, II.6, Tra Noc II Industrial Park, Phuoc Thoi Ward, O Mon District, Can Tho City
Phone: 0292 3843 064 Fax: 0292 3843 067

1.1. Western branch in Tien Giang

Address: Tan My Chanh Industrial - Industrial Cottage Cluster, Ward 9, My Tho City, Tien Giang Province
Phone: 0273 3958 455 Fax: 0273 3958 445

1.2. Western branch in Vinh Long

Address: 138C Dinh Tien Hoang, Ward 8, Vinh Long Town, Vinh Long Province
Phone: 0270 3877 276 Fax: 0270 3877 276

1.3. Western branch in Ca Mau

Address: 18/4 Ly Thuong Kiet, Cluster 5, Ward 6, Ca Mau City, Ca Mau Province
Phone: 0290 3552 991 Fax: 0290 3552 991

1.4. Western branch in Long An

Address: Lot A-1, Street 1, Phuc Long Industrial Park, Long Hiep Commune, Ben Luc District, Long An Province

2. South Central Branch

Address: Lot 19, Dien Phu Industrial - VCN, Dien Phu Commune, Dien Khanh District, Khanh Hoa province.
Phone: 0258 3725 112/222
Fax: 0258 3725 113

2.1. South Central branch in Dak Lak

Address: Lot CN 7-2, Street 5, Tan An Industrial Cluster, Tan An Ward, Buon Ma Thuot City, Dak Lak Province
Phone: 0262 3949 123 Fax: 0262 3842 842

2.2. South Central Branch in Gia Lai

Address: Lot D4, Tra Da Industrial Park, Tra Da Commune, Pleiku City, Gia Lai Province
Phone: 0269 3735 678 Fax: 0269 3735 123

3. Central Branch

Address: Lot M2, Street 7, Lien Chieu Industrial Park, Hoa Hiep Bac Ward, Lien Chieu District, Danang City
Phone: 0236 3772 962 Fax: 0236 3773 944

3.1. Central branch in Quang Ngai

Address: Eastern Dung Quat Industrial Park, Binh Thuan Commune, Binh Son District, Quang Ngai Province
Phone: 0989 665 457

3.2. Central branch in Da Nang

Address: Lot M2, Street 7, Lien Chieu Industrial Park, Hoa Hiep Bac Ward, Lien Chieu District, Danang City
Phone: 0236 3772 962 Fax: 0236 3773 944

3.3. Central branch in Binh Dinh

Address: Lot D601, Nhon Hoi A Industrial Park, Nhon Hoi Commune, Quy Nhon City, Binh Dinh Province
Phone: 0236 3629 168

3.4. Central branch in Quang Tri

Address: Quan Ngang Industrial Park, Gio Quang Commune, Gio Linh District, Quang Tri Province

4. Dong Nai Branch

Specializing in trading CNG/LNG products

Address: Street No. 3A, My Xuan A Industrial Park, Tan Thanh District, Ba Ria - Vung Tau Province
Phone: 0254 3932 923/924/925
Fax: 0254 3932 926/927

5. Vietnam Liquefied Gas Company Limited - VT GAS

Address: Room 606, 6th floor, Waseco building, No. 10 Pho Quang, Ward 2, Tan Binh District, Ho Chi Minh City
Phone: 028 3 9976 821/2 Fax: 028 3 9976 823

5.1. Vietnam Liquefied Gas Company Limited - VT GAS - Dong Nai Branch

Address: No. 1B-D3, Binh Duong Quarter, Long Binh Tan Ward, Bien Hoa City, Dong Nai Province

5.2. Business location of Vietnam Liquefied Petroleum Gas Company Limited - VT GAS

Address: Lot D1/1, Vinh Loc Industrial Park, Street No. 1B, Binh Hung Hoa B Ward, Binh Tan District, Ho Chi Minh City

5.3. Vietnam Liquefied Petroleum Gas Company Limited - VT GAS - Tay Ninh Branch

Address: 262 Nguyen Luong Bang, Truong Duc Hamlet, Truong Dong Commune, Hoa Thanh District, Tay Ninh Province

5.4. Vietnam Liquefied Gas Company Limited - VT GAS - Binh Phuoc Branch

Address: Lot H1-H2, N4 Street, Bac Dong Phu Industrial Park, Tan Phu Town, Dong Phu District, Binh Phuoc Province

5.5. Vietnam Liquefied Gas Company Limited - VT GAS - Lam Dong Branch

Address: Lot BI-11, Phu Hoi Industrial Park, Phu Hoi Commune, Duc Trong District, Lam Dong Province

5.6. Vietnam Liquefied Gas Company Limited - VT GAS - Binh Thuan Branch

Address: Lot C3.20, D5 Street, Ham Kiem II - Bitas Industrial Park, Ham Kiem Commune, Ham Thuan Nam District, Binh Thuan Province

5.7. Vietnam Liquefied Gas Company Limited - VT GAS - Vung Tau Branch

Address: Street No. 3, Dong Xuyen Industrial Park, Rach Dua Ward, Vung Tau City, Ba Ria - Vung Tau Province

6. Binh Khi Branch

Specializing in producing and maintaining LPG cylinders

Address: D3 Street, Vinatex Tan Tao Industrial Park, Hiep Phuoc Town, Nhon Trach District, Dong Nai Province
Phone: 0251 3566 051/053 Fax: 025 3566 052





SOUTHERN GAS TRADING JOINT STOCK COMPANY

Head quarter: Floor 4th, PetroVietnam Tower, no. 1 – 5 Le Duan Street, Ben Nghe Ward, District 1, HCMC

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