GAS
MALAYSIA

INTRODUCTION TO GAS SUPPLY SYSTEM FOR RESIDENTIALS AND COMMERCIALS

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INTRODUCTION TO GAS MALAYSIA

About us

- **Incorporated on May 16, 1992**
- **Licensed to distribute natural gas**
- **In 2000 was Licensed to distribute LPG**
- **Distribute NG and LPG through pipeline within peninsular Malaysia**

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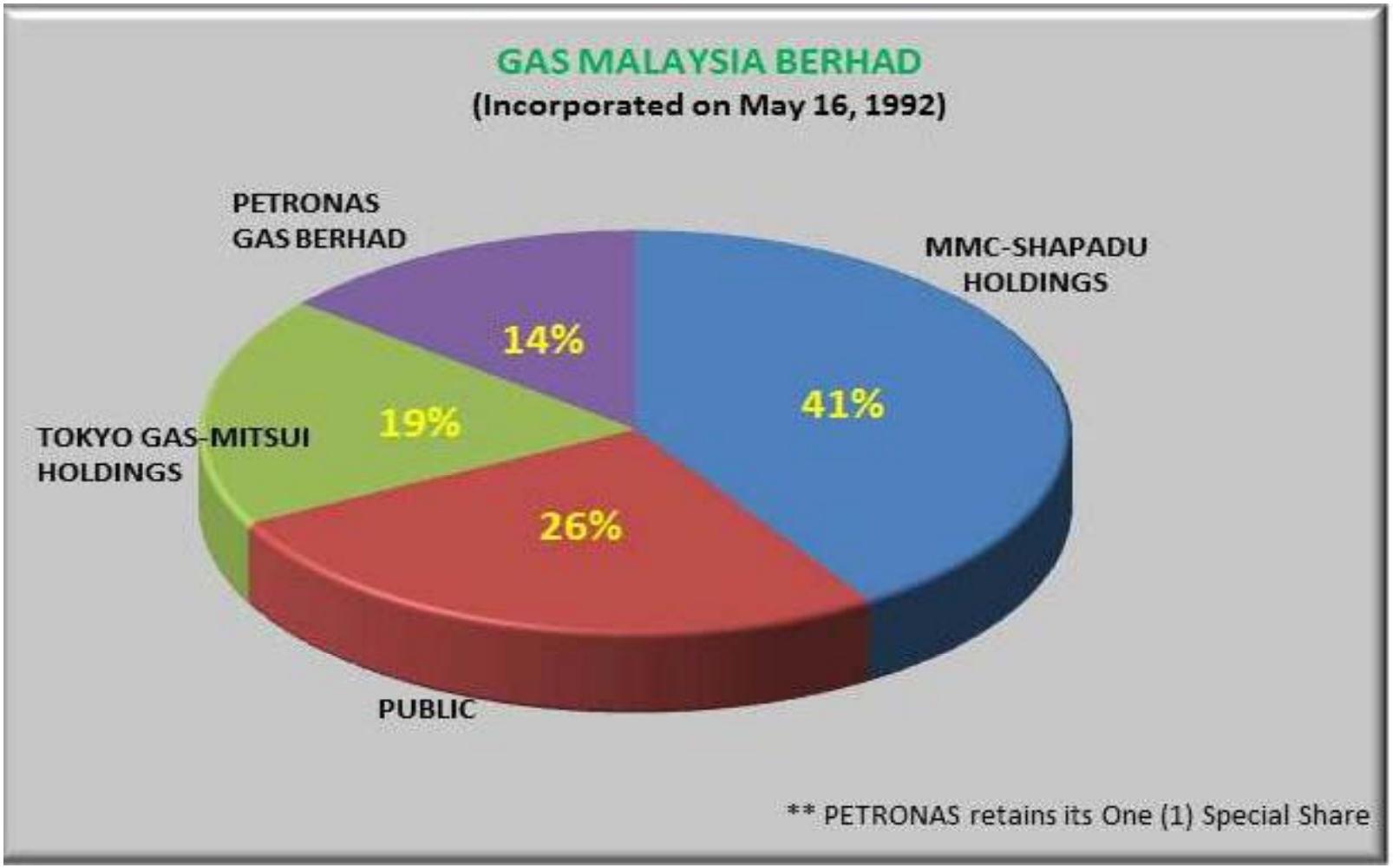
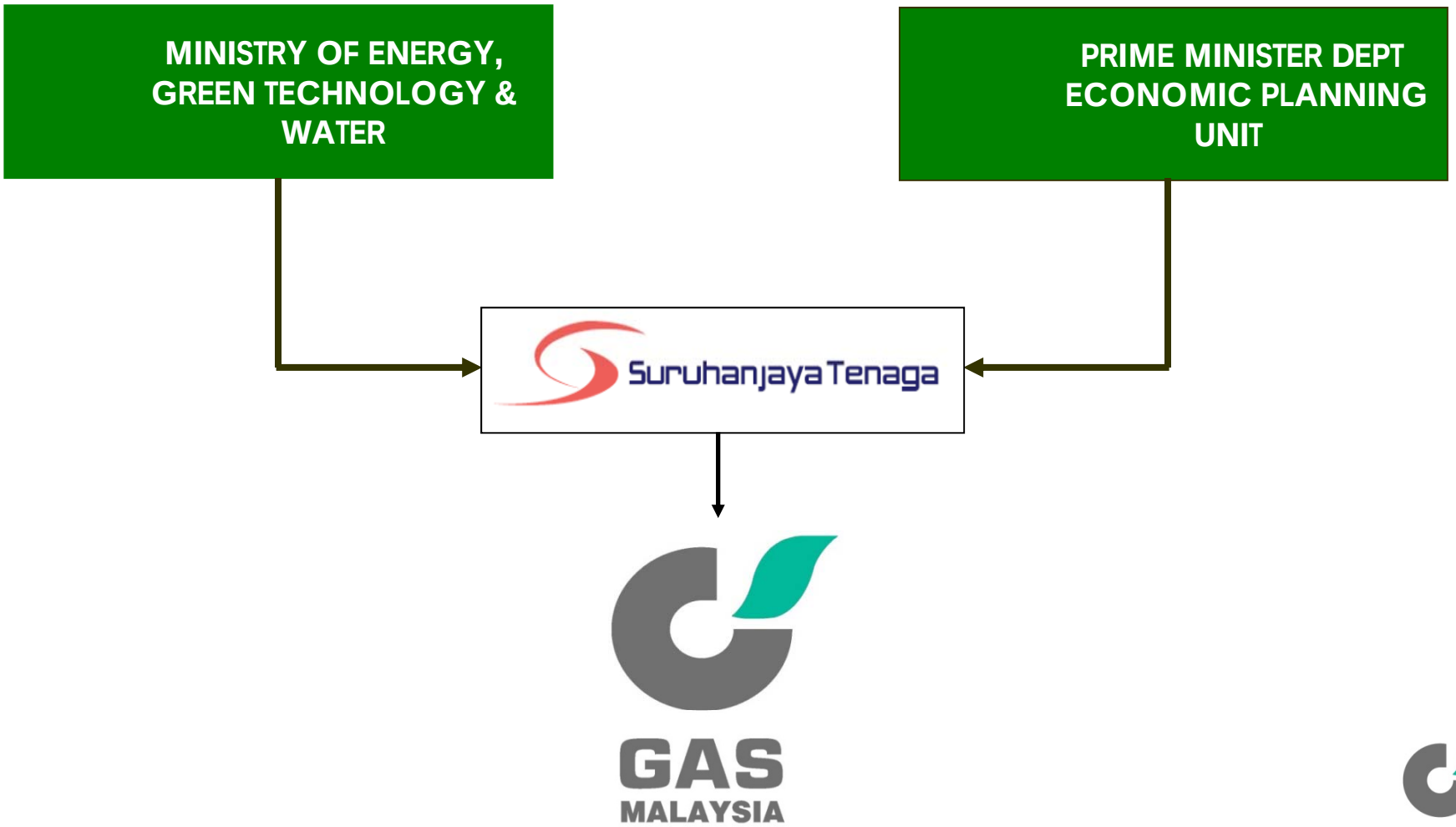
Shareholders



Regulatory Framework



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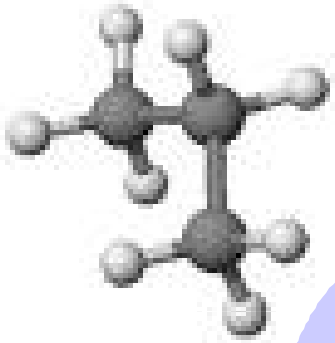
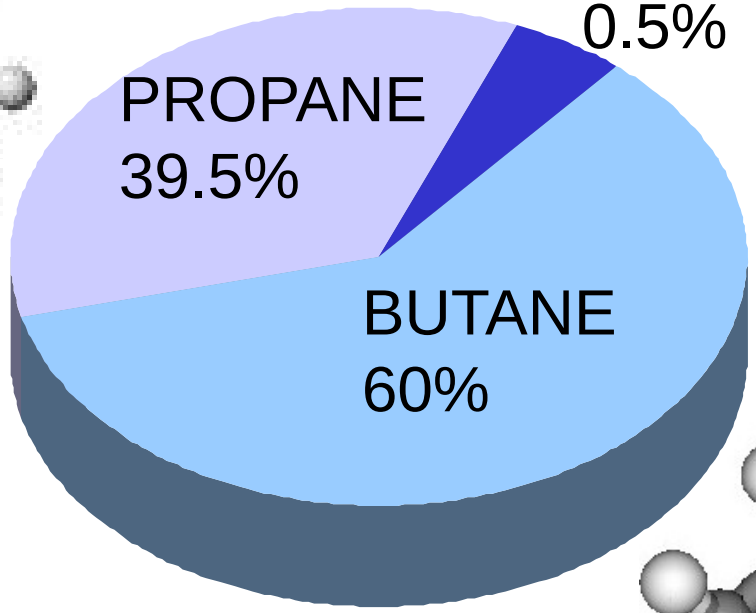
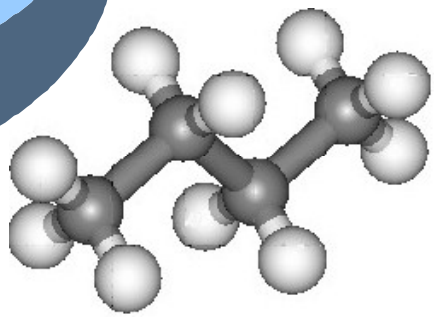
LPG COMPONENTS & CHARACTERISTICS

LPG Components







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LPG Characteristics

- Tasteless
- Colorless
- Originally odorless
- Non-toxic

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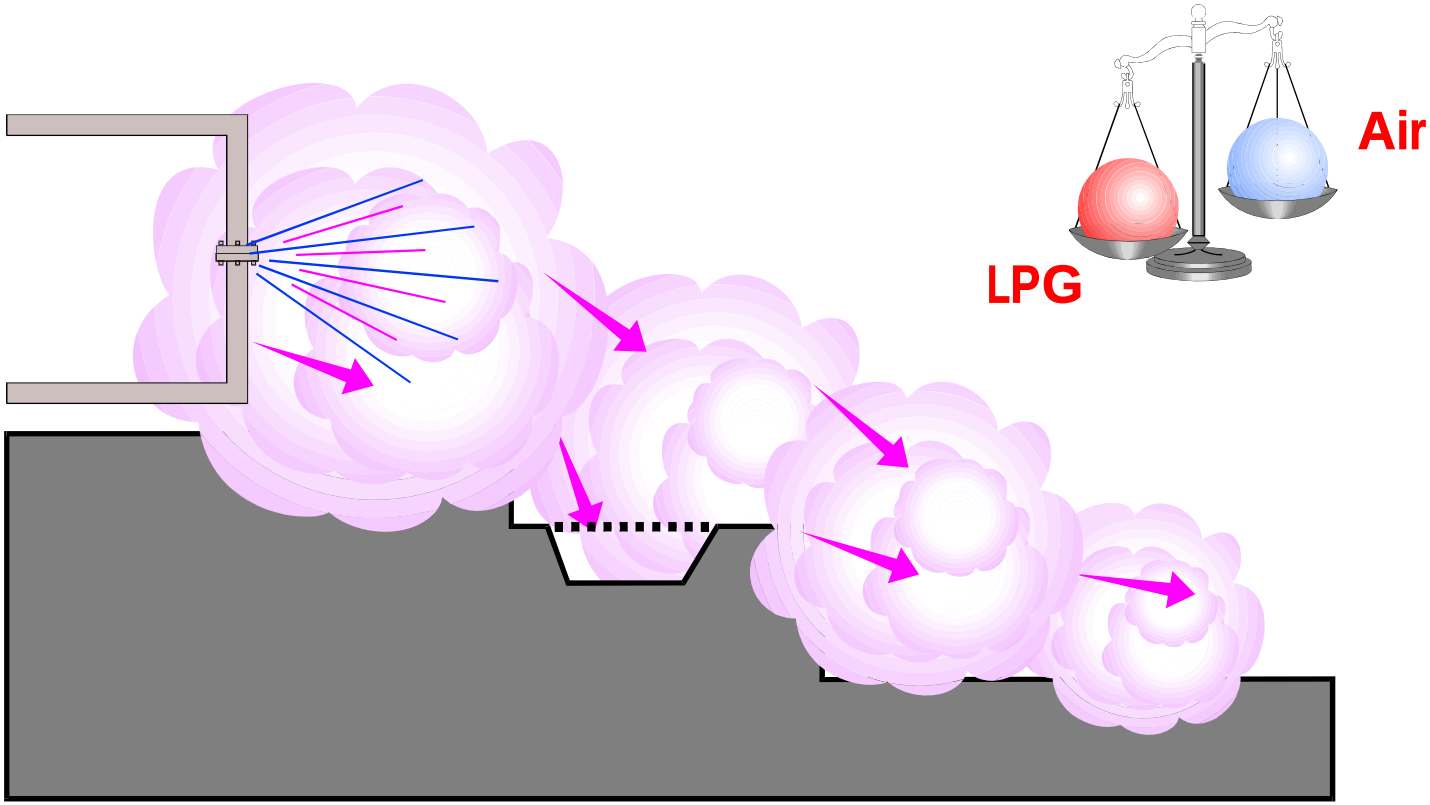
LPG Characteristics



Heavier than air (SG=1.92)

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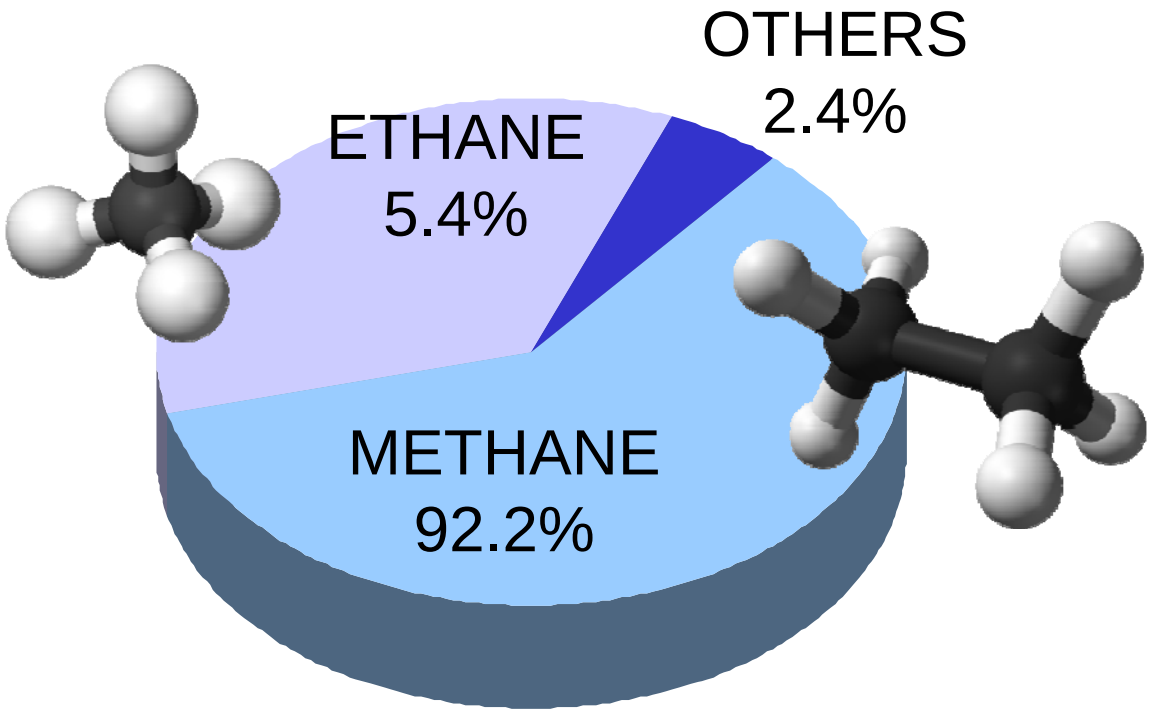
NG COMPONENTS & CHARACTERISTICS

NG Components



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NG Characteristics

- Tasteless
- Colorless
- Originally odorless
- Non-toxic

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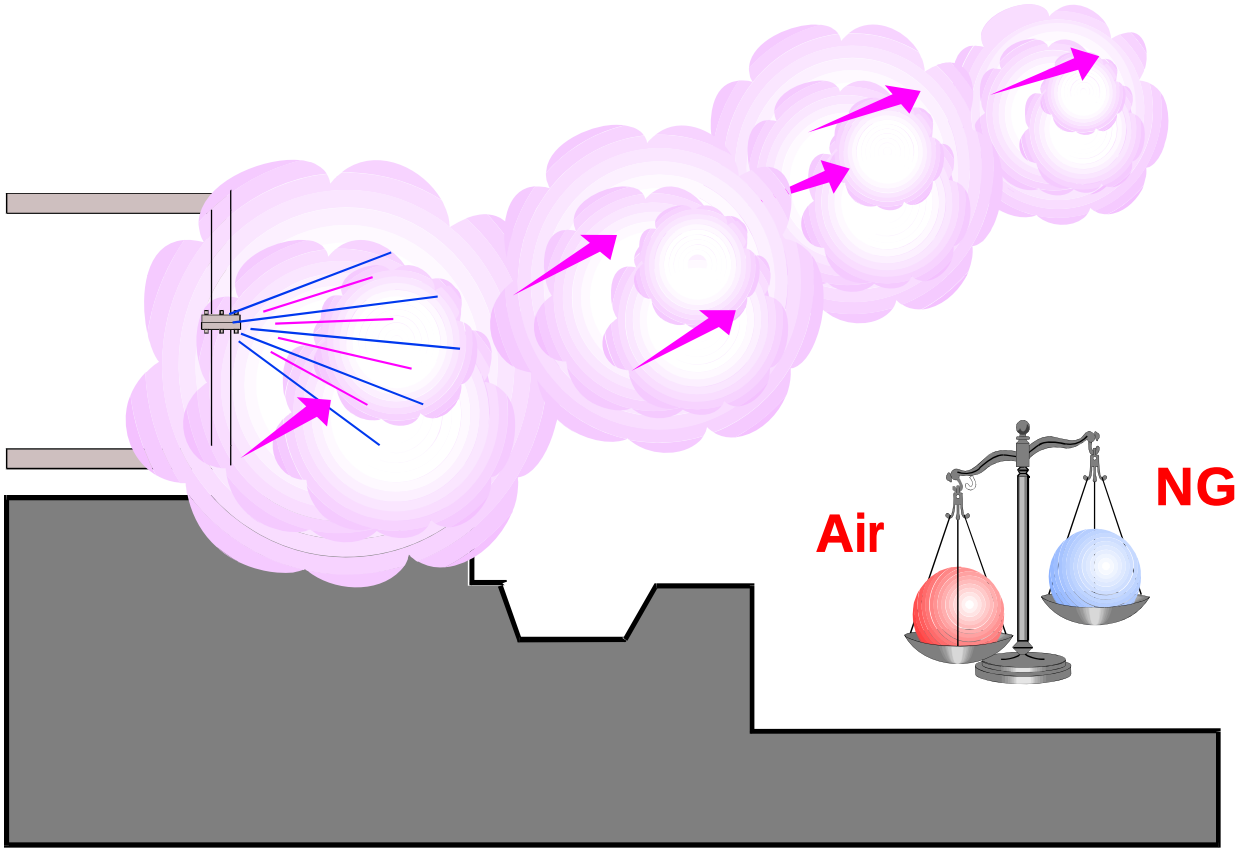
NG Characteristics



Lighter than air (SG = 0.61)

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LPG and NG Characteristics

Description	LPG	NG
Components	Mainly propane & butane	Mainly methane
Specific gravity (air = 1.0)	1.92	0.61
Flammability Limit	2% - 10%	5% - 15%
Auto ignition temperature	510°C	630°C

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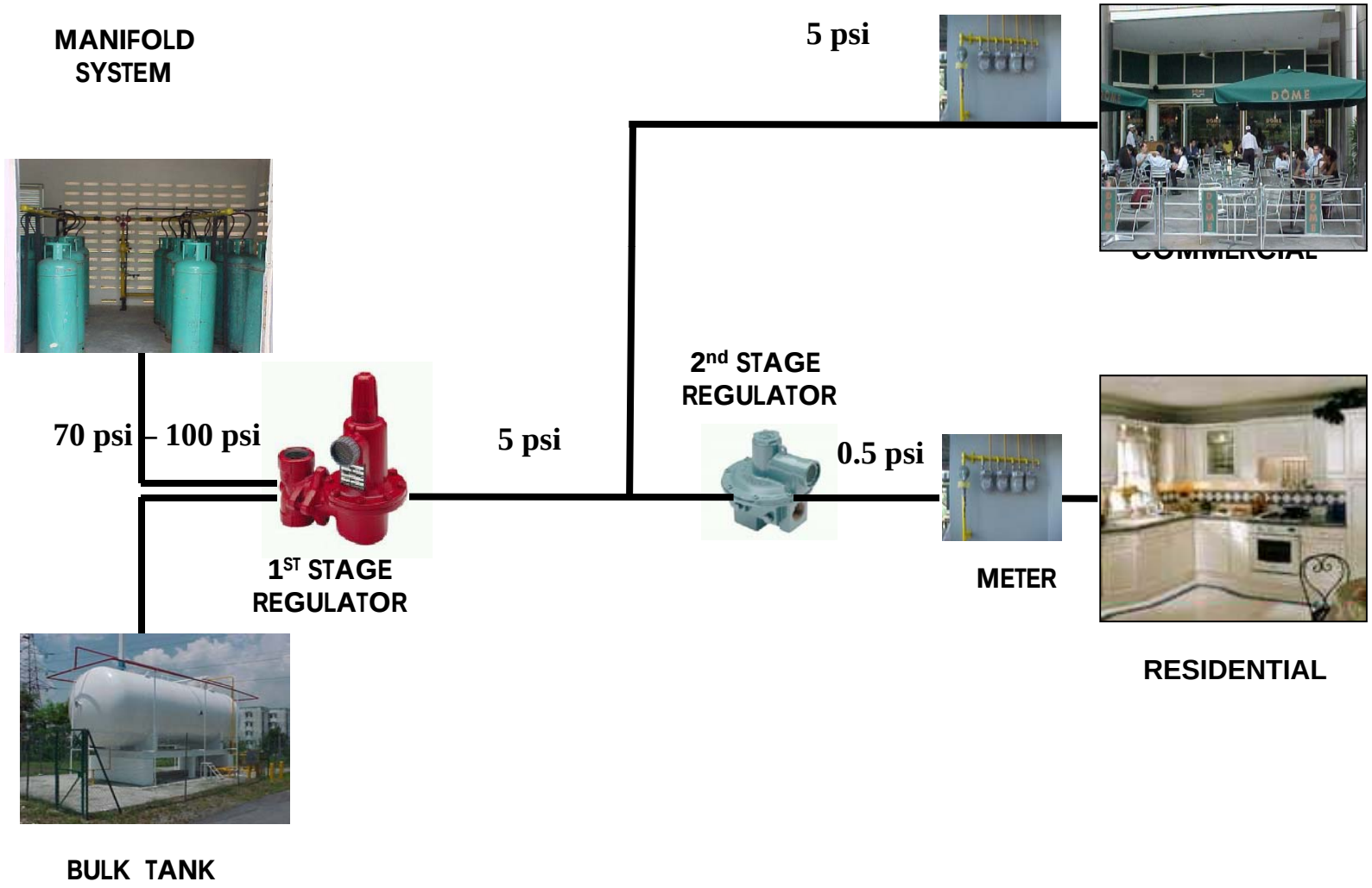
SUPPLY CONCEPT

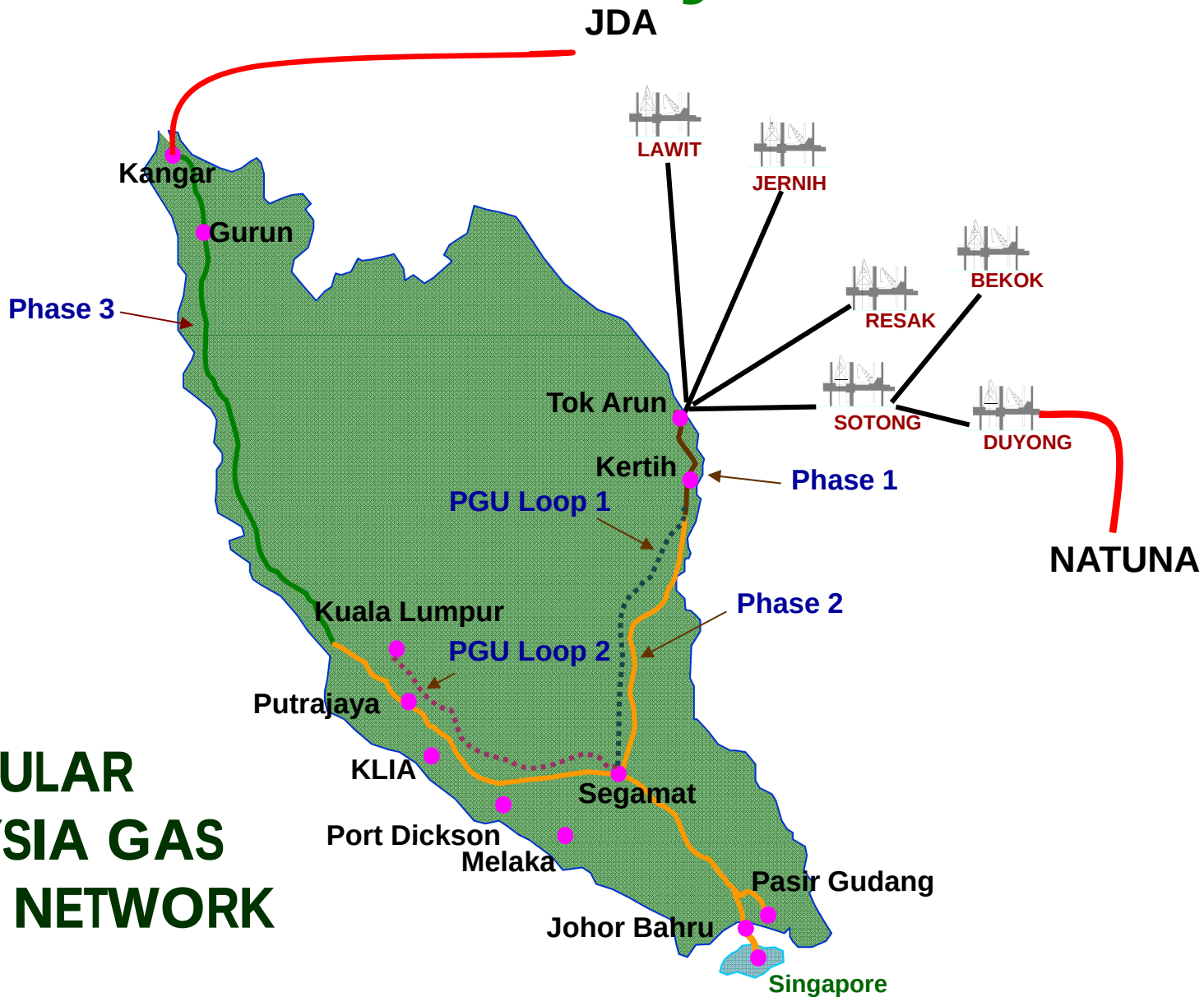
LPG Supply Concept




LPG Bulk Tank

LPG Cylinder Manifold

NG Transmission System



PENINSULAR MALAYSIA GAS SUPPLY NETWORK

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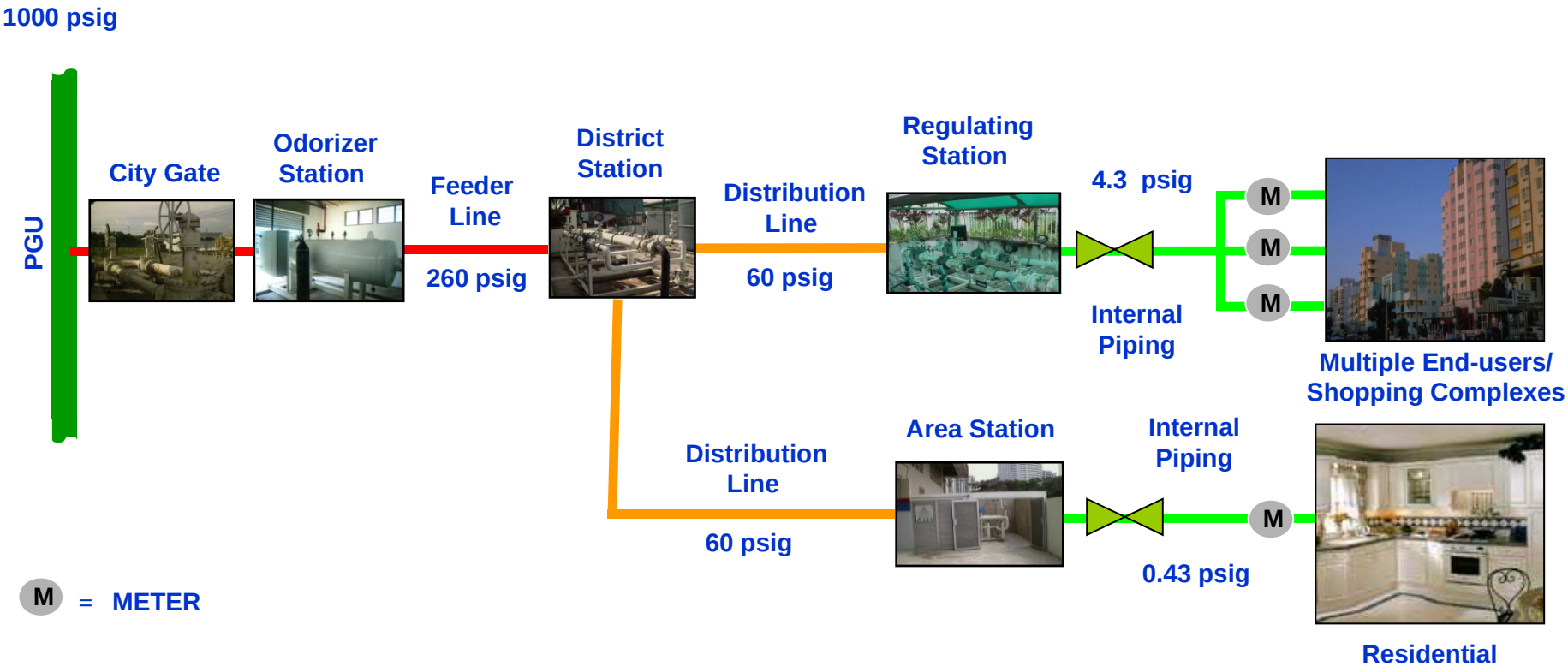
NG Distribution System




NG Station

CODES AND STANDARDS

No	Piping Section	Codes, Standards and Engineering Practice
1.	All Sections	Gas Supply Act 1993 Gas Supply Regulations 1997
2.	Main Pipelines and Stations	ASME B31.8: 2003 – Gas Transmission and Distribution Piping Systems
3.	LPG Storage	MS830: 2003 - Code Of Practice For The Storage, Handling And Transportation Of Liquefied Petroleum Gases
4.	Internal Piping	MS930: 1986 - Code Of Practice For The Installation Of Fuel Gas Piping Systems And Appliances Guidelines on Domestic Gas Piping System (Energy Commission)

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GMB COMMITMENT

GMB Objective

To ensure supply is

- **Safe**
- **Stable**
- **Continuous**

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Key Responsibility

- **Daily Operations**
  - **Pipeline Inspection and surveillance**
  - **Facilities maintenance**
  - **Third party supervision**

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Key Responsibility…*continuation*

- **Troubleshoot & Repair**
- **Emergency Response**
- **Operations Control Center**

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GMB Services to Customers

- **Attend to emergency / complaint**
- **Assist in technical matters**
- **Ensure compliance with regulations**

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Call attended: Supply Interruption

Item	Category	Number of calls
1.	Due to system failure/misoperation at GMB's facilities	12
2.	Due to third party	50
3.	Due to customers	136
	Total	198

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THANK YOU

Call attended: Gas Leak

Item	Category	Number of calls
1.	Due to system failure/misoperation at GMB's facilities	107
2.	Due to third party	2
3.	Due to customers	56
	Total	165

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Call attended: Others

Item	Category	Number of calls
1.	Gas release	18
2.	Fire	5
3.	High Pressure	3
4.	Low Pressure	33
5.	False alarm	143
6.	Others	7
	Total	209

Jan – Jun 2013

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