

# **BRIEFING ON THE DOWNSTREAM OIL AND NATURAL GAS INDUSTRY**

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**E-Power Mo Energy 101 for Media**

10 October 2018

*Grand Xing Imperial Hotel H. Montinola cor. Muelle Loney St., Iloilo City*



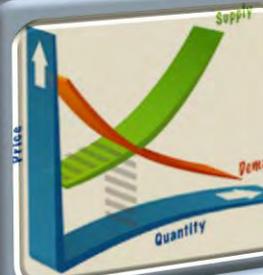
# Outline of Presentation



The Oil Industry  
Management Bureau  
(OIMB)



Regulatory  
Framework/Industry  
Background



Functions



# The Oil Industry Management Bureau (OIMB) Mandate

FORMULATES AND IMPLEMENTS POLICIES, PLANS AND PROGRAMS OF THE DOWNSTREAM OIL AND NATURAL GAS INDUSTRY

OIL INDUSTRY  
COMPETITION  
AND MONITORING  
DIVISION

OIL SUPPLY  
MONITORING AND  
EVALUATION SECTION

OIL DEMAND AND  
MARKET  
COMPETITION  
MONITORING SECTION

OIL PRICE  
MONITORING AND  
EVALUATION SECTION

OIL INDUSTRY  
STANDARDS  
AND MONITORING  
DIVISION

PETROLEUM  
PRODUCTS  
STANDARDS SECTION

FACILITIES AND  
PROCESSES  
STANDARDS SECTION

RETAIL MARKET  
MONITORING  
AND SPECIAL CONCERNS  
DIVISION

LIQUID FUELS SECTION

LPG SECTION

NATURAL GAS  
MANAGEMENT DIVISION

MARKET  
DEVELOPMENT AND  
MONITORING SECTION

INFRASTRUCTURE AND  
INDUSTRY  
DEVELOPMENT  
SECTION



# Regulatory Framework

**RA 7638** – DOE Act of 1992

- prepare, integrate, coordinate, supervise, and control all plans, programs, projects, and activities of the Government relative to energy exploration, development, utilization, distribution, and conservation.

**RA 8479** -  
Downstream Oil  
Industry Deregulation  
Act of 1998

- ensure a truly competitive market for petroleum products under a regime of fair price, adequate and continuous supply of environmentally, clean and high quality petroleum products

**Batas Pambansa 33**

- Prohibited Acts/Penalties Involving Petroleum

**RA 8749** - Clean Air  
Act of 1999

- set the specifications for all types of fuel and fuel-related products (Sec.26)
- set every two (2) years or thereafter or as the need arises, the specification of ULG and diesels shall be reviewed and revised (Sec. 26)

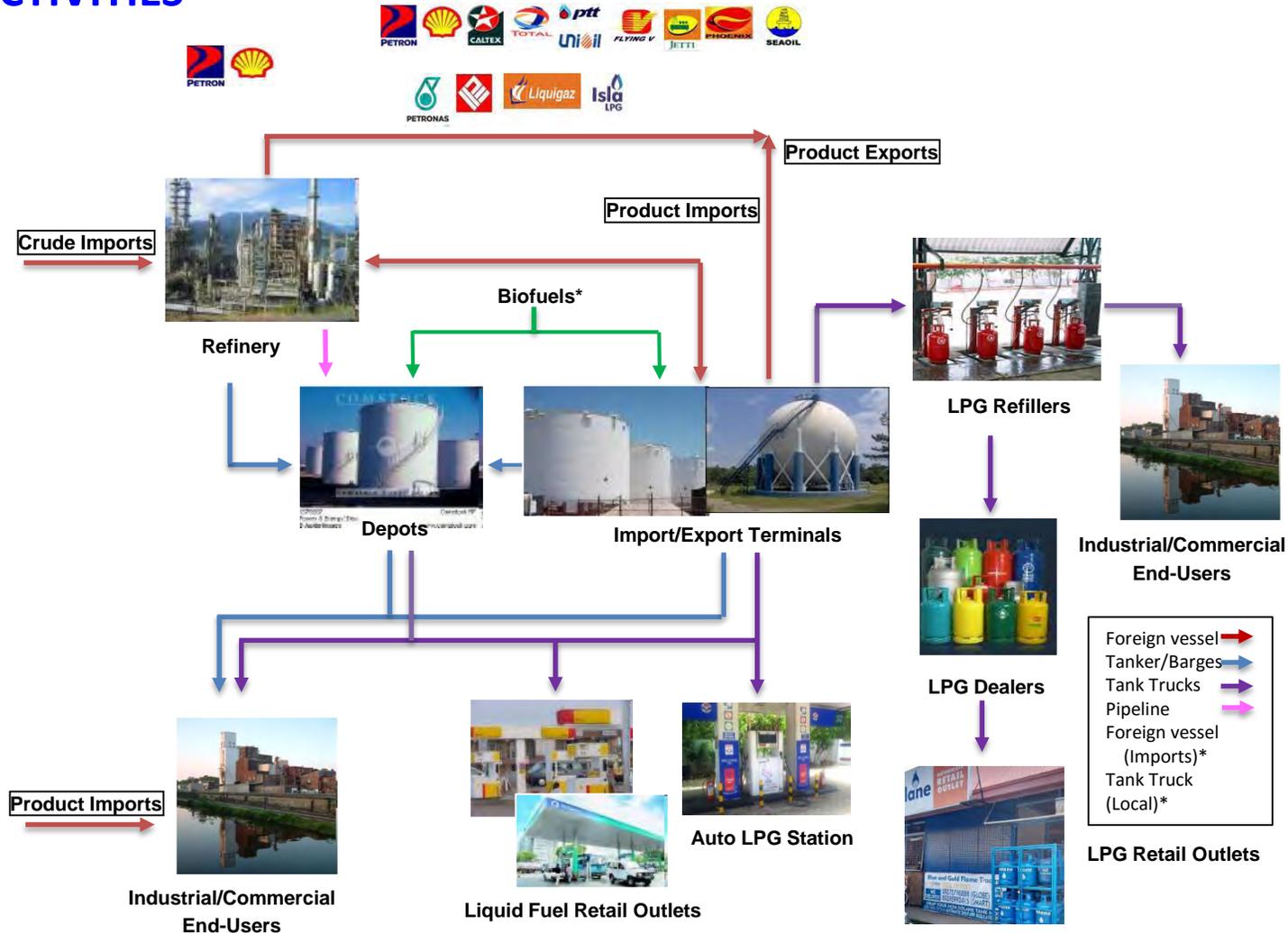
**RA 9367** - Biofuels Act  
of 2006

- establish technical fuel quality standards for biofuels and biofuel-blended gasoline and diesel which comply with the PNS (Sec. 7c)



# Downstream Oil Industry Background

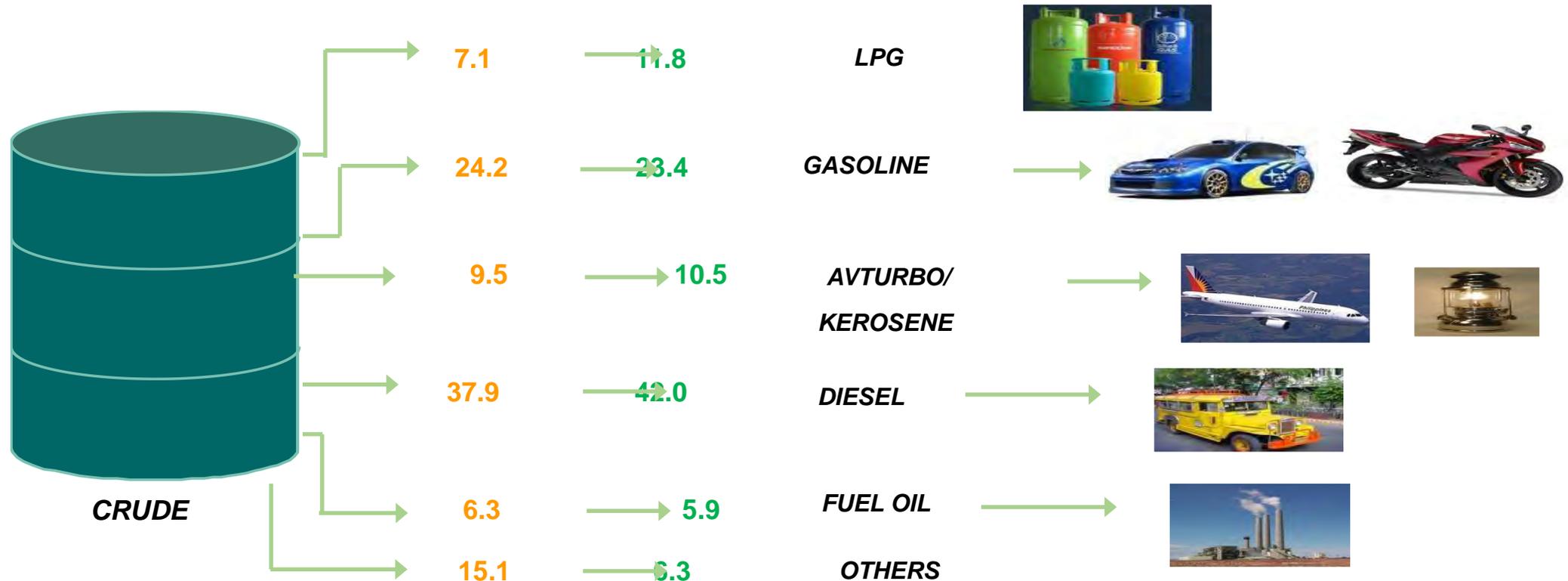
## DOWNSTREAM OIL ACTIVITIES



# Downstream Oil Industry Background

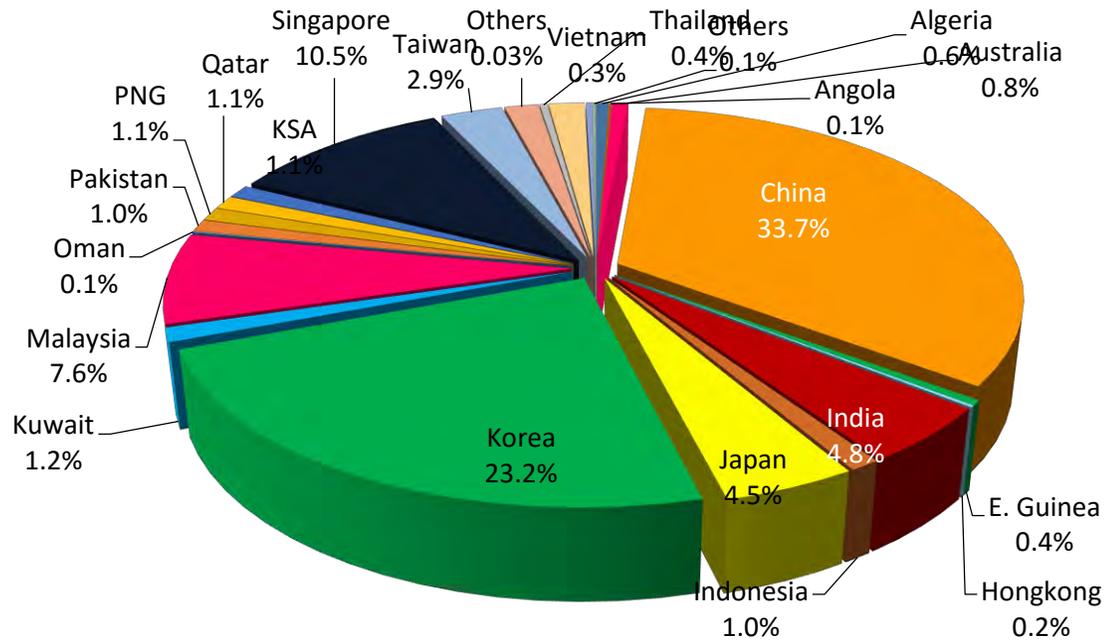
## 1H 2018 PRODUCTION/DEMAND MIX

Production (228.6 MBCD) / Demand (461.99 MBCD) %Mix

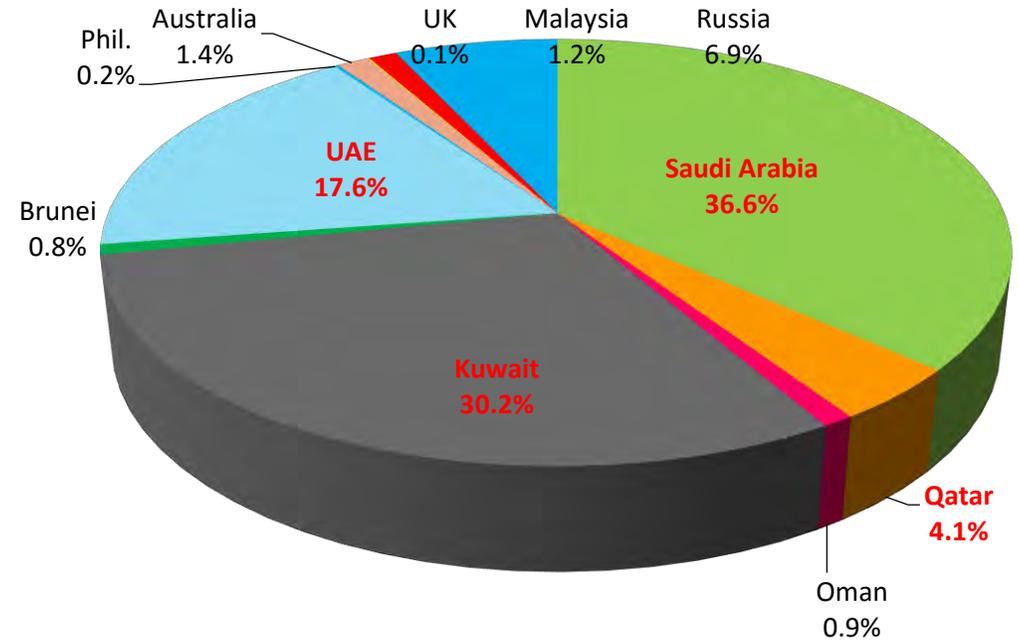


# Function 1: Industry Competition & Monitoring (Liquid and LPG)

## 2017 SOURCES OF OIL IMPORTS



**PRODUCT IMPORTS**  
97,530 MB



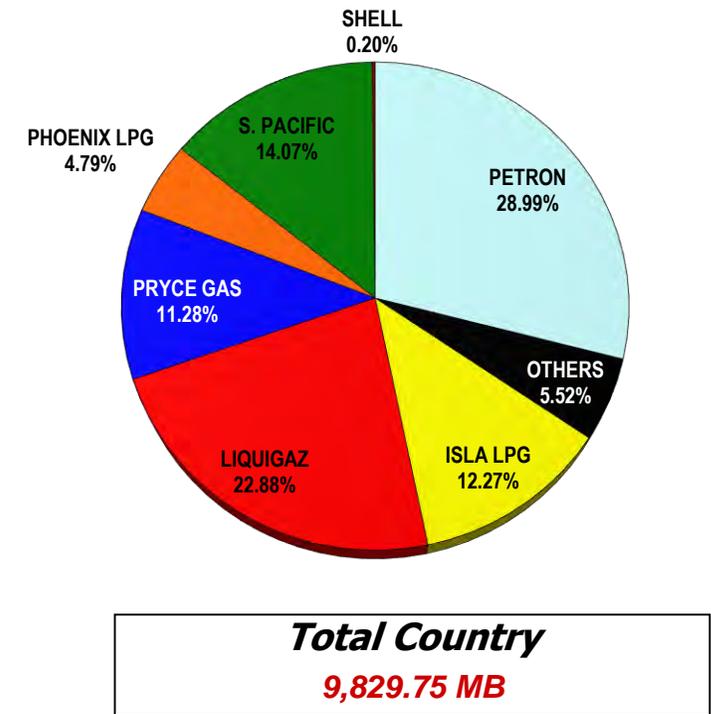
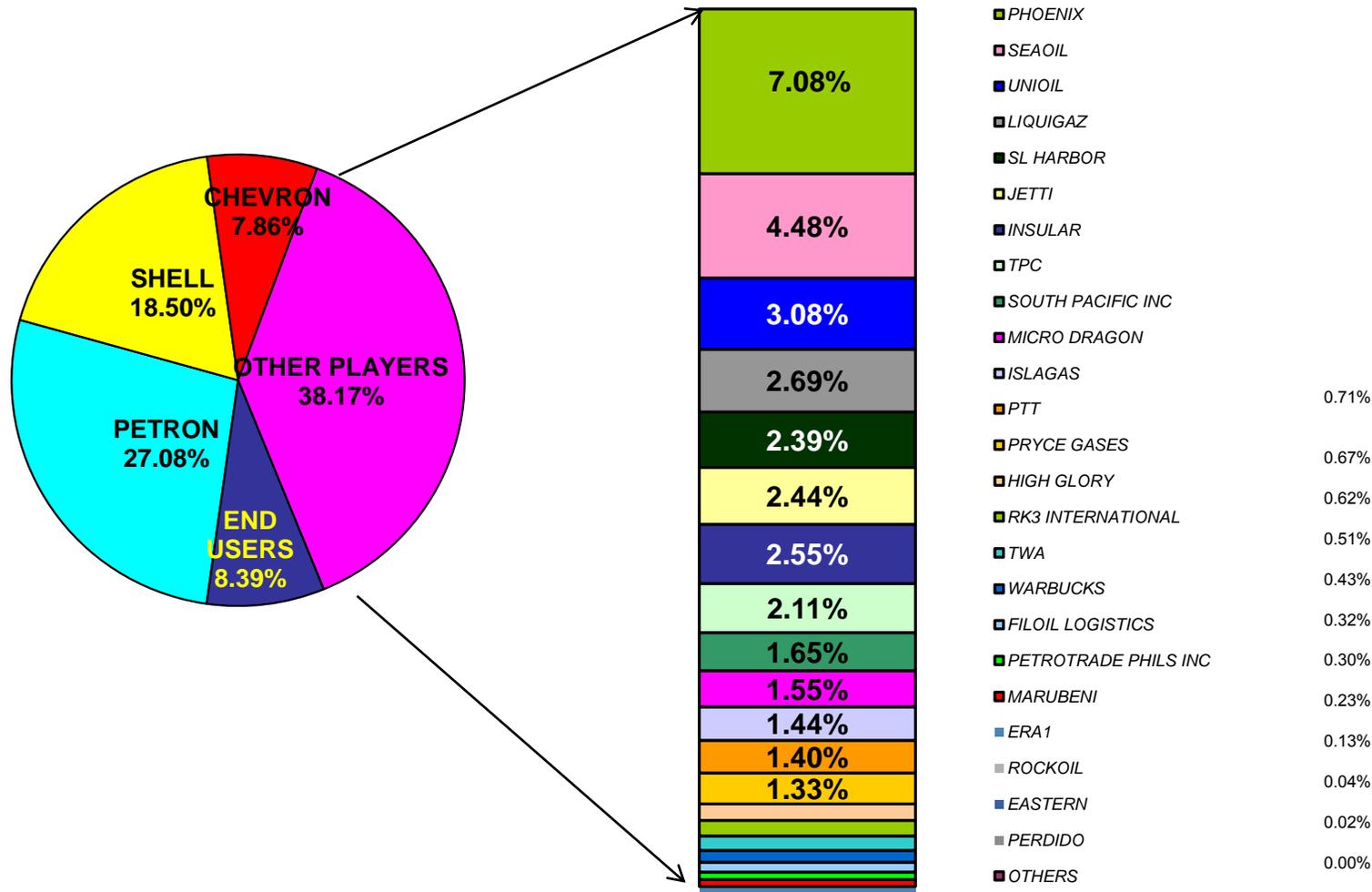
**CRUDE IMPORTS**  
73,943 MB

**OPEC – 88.5 %**  
Non-OPEC – 11.5%

•Philippines - shipments from Subic/Clark freeports, sourced from various countries, e.g., Thailand, Singapore, etc.

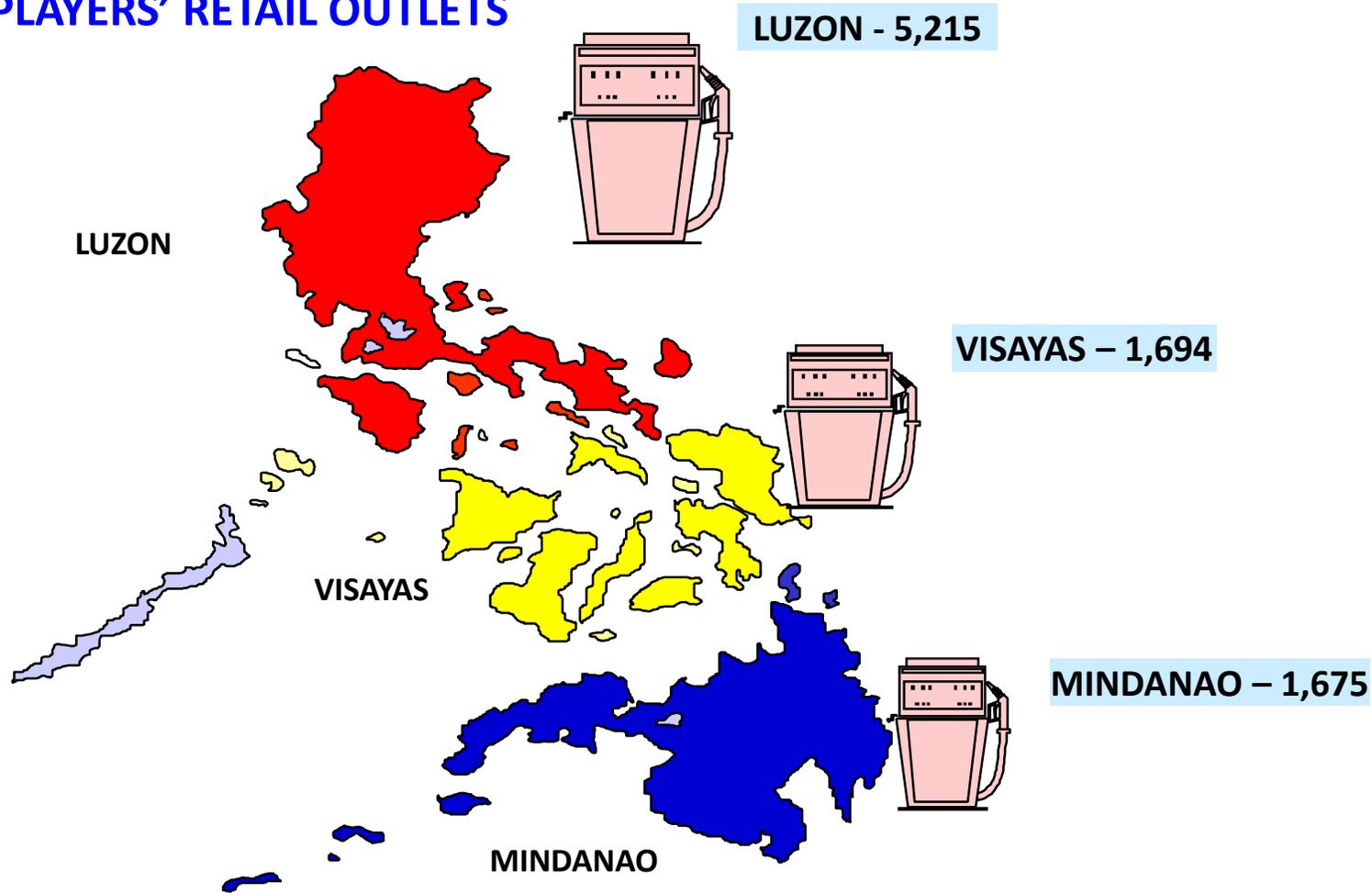
# Downstream Oil Industry Background

## 1H 2018 TOTAL PRODUCTS / LPG MARKET MARKET SHARE



# Downstream Oil Industry Background

## NEW PLAYERS' RETAIL OUTLETS



Flying V	330
Total Phils.	202
Seoil	270
Eastern	34
Jetti	69
Galaxi	20
Filoil	115
USA88	12
PTT	70
Unioil	38
Phoenix	343
Rephil	12
Independent	1,506
<b>TOTAL</b>	<b>3,036</b>

\*as of December 2016

Total (1996) = 3,060

Total (2002) = 3,746

Total (2008) = 3,737

Total (2012) = 4,997

Total (2015) = 6,264

Total (Q2 2018) = 8,584

Total (1999) = 3,297

Total (2005) = 3,369

Total (2011) = 4,114

Total (2013) = 6,088

Total (2016) = 6,834



# Downstream Oil Industry Background

## TAXATION: THE TRAIN Law

### IMPACT OF EXCISE TAX ON PETROLEUM PRODUCTS PRICES (PER R.A. 10963)

Product	Pre-TRAIN Law			1ST TRANCHE - JAN 2018				
	Excise Tax	12% VAT	Total	Excise Tax	12% VAT	Total	2018 Total	
							Excise Tax	With 12% VAT
Peso/liter								
Gasoline	4.35	0.52	4.87	2.65	0.32	2.97	7.00	7.84
Avturbo	3.67	0.44	4.11	0.33	0.04	0.37	4.00	4.48
Kerosene	0.00	0.00	0.00	3.00	0.36	3.36	3.00	3.36
Diesel	0.00	0.00	0.00	2.50	0.30	2.80	2.50	2.80
Fuel oil	0.00	0.00	0.00	2.50	0.30	2.80	2.50	2.80
LPG (motive fuel)	0.00	0.00	0.00	2.50	0.30	2.80	2.50	2.80
LPG, P/kg	0.00	0.00	0.00	1.00	0.12	1.12	1.00	1.12

Product	2ND TRANCHE - JAN 2019					3RD TRANCHE - JAN 2020				
	Excise Tax	12% VAT	Total	2019 Total		Excise Tax	12% VAT	Total	2020 Total	
				Excise Tax	With 12% VAT				Excise Tax	With 12% VAT
Peso/liter										
Gasoline	2.00	0.24	2.24	9.00	10.08	1.00	0.12	1.12	10.00	11.20
Avturbo	0.00	0.00	0.00	4.00	4.48	0.00	0.00	0.00	4.00	4.48
Kerosene	1.00	0.12	1.12	4.00	4.48	1.00	0.12	1.12	5.00	5.60
Diesel	2.00	0.24	2.24	4.50	5.04	1.50	0.18	1.68	6.00	6.72
Fuel oil	2.00	0.24	2.24	4.50	5.04	1.50	0.18	1.68	6.00	6.72
LPG (motive fuel)	2.00	0.24	2.24	4.50	5.04	1.50	0.18	1.68	6.00	6.72
LPG, P/kg	1.00	0.12	1.12	2.00	2.24	1.00	0.12	1.12	3.00	3.36



# Function 1: INDUSTRY COMPETITION & MONITORING (Liquid and LPG)

## PLAYERS & INVESTMENTS

Areas for Investments

### Oil Refinery

- Capacity Expansion
- Upgrading/Modernization

### Infrastructure Improvement

- Transport
- Retailing
- Refilling/Marketing
- Terminalling
- Bunkering

Number of Players with Investments  
(2017)

ACTIVITY	NUMBER OF PLAYERS		INVESTMENTS (Bn PhP)	
	FY 2010	FY 2017	FY 2010	FY 2017
Liquid Fuel Bulk Marketing	126	229	14.13	19.08
Fuel Retail Marketing	14	12	9.26	14.31
LPG Bulk Marketing	12	11	7.38	16.57
Bunkering	20	19	2.61	2.61
Terminalling	9	13	4.67	8.82
Refining *	2	2	6.7	118.3
<b>Grand Total</b>	<b>181</b>	<b>284</b>	<b>82.80</b>	<b>241.08</b>



# Function 1: INDUSTRY COMPETITION & MONITORING (Liquid and LPG)

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## INCENTIVES

**Income tax holiday**

**Exemption from taxes and  
duties on imported spare  
parts**

**No local taxes on the sale of  
petroleum products**



# Function 1: INDUSTRY COMPETITION & MONITORING (Liquid and LPG)

## OIL PRICE MONITORING

### International Content

Product Cost (i.e. FOB  
MOPS, \$/bbl)

Freight Plus

Ocean Loss

Exchange Rate

### Local Content

Taxes (i.e. Excise Tax,  
VAT)

Biofuel (i.e. Ethanol,  
CME)

Industry Take



# Function 1: Industry Competition & Monitoring (Liquid and LPG)

## HISTORICAL PRICES – WHAT COULD HAVE CAUSED THE MOVEMENT?

GASOLINE		Iloilo			
DETAILS	July 2018	January 2016	Adjustment in US\$	Adjustment in PHP	% Share of Adj.
FOB MOPS, \$/bbl	81.12	47.10	34.02	1617.49	78.04%
FREIGHT PLUS, \$/bbl	2.82	2.17	0.65	31.09	1.50%
OCEAN LOSS (0.5% of CIF)	0.42	0.25	0.17	8.24	0.40%
Total Import Cost	84.36	49.51	34.85	1656.82	79.94%
EXCHANGE RATE	53.42	47.54	5.88	415.80	20.06%
<b>Peso Landed Cost. P/bbl</b>	<b>4,506.83</b>	<b>2,353.76</b>		<b>2,072.62</b>	<b>100.00%</b>
Peso Landed Cost. P/liter	25.51	13.32		12.19	77.68%
EXCISE TAX	7.00	4.35		2.65	16.89%
VAT	5.38	3.58		1.80	11.48%
ETHANOL	3.88	4.82		(0.95)	-6.04%
Total Cost before Industry Take	<b>41.76</b>	<b>26.07</b>		15.69	100.00%
<b>Industry Take</b>	<b>10.81</b>	<b>12.88</b>		<b>(2.07)</b>	<b>-13.19%</b>
<b>PUMP PRICE</b>	<b>52.57</b>	<b>38.95</b>		<b>13.62</b>	<b>86.81%</b>



# Function 1: Industry Competition & Monitoring (Liquid and LPG)

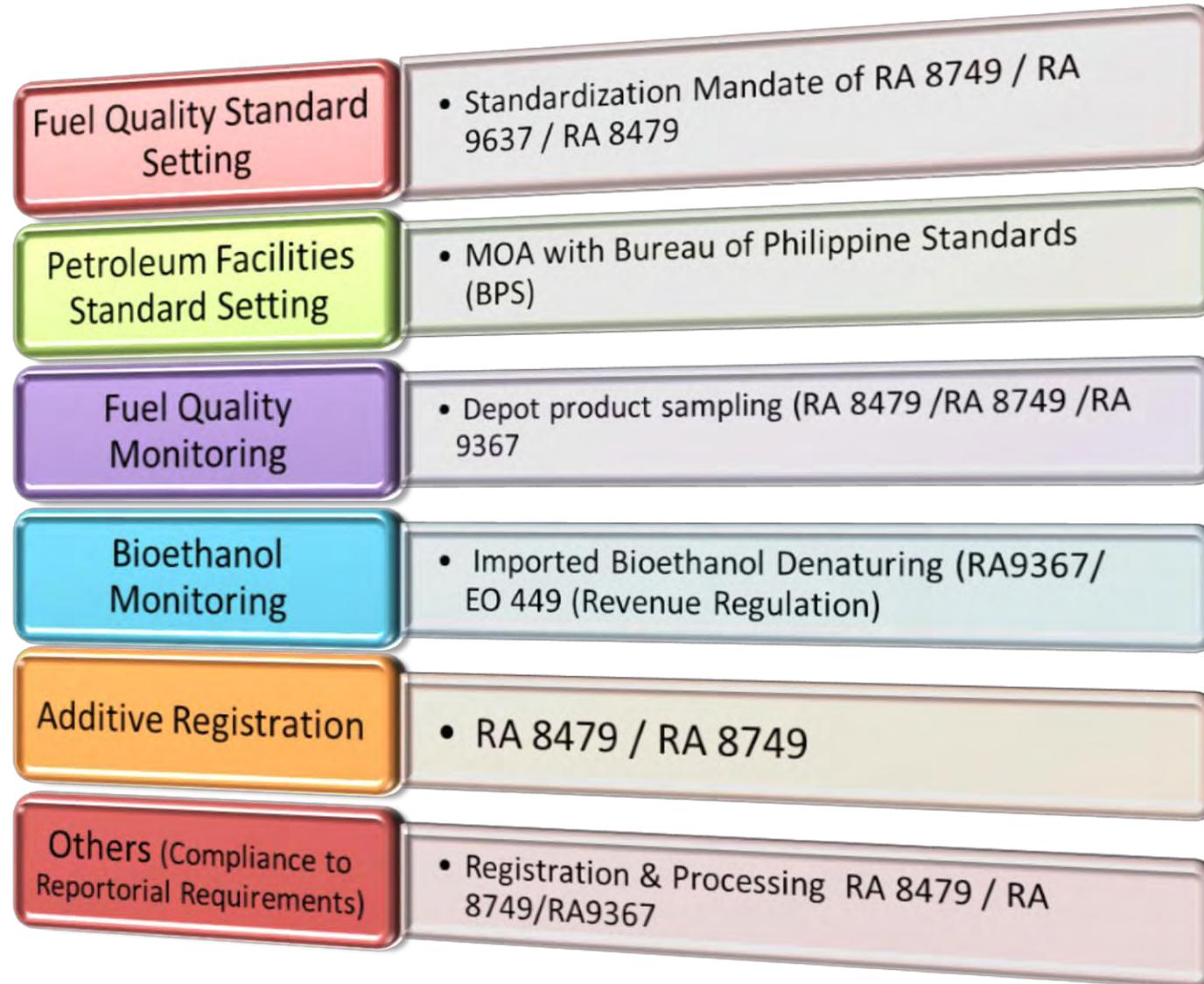
## HISTORICAL PRICES – WHAT COULD HAVE CAUSED THE MOVEMENT?

DIESEL		Iloilo			
DETAILS	July 2018	January 2016	Adjustment in US\$	Adjustment in PHP	% Share of Adj.
FOB MOPS, \$/bbl	86.41	37.47	48.95	2326.94	82.21%
FREIGHT PLUS	1.47	2.05	(0.58)	(27.41)	-0.97%
OCEAN LOSS (0.5% of CIF)	0.44	0.20	0.24	11.50	0.41%
Total Import Cost	88.33	39.71	48.61	2311.03	81.64%
EXCHANGE RATE	53.42	47.54	5.88	519.58	18.36%
<b>Peso Landed Cost. P/bbl</b>	<b>4,718.63</b>	<b>1,888.02</b>		<b>2,830.61</b>	<b>100.00%</b>
Peso Landed Cost. P/liter	29.08	11.64		17.45	77.65%
EXCISE TAX	2.50	0.00		2.50	11.13%
VAT	4.51	2.26		2.25	10.03%
CME	1.30	1.03		0.27	1.19%
Total Cost before Industry Take	<b>37.39</b>	<b>14.93</b>		<b>22.47</b>	<b>100.00%</b>
<b>Industry Take</b>	<b>4.70</b>	<b>6.12</b>		<b>(1.43)</b>	<b>-6.35%</b>
<b>PUMP PRICE</b>	<b>42.09</b>	<b>21.05</b>		<b>21.04</b>	<b>93.65%</b>



# Function 2: INDUSTRY STANDARDS AND MONITORING

## FUEL QUALITY STANDARDS: WHAT WE DO?



# Function 2: INDUSTRY STANDARDS AND MONITORING

## STANDARD SETTING PROCEDURE



# Function 2: INDUSTRY STANDARDS AND MONITORING

## TECHNICAL COMMITTEES

### I. Technical Committee on Petroleum Products & Additives (TCPPA)

Chair : DOE and DENR

Members :

#### Government:

DOE  
DENR  
BPS-DTI  
ITDI-DOST

#### Oil Industry Sector:

Petron  
Shell  
Chevron  
PIP  
IPPCA

#### Engine Suppliers/Manufacturers:

CAMPI, AMMDA, MDPPA

#### Consumer Sector/NGO:

FilCar Foundation, AWMA

#### Academe:

UP-NCTS, AIPSI



# Function 2: INDUSTRY STANDARDS AND MONITORING

## EXISTING PRODUCT STANDARDS

E-Gasoline (E10)

Anhydrous Bioethanol  
& Bioethanol Fuel

CME-blended Diesel Oil  
(B2)

Coco Methyl Ester

LPG (automotive and  
non-automotive)

Fuel oil (bunker)



# Function 2: INDUSTRY STANDARDS AND MONITORING

## II. Technical Committee on Petroleum Facilities and Processes (TCPFF)

Chair : DOE

Members :

### Government:

DTI-BPS  
DENR-EMB  
DILG-BFP  
DOLE (BWC,  
OSHC)

### Industry:

Petron  
Shell  
Chevron  
Total  
IPPCA

### Testing:

DOST-MIRDC, UP

### Prof. Assoc.:

SOPi



# Function 2: INDUSTRY STANDARDS AND MONITORING

## EXISTING FACILITY & PROCESSES STANDARDS

LPG Refilling Plant – General Requirements

Code of Safety Practices in LPG Refilling Plant

Code of Safety - Hauler

Retail Outlets – General Requirements (household LPG, auto-LPG dispensing station)

Code of Safety Practices for LPP in Retail Outlet

Code of Safety Practice in Auto-LPG Dispensing Station

LPP Depot – General Requirements

Retail Outlets – General Requirements (Liquid Fuel)

Code of Safety Practice for LPP in Retail Outlets



# Function 3: RETAIL MARKET MONITORING

## REGULATORY FRAMEWORK

### Liquid Fuels

- **BP 33/ PD 1865** – Prohibited Acts involving Petroleum Products
- **DOE DC2017-11-0011** - Revised Retail Rules
- **DOE DC2015-06-0006** - Guidelines in Inspection Using Mobile Monitoring and Testing Laboratory

### LPG

- **BP 33/ PD 1865** – Prohibited Acts involving Petroleum Products
- **DOE MC 2000-06-010** – Revised Schedules of Fines/Penalties
- **DOE MC 2000-05-007** – Quality Requirements for Cylinders
- **DC2014-01-0001** – Rules and Regulations Governing the LPG Industry
- **DC2013-09-0022** - Transport and Distribution of LPG in Cylinders
- **DC2018-03-0004** – Additional Mandatory Markings for Small-Sized 2.7 KG LPG Cylinder and below



# Function 3: RETAIL MARKET MONITORING

## TOTAL NUMBER OF GASOLINE STATIONS BY ISLAND GROUP AND PER OIL COMPANY (2017)

REGION	MAJORS	NEW PLAYERS		REGIONAL TOTAL
		w/bulk supply/facilities	Independent*	
National Capital Region (NCR)	612	285	247	1144
Cordillera Administrative Region (CAR)	27	9	12	48
Region I (Ilocos Region)	122	70	237	429
Region II (Cagayan Valley)	107	57	141	305
Region III (Central Luzon)	295	233	352	880
Region IV (Southern Tagalog)	778	454	638	1870
Region V (Bicol Region)	188	38	313	539
<b>Total NCR</b>	<b>612</b>	<b>285</b>	<b>247</b>	<b>1144</b>
<b>Total - Rest of Luzon</b>	<b>1517</b>	<b>861</b>	<b>1693</b>	<b>4071</b>
<b>Over-all Total Luzon</b>	<b>2129</b>	<b>1146</b>	<b>1940</b>	<b>5215</b>
Region VI (Western Visayas)	337	223	209	769
Region VII (Central Visayas)	346	155	144	645
Region VIII (Eastern Visayas)	137	45	98	280
<b>Over-all Total Visayas</b>	<b>820</b>	<b>423</b>	<b>451</b>	<b>1694</b>
Region IX (Zamboanga Peninsula)	86	9	43	138
Region X (Northern Mindanao)	201	17	184	402
Region XI (Davao Region)	218	108	356	682
Region XII (SOCCSKSARGEN)	129	12	149	290
Region XIII (CARAGA)	70	5	79	154
Autonomous Region of Muslim Mindanao (ARMM)	0	5	4	9
<b>Over-all Total Mindanao</b>	<b>704</b>	<b>156</b>	<b>815</b>	<b>1675</b>
<b>OVER-ALL TOTAL</b>	<b>3653</b>	<b>1725</b>	<b>3206</b>	<b>8584</b>

\* Outlets with 1 to 5 branches  
 Figures subject for further validation

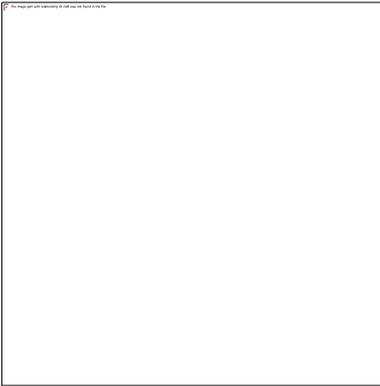
# Function 3: RETAIL MARKET MONITORING

## TOTAL NUMBER OF LPG PLAYERS BY ACTIVITY



# Function 3: RETAIL MARKET MONITORING

## MONITORING MECHANISM



## Regular Inspection

- all the provinces in the regions under RMMSCD's jurisdiction are visited and inspected yearly; divided and scheduled into 4 quarters per year. In selecting the areas to be inspected, priority is given to those with higher percent of violations from previous year of inspection.

## Complaint-related inspection

- Complaints from different individuals and entities are also given priority besides the scheduled regular inspections. Some inspections, particularly for LPG are conducted with the representatives from LPGMA and CIDG.



# Function 3: RETAIL MARKET MONITORING

## MONITORING MECHANISM



## Focused Inspection

- a massive, more focused and simultaneous monitoring and inspections of various LPG and LF establishments by composite teams composed of representatives from DOE, DTI, LGU, BFP and PNP. It is conducted once a year in selected provinces in Luzon, Visayas and Mindanao by the OIMB, VFO and MFO, respectively

## Special Instructions

- inspections directed by the management; usually with regards to issues on product quality and price monitoring.



# Support Program

## Gasoline Station Lending & Financial Assistance Program

Particulars	DC 2011-03-0005	DC 2002-05-001
Coverage	Includes improvement loan, working loan capital, and refinancing. Also, eligible is the establishment/ construction and improvement/maintenance of Auto LPG dispensing stations	Confined to gasoline stations only
Loanable Amount	100% of loan amount, not to exceed Php 10M	Php 5M to 10M
Loan Term	10 years @ 6% p.a.	7 years @ 6% p.a.
Equity Participation	Minimum of 20% of Total Project Cost, including land and improvements	50%



# Function 4: NATURAL GAS MANAGEMENT

## MALAMPAYA GAS AS THE ONLY SOURCE OF NATURAL GAS SUPPLY

- ▶ **Malampaya has existing six gas sales and purchase agreements for a total of 3, 200 MW**
  - 500 MW San Lorenzo PP (First Gen)
  - 414 MW San Gabriel ( First Gen)
  - 1000 MW Sta Rita PP ( First Gen)
  - 97 MW Avion ( First Gen)
  - 1200 MW Ilijan PP ( KEPCO)
  - 18 MW Shell Pilipinas Oil Refinery
- ▶ **Malampaya has an average production of 450 million standard cubic feet (mmscf) per day**
- ▶ **The Malampaya concession expires in 2024 and Drop in supply is expected to start by 2022, supply can go as far as 2027 but it does not have enough gas for further expansion to provide the future natural gas requirements particularly on the plan to expand the application of natural gas in industrial, commercial, residential and transport sectors.**

**Thus:**

- ▶ **In the short term, Philippines has no sufficient supply from Malampaya or other potential developments to justify new infrastructure development.**
- ▶ **New gas might come from domestic resources, but the volumes and timing are unpredictable.**
- ▶ **The logical source of new gas would be the imported liquefied natural gas (LNG) to ensure supply security and sustainability of natural gas**
- ▶ **Much cheaper than oil, competitive with coal in the mid-cycle, and once import facilities are built, industrial, commercial, transportation and residential users can also gain access to gas**

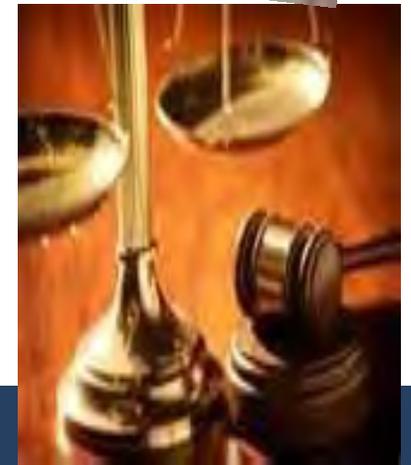


# Function 4: NATURAL GAS MANAGEMENT

## REGULATORY FRAMEWORK

### Rules and Regulations Governing the Philippine Natural Gas (DC 2017-11-0012)

- Provided the general policies and principles of the Government towards the development of the downstream natural gas industry where there is no price regulation however regulation remains on setting of standards and their enforcement on areas of product quality, facility and processes.
- Provided the guidelines on the acceptance and evaluation of project proposals, issuance of permit, requirement for construction standards and management team, inspection and monitoring of operation and maintenance.
- Provided the provision for third party access to enhance liquidity of trade and use.



# Thank You !



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