

NON DEAL ROADSHOW OCTOBER 2012

Hong Kong
8th - 9th October 2012

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INTRODUCTION TO TENAGA

2

INTRODUCTION TO MESI TRANSFORMATION

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BUSINESS STRATEGY & DIRECTION

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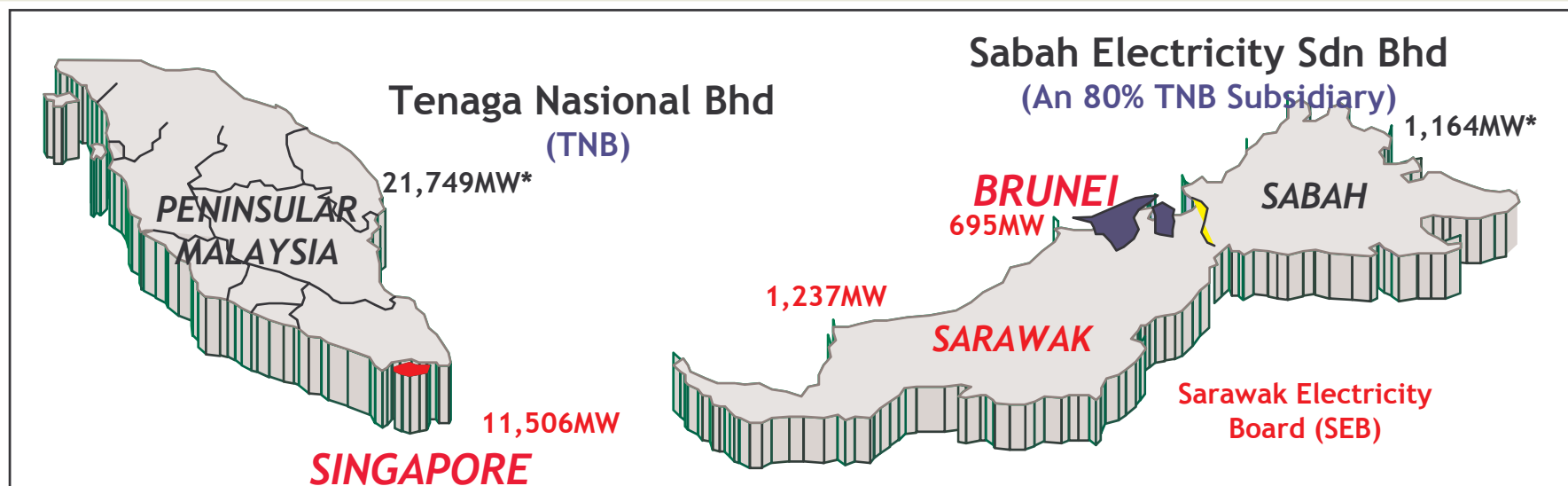
3QFY2012 RESULTS

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OUTLOOK - KEY TAKEAWAYS

INTRODUCTION

Three Major Utilities in Malaysia



	<u>FY'92</u>	<u>FY'99</u>	<u>FY'06</u>	<u>FY'07</u>	<u>FY'08</u>	<u>FY'09</u>	<u>FY'10</u>	<u>FY'11</u>
Group Installed Capacity (MW)	5,652	7,520	11,464	11,515	11,515	11,530	11,530	11,530
Total units sold (Gwh)	22,631	49,322	82,215	86,545	90,650	87,780	95,196.6	97,1887.8
Total customers (million)	3.32	5.09	6.81	7.07	7.33	7.59	7.87	8.11
Total employees	22,752	24,786	28,067	28,822	29,210	29,149	30,535	31,935
Total assets (RM bn)	19.72	48.61	65.09	67.72	69.84	71.36	75.88	79.00



* Includes IPPs

INTRODUCTION

Vertically Integrated Utility

Core Business
- Peninsula

52.8%



Generation

100%



Transmission

100%



Distribution

As at May 2012:

Assets	RM 87.2 bn	(USD27.5bn)
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Revenue	RM 26.5 bn	(USD8.3 bn)
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Total Installed Capacity	21,749 MW
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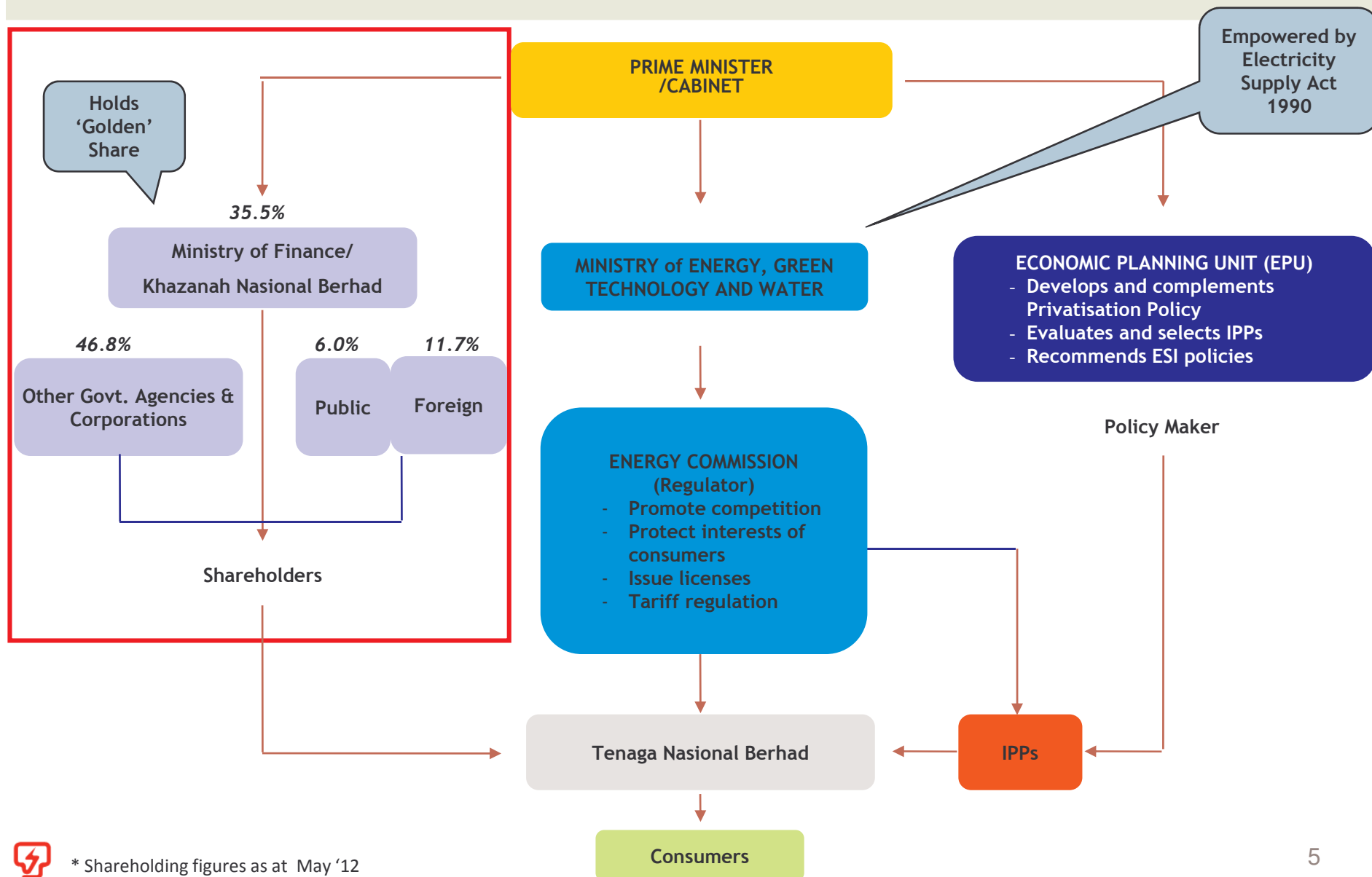
Market Capitalisation (7 th)	RM 36.7 bn	(USD11.6 bn)
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* Exchange rate of USD1 = RM3.175

INTRODUCTION

Industry Regulatory Framework



* Shareholding figures as at May '12

INTRODUCTION

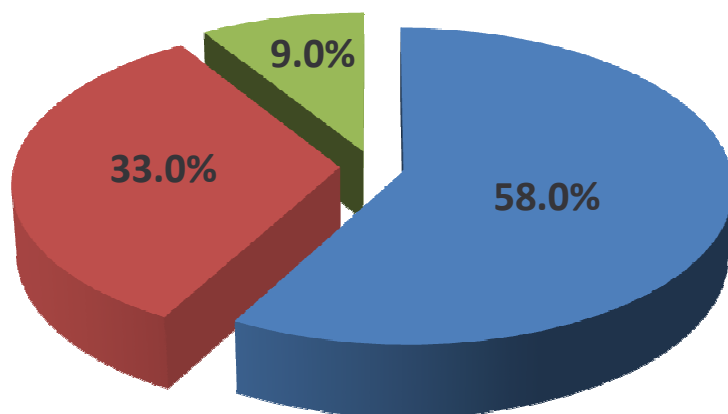
Installed Capacity vs Generation Mix

Total Installed Capacity

Installed Capacity Market Share:

TNB : 52.7%

IPP : 47.3%



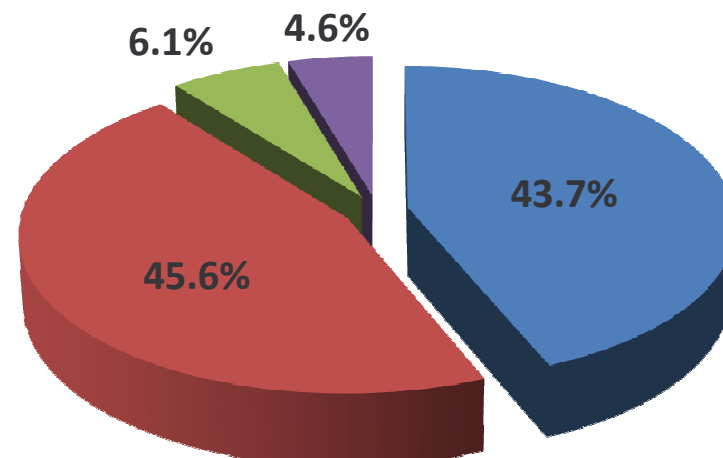
■ Gas ■ Coal ■ Hydro & Others

Generation Mix as at May 2012

Generation Market Share :

TNB : 48.6%

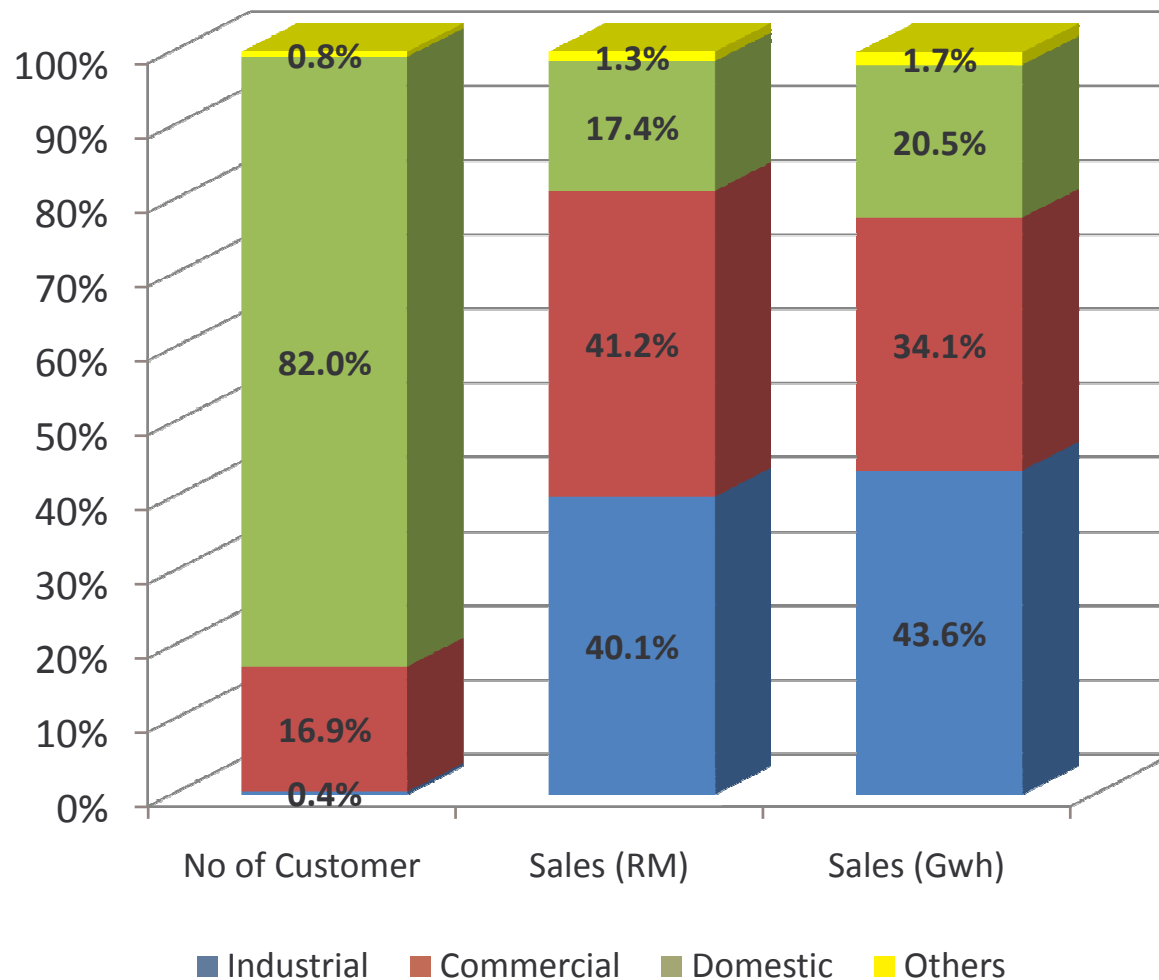
IPP : 51.4%



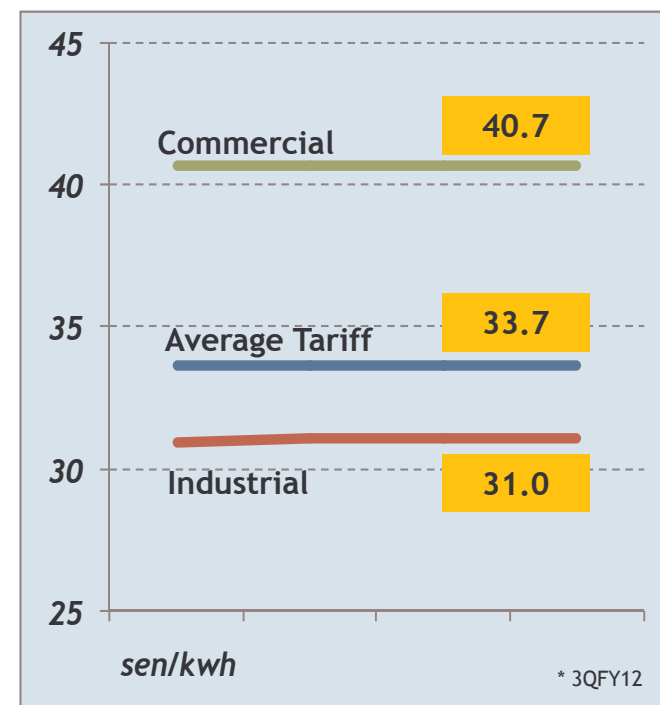
■ Gas ■ Coal ■ Hydro ■ Oil & Distillate

INTRODUCTION

No of Customer vs Sales Value vs Unit Sales



Average Tariff by Sector



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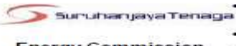


OUTLOOK - KEY TAKEAWAYS

MESI TRANSFORMATION PLAN

Background:

KeTTHA Has Embarked on A Power Sector Transformation Programme

- My POWER is a special purpose agency created to detail out the key reform initiatives of the **Malaysian Electricity Supply Industry (MESI)** that are aligned with the Government and Economic Transformation Programmes (ETP)
- MESI Transformation Agenda** seeks to address the industry issues and long term needs with regards to reliability, transparency, efficiency, and sustainability in the electricity supply industry in Peninsular Malaysia
- Fragmented Governance for MESI:

Influencer Decision making		New investments Generation	New investment T&D	Tariff setting	Fuel policy	Liberalization	Tax and incentives
	<ul style="list-style-type: none"> Incumbent utility Single buyer of IPP generation Full control over system dispatch Access to end users 	✓ <i>Capacity required</i>	✓	✓		✓	
	<ul style="list-style-type: none"> Formulates energy policy Approves and develops recommendation on capacity expansion for cabinet approval Formulates privatization policy 	✓ <i>PPA awards</i>			✓ <i>Gas subsidies</i>	✓	
	<ul style="list-style-type: none"> Approves end user tariff Coordinates implementation of energy policy Minister KeTTHA chairs JPPPET 	✓	✓	✓	✓ <i>Policies</i>	✓	
	<ul style="list-style-type: none"> Implement and enforce electricity supply law (e.g., Grid code) Advisor to KeTTHA Monitors TNB's performance 	✓	✓	✓	✓	✓	
	<ul style="list-style-type: none"> Windfall taxes for IPPs Bakun project 	✓					✓
	<ul style="list-style-type: none"> Chaired by KeTTHA Minister, includes EPU, MoF, MITI, MIDA, ST, MTDC, TNB, SESB, PETRONAS Discusses tariff review, plant-up programme and service standards 	✓		✓			✓ <i>PETRONAS on gas supply</i>



*Source: MyPower

MESI TRANSFORMATION PLAN

MyPOWER programmes - manages the ESI Transformation Initiatives

Jun - Dec 2008
Khazanah's MESI Study

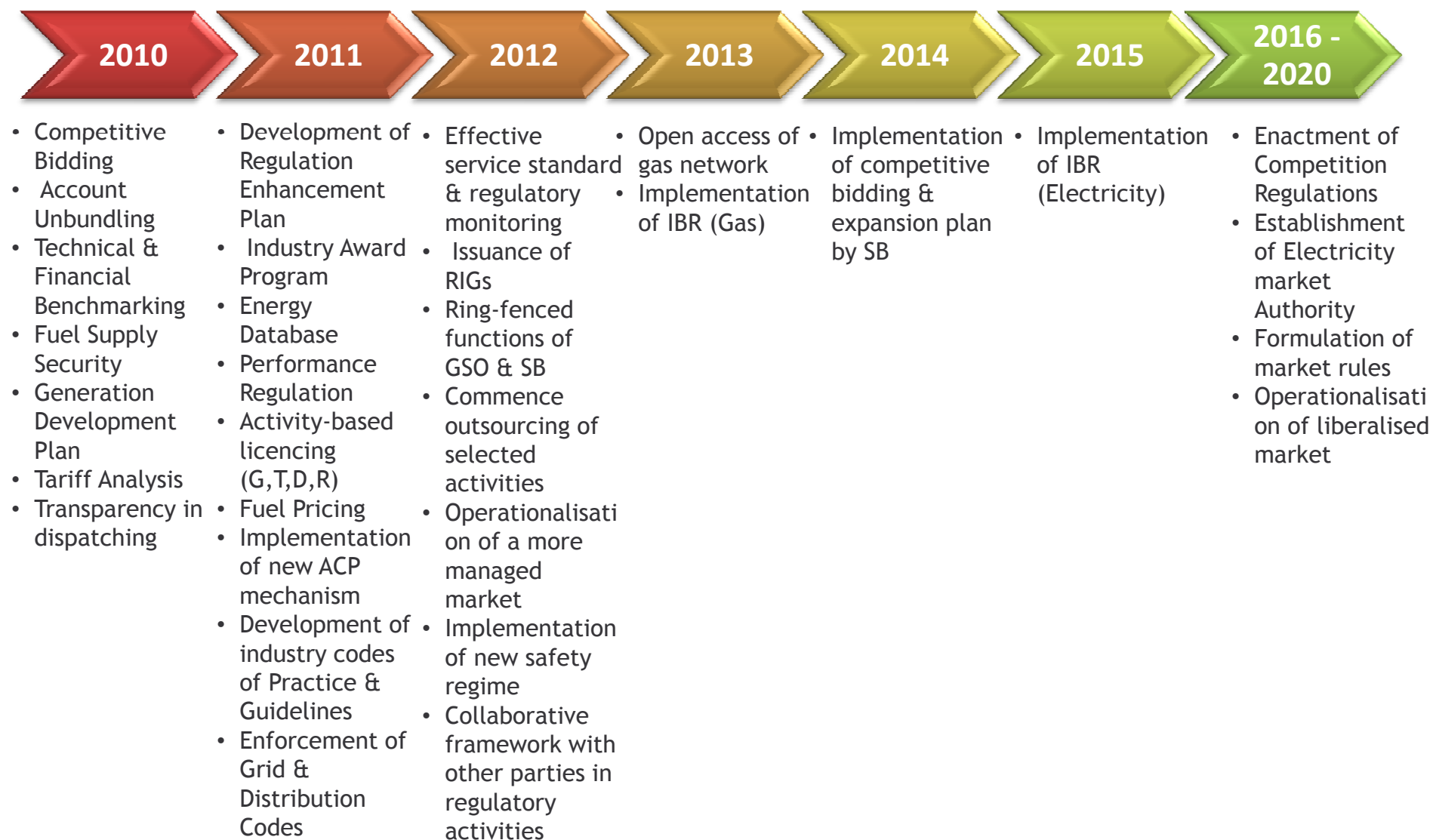
Jan - Dec 2009
KeTTHA-led syndication

4 Dec 2009
Cabinet endorsement to
transform ESI



Aimed at delivering a reliable, transparent, efficient and sustainable ESI

MESI TRANSFORMATION PLAN: EC Transformation Plan



*Source: EC

MESI TRANSFORMATION PLAN: Recent Government Initiatives

Initiatives by Government to Enhance MESI Development

New Generation
Capacity
Competitive
Bidding

1st Gen IPP /
Restricted Bidding

Subsidy
Rationalisation
Programme

FCPT
Mechanism

LNG Importation

Nuclear Energy
Capacity Building

National RE Policy
& Action Plan

FIT & RE Fund

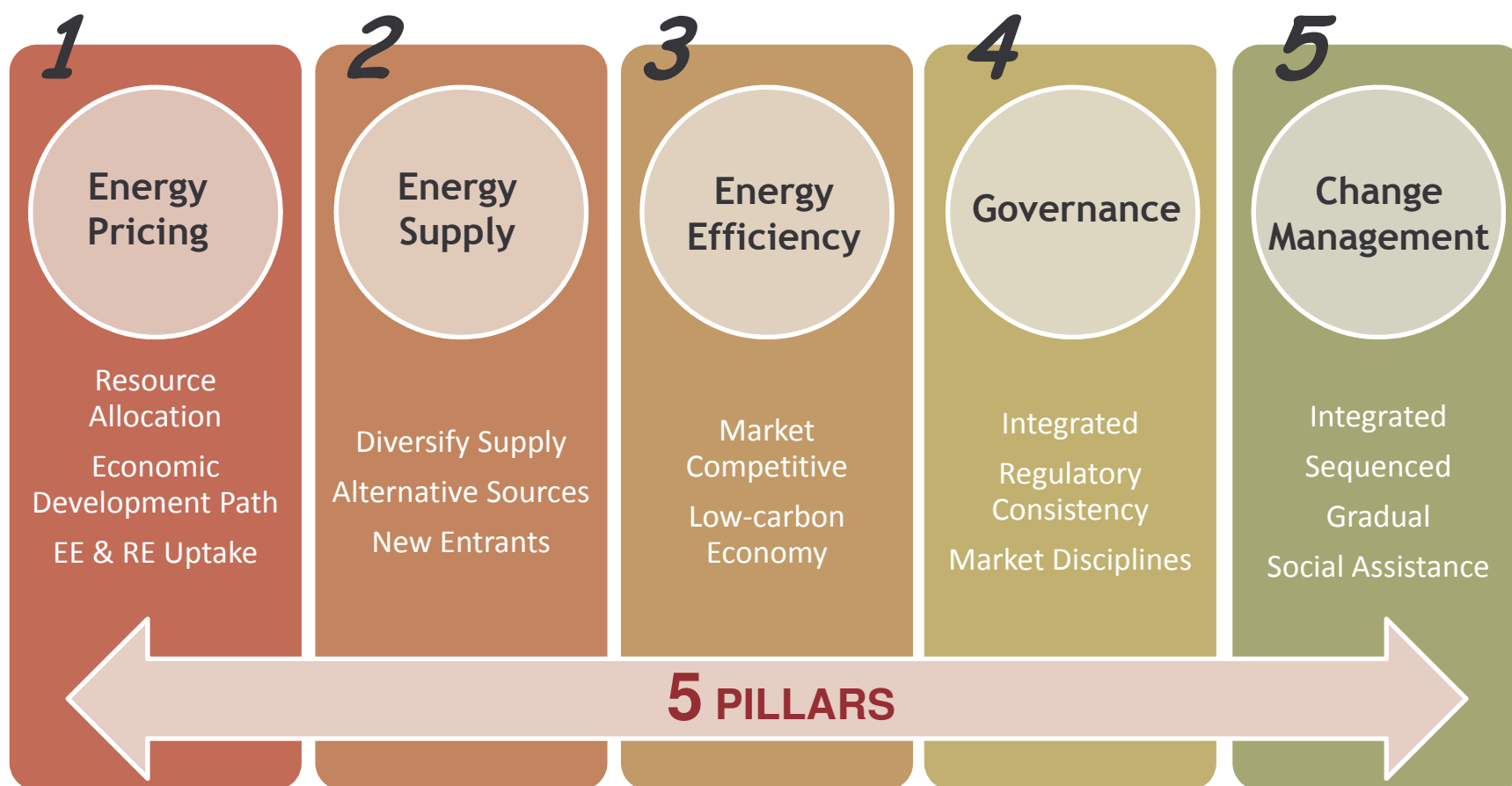
Legal & Regulatory
Framework
Enhancement



*Source: EC

MESI TRANSFORMATION PLAN: New Energy Policy

The New Energy Policy Addresses Economic Efficiency, Security of Supply and Social and Environmental Objectives

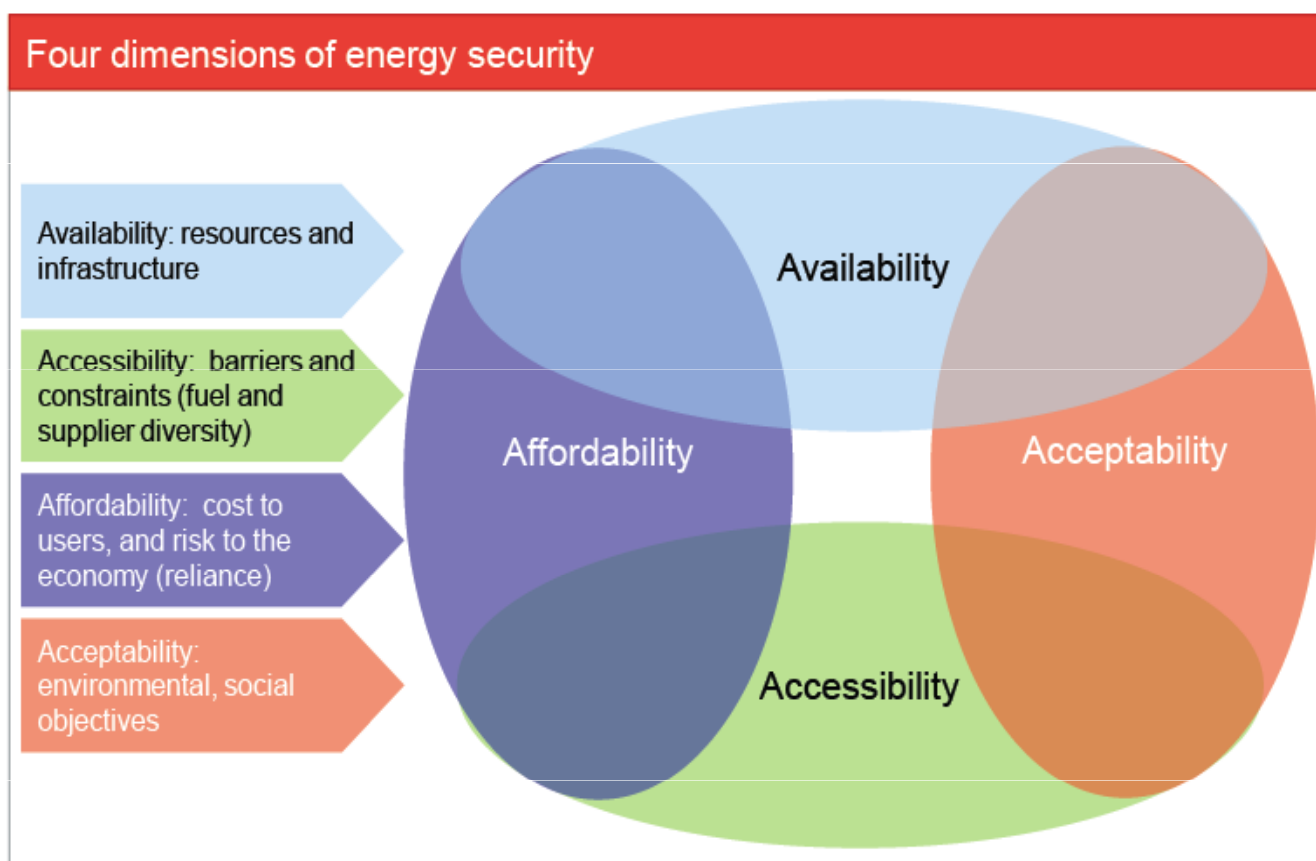


*Source: EC

MESI TRANSFORMATION PLAN: Four Dimensions of Energy Security

Fuel Mix and Fuel Supply Security Must Be Managed to Ensure A
Reliable Electricity Supply

To ensure an **efficient, secure and environmentally sustainable** supply of energy
– source *Malaysia National Energy Policy 1979*



*Source: MyPower / Frontier Economics

MESI TRANSFORMATION PLAN: Expectation of Stakeholders Group

Transparency

- Load dispatch process
- Currently managed by TNB

Efficiency

- Expect higher efficiency



Tariff Setting Mechanism

- A commonly agreed tariff setting mechanism to be established

Customer Choice

- Desire for options

Fuel

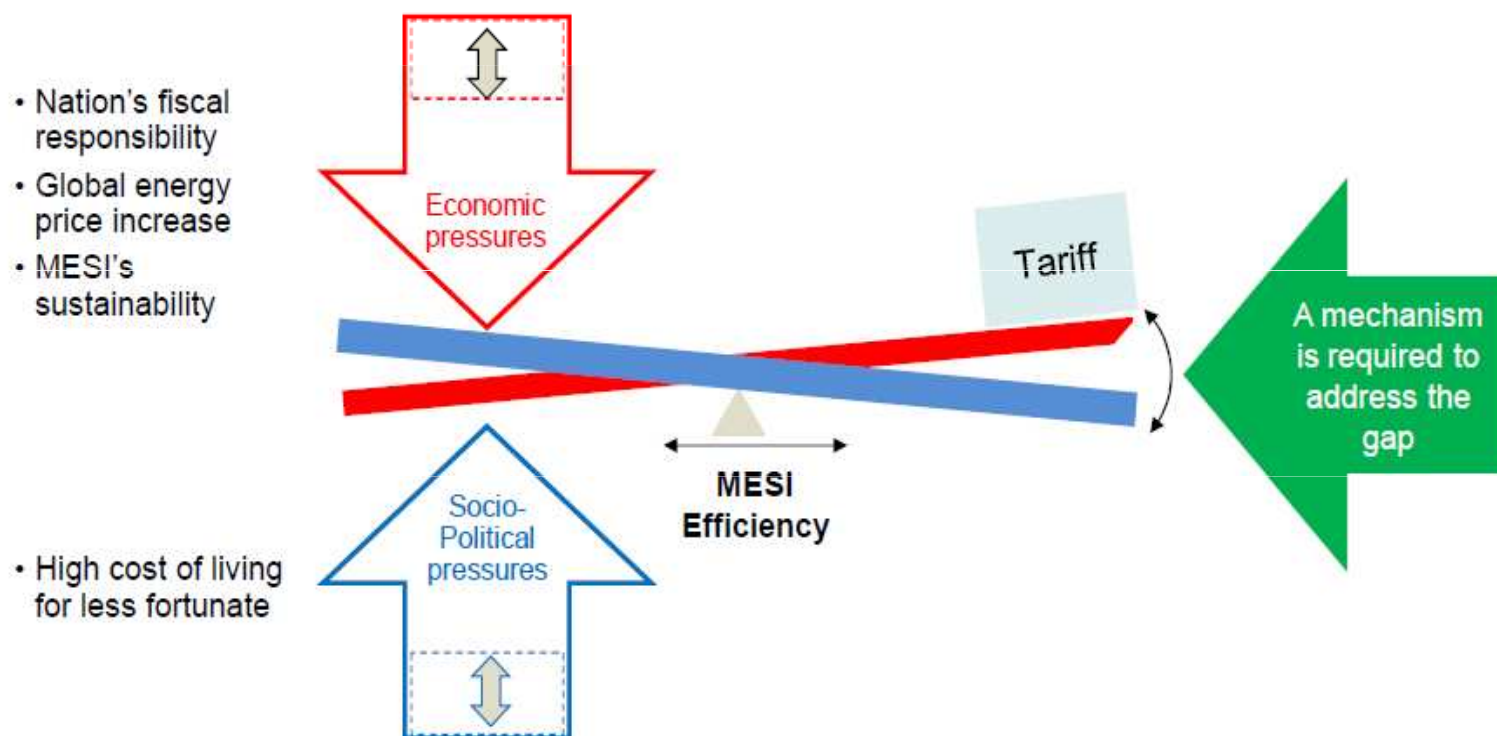
- No fuel cost pass-through; thus higher fuel subsidies
- Need to address long term fuel supply and security



*Source: MyPower

MESI TRANSFORMATION PLAN: Balancing the Interests

Balancing the Nation's Conflicting, Dynamic Economic and Socio-Political Interests



Decision making has to be transparent and acceptable to ensure:

- Implementation certainty of government policy decisions
- Reducing risk premiums on MESI and economy as whole
- Better planning for industries and businesses
- Lifeline tariff for targeted segments can be continued



*Source: MyPower

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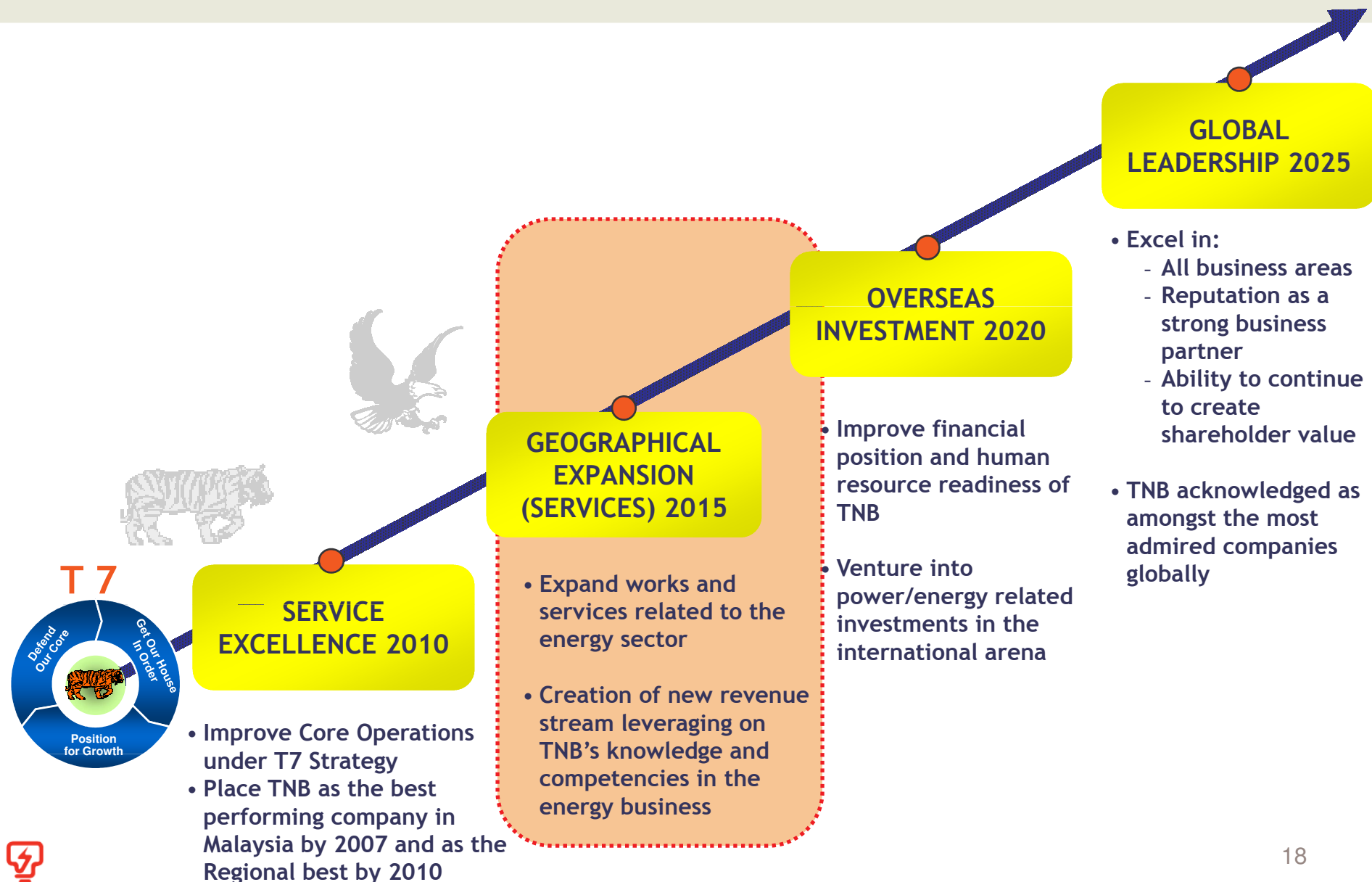
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OUTLOOK - KEY TAKEAWAYS

BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion

Growth Strategies to move TNB to the Next Level



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - GEMILANG 2015

Leveraging on 4 Core Success Thrust



BUSINESS STRATEGY & DIRECTION

TNB 20-Year Strategic Plan

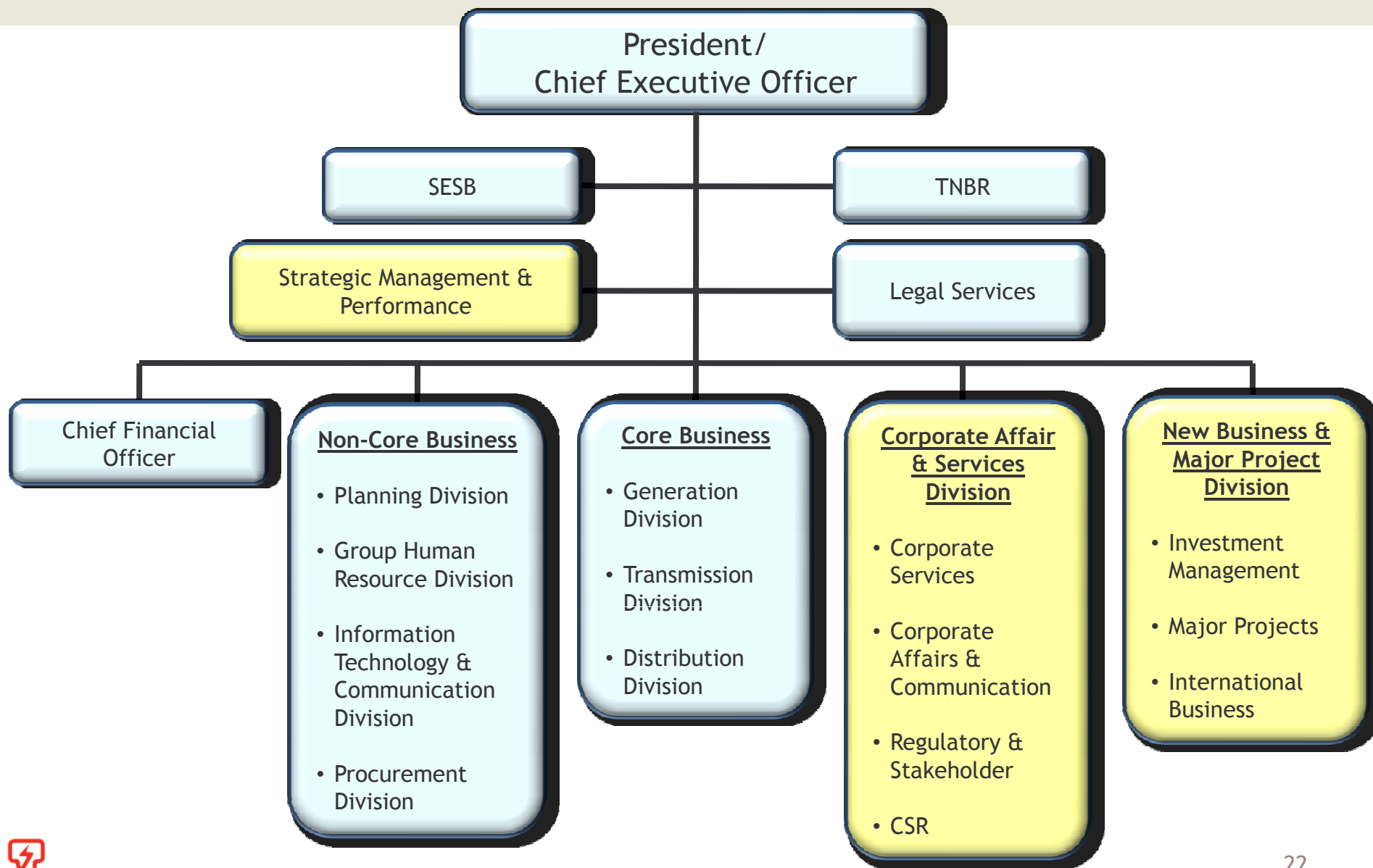
Sustaining Growth by Going International

- Way forward:
 - Leverage on TNB's capabilities (in MENA area) in pursuing International Business (O&M), Project Management in Generation Business
 - Utilise existing related services (consultation & training) and manufacturing products as stepping stone for future business in new frontier countries
 - New business area - in Renewable Energy
 - Deploy various avenues for human resource requirement
 - Hire expertise through contract scheme based on business requirement
 - Deploy attractive scheme for TNB experts
 - Alliance with strategic partners (local & international)
 - Establish knowledge management/repository for data and information sharing



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion

New Division Focusing on Non-Regulated Businesses

New Business & Major Project Division

Investment Management

1. Market / Industry Scanning
2. Country Intelligence
3. 'Deal Maker'
4. Portfolio Management: Nurture / Grow / Exit
TNB's subsidiaries
Excluding:-
YTN, ILSAS, UNITEN, TNBR

Major Projects

1. Generation project development
2. Bidding for new generation project domestically

International Business

1. New business development
(Power, O&M, Land Bank)
2. Services - O&M
3. Supplies - BuyCo
4. Manufacturing



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion

New Division Focusing on Improvement in
Communication and Stakeholders Engagement

Corporate Affair & Services Division

Corporate Affairs

1. Strategic communication
2. Corporate communication
3. Media relation
4. CSR

Regulatory & Stakeholder Management

Stakeholder Relationship

1. Identify and manage key stakeholders who have major influence in TNB's business
2. Establish rapport and build excellent relationship with stakeholders
3. Influence stakeholders to accept and endorse TNB's position on strategic matters
4. Utilise various means to further TNB's cause. Eg. NGOs, community leaders, Politicians and media

Corporate Services

1. Security services and intelligence
2. Land wayleave management
3. Property services
4. Logistics services



BUSINESS STRATEGY & DIRECTION

2nd Phase of TNB 20-Year Strategic Plan - Geographical Expansion

New Division Focusing on Performance Management

Chief Strategic Management & Performance

Performance Monitoring

1. Monitoring and reporting KPIs
2. Monitoring breakthrough strategies

Performance Management & Deliverable

1. Organise labs to identify blockers, cut red tape
2. Drive deliverables and high performance
3. Facilitate implementation of decisions made at Labs
4. Scan issues highlighted by public/media/customer/staff
5. Identify new strategies essential for Gemilang 2015
6. Research/Strategy Unit - Economic Analysis



BUSINESS STRATEGY & DIRECTION

Headline Key Performance Indicators: 2nd Phase - GEMILANG 2015 & As At 3QFY12

		INITIATIVES	TARGET FY 2015	ACTUAL FY 2011	TARGET FY 2012	YTD FY 2012		
						1 st Qtr	2 nd Qtr	3 rd Qtr
Financial Indicators		Return on Assets (ROA) (%)	6 - 7	2.1	2.0 - 3.0	2.1	3.2	4.1
		Company CPU (sen/kwh)	< 29.9	32.7	32.7 - 33.7	33.9	32.3	31.1
		Revenue from Non-Regulated Business (RM bn)	5.0	1.8	1.8 - 1.9	0.4	1.0	1.5
Technical Indicators		Unplanned Outage Rate (UOR)(%)	< 4.0	7.1	3.6 - 4.0	6.0	4.4	3.8
		T & D Losses (%)	6 - 7	9.0	8.7 - <9.0	8.5	8.7	8.4
		Transmission System Minutes (mins)	< 1.0	1.0	1.1 - 2.0	0.2	0.2	1.0
		Distribution SAIDI (mins)	< 50.0	78.9	>75.0 - 80.0	14.6	27.5	43.4



BUSINESS STRATEGY & DIRECTION

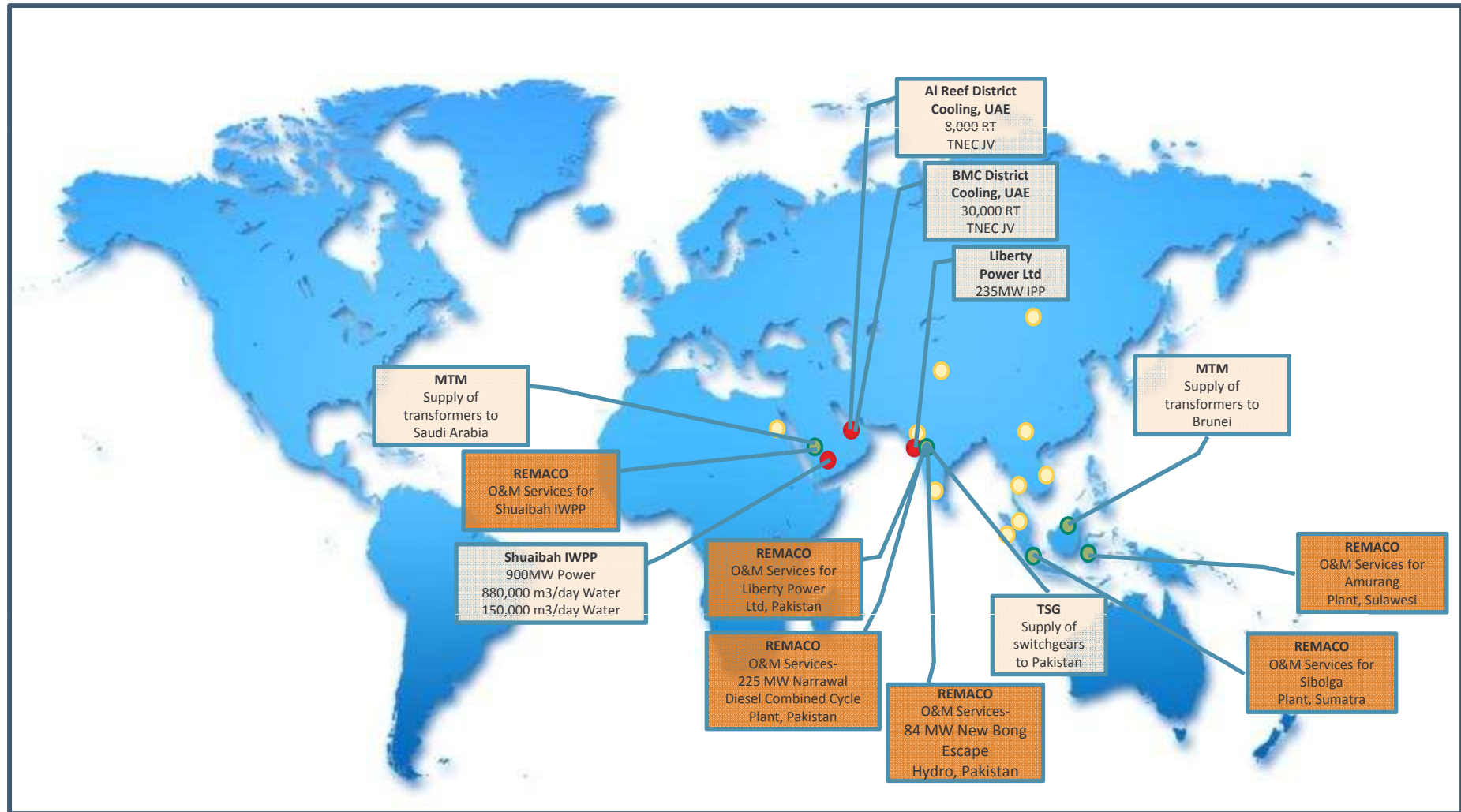
TNB 20-Year Strategic Plan - 2nd Phase - Geographical Expansion (GEMILANG 2015)

- Tenaga is currently in the 2nd phase of the 20-year Strategic Plan. In this phase we are looking at opportunities in expanding our business in the O&M services in energy related business. This initiative will be driven by REMACO, a 100% owned subsidiary.
- Currently REMACO has contracts in O&M services at:
 - Shuaibah IWPP project
 - LPL
 - Hydro plant in Azad Jammu and Kashmir, Pakistan
 - Narrawal Diesel Combined Cycle Plant, Pakistan
 - Amurang Plant, Sulawesi
 - Sibolga Plant, Sumatera
- Tenaga is focusing on the MENA (Middle East and North Africa) region, as well as South East Asia region.
- However, due to the unrest situation in MENA, we remain cautious in venturing business in the area. Meantime, we are looking at opportunities in South East Asia such as Vietnam and Indonesia.



2nd PHASE OF 20-YEAR STRATEGIC PLAN

Geographical Expansion : International Experience (Completed/Ongoing Projects)



● IPP, IWPP & Development Projects

● Supply & Services

● ILSAS continues to provide services for power companies in emerging countries including Vietnam, Yemen, Mongolia, Laos, Indonesia, Thailand, Nepal, Egypt and Pakistan

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OUTLOOK - KEY TAKEAWAYS

3 months ended 31st May FY2012 (3rd Quarter)

- Net profit of RM619.1 million
- Recognition of fuel cost compensation of RM777.8 million from Nov'11 - May'12
- 6.5% increase in Group Revenue as compared to 2nd Quarter FY2012 against 5.9% decrease in Operating Expenses
- Average coal price of USD104.3/mt as compared to USD108.5/mt in the previous quarter
- EBITDA margin at 29.4% as compared to 47.0% reported for the previous quarter

9 months FY2012

- Net profit of RM3,189.7 million
- 14.8% increase in Group Revenue against a 8.2% increase in Operating Expenses
- Average coal price of USD107.5/mt as compared to USD103.0/mt in the YTD 3rd Quarter FY2011
- 4.2% Unit electricity demand growth in Peninsular Malaysia
- EBITDA margin at 31.1% as compared to 21.1% reported for the corresponding period in FY2011



FINANCIAL RESULTS

Unaudited Income Statement (Group)

- 14.8% Increase in Group Revenue Against 8.2% Increase in Operating Expenses
- >100% Increase in Operating Profit mainly Attributed to Fuel Cost Compensation
- Net Profit Attributable to the Owners of the Company of RM 3.2bn

RM'mn	YTD FY 2011 Restated	YTD FY 2012	Variance %
Continuing Operations:			
Revenue	23,086.7	26,513.6	14.8
Operating expenses	(21,621.1)	(23,399.0)	(8.2)
Operating income	406.4	1,989.7	>100.0
Operating profit	1,872.0	5,104.3	>100.0
Forex			
- Transaction Gain / (Loss)	(5.8)	(10.3)	77.6
- Translation Gain / (Loss)	107.6	(323.8)	>(100.0)
Share of results of jointly controlled entities and associates (net of tax)	71.1	13.1	(81.6)
Profit before finance cost	2,044.9	4,783.3	>100.0
Finance income	277.1	101.7	(63.3)
Finance cost	(668.1)	(633.3)	5.2
Profit before taxation	1,653.9	4,251.7	>100.0
Taxation and Zakat			
- Company and subsidiaries	(218.5)	(756.4)	>(100.0)
- Deferred taxation	(148.4)	(303.2)	>(100.0)
Profit from continuing operations	1,287.0	3,192.1	>100.0
Discontinued Operations:			
Profit/ (Loss) from discontinued operations (net of tax)	-	-	-
Profit for the financial period	1,287.0	3,192.1	>100.0
Attributable to:			
- Owners of the Company	1,304.0	3,189.7	>100.0
- Non-controlling interests	(17.0)	2.4	>100.0
	1,287.0	3,192.1	>100.0



FINANCIAL RESULTS

Executive Summary (Restated Fuel Cost Compensation)

Net Profit Attributable to the Owners of the Company of RM1.9bn

	YTD		
	3QFY11	3QFY12	Variance
Net Profit Attributable to the Owners of the Company	1,304.0	3,189.7	> 100%
<i>Adjustments</i>			
Prior Year Fuel Cost Compensation		(1,678.6)	
Current Year Fuel Cost Compensation	916.0		
Tax	(229.0)	419.9	
Adjusted Net Profit	1,991.0	1,931.0	-3.0%
Forex Translation Gain/(Loss)	107.6	(323.8)	> (100%)
Adjusted Net Profit Before Forex Translation Gain/(Loss)	1,883.4	2,254.8	19.7%

FINANCIAL HIGHLIGHTS

Year-On-Year Analysis (Restated Fuel Cost Compensation)

EBITDA Margin Reflects Consistent Performance

RM mn	YTD 3Q	
	FY2011 [Restated]	FY2012
Total Units Sold (GWh)	72,266.8	75,360.8
Revenue	23,086.7	26,513.6
Operating Expenses (before depreciation)	17,715.9	20,262.4
Operating Income	406.4	311.1
EBITDA	5,777.2	6,562.3
EBITDA Margin (%)	25.0%	24.8%
Depreciation and Amortisation	2,989.2	3,136.6
EBIT	2,788.0	3,425.7
EBIT Margin (%)	12.1%	12.9%
Finance Cost	668.1	633.3
Profit Before Tax & Forex Translation	2,462.3	2,896.9
Net Profit Before Forex Translation	1,883.4	2,254.8
Translation Gain / (Loss)	107.6	(323.8)
Net Profit attributable to :		
Equity Holders	1,991.0	1,931.0
Non-controlling Interest	(17.0)	2.4

	9 Months (Sept-May)		
	FY'11	FY'12	Var (%)
Average Coal Price Consumed (USD/MT) *			
FOB	88.0	97.3	10.6%
Freight	14.6	9.7	-33.6%
Others	0.4	0.5	25.0%
CIF	103.0	107.5	4.4%
Average Coal Price Consumed (RM/MT) (CIF)	316.0	332.3	5.2%
Coal Consumption (mn MT)	13.9	15.5	11.5%



FINANCIAL HIGHLIGHTS

Year-On-Year Analysis (Restated Fuel Cost Compensation)

EBITDA Margin Reflects Consistent Performance

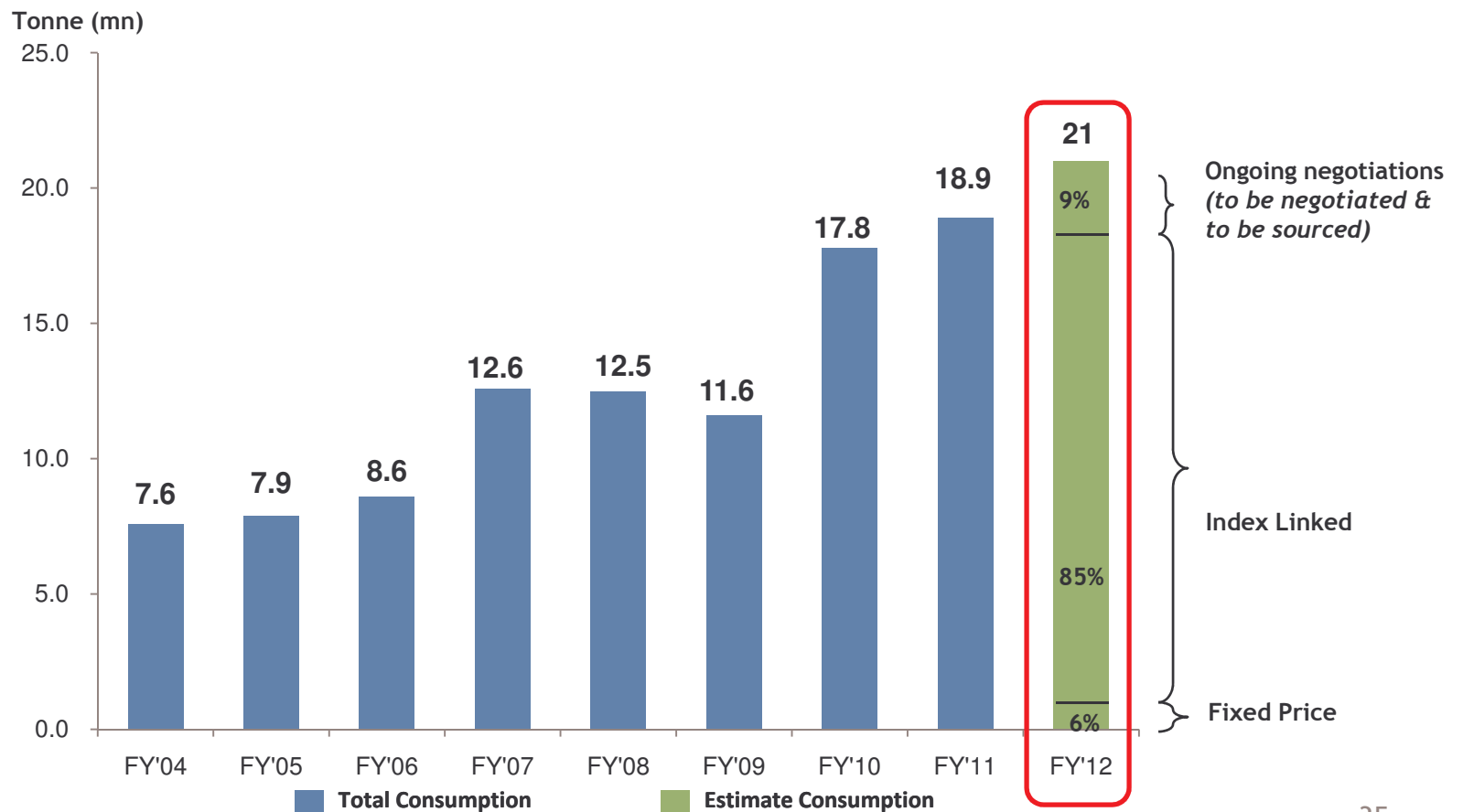
RM mn	FY2012		
	1Q [Restated]	2Q [Restated]	3Q
Total Units Sold (GWh)	25,225.0	24,689.5	25,466.3
Revenue	8,694.4	8,628.2	9,191.0
Operating Expenses (before depreciation)	6,769.5	6,558.2	6,934.7
Operating Income	94.9	132.4	83.8
EBITDA	2,019.8	2,202.4	2,340.1
EBITDA Margin (%)	23.2%	25.5%	25.5%
Depreciation and Amortisation	1,031.7	1,032.1	1,072.8
EBIT	988.1	1,170.3	1,267.3
EBIT Margin (%)	11.4%	13.6%	13.8%
Finance Cost	211.9	222.4	199.0
Profit Before Tax & Forex Translation	864.3	948.2	1,084.4
Net Profit Before Forex Translation	688.9	682.2	883.7
Translation Gain / (Loss)	(419.1)	628.4	(533.1)
Net Profit attributable to :			
Equity Holders	269.8	1,310.6	350.6
Non-controlling Interest	(2.3)	(7.8)	12.5



COAL REQUIREMENT

Coal Procurement Estimate for FY2012 at 21.0 mn MT

	FY'04	FY'05	FY'06	FY'07	FY'08	FY'09	FY'10	FY'11	3QFY'12
Average Coal Price (CIF) (USD/metric tonne)	34.0	49.8	52.8	45.3	76.4	90.2	88.2	106.9	107.6



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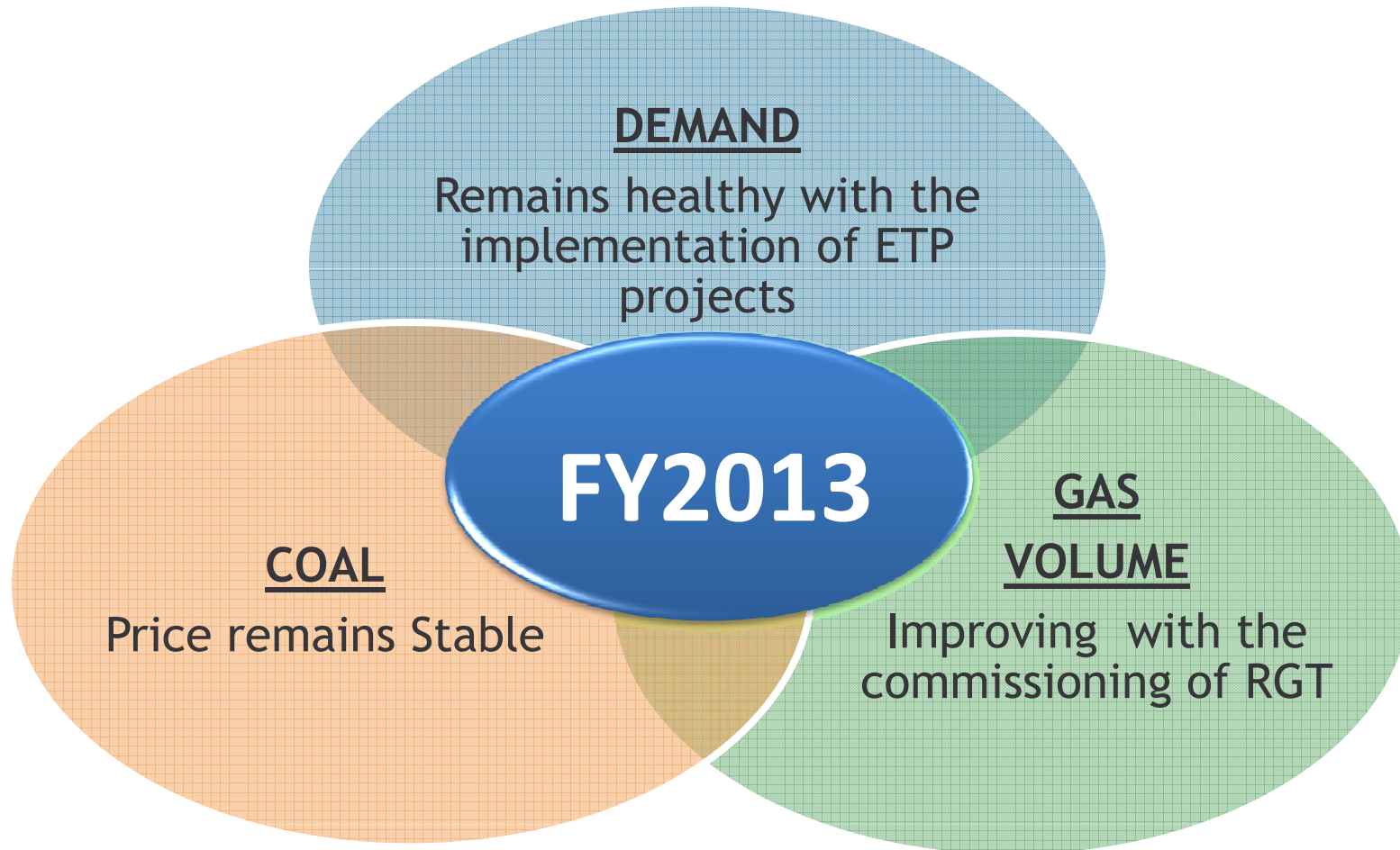
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OUTLOOK - KEY TAKEAWAYS

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POSITIVE OUTLOOK FOR FY2013

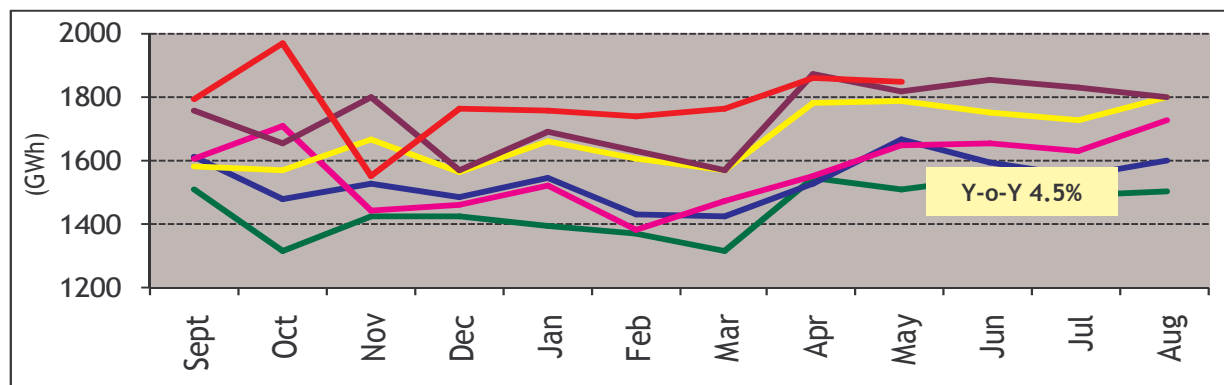


OUTLOOK - KEY TAKEAWAYS

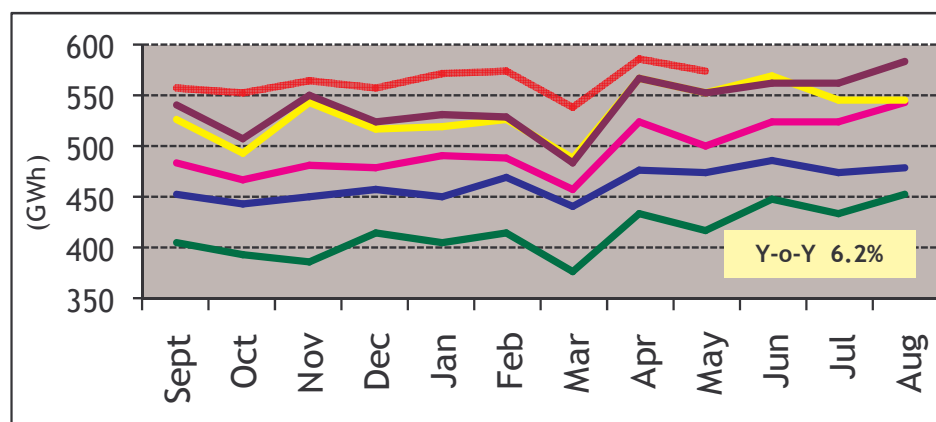
1 Demand Growth Driven by Commercial Sector

Commercial sectors recorded positive growth Y-o-Y of 5.3%

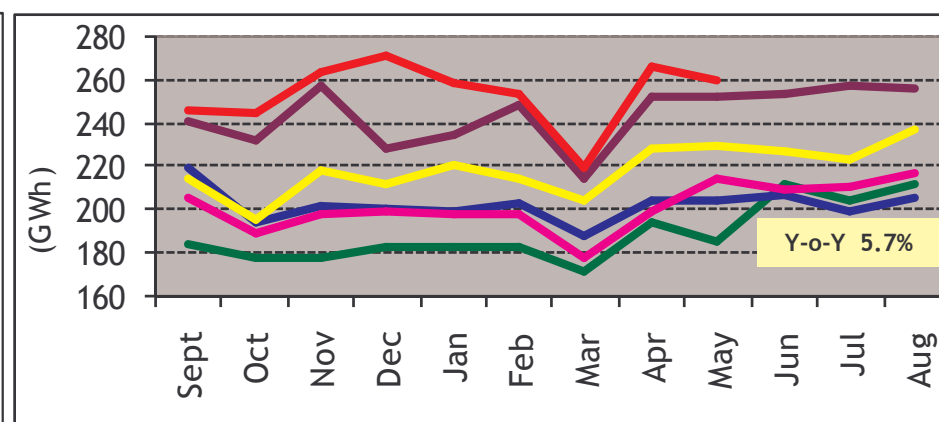
Low Voltage Shop Lots & Retail Business



Medium Voltage Shopping Malls, 3 Star Hotels, Office Buildings



Medium Voltage (Peak / Off-Peak) Mega Shopping Malls, 4-5 Star Hotels, Hospitals, Airports, Ports



OUTLOOK - KEY TAKEAWAYS

- 1** Demand Growth Driven by Commercial Sector
To-date Total ETP 120 Projects; with Combined Investment Value of RM182.7bn



KEY TAKEAWAYS

1 Demand Growth Driven by Commercial Sector: Tenaga's Role in ETP2

The Infrastructure Investment Creates a Solid Foundation
in Supporting the Implementation of ETP



ENSURING RELIABILITY OF ELECTRICITY SUPPLY



KEY TAKEAWAYS

1 Demand Growth Driven by Commercial Sector: 2 NKEAs that Directly Benefit Tenaga

GREATER KUALA LUMPUR/KLANG VALLEY

RM21bn GNI
20,000 JOBS

1 Building an Integrated Urban Mass Rapid Transit System

- The proposed MRT system for Greater KL/KV will span 141 kilometres with three major routes serving a radius of 20 kilometres of the city centre.
- The system is estimated to be able to carry up to 2 million riders by 2020, serving 11% of total trips within Greater KL/KV and 64% of travel in and out of the KL city centre.

RM6.2bn GNI
28,700 JOBS

2 Connecting to Singapore via a High Speed Rail (HSR) System

- The proposed deployment of an HSR system connecting Greater KL/KV and Singapore will connect Southeast Asia's two largest economic agglomerations and unlock economic growth in intermediate Malaysia cities.
- The HSR service will essentially transform travel on the Greater KL/KV - Singapore route by making daily travel a viable alternative.
- Door-to-door travel time will take just 1.5-2 hours. This represents a savings of over two hours over air travel, the fastest available mode today.



POTENTIAL CUSTOMERS
FROM COMMERCIAL CATEGORY



KEY TAKEAWAYS

1 Demand Growth Driven by Commercial Sector: 2 NKEAs that Directly Benefit Tenaga

GREATER KUALA LUMPUR/KLANG VALLEY

RM464.4mn GNI
13,481 JOBS

3 Creating Iconic Places and Attractions

- Greater KL/KV has immense potential to further leverage existing heritage sites that can be preserved and redeveloped in a manner that both celebrates the history and heritage of Greater KL/KV, but also embraces a future as a cosmopolitan and global city.
- These iconic places also generate higher economic activities through additional hotel stays, retail revenues from visitors and locals and additional employment.

EMPHASIS OF KL ATTRactions



GLOBAL CITY

- Showcasing KL as a world-class developed city
- Potential focuses include architecture, entertainment, shopping, etc.



HERITAGE CENTRE

- Showing KL as a world heritage site that offers one-of-a-kind cultural experience
- Potential focuses include historical landmarks, art, natural beauty, etc.

APPROACHES TO CREATE GLOBAL ATTRactions



TRANSFORM EXISTING ATTRactions

- Leverage existing attraction sites
- Significantly improve quality, change focus or expand scope



BUILD GROUNDBREAKING NEW ATTRactions

- Identify areas of interest that are underutilised
- Create new attractions with high global standards



KEY TAKEAWAYS

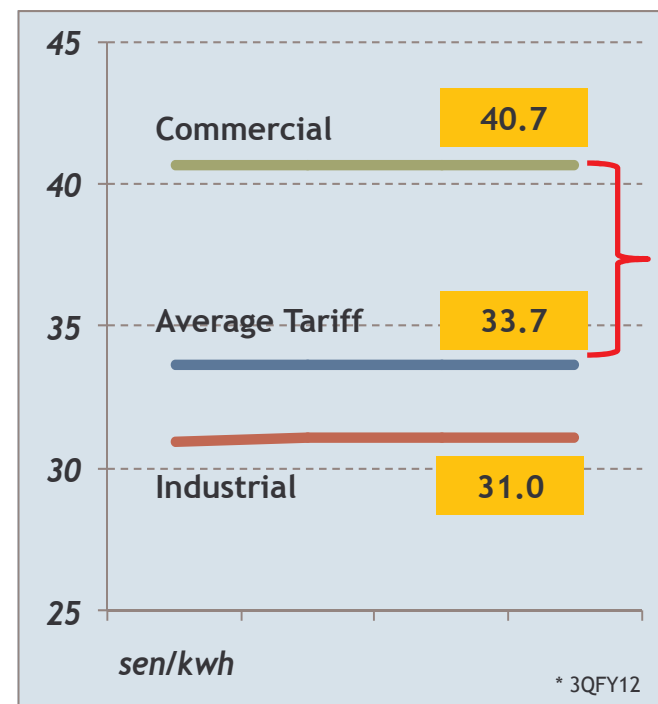
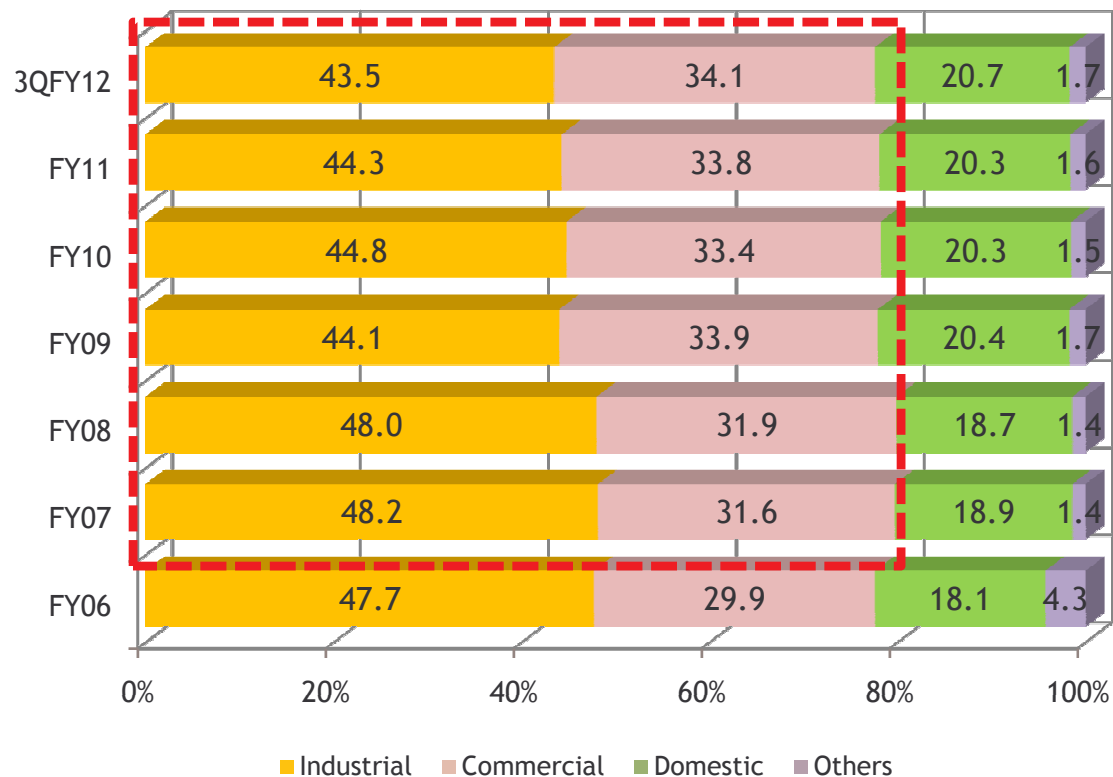
- 1 Demand Growth Driven by Commercial Sector:
2 NKEAs that Directly Benefit Tenaga

Shift from Industrial-based to Service-based economy

Increasing market share from Commercial sector

Commercial sector contributes the highest electricity sales margin

Sectoral Sales Analysis (Gwh)



KEY TAKEAWAYS

2 Improving Gas Volume: 2 NKEAs that Directly Benefit Tenaga

OIL, GAS & ENERGY

Unlocking Premium Gas Demand in Peninsular Malaysia

- Unlocking gas demand will have an estimated GNI impact for Malaysia of approximately USD0.81bn by 2020.
- Switching from diesel to natural gas will yield approximately USD0.6bn in annual savings for Malaysian industries.
- The facilities will have a maximum throughput capacity of 3.8mn tonnes per year or about 530mmscfd.
- Gas would be imported in LNG tankers/vessels in liquid form and regasified at the facility before it is transported into the Peninsular Gas Utilisation (PGU) pipeline network.



HIGHER GAS AVAILABILITY

RM2.4bn GNI
RM1.07bn
INVESTMENT

New Industries develop on
back of natural gas supply

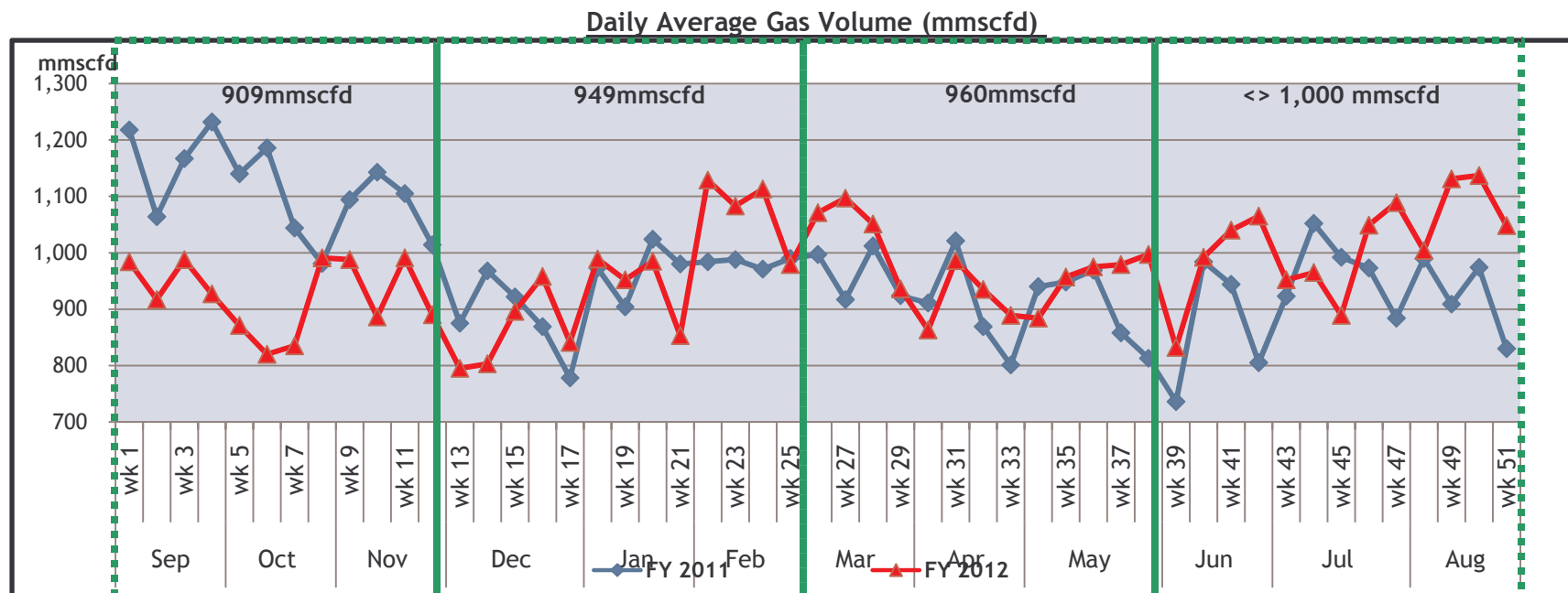
Industries switching
from diesel

Make up for depleting
gas production



KEY TAKEAWAYS

2 Improving Gas Volume: Better Outlook when LNG Terminal is Commissioned



Construction of the plant in Sungai Udang port in Melaka by consortium of Muhibbah and Perunding Ranhill Worley has commenced in April 2011



KEY TAKEAWAYS

3 Stable Coal Price in FY2013

API 4 (\$/t)			
Mid points	Aug 24th	Aug 31st	+/-
Q4 2012	89.80	90.10	0.30
Q1 2013	92.80	93.00	0.20
Q2 2013	95.30	95.30	0.00
Q3 2013	96.00	97.90	-0.10
Cal 2013	96.70	96.65	-0.05
Cal 2014	104.73	104.65	0.12

Source: IHS McCloskey

Coal swaps expected to remain fairly steady in FY2013; below USD100/mt

McCloskey SWAP China CFR (5,500kc NAR) (\$/t)			
Mid points	Aug 24th	Aug 31st	+/-
Aug-12	80.10	80.50	-0.40
Sep-12	82.50	81.40	-1.10
Oct-12	83.05	82.85	-0.20
Q4 12	83.50	83.15	-0.35
Q1 13	85.75	85.85	-0.10
Q2 13	87.50	87.40	-0.10
Q3 13	89.25	89.15	-0.10
Cal 2013	86.40	86.30	-0.10

Source: Tullet Prebon, Gira, Marlex Spectron

globalCOAL Swap Newc (\$/t)			
Mid points	Aug 24th	Aug 31st	+/-
Aug'12	91.55	91.25	-0.30
Sep'12	90.45	90.80	0.35
Oct'12	91.55	91.70	0.15
Q4'12	92.45	92.50	0.05
Q1'13	95.65	95.45	-0.20
Q2'13	97.45	97.15	-0.30
Q3'13	99.90	99.70	-0.20
Cal 2013	96.65	96.60	-0.25

Source: globalCOAL

McCloskey Swap Indonesian Sub-Bit (\$/t)			
Mid points	Aug 24th	Aug 31st	+/-
Aug-12	81.05	80.70	-0.35
Sep-12	81.75	81.60	-0.15
Oct-12	83.20	83.00	-0.20
Q4 12	83.65	83.55	-0.30
Q1 13	86.33	86.18	-0.15
Q2 13	88.20	87.95	-0.25
Q3 13	89.80	89.65	-0.15
Cal 2013	86.95	86.80	-0.15

Source: Tullet Prebon, Gira, Marlex Spectron



Australia and Indonesia
South Africa

-> Newcastle Index
-> Richards Bay API4

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