

Business Plan 2015-2020

© All rights reserved. Reproduction of all or any part of this publication via electronic, mechanical, recording or other medium is strictly prohibited without written consent from the Energy Commission.

Published by: **SURUHANJAYA TENAGA (ENERGY COMMISSION)** No. 12, Jalan Tun Hussein, Precinct 2, 62100 Putrajaya, Malaysia T : 03 8870 8500 F : 03 8888 8637 1-800-2222-78 (ST) www.st.gov.my

ISBN : 978-967-13778-4-0 ST Publication No. : ST (P) 12/08/2015

PRINTED IN MALAYSIA

CONTENTS

ТОРІС	PAGE
INTRODUCTION	3 - 4
FUNCTIONS OF SURUHANJAYA TENGA	5
VISION, MISSION, STRATEGIC OBJECTIVES	6
GUIDING NATIONAL POLICIES ON ENERGY	7
ENERGY INDUSTRY REGULATORY FRAMEWORK	8
REGULATORY PROCESS	9
CLIENT CHARTER	10
FUTURE CHALLENGES	11 - 13
SURUHANJAYA TENAGA BUSINESS PLAN	14 - 25
 Economic, Technical and Safety Regulation Enhancement Plan 	15 - 20
Corporate Development Plan	21 - 23
 Regulatory Framework Rationalisation Plan 	24
ORGANISATION STRUCTURE	25
HUMAN RESOURCE CAPACITY	26
INCOME AND EXPENDITURE OUTLOOK	27
TALENT MANAGEMENT FRAMEWORK	28 - 29
KEY PERFORMANCE INDICATORS 2016	30 - 45
Appendix 1	46 - 47
Suruhanjaya Tenaga's Offices	48 - 49



INTRODUCTION

Energy plays an important role in our lives. It lights up our cities and villages, powers industrial processes, and makes our daily lives more comfortable.

The energy sector in Malaysia has undergone significant changes since the 1990s. This was driven by the Government's aim to enhance supply security, improve efficiency and quality in utility services, and increase private sector participation in infrastructure development in the power sector.

In its continuing efforts to enhance the performance of the energy supply industry, on 1st May 2001, the Government established Suruhanjaya Tenaga under the Energy Commission Act 2001. On 1st January 2002, Suruhanjaya Tenaga became fully operational and assumed all the powers and responsibilities of the Department of Electricity and Gas Supply which was dissolved on the same date.

In line with the objectives of its formation, Suruhanjaya Tenaga aims to balance the needs of consumers and providers of energy to ensure safe and reliable supply at reasonable prices, protect public interest, and foster economic development and competitive markets in an environmentally sustainable manner.

The governance of Suruhanjaya Tenaga is entrusted to its Chairman and the Commission members, who are responsible to the Minister in charge of energy. The roles and functions of Suruhanjaya Tenaga are executed by the various Departments, Units and nine regional offices.

Suruhanjaya Tenaga undertakes various functions and activities in line with the provisions of the energy supply laws as defined in the Energy Commission Act 2001.

One major function of Suruhanjaya Tenaga is to advise the Minister on all matters concerning national energy supply policy objectives and the supply and use of electricity and piped gas.

In ensuring smooth and orderly functioning of the energy supply industry, Suruhanjaya Tenaga issues licences for the generation, transmission and distribution of electricity and the distribution of piped gas.

In order to ensure that consumers enjoy reasonable and cost efficient tariffs, Suruhanjaya Tenaga monitors costs incurred by licensees in carrying out supply activities, formulates tariffs, administers competitive bidding of new generation capacity, as well as monitors industry performance.

Codes, guidelines and directives are issued by Suruhanjaya Tenaga to facilitate compliance to the various provisions of the energy supply laws. These are issued after the necessary studies and consultations have been undertaken by Suruhanjaya Tenaga.

In ensuring that all industry personnel, consumers and public are protected from dangers arising from the supply and utilisation of electricity and piped gas, Suruhanjaya Tenaga certifies competent personnel and equipment. Examinations, surveillance and investigations, as well as awareness programmes are carried out to ensure compliance.

Suruhanjaya Tenaga also regulates and promotes energy efficiency and the utilisation of renewable energy resources. This includes certification of electrical energy managers, setting of energy labelling standards and advising on renewable energy projects.

In line with good regulatory practice, Suruhanjaya Tenaga regularly engages with various related stakeholders in dealing with industry issues. At the same time, it also networks with related international institutions and regulatory bodies to learn and share best practices in energy regulation.

Suruhanjaya Tenaga will continue to strive for a secure, reliable, efficient and safe energy supply at a reasonable price for the nation.

Suruhanjaya Tenaga's responsibilities are detailed in the Energy Commission Act 2001 and the following Acts and Regulations;

- Electricity Supply Act 1990
- Gas Supply Act 1993
- Licensee Supply Regulations 1990
- Electricity Regulations 1994
- Gas Supply Regulations 1997
- Electricity Regulations (Compoundable Offences) 2001
- Gas Supply Order (Compoundable Offences) 2006
- Efficient Electricity Management Regulations 2008



FUNCTIONS OF SURUHANJAYA TENAGA

As the statutory body responsible for regulating the energy sector, particularly the electricity and piped gas supply industries in Peninsular Malaysia and Sabah, Suruhanjaya Tenaga ensures the energy needs of the nation and the people are met. This is done by:

- Advising the Minister on all matters pertaining to the energy supply activities;
- Implementing, enforcing and reviewing the stipulated energy supply laws and regulations;
- Promoting efficiency and safety within the electricity and piped gas supply industry;
- Encouraging healthy competition and preventing the abuse of power or monopoly within the electricity and piped gas supply industry;
- Promoting the use of renewable energy and energy conservation;
- Promoting research and development of new techniques related to electricity supply and consumption, and the supply of piped gas;
- Promoting the development of the electricity and piped supply industry, including in the area of training;
- Promoting self-regulation within the industry.

VISION

Suruhanjaya Tenaga is a highly effective energy regulator and the authority on energy matters.

MISSION

Suruhanjaya Tenaga aims to balance the needs of consumers and providers of energy to ensure safe and reliable supply at reasonable prices, protect public interest, and foster economic development and competitive markets in an environmentally sustainable manner.

STRATEGIC OBJECTIVES

Energy Supply Industry

• The energy supply industry and its markets are highly progressive, competitive and resilient.

Industry Players

• All parties/players involved in the energy supply industry are playing their roles and are operating in an orderly and well-controlled manner; constantly in a high state of readiness; and with the highest standard of professionalism possible.

Consumer and Public

• Public interest, in general, and consumer interests, in particular, are well protected in the context of decisions and activities by the energy supply industry players.

Minister and the Government

• The Government of Malaysia, in general, and the Minister, in particular, are constantly in a high state of being advised on all matters pertaining to the running of energy supply industry and to situations regarding the availability and requirement for energy in Malaysia.



GUIDING NATIONAL POLICIES ON ENERGY

National Energy Policy

Malaysia's energy sector is guided since 1979 by the National Energy Policy, which has the following objectives:

- Ensuring the provision of adequate, secure and cost-effective energy supplies by developing indigenous energy resources, both non-renewable and renewable,
 - using least-cost options,
 - diversifying supply sources;
- Promoting the efficient utilisation of energy and the elimination of wasteful and non-productive patterns of energy consumption; and
- Ensuring that factors pertaining to environmental protection are taken into consideration in the production and use of energy.

New Energy Policy

Under the New Energy Policy which was launched in 2010, energy supply will continue to be strengthened by creating a more competitive market and reducing energy subsidy in stages.

The New Energy Policy has identified five approaches:

First: Rationalising energy pricing gradually to match market price, taking into account current economic condition and affordability to the *rakyat*;

Second: Undertaking a more strategic development of energy supply by diversifying energy resources, including renewable energy resources. Nuclear energy will also be considered as an alternative source of energy;

Third: Accelerating the implementation of energy efficiency initiatives in the industrial, commercial, residential and transport sectors;

Fourth: Improving governance to support the transition to market pricing, while providing assistance to mitigate impact on the low income group; and

Fifth: Ensuring that the New Energy Policy is implemented based on an integrated approach and according to schedule to achieve energy supply security.

ENERGY INDUSTRY REGULATORY FRAMEWORK

POLICY MAKERS





REGULATORY PROCESS



CLIENT CHARTER

Suruhanjaya Tenaga is committed in:

- Setting up a regulatory system that encourages the electricity and gas industry to be strong and consumers' interests are protected;
- Monitoring effectively electricity supply and gas reticulation in terms of its service quality, safety and reasonable price;
- Carrying out effective legal enforcement; and
- Providing efficient and friendly services within the stipulated time for licensing and issuance of certificate.

Our commitment to our customers is as follows:

For complainants

- All complaints will be recorded
- All complainants will receive acknowledgement of their complaints within 3 working days
- Complainants will be informed of the status of their complaints as soon as possible, within 15 working days
- For complaints that require more comprehensive investigation, complainants will be informed of follow-up status from time to time

For applicants

We will process and approve complete applications for licences and certifications within the stipulated periods as in Appendix 1.



FUTURE CHALLENGES

Industry Structure

Malaysia liberalised its generation segment of the electricity supply industry in the mid-90s to boost the supply of power in order to meet the nation's rapid economic growth. Today, there are 26 Independent Power Producers (IPPs) generating and selling power to the three main utilities in the Peninsula, Sabah and Sarawak. Currently, these IPPs contribute to almost 70% of the installed capacity in the country.

Existing policies and strategies would have to be revisited in order to arrive at the right structure that will enable the industry to function more effectively and efficiently. Any benefits out of industry restructuring will be passed on to consumers.

Fuel Resources

As fuel resources become scarce and more expensive, there are bigger challenges ahead of us in ensuring the provision of adequate, secure and costeffective energy supply. LNG, hydro and renewables are expected to feature more prominently in the future power generation fuel mix, in addition to coal.

Improving Efficiency and Environmental Impact

As fossil fuel resources are being depleted by the day, energy efficiency is a culture that must be embraced by the nation in order to safeguard the livelihood of our present and future generations.

The move towards incentive-based regulation from the current cost-ofservice regulation of electricity and piped gas utilities is intended to pave the way for achieving enhanced industry operational efficiency and reasonable prices for consumers.

In minimising the negative impacts of energy production, transportation, conversion and utilisation on our environment, construction of new conventional power plants using fossil fuels will need to include state-of-the-art technologies that are more efficient and environmentally friendly.

Planning for the future

Over 60 percent of industry costs go towards generating electricity, with the main cost elements being capital cost (asset management and financing costs) and fuel cost (cost of fuel input). Regulatory policies that influence capital investment efficiency therefore have a major bearing on industry efficiency. A transparent capacity planning and investment policy framework is crucial in ensuring the long term sustainability and least-cost operation of the industry.

An optimal fuel mix policy for the electricity sector need to be formulated to cater for a more robust electricity demand growth in the future. Only then will optimum planning outputs such as capacity margin, site selection, and optimal plant mix will be achieved.

The generation sector can also be subjected to a more competitive environment to improve efficiency. The recent effort by the Government through Suruhanjaya Tenaga to introduce competitive bidding for procuring new generation capacity will be continued in the future. With the ending of the first generation IPPs by 2016 and the retirement of old TNB generating plants, a total of about 9,000 MW of new capacity will be needed by 2020.





Ongoing Reform Initiatives ('No Regrets' Steps) For The Malaysian Electricity and Gas Supply Industries

- Gradual phasing-out of gas subsidy with stabilisation mechanism
- Incentive-based electricity tariff regulation with regulatory accounts unbundling, performance incentive scheme and imbalance cost pass-through mechanism
- Competitive framework for new generation capacity development
- IPP generation efficiency savings sharing framework
- Generation fuel security policy framework
- Ring-fencing of single buyer and system operator with market rules and regulatory oversight
- Enhanced time-of-use and cost-reflective tariffs framework
- New enhanced dispatch arrangement
- Gas third party access framework

Suruhanjaya Tenaga is to assist government in putting in place the liberalised electricity market implementation steps



"Market implementation" initiatives are those that are targeted specifically at the introduction of the market. Benefits accrue once the market commences

Initiatives include:

- Full market governance and regulatory arrangements
- Separate ownership of TNB functions
- Establishing a Market Operator
- Transforming dispatch algorithm into a bid-based power pool
- Transitioning the PPAs into market compatible instruments
- Allowing free entry for new generation
- Allowing retail competition

Business Plan 2015-2020

Suruhanjaya Tenaga Business Plan (2015-2020)



<u>NOTE:</u> ETS: Economic, Technical and Safety Regulation Enhancement Plan CDP: Corporate Development Plan RFRP: Regulatory Framework Rationalisation Plan



Year	Initiative	Project / Programme
2015-2016	Competitive bidding for new capacity in Peninsular and Sabah	 Bidding for 30MW, 60 MW repowering and 300 MW gas fired power plant in Sabah Utility Scale Solar 250 MW Net Energy Metering 100MW
2015-2016	Technical and financial benchmarking	 Benchmarking of power plants' technical performance Financial performance of TNB and SESB Benchmarking study of TNB's OPEX and CAPEX
2015-2016	Enhancing governance in Sabah Electricity Supply Industry	 Development of Distribution Code for Sabah Implementation of SB, Grid Owner and GSO for Sabah Implementation of Ring-fencing of SB and GSO
2015-2016	Enhancing industry performance monitoring programme	 Enhance online reporting by licensees (until July 2016) Coordination for Environmental Quality (Clean Air) Regulations 2014 compliance
2016	Introduction of Incentive-Based Regulation (IBR) for SESB	 Implementation of regulatory account and data template Implementation of revenue requirement model Implementation of Regulatory Implementation Guidelines (RIGs) Development of ICPT Mechanism

 \overline{M}

Year	Initiative	Project / Programme
2016	National Electricity Supply and Demand Forecast Framework	 Development of National Electricity Supply and Demand Forecast Framework
2016	Ensure fuel supply security	 National Gas Task Force operation Review of Minimum Gas Requirement for Power Sector Implementation of Gas Nomination Procedure for Sabah
2016	Implementation of service standards monitoring	 Review of Guaranteed Service Levels (GSL) and Minimum Service Levels (MSL) for TNB Development of GSL & MSL for GMB Development of Revised MSL for SESB
2016	Implementation of Electricity Industry Fund	 Development and implementation of guidelines on industry contribution and utilisation of fund
2016	Subsidy reduction programme towards market pricing	 Implementation of six-monthly revision in piped gas price for power and non-power sector Establishment of blended gas pricing for power and non-power sectors
2016	Implementation of Gas Framework Agreement (GFA)	 Finalisation and implementation of GFA
2016	Undertake industry studies	 Study on status of lightning protection system for buildings in Malaysia Review Grid Code for determining frequency response requirement for super critical coal fired power plants Review of Generation Reliability Standard Review of Sabah Capacity Requirement Review of TNB Cost of Service

Year	Initiative	Project / Programme
2016	Implementation of a new supply and safety legal framework for electricity and gas	 Amendment of the Electricity Regulations 1994 Amendment of Licensee Supply Regulations 1990 Amendment of Gas Supply Regulations 1997 Finalisation of codes and guidelines for Third Party Access for gas Development of revised MEPS Regulations Development of guidelines related to electricity supply/licensed activities
2016	Energy database upgrade	 Development of Malaysian Energy Industry Database (MEIH) forecast report Enhancement of energy usage database for commercial sector
2016	Development of policy / legal framework	 Cross border power and gas supply- harmonisation of regulatory standards and technical aspects through ASEAN Energy Regulatory Network (AERN) Legal framework on energy service company (ESCO) registration Gas cooker labeling framework
2016	Implementation of trial run for IBR (gas)	Implementation of IBR for GMB
2016	Implementation of programs under NEEAP	Enhancing resources for NEEAP implementation

 $\overline{\mathbb{N}}$

Year	Initiative	Project / Programme
2016	Industry competency improvement initiatives	 Study to review competent control requirements for the supply and use of electricity and gas Study to review contractor registration requirements
2016	Household gas and electrical safety improvement initiatives	 Study to review safety regulatory framework for household gas/electrical appliances
2016	Enforcement improvement plan	 Implementation of third party surveillance system
2015-2017	Development of industry codes of practice, rules and guidelines	 Enforcement of Electrical Infrastructure Code Enforcement of Non-Domestic Electrical Installation Code Implementation of Guidelines /Rules for Promoting Co-generation Implementation of Guidelines for Net Energy Metering And Self Consumption For Solar PV

K &

Year	Initiative	Project / Programme
2015-2017	Development of industry codes of	 Development and implementation of Guidelines for Competition
	practice, rules and guidelines	 Enforcement of Guidelines for Water Heater Installation
		 Implementation of Regulatory Implementation Guidelines for Sabah
		 Approval and implementation of Codes and Guidelines Under Gas Third Party Access Framework
		 Review Guidelines On Enforcement of Electricity Theft
		 Development of Guidelines On Claim Due to Negligence of Licensees
		 Development and enforcement of Guidelines on C200 kg LPG Cylinders Installation
		 Development and enforcement of Guidelines on Disconnection Due to Theft
		 Guidelines on Use of Power Line for Communication
2015-2017	Enhance sustainability of the electricity supply industry in Sabah	 Implementation of short term, medium term and long term initiatives
2016-2017	Industry Award programme	 Implementation of Industry Award programme
2016-2017	Operationalisation of gas open access network regulatory framework	 Operationalisation of legal and regulatory framework for open access to gas supply network Account unbundling of GMB

 $\overline{\mathcal{N}}$

Year	Initiative	Project / Programme
2017	Tariff review (electricity)	 First regulatory period base tariff review for TNB Implementation of cost reflective tariff
2016-2020	Demand response initiatives	 Implementation of Enhanced Time of Use Tariff (EToU) tariff Study on implementation of EToU for domestic consumers Phasing out of Special Industrial Tariff Introduction of Interruptible Load Tariff Development of smart metering regulatory framework
2016-2020	Development of Competitive Energy Market, Legal and Regulatory Framework	 Operationalise NEDA Develop Legal and Regulatory Framework to Enhance Competition in Peninsular Establishment of Electricity Market Authority Operationalisation of a liberalised electricity market

1770



Corporate Development Plan

FOCUS AREA: HUMAN RESOURCE DEVELOPMENT

Year	Initiative	Project / Programme
2015-2016	Job rotation planning	 Development of job rotation policy and programme
2015-2016	Succession planning	Development of succession planning framework
2015- 2016	Review of manpower requirements	 Approval of additional manpower Allocation of manpower based on need analysis
2015-2016	Knowledge management	 Implement knowledge sharing sessions Establish repositories for studies and research, Enhance usage of ST library
2016	Review of Terms and Conditions of Service	 Benchmarking with other regulatory bodies and market practices
2016	Training and development processing and monitoring	 Operationalisation of training module in Performance Management System (PMS)
2015-2017	Talent management and development	 Development of Job Descriptions, Job Specifications, Job SKA Profiles Development of competency requirements
		 framework Development and implementation of Career Progression Mechanism Policy
		 Development of Training and Development Plan
2016-2017	ST Learning Centre	Develop training areas and programs

Corporate Development Plan

FOCUS AREA: BUSINESS PROCESS RE-ENGINEERING

Year	Initiative	Project / Programme
2015-2016	Review of Client Charter	 Client Charter review
2015-2016	Development of ICT Masterplan	 Review ICT Masterplan
2015-2016	Computerisation of processes	 Implementation of ECOS II Enhancing online services for e-Gas, e- Electricity
		 Enhancing e-Aduan system Integration of ST's e-Kelengkapan system with U-Kastam
		 Development of Computerized Investment System
2015-2016	Enhancement of ICT Security System	 Managed services by third party - Disaster Recovery site
2015-2016	Upgrading of IT system	 Email system upgrade for high availability and archiving
		 Upgrading of SAGA system
		 Upgrading of project monitoring system
2015-2016	Implementation of Internet Banking and Online Payment	Operationalisation of internet bankingImplementation of online payment
2015-2016	Improvement in procurement process	 Review procurement procedure and evaluation
2015-2016	ISO certification	 Certification for processing of public licence and issuing of Certificate of Approval for electrical appliance
2015-2016	Development of Emergency Preparedness Plan	 ST Business Continuation Management Plan Industry Emergency Response Plan
2016	Improvement of competent person identification	 Development of identification card system for registration of electrical competent system
2015-2017	Development of mobile applications	 Development of mobile applications for Malaysia Energy Statistics and Energy Balance



Corporate Development Plan

FOCUS AREA: FINANCIAL SUSTAINABILITY ENHANCEMENT

Year	Initiative	Project / Programme
2016	Review of financial outlook/status	ST revenue and expenses study
2016-2017	Review of fees and charges for licensing and certification	Review of need for new processing fees

FOCUS AREA: COMMUNICATION/OUTREACH

Year	Initiative	Project / Programme
2016	Development of strategic communication plan	 Establish media plan Establish crisis communication plan
2016	Communication and public engagement	 Industry-focused Seminar/Workshop/Campaign on safety and efficiency Media publicly and promotions Outdoor advertising EE Challenge Touch point and Corporate Social Responsibility
2015-2016	Establishment of collaborative framework with other relevant agencies and associations in regulatory activities	 Regional level ASEAN Energy Regulatory Forum (AERN) ASEAN JSC EEE Association level ST – Industry working committees Agency / Organisations in other countries / state Memorandum of Understanding (MOUs) – CEC Memorandum of Understanding – Electrical Inspectorate Unit, Sarawak (EIU) Establishment of Panel Perunding Tenaga for Sabah

Regulatory Framework Rationalisation Plan

Year	Initiative	Project / Programme
2015	Activities to be undertaken by institutions / industry under Suruhanjaya Tenaga monitoring	 Implementation of Electrical competency examinations by institutions Implementation of Electrical Appliance Test Report Verification by SIRIM Implementation of Electrical appliance market surveillance by SIRIM
2015	Functions to be coordinated with other relevant regulatory agencies	 RE incentive processing by SEDA RE activities by SEDA Contractor registration by CIDB

ORGANISATION STRUCTURE



Business Plan 2015-2020

HUMAN RESOURCE CAPACITY PLAN



Manpower Planning





TALENT MANAGEMENT FRAMEWORK



Suruhanjaya Tenaga Capability Agenda is to support its vision to become a highly effective regulator as well as the authority on energy matters



Triple Plus Target Develop highly qualified and competent staff to conduct safety as well as engineering and operational assessment on equipment and installation

Build strong capabilities in understanding new technology on energy efficient equipment and installation

Inculcate ownership and leadership values amongst staff to enhance Energy Commission outlook



REVENUE AND EXPENDITURE OUTLOOK 2015-2020

The Energy Commission is a not-for-profit organisation. Its revenues are mainly generated by licensing and certification fees in regulated areas and the Energy Commission is financially self-sustaining.

	2015*	2016	2017	2018	2019	2020
Revenue (RM million)	81.70	86.84	101.72	106.75	113.85	125.52
Expenditure (RM million)	64.17	79.38	94.53	102.25	122.19	121.49

*As at 31 January 2016: Income: RM87.80 million Expenditure: RM59.61 million

KEY PERFORMANCE INDICATORS (KPIs) FOR YEAR 2016

内方



KEY PERFORMANCE INDICATORS (KPIs) AND WEIGHTAGE

KPI	WEIGHTAGE (%)
KPI 1: <u>Reliability</u> and <u>service quality</u> of electricity and piped gas supply industry	25%
KPI 2: Safety in the supply and utilisation of electricity and piped gas	20%
KPI 3: Energy efficiency in the utilisation of electricity	15%
KPI 4: Economic efficiency in electricity and piped gas industry	20%
KPI 5: Organisational capacity and ST <u>service quality</u>	20%

КРІ	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 1: <u>Reliability</u> and <u>service quality</u> of electricity and piped gas supply industry (Weightage: 25%)	Electricity: • SAIDI (Peninsula) 55 minutes • SAIDI (Sabah) 250 minutes (Weightage: 4%) Piped gas: • SAIDI (Peninsula) 0.17 minutes • SAIDI (Sabah) 0 minutes (Weightage: 2%) • Reserve margin not less than 25% (Weightage: 3%) • No under frequency load shedding incidents (Weightage: 3%) • High-impact generation infrastructure development and transmission projects implemented within schedule (Weightage: 6%)	 Generation capacity development plan Grid system operation monitoring Fuel and electricity supply monitoring Sabah SAIDI reduction action plan monitoring 	 JPPPET working committee conducts meeting every quarter and development plan updated two times a year (Weightage: 10%) Grid code, distribution code, SB, SO committees conduct meeting every quarter and high-impact operational issues resolved (Weightage: 10%) Coal and Gas committees conduct meeting every quarter and high-impact supply issues resolved (Weightage: 10%) Action plan monitoring committee conducts meeting every month and high-impact implementation issues resolved (Weightage: 30%)

КРІ	OUTCOME TARGETS (Weightage: 20%	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 1 (cont.): <u>Reliability</u> and <u>service quality</u> of electricity and piped gas supply industry	 Compliance to guaranteed service level (GSL) and minimum service level (MSL) increased and consumer complaints decreased (Weightage: 2%) 	5) Generation and transmission projects implementation monitoring	5) At least 1 progress audit conducted on every 6 generation projects and 10 transmission projects endorsed by JPPPET and high-impact implementation issues resolved (Weightage: 10%)
		6) Electricity and gas supply licensees service quality monitoring	6) Licensees service provisions complies to licence condition and stated KPIs (Weightage: 10%)

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 2: Safety in the supply and utilisation of electricity and piped gas (Weightage: 20%)	 Electrical: Total number of accidents reduced by at least 10% from 48 cases to 43 cases (Weightage: 6%) Minimum compliance rate to electrical and gas safety regulations increased by at least 13% from 66% to 75% (Weightage: 3%) Piped gas: No gas accident cases (Weightage: 3%) 	 Review of critirea and process to enable increase in the number of competent electrical and gas workforce with quality Enforcement activities increased 	 At least 17 training institutions audited and high-impact issues resolved (Weightage: 5%) Increase in the number of theory examinations from once a year to twice a year and practical examination backlog issue resolved (Weightage: 15%) At least 80 installation inspected/audited every month according to safety management checklist. (Weightage: 20%)

КРІ	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 2 (cont.): Safety in the supply and utilisation of electricity and piped gas	 Number of electrical high voltage competent persons increased by at least 5% from 9,583 persons to 10,060 persons (Weightage: 3%) Number of gas competent persons increased by at least 10% from 835 persons to 920 persons (Weightage: 2%) Safety management plan and program requirements implemented by licensees (Weightage: 3%) 	2) Enforcement activities increased (cont.)	2) All accident cases investigated in accordance to client charter, and control measures on high-impact risks are enforced at organizational and industry levels (Weightage: 25%) Legal action taken on all non- compliance cases (Weightage: 15%)

MRA

F.
КРІ	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 3: Energy efficiency in the utilisation of electricity (Weightage: 15%)	 Energy intensity decreased at least 2% from 0.127 GWh/ GDP to 0.124 GWh/ GDP (Weightage: 3%) Electricity usage under EMEER decreased at least 5% from 45,343 GWh to 43,076 GWh (Weightage: 6%) Market penetration rate for energy efficient electrical equipment is at least 50% (Weightage: 5%) Compliance rate on energy efficiency regulation increased 48% from 52% to 100% (Weightage: 6%) 	 Enforcement of EMEER 2008 increased NEEAP - RMK11 implemented 	 1) 10 premises are imposed with energy management audit every month and reparation steps implemented (Weightage: 20%) 2) 77 industrial premises, 30 commercial premises and 14 government premises are imposed with energy audit (Weightage: 10%) 14 government premises retrofitted with energy efficient equipment (Weightage: 10%) Guidelines on promotion of co- generation finalized before April 2016 (Weightage: 5%)

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 3 (cont.): Energy efficiency in the utilisation of electricity		3) Number of energy management work force with quality increased	3) At least one new institution for energy management training recognised (Weightage: 5%) Number of registered Electrical Energy Manager increased at least 20% from 647 persons to 800 persons (Weightage: 10%)
		4) Implementation of energy efficiency promotion campaign	 4) 13 EE roadshow programs held throughout the country according to schedule (Weightage: 15%) Implementation of EE Challenge for secondary schools in the peninsula according to schedule (Weightage: 5%)

 \square

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 4: Economic efficiency in electricity and piped gas industry (Weightage: 20%)	 Efficent electricity supply and Piped gas tariff in line with government policy is enforced (Weightage: 10%) Competition in electricity and piped gas market increased (Weightage: 4%) Overall performance of elecricity supply and piped gas industry increased (Weightage: 6%) 	 Operationalisation of Electricity Industry Fund (EIF) Implementation of IBR regulatory mechanism for electricity an piped gas tariff 	 EIF begins operation in June 2016 (Weightage: 5%) Trial-run IBR for GMB implemented from Jan 2016 and implementation issues resolved (Weightage: 5%) ICPT TNB and GCPT for GMB approved for implementation in July 2016 and January 2017 (Weightage: 10%) SESB tariff proposal based on IBR approved by government for implementation in January 2017 (Weightage: 5%) Cost reflective tariff implementation study finalized in December 2016 (Weightage: 5%)

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 4 (cont.): Economic efficiency in electricity and piped gas industry		3) Implementation of 'no-regrets' liberalisation initiatives and strengthening of governance for electricity supply and piped gas industry	 3) Phase 2 of NEDA begins operation in Jun 2016 (Weightage: 10%) Third-party access regulatory framework for piped gas presented in Parliament in March 2016 (Weightage: 10%) Gas Framework Agreement (GFA) issues resolved and GFA signed in June 2016 (Weightage: 5%) Competition guidelines for piped gas industry approved in May 2016 and for electricity industry in August 2016 (Weightage: 5%)

 Λ

Business Plan 2015-2020

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 4 (cont.): Economic efficiency in electricity and piped gas industry		4) Implementation of competitive process for procurement of new generation capacity	4) Guidelines for approval of Large Scale Solar (LSS) projects (Total capacity 250 MW) and Net Energy Metering (NEM) (Total capacity 100 MW) approved by minister and implemented beginning March 2016 (Weightage: 5%) Offer for 4 new capacity development projects with total 390MW in Sabah finalized according to schedule through competitive process (Weightage: 10%)
		5) Implementation of initiative to decrease non- technical losses	5) 10 high-impact dishonest usage of electricity cases investigated and legal action taken (Weightage: 5%)



KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 5: Organisational capacity and ST service quality (Weightage: 20%)	 ST revenue increased at least 5% from RM 79.5 million to RM 83.5 million (Weightage: 8%) The number and expertise of ST work force increased according to the current requirement (Weightage: 6%) ST customer satisfaction index increased at least 8% from 0.82 to 0.88 (Weightage: 6%) 	 Increased licensing and certification activities Implementation of planned training and development 	 Total fees collected from each licence type and certification increased at least 5% and investment profit increased from 6.8% in 2015 to 8% (Weightage: 5%) All executive and non-executive staff attend training and development programs based on ST work force training needs guide (Weightage: 3%) Training calendar program based on core competency requirements implemented from February 2016 (Weightage: 10%)

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 5 (cont.): Organisational capacity and ST service quality		2) Implementation of planned training and development (cont.)	Scholarship offer to staff for further study in related fields (Weightage: 2%)
		3) Implementation of program of workforce recruitment according to expertise requirement	3) Candidates interview according to schedule and all 29 vacancies filled before Jun 2016 (Weightage: 2%)
		4) Implementation of Business Process Re-engineering (BPR) initiative	 4) Process of issuance of public licenses and electrical equipment certifications receive ISO 9001 certification in June 2016 (Weightage: 2%) ST Service Recovery Centre created in September and no service interruptions on ST online system (Weightage: 2%)

R

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 5 (cont.): Organisational capacity and ST service quality		4) Implementation of Business Process Re-engineering (BPR) initiative (cont.)	Issuance of all licenses and certifications complying to ST client charter (Weightage: 3%) All complaints to ST investigated and resolved according to charter (Weightage: 10%)
		5) Implementation of Employee Engagement program	5) Staff consultation through <i>Majlis</i> <i>Bersama Jabatan</i> (MBJ) and Service Focus Group Discussion (SFGD) implemented from April 2016 (Weightage: 2%) Online Staff Newsletter published every two months (Weightage: 3%) ST family day held in October 2016 (Weightage: 3%)

MRA

Business Plan 2015-2020

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 5 (cont.): Organisational capacity and ST service quality		6) Implementation of outreach program and consultation for industry players and consumers	6) Number of media spots on energy smart practice in mass media increased 5% from 522 spots to 550 spots (Weightage: 5%) Number of seminars, workshop, dialog with industry and consumer associations for purpose of consultation, promotion of good practices and legal compliance increased by 5% from 182 to 191 sessions (Weightage: 10%) Energy Malaysia magazine published quarterly (Weightage: 3%)

KPI	OUTCOME TARGETS (Weightage: 20%)	INITIATIVES	OUTPUT TARGETS (Weightage: 80%)
KPI 5 (cont.): Organisational capacity and ST service quality		6) Implementation of outreach program and consultation for industry players and consumers (cont.)	A total of 24 codes and guidelines, and 12 statistical and energy industry outlook reports published (Weightage: 8%) 10 CSR projects implemented in Peninsula and Sabah according to schedule (Weightage: 3%)
		7) Implementation of budget for 2016 programs monitoring	7) Implementation of budget programs according to schedule and approved allocations (Weightage: 4%)

MRA

Phr 1

Client Charter

Appendix 1

ElectricityWorking Days- Private Licenses less than 5MW15- Renewal of Private Licenses less than 5MW3- Amendment to Installation Capacity less than 5MW3- Private Licenses 5MW and above60- Public Licenses less than 30MW60- Provisional Licenses30Piped GasWorking Days- Private Gas Licenses1- Renewal of Private Gas Licenses1- Gas Utility Licenses602. COMPETENCY CERTIFICATIONSoElectrical Competency (Private Candidates)Working Days- Public Notice on Written Examination Application30- Notice on Eligibility to Sit for Written Examination21- Notice of Certificate of Competency30- Notice of Cardidation of Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Notice on Written Examination Result21- Notification of Written Examination Result21 <th>1. LICENSES</th> <th></th>	1. LICENSES	
- Renewal of Private Licenses less than 5MW 3 - Amendment to Installation Capacity less than 5MW 3 - Private Licenses 5MW and above 60 - Public Licenses less than 30MW 60 - Provisional Licenses 30 Piped Gas Working Days - Private Gas Licenses 1 - Renewal of Private Gas Licenses 1 - Renewal of Private Gas Licenses 1 - Gas Utility Licenses 60 2. COMPETENCY CERTIFICATION Working Days Public Notice on Written Examination Application 30 - Notice on Eligibility to Sit for Written Examination 21 - Notification of Written Examination Result 30 - Issuance of Certificate of Competency 30 - Replacement of Damaged or Lost Certificate 14 - New Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 1 - Notifice on Written Examination Result 21 - Notifice on Written Examination Result 21 - New Registration and Renewal of Registration 30 - Notifice on Written Examination Result 21 - Notifice on Wri	Electricity	Working Days
Amendment to Installation Capacity less than 5MW 3 Amendment to Installation Capacity less than 5MW 3 Amendment to Installation Capacity less than 5MW 40 Public Licenses 5MW and above 40 blic Licenses less than 30MW 60 Provisional Licenses 30 Piped Gas Working Days Private Gas Licenses 1 Renewal of Private Gas Licenses 1 Gas Utility Licenses 60 COMPETENCY CERTIFICATION Electrical Competency (Private Candidates) Working Days Public Notice on Written Examination Application Notice on Eligibility to Sit for Written Examination Notice on Eligibility to Sit for Written Examination Subtification of Written Examination Result 30 Replacement of Damaged or Lost Certificate 14 New Registration as Competent Person 1 Renewal or Cancellation of Registration as Competent Person 1 Notice on Written Examination Result 30 Notice on Written Examination Result Subtification of Written Examination Replacement of Damaged or Lost Certificate 14 New Registration as Competent Person 1 Renewal or Cancellation of Registration as Competent Person 1 Notice on Written Examination Result 30 Notice on Written Examination Result 21 Notice on Written Examination Result 21 Notice on Written Examination Result 21 Notice on Written Examination 30 Notice on Written Examination Result 21 Notice on Written Examination Result New Registration and Renewal of Registration Notification of Written Examination Result New Registration and Renewal of Registration	- Private Licenses less than 5MW	15
Private Licenses SMW and above60Public Licenses less than 30MW60Provisional Licenses30Piped GasWorking DaysPrivate Gas Licenses1Renewal of Private Gas Licenses1Gas Utility Licenses602. COMPETENCY CERTIFICATIONWorking DaysPublic Notice on Written Examination Application30Notification of Written Examination Result30Notification of Written Examination Result30Notification of Vritten Examination Result30Notification as Competency (Private Candidates)Working DaysPublic Notice on Written Examination Result30Notification of Written Examination Result30Notification of Written Examination Result30Notification as Competent Person1Replacement of Damaged or Lost Certificate14New Registration as Competent Person30Notice on Written Examination Result30Notice on Written Examination Result30Notice on Written Examination Result21Net en on Written Examination Result21Notice on Written Examination Result21Notice on Written Examination Result21Notification of Written Examination Result21Notification of Written Examination Result21Notice on Eligibility to Sit for Written Examination30Notification of Written Examination Result21New Registration and Renewal of Registration1Working days differ the examination30	- Renewal of Private Licenses less than 5MW	3
Public Licenses less than 30MW60Provisional Licenses30Piped GasWorking DaysPrivate Gas Licenses1Renewal of Private Gas Licenses1Gas Utility Licenses60COMPETENCY CERTIFICATIONWorking DaysPublic Notice on Written Examination Application30Notification of Written Examination Result30Notification of Written Examination Result30Notification of Certificate of Competency30Replacement of Damaged or Lost Certificate14New Registration as Competent Person1Gas Competency30Notice on Written Examination Result30Notice on Cancellation of Registration as Competent Person1Renewal or Cancellation of Registration as Competent Person1Notice on Written Examination Result30Notice on Written Examination Result30Notice on Utiften Examination30Notice on Utiften Examination30Notice on Written Examination30Notification of Written Examination30Notification of Written Examination30Notification of Written Examination Result21Notification of Written Examination30Notification of Written Examination30 <td< td=""><td>- Amendment to Installation Capacity less than 5MW</td><td>3</td></td<>	- Amendment to Installation Capacity less than 5MW	3
Provisional Licenses 30 Piped Gas Working Days Private Gas Licenses 1 Renewal of Private Gas Licenses 1 Gas Utility Licenses 60 Description 60 <td>- Private Licenses 5MW and above</td> <td>60</td>	- Private Licenses 5MW and above	60
Piped GasWorking Days- Private Gas Licenses1- Renewal of Private Gas Licenses1- Gas Utility Licenses60COMPETENCY CERTIFICATIONWorking DaysPublic Notice on Written Examination Application30- Notice on Eligibility to Sit for Written Examination21- Notification of Written Examination Result30- Notification of Written Examination Result30- Notification as Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person30- Notice on Nitten Examination30- Notice on Eligibility to Sit for Written Examination30- Notice on Eligibility to Sit for Written Examination30- New Registration as Competent Person1- Notice on Nitten Examination30- Notice on Eligibility to Sit for Written Examination30- Notice on Eligibility to Sit for Written Examination30- Notice on Eligibility to Sit for Written Examination30- Notification of Written Examination Result21- New Registration and Renewal of Registration1- Working days before application closing dateWorking days offer poplication closing date- Working days offer poplication of practical examination result1- Working days offer poplication of practical examination result1- Working days offer the examination1- Working days offer interpexamination1 </td <td>- Public Licenses less than 30MW</td> <td>60</td>	- Public Licenses less than 30MW	60
Private Gas Licenses 1 Renewal of Private Gas Licenses 1 Gas Utility Licenses 60 2. COMPETENCY CERTIFICATION Morking Days Public Notice on Written Examination Application 30 Notice on Eligibility to Sit for Written Examination 21 Notification of Written Examination Result 30 Issuance of Certificate of Competency 30 Replacement of Damaged or Lost Certificate 14 New Registration as Competent Person 1 Renewal or Cancellation of Registration as Competent Person 30 Notice on Utitten Examination Result 30 Notice on Written Examination 30 New Registration as Competent Person 1 Renewal or Cancellation of Registration as Competent Person 30 Notice on Written Examination 30 Notice on Written Examination Result 21 New Registration and Renewal of Registration 1 Working days defere application closing date Working days after application closing date Working days differ application of practical examination result 1 Working days differ application of practical examination result 1 Worki	- Provisional Licenses	30
- Renewal of Private Gas Licenses 1 - Gas Utility Licenses 60 2. COMPETENCY CERTIFICATION Working Days - Public Notice on Written Examination Application 30 - Notice on Eligibility to Sit for Written Examination 21 - Notification of Written Examination Result 30 - Issuance of Certificate of Competency 30 - Replacement of Damaged or Lost Certificate 14 - New Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 30 - Notice on Written Examination Result 30 - Notice on Written Examination Result 30 - New Registration as Competent Person 1 - Notice on Written Examination 30 - Notice on Written Examination Result 21 - New Registration and Renewal of Registration 30 - Notification of Written Examination Result 21 - New Registration and Renewal of Registration 1 - Working days differ application closing date 9 - Working days differ notification of practical examination result 21 - New Registration and Renewal of Registration result 21 <	Piped Gas	Working Days
- Gas Utility Licenses 60 2. COMPETENCY CERTIFICATION Morking Days - Public Notice on Written Examination Application 30 - Notice on Eligibility to Sit for Written Examination 21 - Notification of Written Examination Result 30 - Replacement of Damaged or Lost Certificate 14 - New Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 30 - Notice on Written Examination Result 30 - Notice on Written Examination 30 - Renewal or Cancellation of Registration as Competent Person 1 - Notice on Written Examination 30 - Notice on Written Examination 30 - Notice on Written Examination Result 21 - New Registration and Renewal of Registration 30 - New Registration and Renewal of Registration 1 - Working days after application closing date 30 - Working days after application closing date 30 - Working days after notification of practical examination result 1 - Working days after motification of practical examination result 30 - Working days after the examination 1 <td>- Private Gas Licenses</td> <td>1</td>	- Private Gas Licenses	1
Section Working Days • Public Notice on Written Examination Application 30 • Notice on Eligibility to Sit for Written Examination 21 • Notification of Written Examination Result 30 • Suance of Certificate of Competency 30 • Replacement of Damaged or Lost Certificate 14 • New Registration as Competent Person 1 • Renewal or Cancellation of Registration as Competent Person 30 • Notice on Written Examination 30 • Notice on Written Examination 30 • Renewal or Cancellation of Registration as Competent Person 1 • Notice on Written Examination 30 • Notice on Written Examination 30 • Notice on Written Examination Result 21 • Now Registration and Renewal of Registration 30 • Notification of Written Examination Result 21 • New Registration and Renewal of Registration 1 • Working days after application closing date 9 • Working days after application closing date 9 • Working days after notification of practical examination result 1 • Working days after notification of practical examination result 1	- Renewal of Private Gas Licenses	1
Electrical Competency (Private Candidates)Working Days- Public Notice on Written Examination Application30- Notice on Eligibility to Sit for Written Examination21- Notification of Written Examination Result30- Issuance of Certificate of Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Notice on Written Examination30- Notice on Written Examination30- Notice on Uritten Examination30- Notice on Eligibility to Sit for Written Examination30- Notice on Written Examination Result21- New Registration and Renewal of Registration1- New Registration and Renewal of Registration1- New Registration and Renewal of Registration1- Working days after application closing date•• working days after notification of practical examination result1- Working days after notification of practical examination result21- New Registration and Renewal of Registration1- working days after notification of practical examination result1- Working days after notification of practical examination result2- Next Registration of practical examination result2- New Registration of practical examination result2- Working days after notification of practical examination result3- Working days after notification of practical examination result3- A	- Gas Utility Licenses	60
Electrical Competency (Private Candidates)Working Days- Public Notice on Written Examination Application30- Notice on Eligibility to Sit for Written Examination21- Notification of Written Examination Result30- Issuance of Certificate of Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Notice on Written Examination30- Notice on Written Examination30- Notice on Uritten Examination30- Notice on Eligibility to Sit for Written Examination30- Notice on Written Examination Result21- New Registration and Renewal of Registration1- New Registration and Renewal of Registration1- New Registration and Renewal of Registration1- Working days after application closing date•• working days after notification of practical examination result1- Working days after notification of practical examination result21- New Registration and Renewal of Registration1- working days after notification of practical examination result1- Working days after notification of practical examination result2- Next Registration of practical examination result2- New Registration of practical examination result2- Working days after notification of practical examination result3- Working days after notification of practical examination result3- A		
Public Notice on Written Examination Application 30 Notice on Eligibility to Sit for Written Examination 21 Notification of Written Examination Result 30 Issuance of Certificate of Competency 30 Replacement of Damaged or Lost Certificate 14 New Registration as Competent Person 1 Renewal or Cancellation of Registration as Competent Person 30 Notice on Written Examination 30 Notice on Written Examination 30 Notice on Written Examination 30 Notice on Eligibility to Sit for Written Examination 30 Notice on Eligibility to Sit for Written Examination 30 Notification of Written Examination Result 21 New Registration and Renewal of Registration 1 working days before application closing date 30 working days after application closing date 30 working days after notification of practical examination result 1 Scccreditation 1 Accreditation 1	2. COMPETENCY CERTIFICATION	
• Notice on Eligibility to Sit for Written Examination21• Notification of Written Examination Result30• Issuance of Certificate of Competency30• Replacement of Damaged or Lost Certificate14• New Registration as Competent Person1• Renewal or Cancellation of Registration as Competent Person1• Notice on Written Examination30• Notice on Written Examination30• Notice on Uritten Examination30• Notice on Eligibility to Sit for Written Examination30• Notification of Written Examination Result21• Notification of Written Examination Result21• New Registration and Renewal of Registration1• working days before application closing dateworking days after application of practical examination result• working days after application of practical examination resultS• Accreditation1• Accreditation1	Electrical Competency (Private Candidates)	Working Days
- Notification of Written Examination Result30- Issuance of Certificate of Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person30- Notice on Written Examination30- Notice on Written Examination30- Notice on Eligibility to Sit for Written Examination30- New Registration and Renewal of Registration1- New Registration and Renewal of Registration1- New King days before application closing date•• working days after the examination1• working days after of practical examination result• Statistication of practical examination result• Accreditation1• Accreditation•• Marking days after notification of practical examination result• Accreditation• Marking base• Marking base <tr< td=""><td>- Public Notice on Written Examination Application</td><td>30 🗖</td></tr<>	- Public Notice on Written Examination Application	30 🗖
- Issuance of Certificate of Competency30- Replacement of Damaged or Lost Certificate14- New Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Renewal or Cancellation of Registration as Competent Person1- Notice on Written Examination30- Notice on Eligibility to Sit for Written Examination30- Notification of Written Examination Result21- New Registration and Renewal of Registration1• working days before application closing date1• working days after application closing date1• working days after notification of practical examination result1 Stacted Distration Of Practical examination 1• Accreditation1• Korking days after notification of practical examination result1• Morking days after notification of practical examination result <td>- Notice on Eligibility to Sit for Written Examination</td> <td>21</td>	- Notice on Eligibility to Sit for Written Examination	21
- Replacement of Damaged or Lost Certificate 14 - New Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 1 Gas Competency Working Days - Notice on Written Examination 30 - Notice on Eligibility to Sit for Written Examination 30 - Notification of Written Examination Result 21 - New Registration and Renewal of Registration 1 • working days before application closing date • • working days after application closing date • • working days after notification of practical examination result 1 StactEDITATION OF TRAINING INSTITUTION FOR <u>ELECTRICAL AND GAS COMPETENCY</u> Morking Days	- Notification of Written Examination Result	30
- New Registration as Competent Person 1 - Renewal or Cancellation of Registration as Competent Person 1 Gas Competency Working Days - Notice on Written Examination 30 - Notice on Eligibility to Sit for Written Examination 30 - Notification of Written Examination Result 21 - New Registration and Renewal of Registration 1 • working days before application closing date 1 • working days after application of practical examination result 1 • working days after notification of practical examination result 1 • working days after notification of practical examination result 21 • Accreditation 1	- Issuance of Certificate of Competency	30 🗖
- Renewal or Cancellation of Registration as Competent Person1Gas CompetencyWorking Days- Notice on Written Examination30- Notice on Eligibility to Sit for Written Examination30- Notification of Written Examination Result21- New Registration and Renewal of Registration1• working days before application closing date1• working days after application closing date•• working days after the examination1• working days after notification of practical examination result• States after notification of practical examination result• Accreditation•Marking Days•• Marking Days•• Working days after notification of practical examination result• Working days after notification of practical examination result• Marking Days• Markin	- Replacement of Damaged or Lost Certificate	14
Gas CompetencyWorking Days- Notice on Written Examination30- Notice on Eligibility to Sit for Written Examination30- Notification of Written Examination Result21- New Registration and Renewal of Registration1• working days before application closing date1• working days after application closing date1• working days after notification of practical examination result1States after notification of practical examination resultCREEDITATION OF TRAINING INSTITUTION FOR ELECTRICAL AND GAS COMPETENCYAccreditationWorking Days	- New Registration as Competent Person	1
 Notice on Written Examination Notice on Eligibility to Sit for Written Examination Notification of Written Examination Result New Registration and Renewal of Registration working days before application closing date working days after application closing date working days after notification of practical examination result Accreditation 	- Renewal or Cancellation of Registration as Competent P	erson 1
 Notice on Eligibility to Sit for Written Examination Notification of Written Examination Result New Registration and Renewal of Registration working days before application closing date working days after application closing date working days after notification of practical examination result Sccreditation Morking Days 	Gas Competency	Working Days
 Notification of Written Examination Result New Registration and Renewal of Registration working days before application closing date working days after application closing date working days after notification of practical examination result 3. ACCREDITATION OF TRAINING INSTITUTION FOR <u>ELECTRICAL AND GASS COMPETENCE</u> Morking Days 	- Notice on Written Examination	30
 New Registration and Renewal of Registration working days before application closing date working days after application closing date working days after the examination working days after notification of practical examination result 3. ACCREDITATION OF TRAINING INSTITUTION FOR ELECTRICAL AND GAS COMPETENCY Morking Days	- Notice on Eligibility to Sit for Written Examination	30
 working days before application closing date working days after application closing date working days after the examination working days after notification of practical examination result 3. ACCREDITATION OF TRAINING INSTITUTION FOR ELECTRICAL AND GAS COMPETENCY Accreditation Working Days	- Notification of Written Examination Result	21
 working days after application closing date working days after the examination working days after notification of practical examination result 3. ACCREDITATION OF TRAINING INSTITUTION FOR ELECTRICAL AND GAS COMPETENCY Accreditation Working Days 	- New Registration and Renewal of Registration	1
ELECTRICAL AND GAS COMPETENCY Accreditation Working Days	working days after application closing date working days after the examination	
Accreditation Working Days		FOR
	ELECTRICAL AND GAS COMPETENCY	
- Approval as an Accredited Institution 60	Accreditation	Working Days
	- Approval as an Accredited Institution	60



Client Charter

Electrical EquipmentWorking Days- Certificate of Approval (COA) to Import, Manufacture, Display, Sell or Advertise5- Renewal of COA1- Transfer of COA5- Change of Name or Business Address in COA1Gas EquipmentWorking Days- Approval to Manufacture of Import5- Renewal of Name or Business Address1- Change of Name or Business Address1- New Registration15- Renewal of Registration15- Renewal of Registration3- Cancellation of Registration1- Cancellation of Registration1- Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7- KEGISTRATION OF CONTRACTORS3Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- New Registration2- Renewal of	4. EQUIPMENT APPROVAL	
Display, Sell or AdvertiseRenewal of COA1Transfer of COA5- Change of Name or Business Address in COA1Gas EquipmentWorking Days- Approval to Manufacture of Import5- Approval to Manufacture or Import1- Change of Name or Business Address1- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Install5- Approval to Install5- Approval to Operate75. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Reinstatement to the Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration<	Electrical Equipment	Working Days
- Transfer of COA 5 - Change of Name or Business Address in COA 1 Gas Equipment Working Days - Approval to Manufacture of Import 5 - Approval of Equipment 5 - Renewal to Manufacture or Import 1 - Change of Name or Business Address 1 5. REGISTRATION OF INSTALLATIONS 1 Electrical Installations Working Days - New Registration 3 - Capacity Amendment and Transfer of Certificate of Registration 3 - Cancellation of Registration 1 Piped Gas Installations Working Days - Approval to Install 5 - Approval to Install 5 - Approval to Operate 7 6. REGISTRATION OF CONTRACTORS S Electrical Contractors Working Days - New Registration, Cancellation and Reinstatement to the Register 3 - Renewal of Registration 1 - Changes in Class of Registration and Relevant Information 3 - Renewal of Registration 1 - Changes in Class of Registration and Relevant Information 3 - New Registration		5
- Change of Name or Business Address in COA1Gas EquipmentWorking Days- Approval to Manufacture of Import5- Approval of Equipment5- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7Ó. REGISTRATION OF CONTRACTORSWorking Days- Approval to Operate3- Renewal of Registration1- Cancellation of Registration1- Changes in Class of Registration1- New Registration, Cancellation and Reinstatement to the Registration3- New Registration1- New Registration2- Renewal of Registration2- New Registration2- New Registration2- New Registration2- Renewal o	- Renewal of COA	1
Gas EquipmentWorking Days- Approval to Manufacture of Import5- Approval of Equipment5- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7S. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Reinstatement to the Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Operate7S. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Relevant Information3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3- Renewal of Registration2- New Registration2- New Registration2- New Registration2- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration<	- Transfer of COA	5
- Approval to Manufacture of Import5- Approval of Equipment5- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate75. REGISTRATION OF CONTRACTORS3Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration	- Change of Name or Business Address in COA	1
- Approval of Equipment5- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate75. REGISTRATION OF CONTRACTORS3Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Registration3- New Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- New Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration <td>Gas Equipment</td> <td>Working Days</td>	Gas Equipment	Working Days
- Renewal to Manufacture or Import1- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate75. REGISTRATION OF CONTRACTORS3Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- New Registration2- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Registration2- Registration2- Registration2- Registration2 <td>- Approval to Manufacture of Import</td> <td>5</td>	- Approval to Manufacture of Import	5
- Change of Name or Business Address15. REGISTRATION OF INSTALLATIONSElectrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate76. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- New Registration2- Renewal of Registration2- Registration2- Registration2- Registration2- Registration <td>- Approval of Equipment</td> <td>5</td>	- Approval of Equipment	5
S. REGISTRATION OF INSTALLATIONS Electrical Installations Working Days - New Registration 15 - Renewal of Registration 3 - Capacity Amendment and Transfer of Certificate of Registration 1 - Cancellation of Registration 1 - Cancellation of Registration 1 Piped Gas Installations Working Days - Approval to Install 5 - Approval to Operate 7 S. REGISTRATION OF CONTRACTORS Working Days - New Registration, Cancellation and Reinstatement to the Register 3 - New Registration 1 - Changes in Class of Registration and Relevant Information 3 Piped Gas Contractors Working Days - New Registration 2 - Renewal of Registration 2 - Renewal of Regis	- Renewal to Manufacture or Import	1
Electrical InstallationsWorking Days- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7C. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- New Registration2- New Registration2- New Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- Registration2- Registration2- Registration2- Registration2 </td <td>- Change of Name or Business Address</td> <td>1</td>	- Change of Name or Business Address	1
- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate76. REGISTRATION OF CONTRACTORSElectrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- Registration <td>5. REGISTRATION OF INSTALLATIONS</td> <td></td>	5. REGISTRATION OF INSTALLATIONS	
- New Registration15- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate76. REGISTRATION OF CONTRACTORSElectrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- Renewal of Registration2- Registration <td></td> <td>Working Dave</td>		Working Dave
- Renewal of Registration3- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7 6. REGISTRATION OF CONTRACTORS SElectrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2 </td <td></td> <td></td>		
- Capacity Amendment and Transfer of Certificate of Registration3- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate76. REGISTRATION OF CONTRACTORSElectrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Registration2 <t< td=""><td></td><td></td></t<>		
Registration1- Cancellation of Registration1Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate76. REGISTRATION OF CONTRACTORSElectrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Registration2- Registration2- Registration2- Registration2- Registration2- Regi		-
Piped Gas InstallationsWorking Days- Approval to Install5- Approval to Operate7C. REGISTRATION OF CONTRACTORSWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- New Registration2- Renewal of Registration <td></td> <td>3</td>		3
- Approval to Install5- Approval to Operate7 6. REGISTRATION OF CONTRACTORS Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration2- New Registration2- New Registration2- Renewal of Registration2- Registration2- Renewal of Registration2- Registration3- Registration3 <td>- Cancellation of Registration</td> <td>1</td>	- Cancellation of Registration	1
- Approval to Operate 7 6. REGISTRATION OF CONTRACTORS Electrical Contractors Working Days - New Registration, Cancellation and Reinstatement to the Register 3 - Renewal of Registration 1 - Changes in Class of Registration and Relevant Information 3 Piped Gas Contractors Working Days - New Registration 2 - Renewal of Registration 2 - New Registration 2 - Renewal of Registration 2 - New Registration 2 - Renewal of Registration 2 - Renewal of Registration 2 - Renewal of Registration 2 - Registration 2	Piped Gas Installations	Working Days
Sector Working Days • New Registration, Cancellation and Reinstatement to the Register 3 • Renewal of Registration 1 • Changes in Class of Registration and Relevant Information 3 Piped Gas Contractors Working Days • New Registration 2 • Renewal of Registration 2 • New Registration 2 • New Registration 2 • New Registration 2 • Renewal of Registration 2 • New Registration 2 • Renewal of Registration 2 • Registration 2 • Registration 2	- Approval to Install	5
Electrical ContractorsWorking Days- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2- Renewal of Registration2- New Registration2- Renewal of Registration2- Registration3- Registration3- Registration3- Registration3- Registration3- Registration3- Registration3- Registration3- Registration3<	- Approval to Operate	7
- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2Working Days2- Renewal of Registration2- Registration2- Registration2- Registration2- Registration2	6. REGISTRATION OF CONTRACTORS	
- New Registration, Cancellation and Reinstatement to the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration2Working Days2- Registration2- Registration2- Registration2- Registration2- Registration2- Registration2- Registration2- Registration2- Registration2- Registration2		
the Register3- Renewal of Registration1- Changes in Class of Registration and Relevant Information3Piped Gas ContractorsWorking Days- New Registration2- New Registration2- Renewal of Registration27. REGISTRATION OF ELECTRICAL ENERGY MANAGERRegistrationWorking Days		Working Days
- Changes in Class of Registration and Relevant Information 3 Piped Gas Contractors Working Days - New Registration 2 - Renewal of Registration 2 7. REGISTRATION OF ELECTRICAL ENERGY MANAGER Registration Working Days		3
Piped Gas ContractorsWorking Days- New Registration2- Renewal of Registration27. REGISTRATION OF ELECTRICAL ENERGY MANAGERRegistrationWorking Days	- Renewal of Registration	1
- New Registration 2 - Renewal of Registration 2 7. REGISTRATION OF ELECTRICAL ENERGY MANAGER Registration Working Days	- Changes in Class of Registration and Relevant Information	3
- Renewal of Registration 2 7. REGISTRATION OF ELECTRICAL ENERGY MANAGER Registration Working Days	Piped Gas Contractors	Working Days
7. REGISTRATION OF ELECTRICAL ENERGY MANAGER Registration Working Days	- New Registration	2
Registration Working Days	- Renewal of Registration	2
	7. REGISTRATION OF ELECTRICAL ENERGY MAN	AGER
	Registration	Working Days
		45

Suruhanjaya Tenaga's Offices

Headquarters No. 12, Jalan Tun Hussein Precinct 2, 62100, Putrajaya

Regional Offices



Pejabat Kawasan Negeri Selangor, WP Kuala Lumpur, dan Putrajaya (SWPKLP) Tingkat 10, Menara PKNS No. 17, Jalan Yong Shook Lin 46050, Petaling Jaya SELANGOR



Pejabat Kawasan Negeri Perak (PRK)

Tingkat 1, Bangunan KWSP Jalan Green Town 30450, Ipoh, Perak

Pejabat Kawasan Negeri Pulau Pinang,

Perlis & Kedah (PPPK)

Tingkat 10, Bangunan KWSP, 13700 Seberang Jaya, PULAU PINANG

Pejabat Kawasan Negeri Kelantan &

Terengganu (KT)

Tingkat 6, Bangunan KWSP Jalan Padang Garong, 15000 Kota Bharu, KELANTAN

Pejabat Kawasan Negeri Pahang (PHG)

Tingkat 7, Kompleks Teruntum, Jalan Mahkota, 25000 Kuantan, PAHANG

Pejabat Kawasan Negeri Johor (JHR)

Suite 18A, Aras 18, Menara Ansar, No. 65, Jalan Trus, 80000 Johor Bahru, JOHOR

Pejabat Kawasan Negeri Sembilan dan

Melaka (NSM)

Tingkat 3, Wisma Perkeso, Jalan Persekutuan,MITC, 75450 Ayer Keroh, MELAKA

Pejabat Kawasan Pantai Timur Negeri Sabah (PTS)

Tingkat 3, Wisma Saban, Km 12, Jalan Labuk, W.D.T. No 25, 90500 Sandakan, SABAH

Pejabat Kawasan Pantai Barat Negeri Sabah (PBS)

Tingkat 7, Wisma BSN Sabah, Jalan Kemajuan, Karamunsing 88000 Kota Kinabalu, SABAH

Suruhanjaya Tenaga (Energy Commission)

No. 12, Jalan Tun Hussein,Precinct 2, 62100, Putrajaya, Malaysia.

Tel: (603) 8870 8500 Fax: (603) 8888 8637 Tol Free No.: 1-800-2222-78 (ST)

www.st.gov.my