

ENERGY COMMISSION LICENSING REQUIREMENT

**LICENSING UNIT,
ELECTRICITY INDUSTRY DEVELOPMENT &
MARKET REGULATION**

SEDA WORKSHOP WITH MPIA, 25 SEPTEMBER 2017

CHAIRMAN
(Dato' Abdul Razak b. Abdul Majid)

CHIEF PERFORMANCE OFFICER
(Ir. Ahmad Nornadzmi b. Datuk Dr. Dzulkarnain)

LEGAL
(Shahrilnazim b. Shaari)

ACTING CHIEF EXECUTIVE OFFICER
(Ir Azhar b. Omar)

COMMISSION SECRETARY
(Azidah bt. Abdul Aziz)

INTERNAL AUDIT
(Khairul Nizam b. Anuar)

ELECTRICITY INDUSTRY DEVELOPMENT AND MARKET REGULATION
(Ir. Azhar b. Omar)

LICENSING
(Vacant)

CAPACITY DEVELOPMENT
(Nurhafiza bt. Mohamed Hassan)

INDUSTRY DEVELOPMENT
(Azimah bt. Abdul Aziz)

MARKET OPERATION
(Mohd Rizal b. Ramli)

ELECTRICITY PRICING
(Marlinda bt. Mohd Rosli)

NEW PROJECT
(Alwi b. Ab Rahman)

ENERGY MANAGEMENT AND SERVICE QUALITY DEVELOPMENT
(Ir. Abdul Rahim b. Ibrahim)

DEMAND SIDE MANAGEMENT
(Zulkiflee b. Umar)

MALAYSIA ENERGY INFORMATION HUB
(Datin Noor Aizah bt. Hj Abdul Karim)

QUALITY OF SUPPLY AND SERVICES
(Ruzaida bt. Daud)

EXTERNAL RELATIONS AND CONSUMER AFFAIRS
(Zul Azri b. Hamidon)

REGIONAL OPERATION AND ENFORCEMENT
(Ir. Md Zakuan b. Ibrahim)

ENFORCEMENT
(Ir. Shafie b. Mohamed)

INVESTIGATION
(Mohd Nawawi b. Hj Said Abdullah)

PROSECUTION
(Wan Ahmad Kamal b. Wan Abdul Malik)

ELECTRICAL SAFETY REGULATION
(Mohd Elmi b. Anas)

ELECTRICAL COMPETENCY
(Vacant)

ELECTRICAL EQUIPMENT
(Ir. Fairus bt. Abd Manaf)

ELECTRICAL SAFETY DEVELOPMENT
(Iffah Hannah bt. Muluk)

GAS DEVELOPMENT AND REGULATION
(Ir. Roslee b. Esman)

GAS LICENSING
(Nor Azman b. Meli)

GAS COMPETENCY
(Azlan b. Mohamed Nor)

GAS SAFETY
(Shamsuddin b. Arshad)

GAS TARIFF DEVELOPMENT
(Asmayati bt. Ab Manan)

GAS MARKET DEVELOPMENT AND OPERATION
(Rumaizi b. Abdul Halim)

CORPORATE SERVICES
(Asma Aini bt. Mohd Nadzri)

FINANCE
(Rohana bt. Md Zin)

HUMAN RESOURCE AND PERFORMANCE MANAGEMENT
(Mohd Izmal b. Ismail)

ADMINISTRATION & FACILITIES MANAGEMENT
(Hamidah bt. Abdul Rashid)

KNOWLEDGE MANAGEMENT & TECHNOLOGY
(Khairol Fahami b. Ismail)

PROMOTION AND COMMUNICATION
(Siti Suhaila bt. Ahmad)

PROCUREMENT
(Zarina bt. Mohd Noor)

TRAINING & DEVELOPMENT
(Vacant)

ELECTRICITY INDUSTRY FUND
(Kauthar bt. Mohd Yusof)

REGIONAL OFFICES

NEGERI SEMBILAN DAN MELAKA
(Ir. Nur Ali Za b. Omar)

SELANGOR, W.P KL & PUTRAJAYA
(Ir. Md Rasdi b. Abdullah)

JOHOR
(Ir. Idris b. Jamaludin)

PULAU PINANG, KEDAH & PERLIS
(Ismail Zaili b. Yusop)

PERAK
(Muhammad Sharul 'Azam b. Abdul Rahim)

PAHANG
(Che Aziz b. Abdullah)

KELANTAN DAN TERENGGANU
(Nora bt. Ab Ghani)

SABAH
PANTAI BARAT
(Nazlin bt. Ab Alin Sidiki)

PANTAI TIMUR
(Mohd Yusrul b. Yusof)

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

C&E

I&P

Note:
C&E: Certification and Enforcement
I&P: Investigation and Prevention

PRESENTATION OUTLINE



ACT, REGULATIONS & GUIDELINES



LICENCE APPLICATION PROCESS



LICENCE CONDITIONS

PRESENTATION OUTLINE



ACT, REGULATIONS & GUIDELINES



LICENCE APPLICATION PROCESS



LICENCE CONDITIONS

COMPLIANCE TO LEGISLATION

ACT

- Section 9 (new 2A, 2B & 2C)
- Section 9B
- Section 9D
- Section 23
- Section 33C
- Section 37
- Section 50E
- Section 54

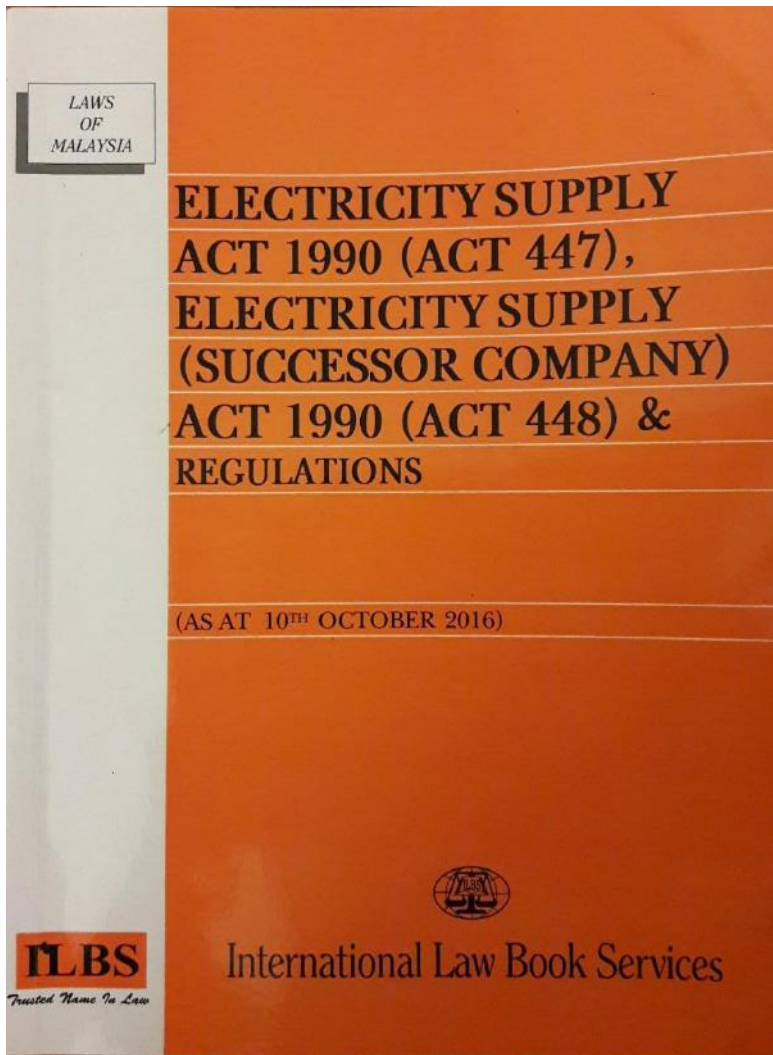
REGULATIONS

- Regulation 8
- Regulation 9
- Regulation 10
- Regulation 30
- Regulation 60-70

GUIDELINES

- Section 50C
- Guidelines Under Section 9
- Guidelines on SELCO
- Guidelines on NEM

COMPLIANCE TO LEGISLATION – ELECTRICITY SUPPLY ACT 1990 (AMENDMENT 2015)



Section 9 (new 2A, 2B & 2C)

Licence required for use of installation

- 2A – surcharge for late payment
- 2B – grant a licence, 2C – codes, guidelines any installation

Section 9B

Requirement on licensing

- Licensee fail to comply Act, subsidiary legislation or licence condition. Contravention is an offence

Section 9D

Proper annual accounts by licensee

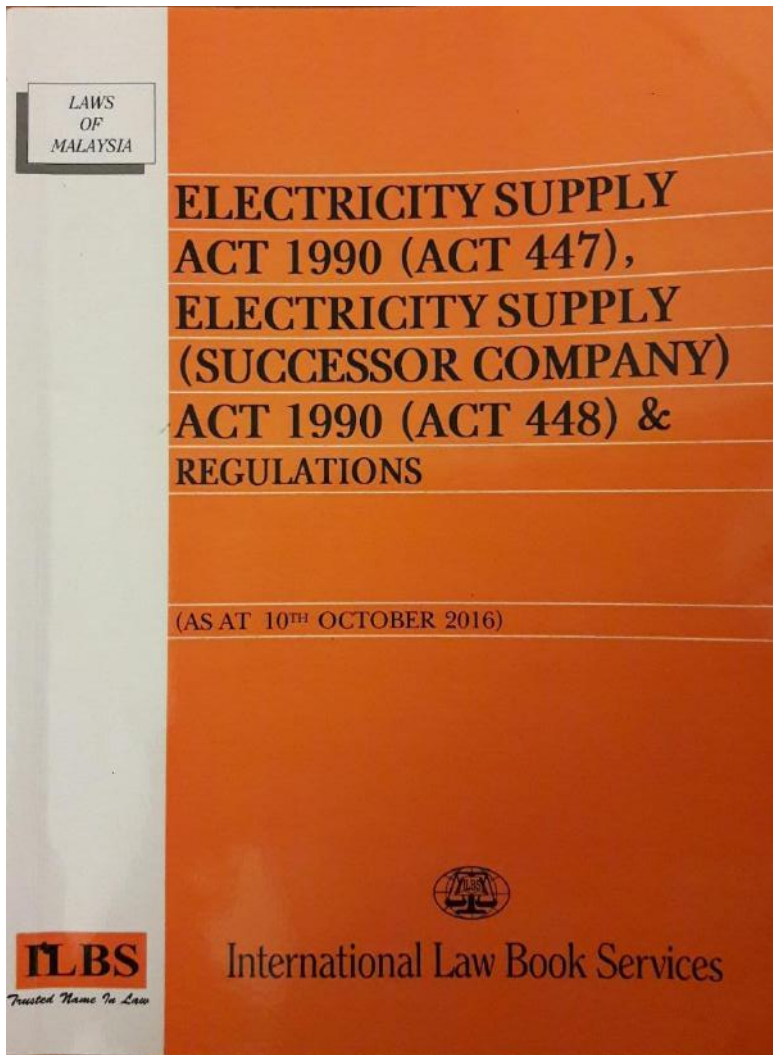
- Proper annual accounts by licensee

Section 23

Persons in charge

- Competent control
- Fine not \leq RM10k + \leq RM1k/day

COMPLIANCE TO LEGISLATION – ELECTRICITY SUPPLY ACT 1990 (AMENDMENT 2015)



Section 33C

Undertaking electrical work

- Person who undertakes electrical work ensure that comply to Act and not cause injury/damage

Section 37

Offences

- 37(4) – w/o private licence, fine <RM50k + RM1k/day
- 37(5) – w/o public licence, fine <RM100k + RM1k/day

Section 50E

Offence for non-compliance

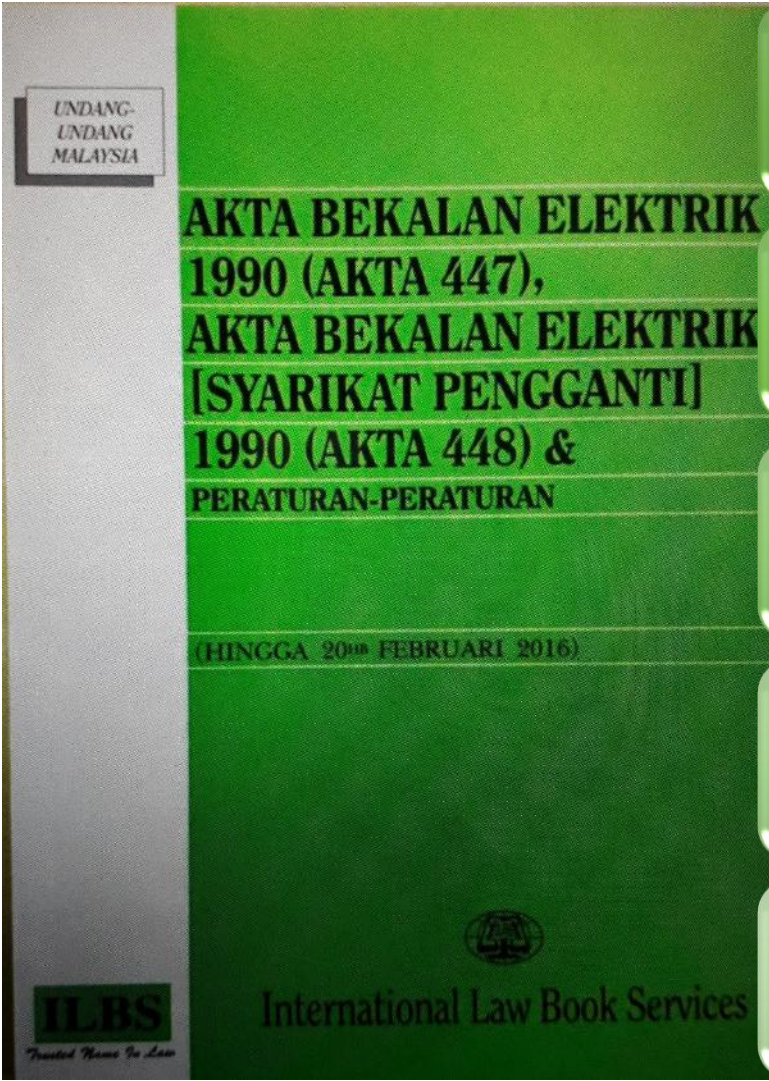
- Fails to comply with any codes, guidelines or directions
- A fine \leq RM200k or imprisonment or both

Section 54

Exemptions

- Private licence <5kW
- Solar PV \leq 24kW 1phase, \leq 72kW 3phase

COMPLIANCE TO LEGISLATION – ELECTRICITY REGULATIONS 1994



Regulation 8

- Licence for public installation such as generation, transmission & distribution, fit, lss

Regulation 9

- Licence for private installation such as cogen, selco

Regulation 10

- Fee for public or private installation

Regulation 30

- Owner, occupier or management of the installation to make adjustments or alterations

Regulation 60-70

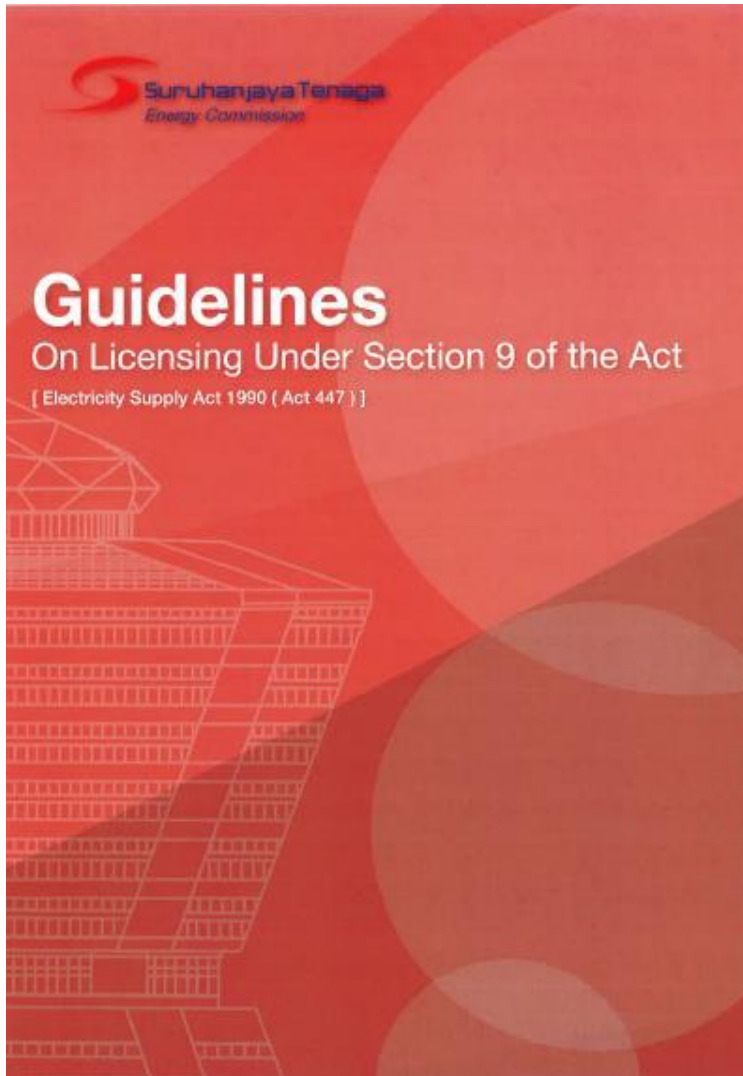
- Competent Person
 - Categories, registration & duties

REGULATION 10 ELECTRICITY REGULATIONS 1994, FEE FOR PUBLIC OR PRIVATE INSTALLATION.

TYPES OF ACTIVITIES		FEES PER YEAR (RM)		
		GENERATION	TRANSMISSION	DISTRIBUTION
Public Licence	Before COD	RM 0.011/kW		
	After COD	RM 1.65/kW	RM 0.33/kW	RM 0.44/kW
Renewable Energy	Before COD	RM 0.011/kW (minimum RM 100)		
	After COD	RM 1.65/kW (maximum RM 2,200 for capacity ≤ 5 MW)		
Provisional Licence	Before COD	RM 0.011/kW RM 100 (minimum fee)		
Processing Fee of RM 100.00 for each application Amendment or Replace ; RM100.00				
Private Licence	Installation capacity above 600kW to 5MW	RM 2,200.00		
	Lebih 5MW	RM 3,000.00		

GUIDELINES ON LICENSING UNDER SECTION 9, ELECTRICITY SUPPLY ACT 1990

dated: 25 AUGUST 2016



Purpose Of These Guidelines

Describe the procedures and requirements that shall be complied by the applicant in the submission of the application for licence under Section 9 of the Act. Submission of applications shall be made at the following offices;

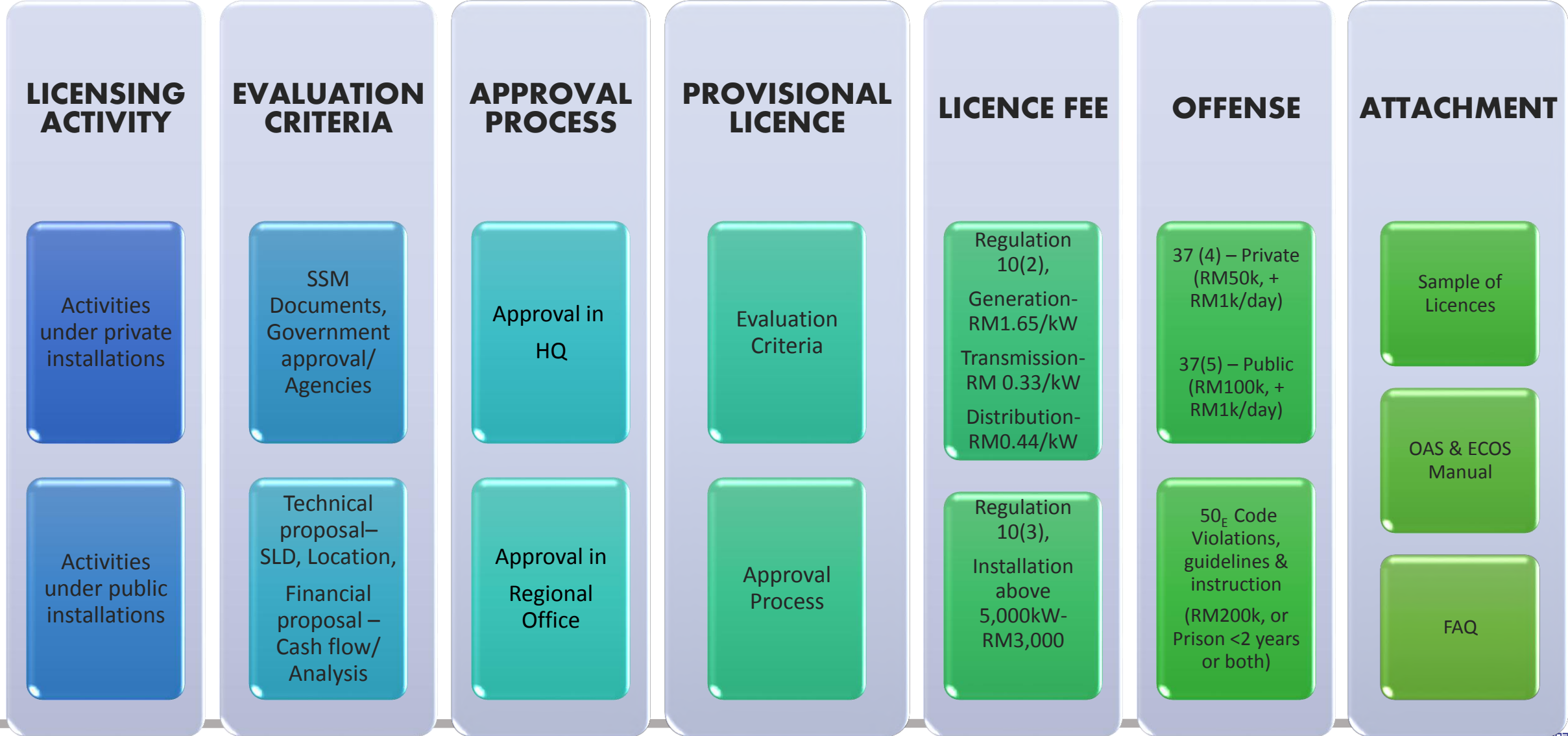
- i) Main Office; and***
- ii) Regional Office***

Application Of These Guidelines

Any person or company who use, work or operate any electrical installation or supply to or for the use of any other person from any electrical installation

GUIDELINES ON LICENSING UNDER SECTION 9, ELECTRICITY SUPPLY ACT 1990

Guidelines Content



GUIDELINES ON THE CONNECTION OF SOLAR PV INSTALLATION FOR SELF-CONSUMPTION

dated: 19 APRIL 2017

Guidelines

On The Connection Of Solar Photovoltaic Installation For Self-Consumption

Purpose Of These Guidelines

Describe the registration procedures, the specification and requirements of solar PV system installation for self-consumption that shall be complied by any person who uses, works, operates or installs such installation

Application of these Guideline

- i. any person who uses, works or operates any solar PV generating facility for self-consumption and indirect connection to the licensee distribution network in Peninsular Malaysia and Sabah;***
- ii. the relevant Distribution Licensee (DL), whose network is to be connected with the self-consumption solar PV generating facility***

GUIDELINES ON THE CONNECTION OF SOLAR PV INSTALLATION FOR SELF-CONSUMPTION

Guidelines Content

ELECTRICAL CONTRACTOR & CONSUMER OBLIGATION

- The registered Electrical Contractor responsible to;
 1. Establish consumer electrical loads over an average day using load analysis
 2. Determine type of panels, size of module, inverter and location
 3. Advice on local planning authority & building permits requirement

- Consumer responsibilities includes;
 1. Learning basic safe operation
 2. Maintenance of the system

TECHNICAL REQUIREMENTS

- a) Installed Capacity
 - Stand-alone: no capacity limit
 - Non-stand-alone: 75% of MD
- b) Plan & Design
 - Qualified Electrical Contractor for design interconnect
 - PSS requirement [analysis load flow, short circuit, 2 scenarios w & w/o RE max & min load]

- c) Connection Requirement;
 - ensure no electricity generation export
- d) Testing & Commissioning
 - Submission of Form G & H
 - Secure landlord permission

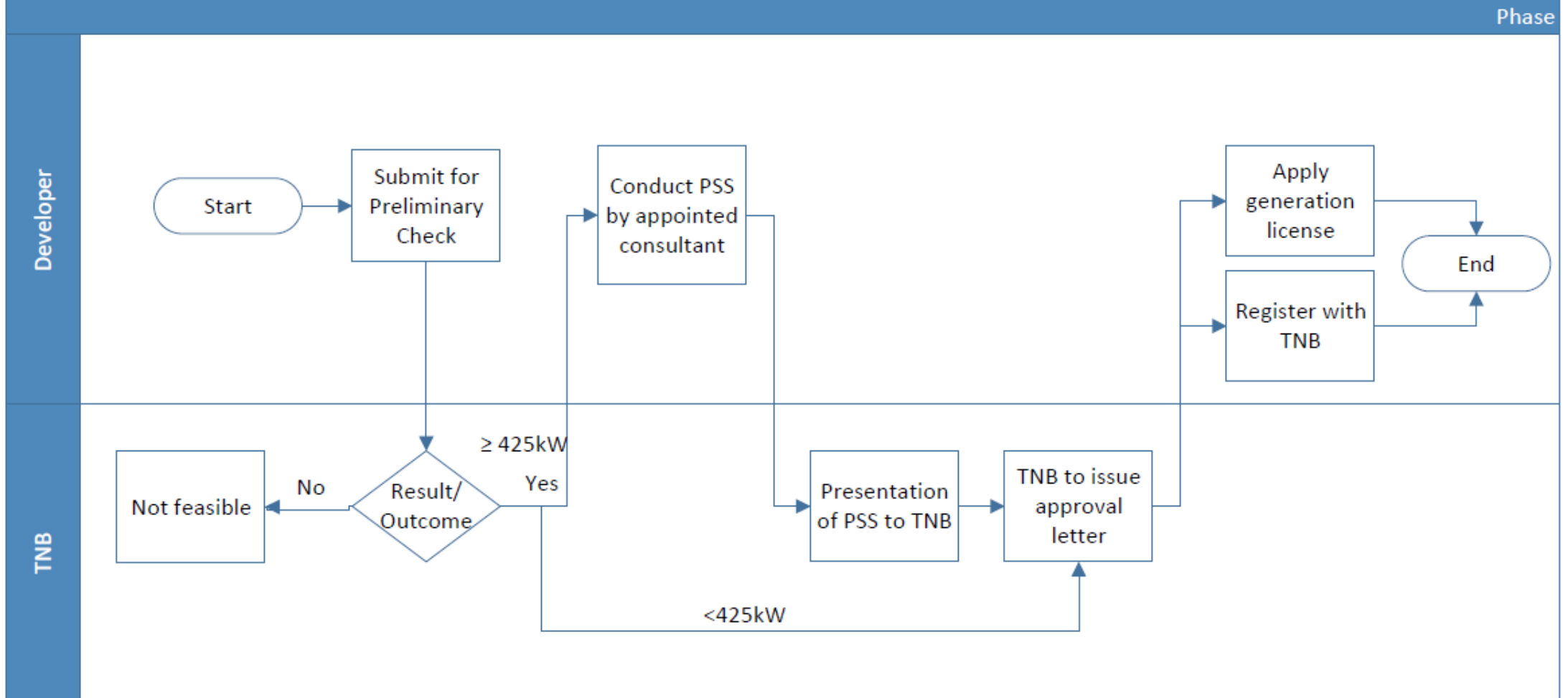
OTHERS

- Compliance with government policies & laws
- Licensing requirements
- Registration of the installation with DL

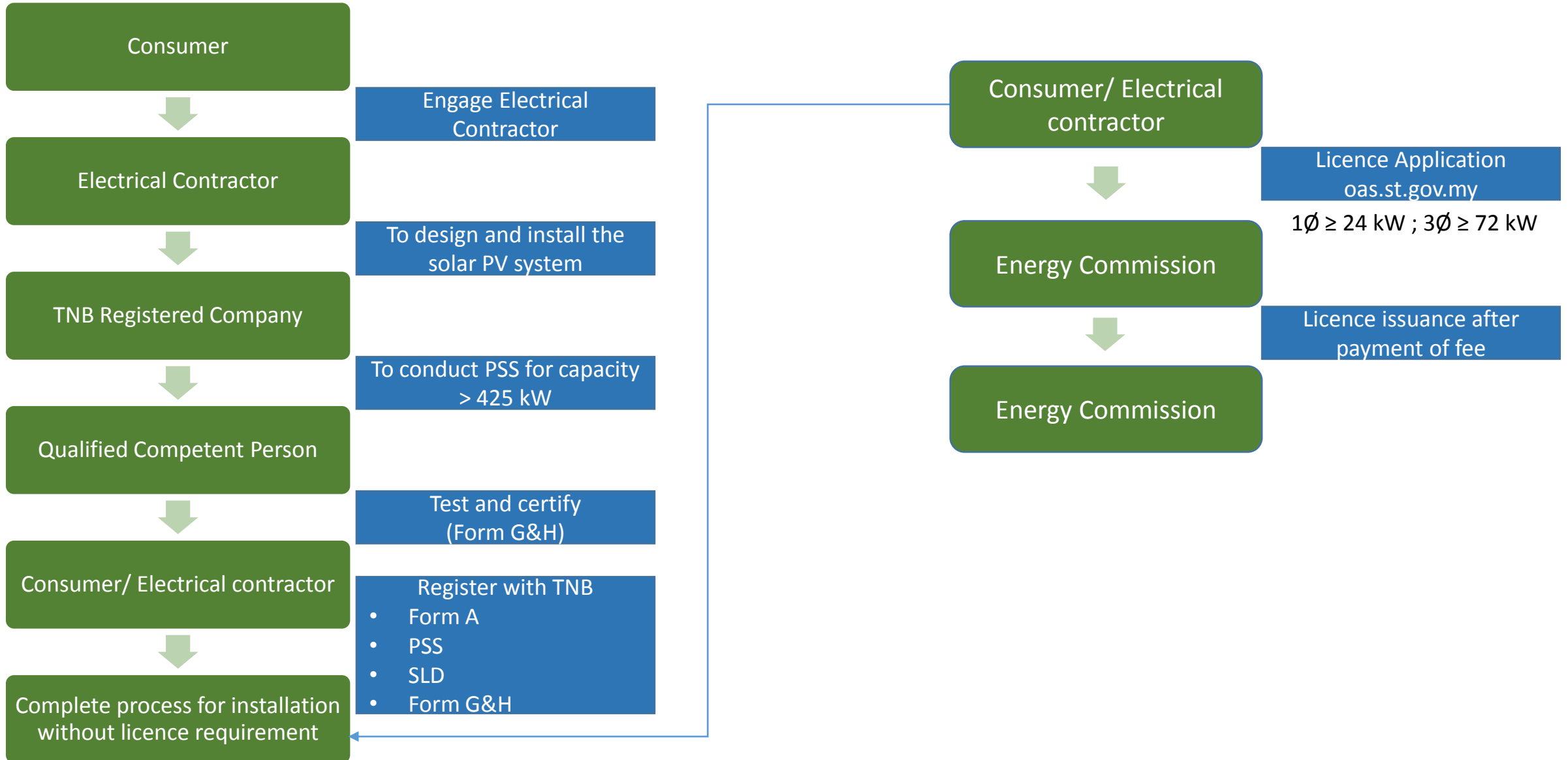
- Connecting to grid NEM Scheme
- Provision of information to Commission
- Suspension

TNB PROCESS FLOW

Self Consumption Process Flow

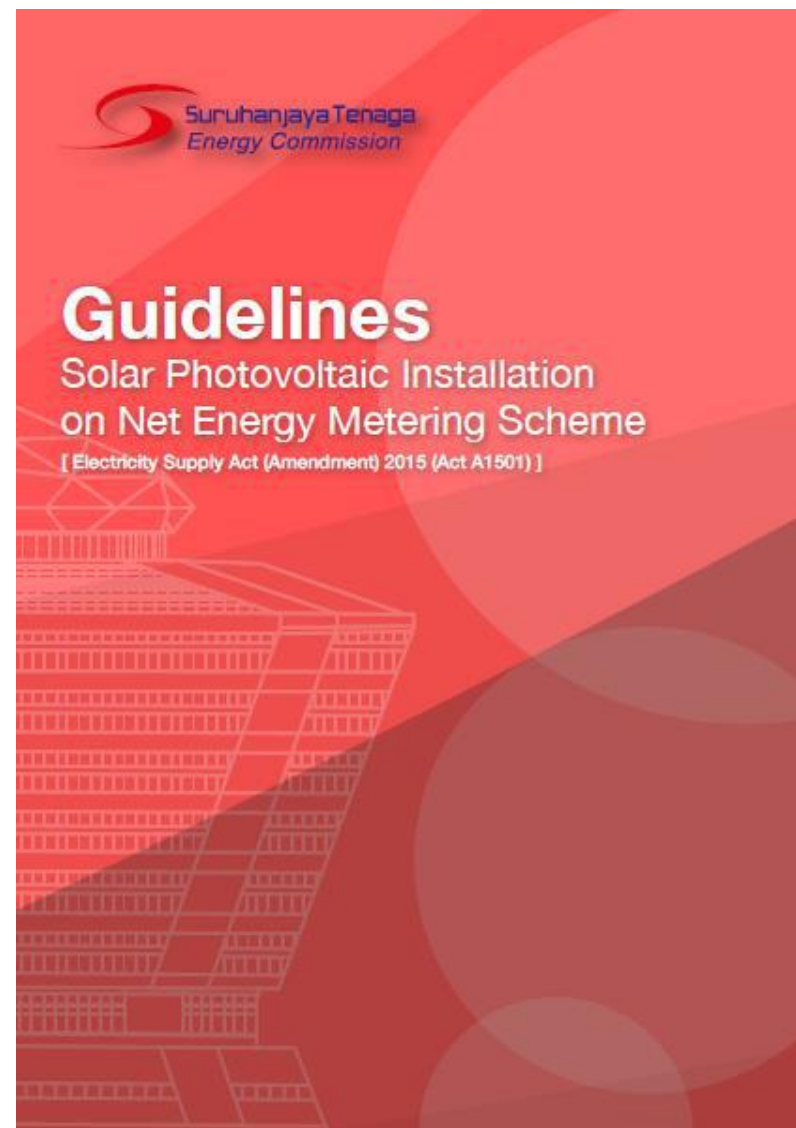


Process Flow Chart



GUIDELINES SOLAR PV INSTALLATION ON NET ENERGY METERING SCHEME

dated: 30 SEPTEMBER 2016



Application Of These Guidelines

- i) Any person seeking approval for installing solar PV generating facility via INDIRECT connection to DL through NEM Scheme;***
- ii) Existing solar PV installed before NEM Scheme;***
- iii) DL whose network connected with NEM consumer;***
- iv) IA appointed by Commission to implement & administer the NEM Scheme.***

PRESENTATION OUTLINE

ACT, REGULATIONS & GUIDELINES

LICENCE APPLICATION PROCESS

LICENCE CONDITIONS

GUIDELINES ON LICENSING UNDER SECTION 9, ELECTRICITY SUPPLY ACT 1990

OAS

oas.st.gov.my

Processed at Energy Commission HQ

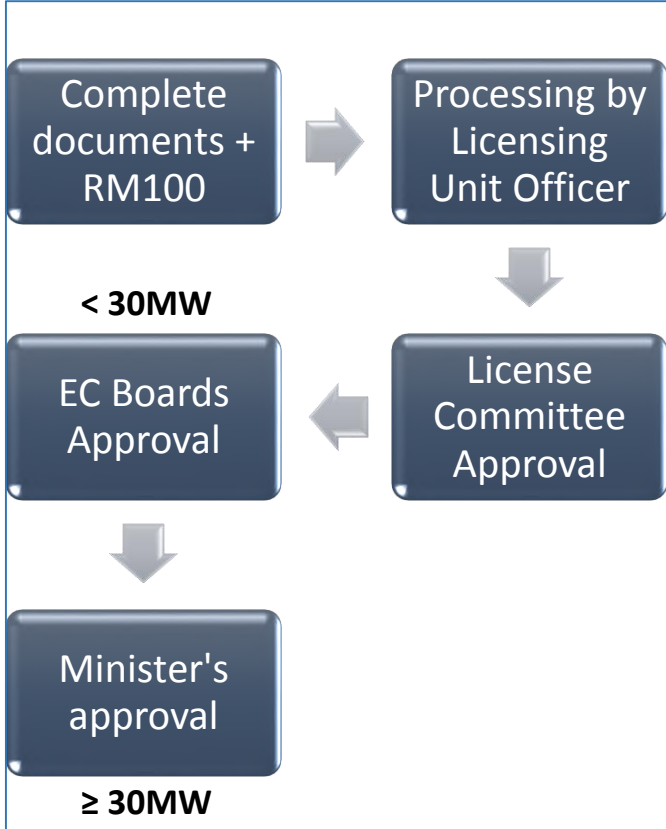
License for Public Installation:

- Generation
- Transmission
- Distribution
- Retails

License for private installation with capacity 5 MW and above:

- Generation for own consumption

Provisional License
(CEO Approval, Charter = 30 days)



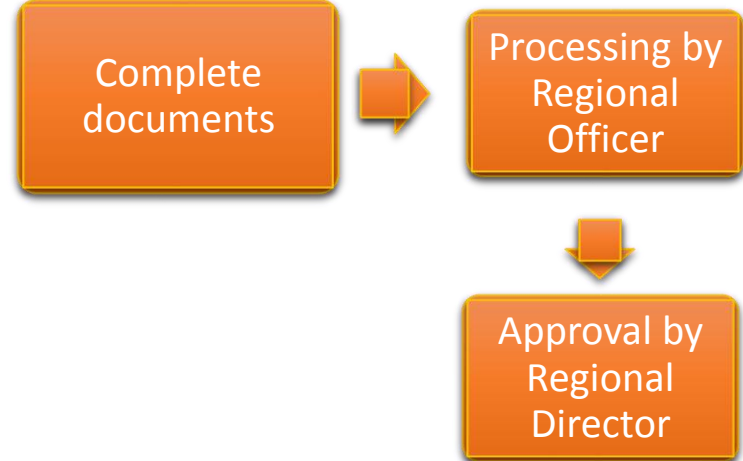
Client Charter: 60 working days



ecos.st.gov.my

Processed at EC Regional Office

Private Licence capacity less than 5 MW



Client Charter:
15 working days (new),
3 working days (renewal)

ON-LINE APPLICATION SYSTEM

www.st.gov.my

Bahasa Malaysia English

News
Tender
Downloads
Gallery

Energy Commission,
No. 12, Jalan Tun Hussein,
Precinct 2, 62100
Putrajaya, Malaysia.
Toll Free: 1-800-2222-78

Semakan Semula Harga Gas Asli Bagi Sektor Bukan Elektrik Di Semenanjung Malaysia "

Publications

"Garis Panduan Pelaksanaan Pemeriksaan Berkala Dan Ujian Kebocoran Sistem Gas Berpaip"

"Laporan Prestasi Keselamatan Elektrik Negara 2014"

Guidelines on Large Scale Solar Photovoltaic Plant For Connection to Electricity Networks

Energy Malaysia, Volume 7, 2015

e-Aduan

ONLINE SERVICES

Licensing	Contractor	Competent Person
Examination	Electrical Equipment	Energy Efficiency
Gas Approval		



SERVICES

Licence	Contractors	Competent Persons
Examination	Electrical Equipments	Energy Efficiency
Gas Approval	Installations	

www.st.gov.my

Maklumat Am

Nama
Syarikat/Pemohon,
Alamat, Butiran Tapak
Pemasangan, Aktiviti
Yang Dijalankan, etc

& SLD

Kelulusan Kerajaan/ Agensi

Analisis Kewangan

Orang Kompeten

Ringkasan Projek

Services

Licensing Contractor Competent Person Examination Electrical Equipment Energy Efficiency Gas Approval

Perkhidmatan ini disediakan bertujuan memudahkan orang awam berurusan dengan Suruhanjaya Tenaga berkaitan pelesenan iaitu sama ada pelesenan gas atau elektrik.

- Elektrik**
- Lesen bagi pemasangan awam ✓
 - Lesen bagi pemasangan persendirian dengan kapasiti 5 MW dan ke atas ✓
 - Lesen Provisional ✓
 - Senarai Pemasangan Persendirian Berlesen
 - Pendaftaran/Daftar Semula Pemasangan
 - Lesen bagi pemasangan persendirian dengan kapasiti kurang daripada 5 MW ✓
 - Penambahan/Pengurangan Keupayaan Lesen
 - Pembatalan Pendaftaran
 - Pagar Elektrik
 - Senarai Pemasangan Berdaftar
- Gas**
- Lesen Penggunaan Gas
 - Lesen Gas Persendirian



ACT, REGULATIONS & GUIDELINES

LICENCE APPLICATION PROCESS

LICENCE CONDITIONS

INSTALLATION CAPACITY, BUILT-UP PERIOD, COMMISSIONING & DATE OF COMPLETION

- To complete & commission not later than FITCD or such extended period.

PROVISION OF INFORMATION TO THE COMMISSION

- To submit at monthly interval, plant performance or progress report
- Other necessary info

SEPARATE ACCOUNTS FOR BUSINESS UNDER THE LICENCE

- Inform Commission the company FY
- Audited accounts

RESTRICTION OF CHANGES IN SHAREHOLDINGS

- Shareholders & shareholding structure remain the same 2 years from COD
- Any changes subject to prior written approval YB

SUSPENSION OF LICENCE

- failure to comply or breach any Condition
- Failure to comply any directive or order given
- Breach provision of REPPA

REVOCATION

- Breach any Condition
- Ceases to work
- Fee is unpaid
- Receiver or liquidator has been appointed
- Winding up or dissolution
- REPPA expired/revoke/terminated

THANK YOU