



Introduction to

SUPPLY AGREEMENT WITH RENEWABLE ENERGY (SARE)

Information for Registered PV Investor

WELCOME MESSAGE



Ir. Nirinder Singh Johl
Managing Director
TNBX Sdn. Bhd.
A wholly owned subsidiary of TNB

"In a single hour, the amount of power from the sun that strikes the Earth is more than the entire world consumes in a year" - US DOE

Humanity, and with it all life on earth, stands at a crossroad. Unprecedented growth of the human population and the world economy since the Industrial Revolution have put pressure on our planet. Series of environmental crises reach into every corner of the globe. Together, we must join our hearts, minds and efforts to be the hero our planet needs.

SARE is aimed to be the pebble that will create ripples of change in the energy landscape to be greener. I strongly believe we can create a better and greener future together. This is our responsibility and legacy for future generations.

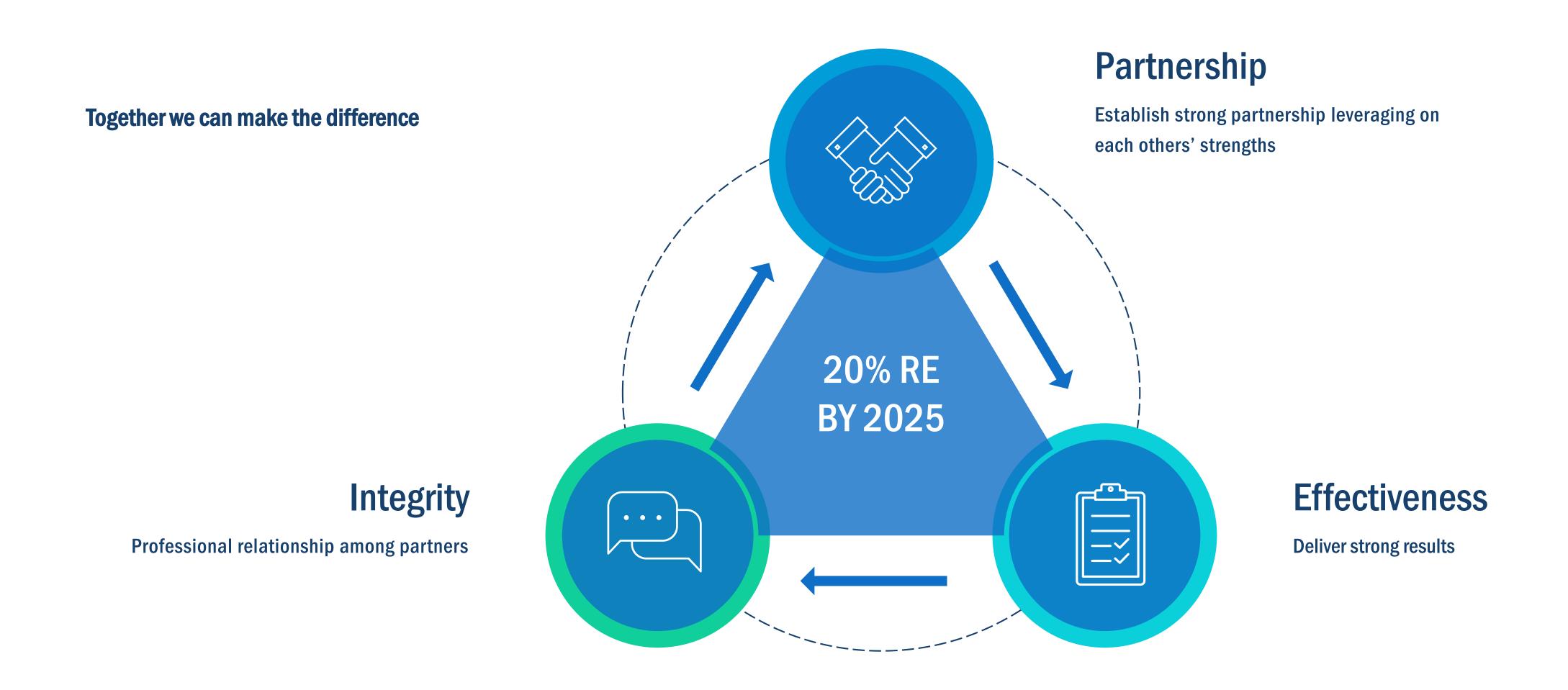




Our Strategy



We believe in building strong trust & relationship among industry players to effectively change energy landscape in Malaysia

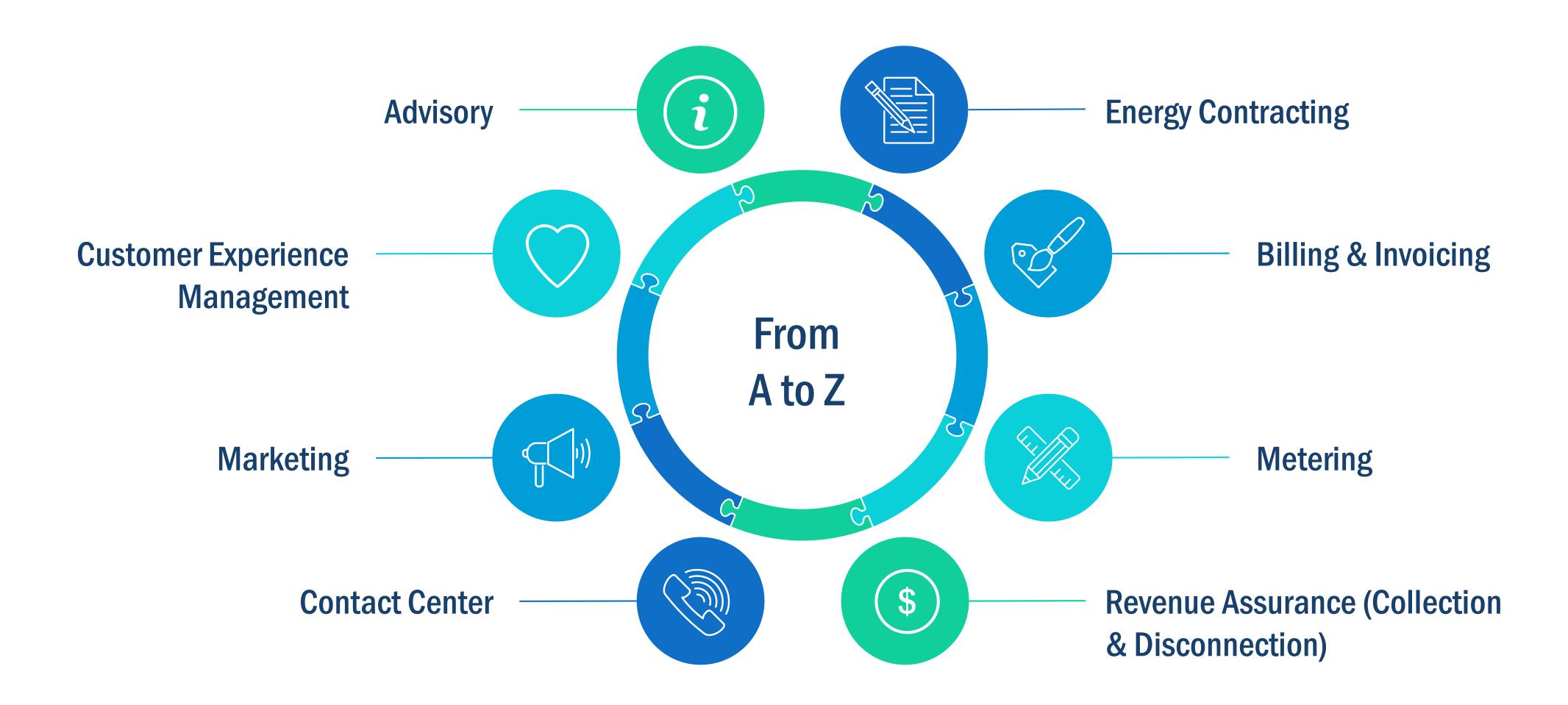




TNBX Services



Your Trusted Energy Partner

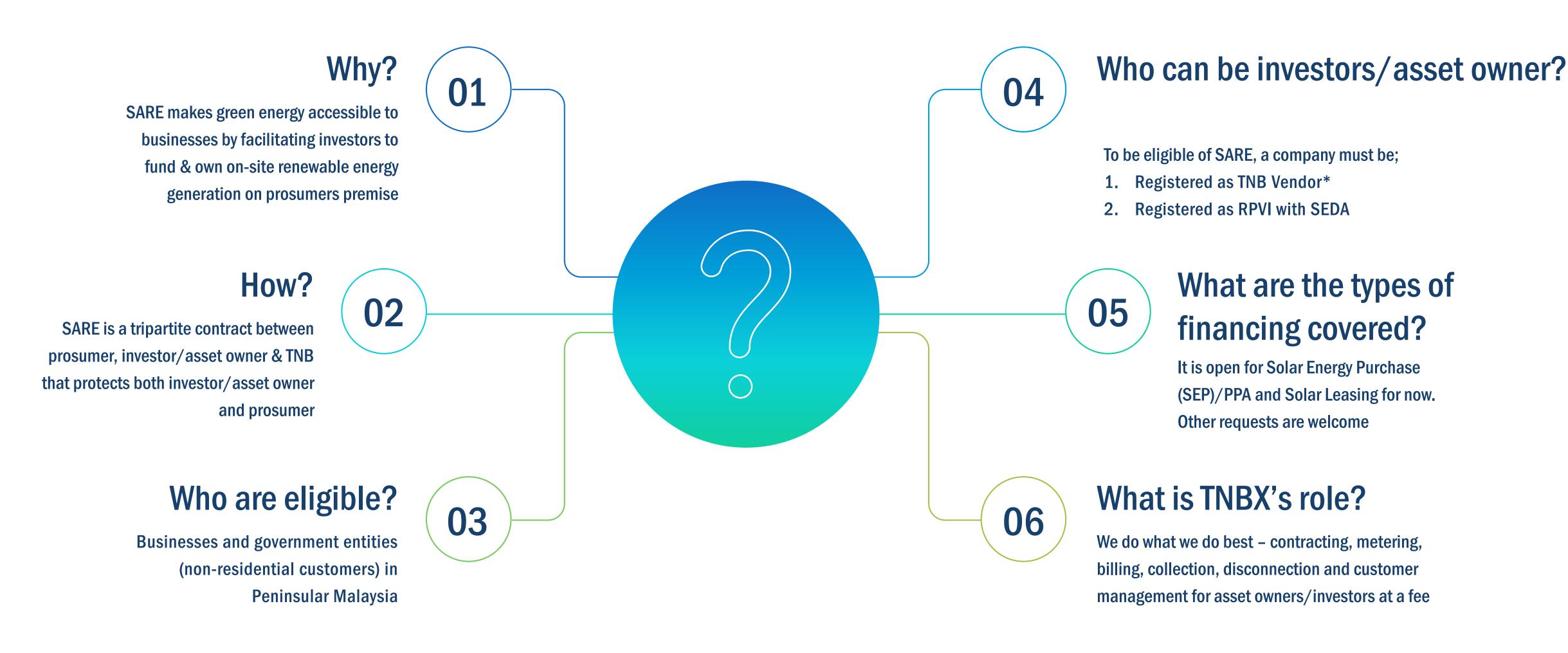




Understanding SARE



SARE with TNBX







How conventional electricity is made and delivered to you

In Malaysia, 98% of electricity is generated from fossil fuel source such as coal and gas through thousands of kilometers of cables and wires maintain and operated by TNB



Power plants generate electricity.

- Non-renewable
- Renewable

Transformer steps up the voltage.

Electricity is transmitted through the transmission line.

Substation steps down voltage for consumers' usage.

Types of consumers can be:

- Lower voltage (residential & commercial)
- Higher voltage (commercial & industrial)

Meter will record your electricity consumption, which will be billed monthly.

How your bill is calculated:

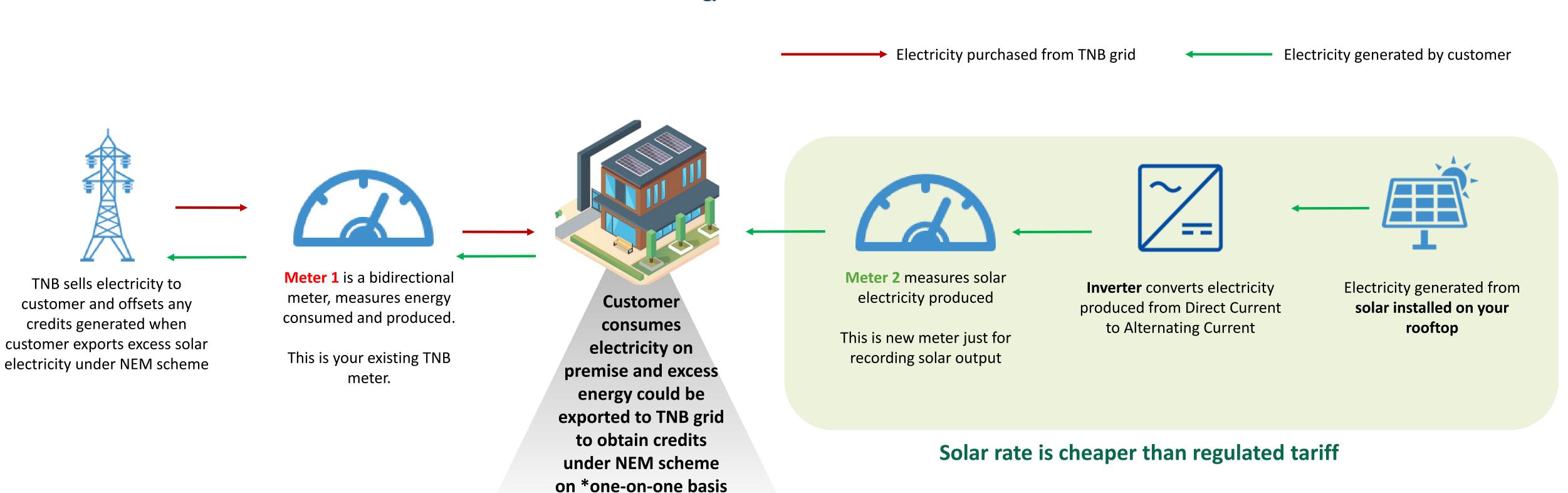
Bill = Units of energy used X regulated tariff





We have a brighter idea. Why don't we generate clean electricity by installing solar PV right on customers' rooftop! Here is how Solar Energy Purchase (SEP) works..

Investor/asset owner will generate solar energy and sell to prosumer at an agreed solar rate per kWh generated throughout SARE contract period. Prosumer can sell excess energy to TNB under NEM scheme.



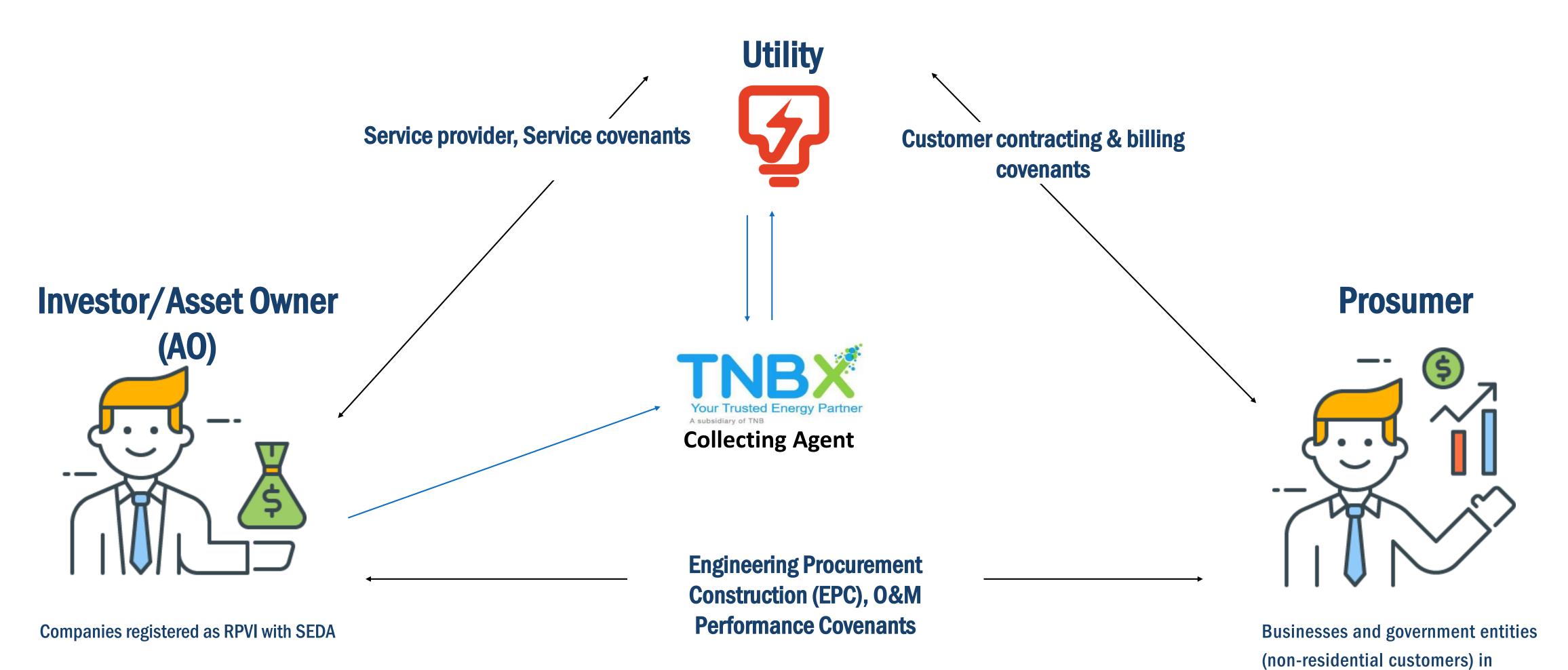
New TNB bill with SEP = (Net Energy recorded by M1) x Regulated Tariff + (Solar Energy Generated recorded by M2) x Solar Rate



Understanding SARE for SEP



All parties' interests are protected by SARE



*RPVI = Registered PV Investor

Peninsula Malaysia



Understanding SARE for SEP

All parties' interests are protected by SARE



Deed of Assignment

Service provider, Service covenants



Customer contracting & billing covenants



Building Owner

Letter of Consent

Investor/Asset Owner



Your Trusted Energy Partner
A subsidiary of TNB

Collecting Agent

Engineering Procurement Construction (EPC), O&M Performance Covenants





Businesses and government entities (non-residential customers) in Peninsula Malaysia



Understanding SARE for SEP



Roles & Responsibilities

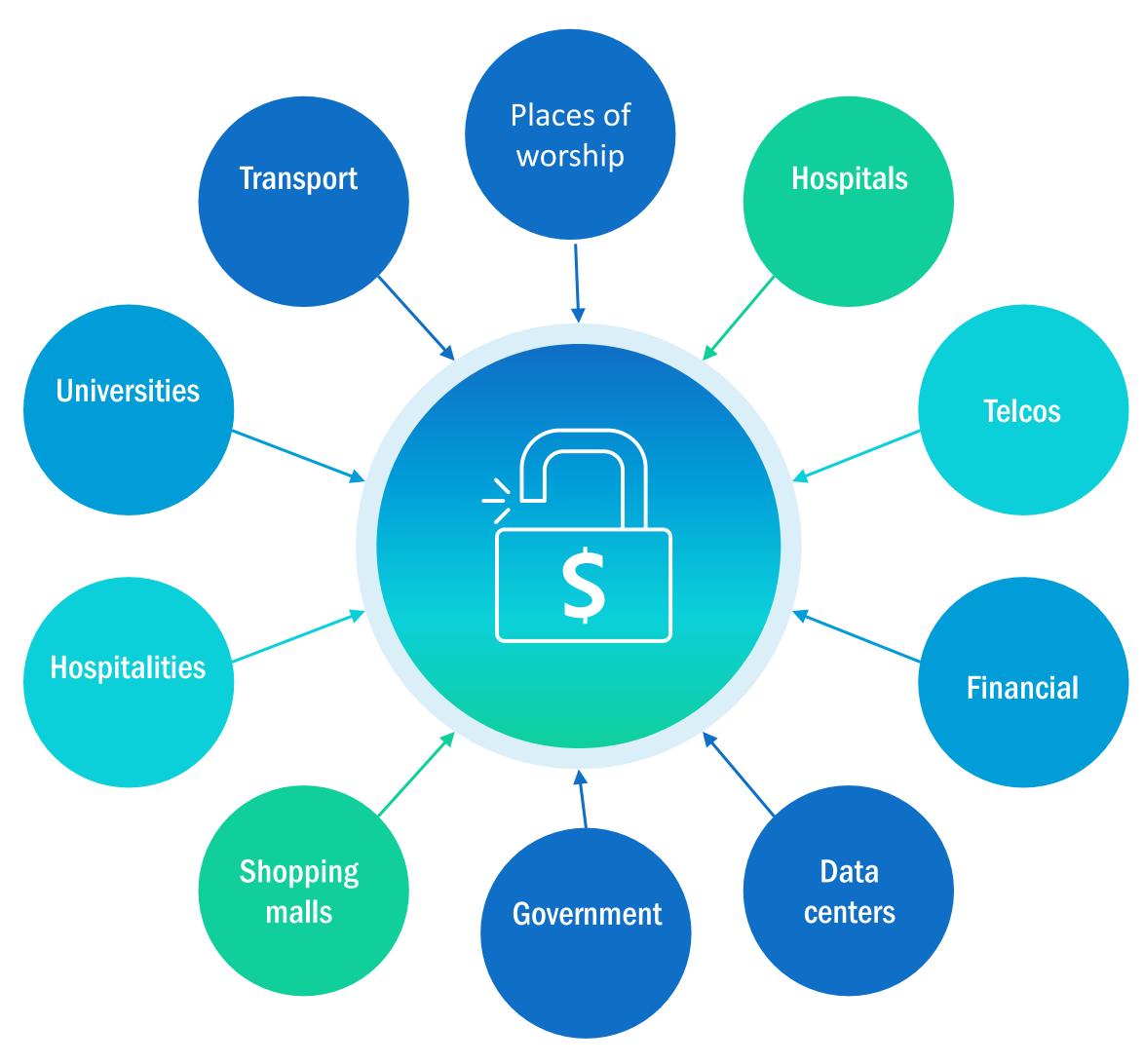
- Investor and/or Asset Owner (RPVI) will conduct energy audit, design and propose the optimum solar PV system for installation.
- Investor and/or Asset Owner (RPVI) will invest, own and operate the solar system.
- Customer will sign a tripartite agreement called Supply Agreement with Renewable Energy (SARE) with the Investor and/or Asset Owner (RPVI) and Tenaga Nasional Berhad.
- Customer will be invoiced based on agreement reached and financial understanding as documented in Appendix C of the SARE agreement.
- Customer's solar energy purchase will be billed on the same TNB email bill (e-bill) and subjected to terms & conditions as stipulated in SARE.
- After the contract period ends, customer will own the solar PV system unless explicitly stated otherwise.
- Investor and/or Asset Owner (RPVI) will be bound via a contract with TNBX on agreed service convenants.
- SARE is independent of the Net Energy Metering scheme. The Investor/Asset Owner will ideally recommend NEM scheme only if there is possibility of export to the grid from the customer



Customer Identification



Market potential for SEP > 18,000 MW solar rooftop potential within Peninsular Malaysia as per recent study by SEDA conducted in 2018

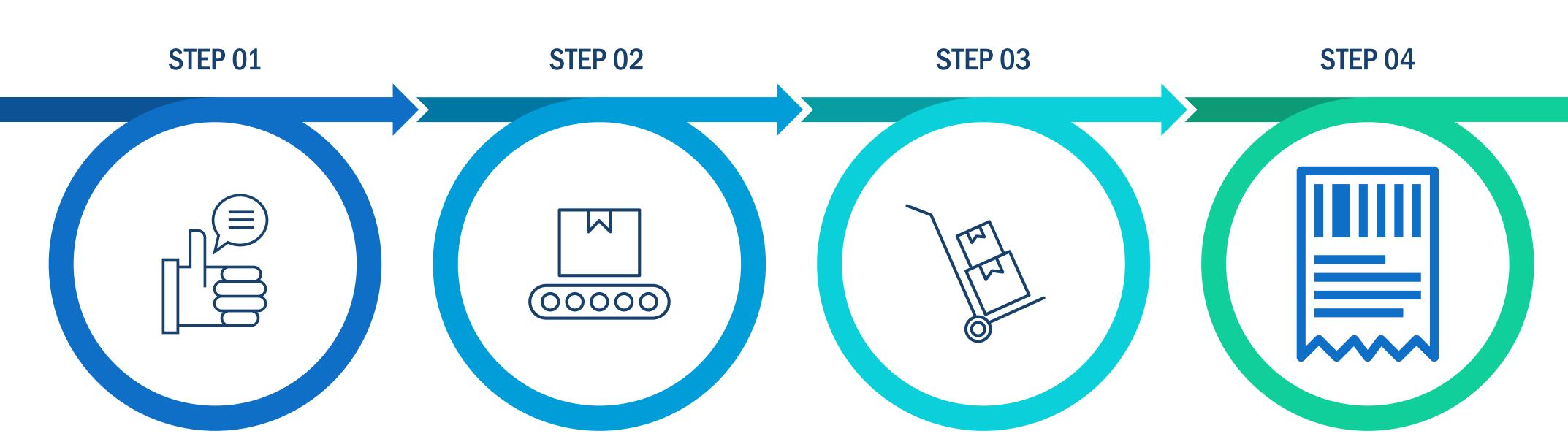




SARE Workflow



High level workflow



Sales & Marketing

Pitch to customers who are interested to go green

Sign Contract

Customer signs SARE contract with Asset Owner. Asset owner then submits the contract to TNBX

PV Installation

Asset Owner to install solar pv and coordinates with TNBX for meter installation

Generate

TNB's billing will commence upon pv system commissioning according to billing cycle until contract ends



Pricing for SARE SEP



We provide competitive pricing for all RPVI to enjoy the benefits of SARE SEP designed to protect your solar investment

	Tier 1	Tier 2	Tier
Pricing type	< 500 kWp per site	500 – 1000 kWp per site	> 1000 kWp per site
Tier pricing	maximum of 2 sen/kWh	1.5 sen/kWh	1 sen/kWh



General Terms in SARE



		Business			Non-business	A Wholly Owned Subsidiary of TNB	
Solar solution		via SARE contract			Outright Purchas	se	
Joial Solution	Solar PPA	Solar (Hybrid)	Solar Lease	Solar Cash	Solar via Loan	Solar via 0% (Credit Card)	
Upfront cost	0%	Approx. 20%	0%	100%	Approx. 30%	0%	
System owner	Investor/Owner	Investor/Owner	Investor/Owner	Customer	Financier	Customer	
Contract term	21 to 25 years	21 to 25 years or lower @kWh rate	3 to 10 years	Nil	Loan term	Credit Card Payments	
Installment	Based on units generated monthly	Based on units generated monthly + Monthly Fixed	Monthly (Fixed)	One-off	Monthly (Fixed)	Monthly (min 5 %)	
Solar tariff rate	35 to 45 cents	25 to 34 cents	0	0	0	0	
Solar Segment	Commercial/ Industrial	Commercial/ Industrial	Residential/ Commercial/ Industrial	Residential	Residential	Residential	
Metering Requirement	Yes	Yes	No	No	No	No	
Carbon Credits	Investor/Owner	Investor/Owner	Investor/Owner	Asset Owner	Asset Owner	Asset Owner	
Billing & Contracting Cost	Investor/Owner	Investor/Owner	Investor/Owner	Nil	By Financier	Nil	
PIA (Power Impact Assessment)		As per SEDA Guideline					
Cost of PIA		As per SEDA Guideline					
Units Exportable to Grid		By applying NEMS Quota					
NEMs Quota			Up to 50	00 MW			



Registration and Regulation



	Self Consumption	NEM	LSS (> 30MW)
TNB Registration	V	V	V
SEDA Registration		V	Provision of information
PSS Study	√ (> 425kW)	√ (> 72kW)	V
EC Licensing	√ (> 24kW for single phase and> 72kW for 3-phase)	v (> 24kW for single phase and > 72kW for 3-phase)	√ (award by bidding process)
Maximum capacity	75% of MD	Medium/High Voltage: 75% of Maximum Demand (MD) Consumer > 1 year: Average of recorded MD for 1 year Consumer < 1 year: Declared MD Low Voltage: 60% fuse rating @ CT rating	LSS1 – 50MWp LSS2 – 30MWp

Business Plan

BIL ELEKTRIK DAN INVOIS CUKA

Jo Akaun : 220137442900

Vo Kontrak : 24232

Deposit : RM 510.42

Ja Javaje Cukaj - 1200277841

Revenue Management

1300 88 5454

SITI JAMILAH BINTI ABU RAAN 39. JALAN SS68/2,

Jumlah Perlu Dibayar RM 99,55

unggakan RM 0.00
aj Semasa RM 0.00
enggenapan RM 0.00
enggenapan RM 0.00

Tarikh Bil

15 Okt 2017

Bayar Sebelum Terima Kasih

14.11.2017

* Bill is for illustration purposes only



We design billing features ensuring Asset Owners' investments are protected whilst providing good experience to customers



Invoicing & Collection Features:

Elements	Features
Type of bill	Online email bill
Frequency	Monthly
Solar rate	 ✓ Fixed ✓ Increasing ✓ Decreasing
Contract tenure	As per Asset Owner's contract with customers
Minimum monthly charge	As per Asset Owner's contract with customers
Payment reminder	Automated payment reminder on bill
Customer interface	Coming soon: ✓ myTNB ✓ Self Service Portal (SSP)
Customer payment scheme	 ✓ Zero upfront + monthly bill on energy generated ✓ Upfront capex instalment on bill + monthly bill on energy generated

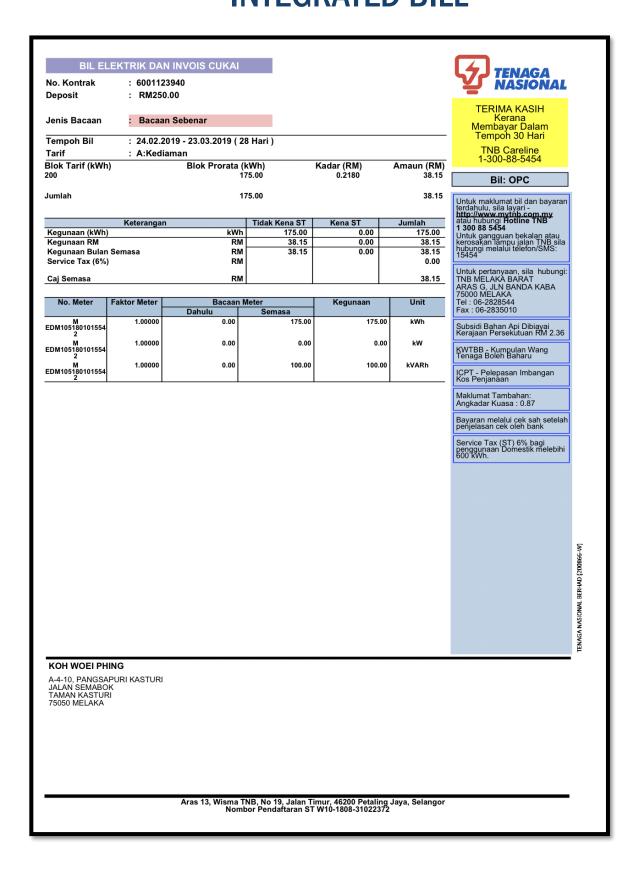


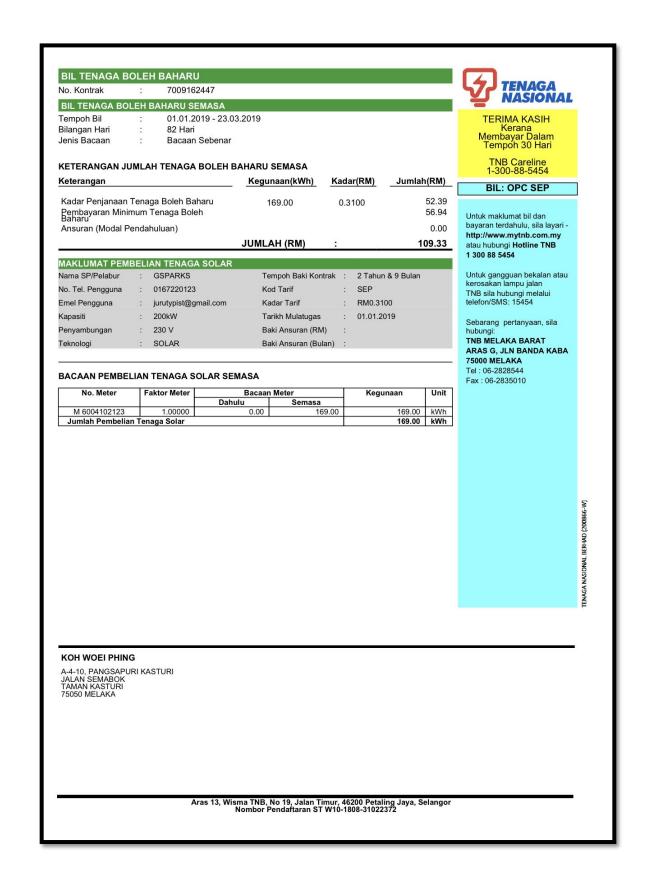
We design billing features ensuring Asset Owners' investments are protected whilst providing good experience to customers





INTEGRATED BILL





SUMMARY OF ENERGY STATEMENT

UTILITY ENERGY BILL

SOLAR ENERGY BILL





ENERGY STATEMENT

http://www.mytnb.com.my

No. Akaun : 222233334444

Tarikh Penyata

No. Invois : 123456789

01.01.2020



MYWI TERBANG SDN BHD

NO 1, JALAN 2 TAMAN AREA 51 00000 JITRA KEDAH

Ringkasan Akaun Anda

Bayaran Akhir	RM	4,127.00 Terima Kasih.
Tunggakan	RM	0.00
Caj Semasa	RM	7,620.26
Penggenapan	RM	0.01-
Jumlah Bil	RM	7,620.25 Bayar sebelum 01.12.2019

Ringkasan Caj Semasa

Perihal Perkhidmatan		,	Caj (RM)
NEM Charges	Import 9,888.00 kWh Eksport 385.00 kWh Net Usage 9,503.00 kWh		RM5,154.66
Solar Energy	6,164 kWh		RM2,465.60
		Service Tax (6%)	RM0.00
		Jumlah Caj Semasa	RM7,620.26



BIL ELEKTRIK DAN INVOIS CUKAI

No. Kontrak : 12345

Deposit : RM125,076.85
No. Sijil NEM : COM12345678

Jenis Bacaan Sebenar

Tempoh Bil : 01.10.2019 - 31.10.2019 (31 Hari)

Tarif : B:Perdagangan

Blok Tarif (kWh)	Blok Prorata (kWh)	Kadar (RM)	Amaun (RM)
200	200.00	0.4350	87.00
>200	9,688.00	0.5090	4,931.19

Jumlah Import (kWh) 9,888.00 Jumlah Import (RM) 5,018.19

Blok Tarif (kWh)	Blok Prorata (kWh)	Kadar (RM)	Amaun (RM)
200	0.00	0.4350	0.00
>200	385.00	0.5090	195.96

Jumlah Eksport (kWh) 385.00 Jumlah Eksport (RM) 195.96

Keterangan		Tidak Kena ST	Kena ST	Jumlah
Kegunaan (kWh Import)	kWh	9,888.00	0.00	9,888.00
Kegunaan RM	RM	5,018.19	0.00	5,018.19
ICPT (RM0.0255)	RM	252.14	0.00	252.14
Kegunaan Bulan Semasa	RM	5,270.33	0.00	5,270.33
KWTBB (1.6%)	RM			80.29
Caj Semasa (Import)	RM			5,350.62
kWh Eksport: 385.00	RM	195.96-		195.96-
Caj Semasa (Eksport)	RM			195.96-
Jumlah Caj Bersih	RM			5,154.66

Muatan Tertinggi Dicatat 415.00 kW

No. Meter	Faktor Meter	Bacaan Meter		Kegunaan	Unit
		Dahulu	Semasa		
M 219556492	1.00000	25.00	410.00	385.00	kWh (E)
M 219556492	1.00000	45,732.00	55,620.00	9,888.00	kWh (l)
M 219556492	1.00000	210.00	269.00	59.00	kW
M 219556492	1.00000	17,742.00	23,677.00	5,935.00	kVARh



TOUR BY YOUR Trusted Energy Partne
A Wholly Owned Subsidiary of TNB

TERIMA KASIH Kerana Membayar Dalam Tempoh 30 Hari

TNB Careline 1-300-88-5454

Bil: LPC NEM

Untuk maklumat bil dan bayaran terdahulu, sila layari - http://www.mythb.com.my atau hubungi Hotline TNB
1 300 88 5454
Untuk gangguan bekalan atau kerosakan lampu jalan TNB sila hubungi melalui telefon/SMS:

Untuk pertanyaan, sila hubungi:

Surcaj 1% dikenakan bagi pembayaran selepas 30 hari dari tarikh bil selaras dengan Peraturan-Peraturan Bekalan Pemegang Lesen 1990

Maklumat Tambahan: Angkadar Kuasa : 0.86 Faktor Beban : 0.23

Bayaran melalui cek sah setelah penjelasan cek oleh bank

Baki NEM: 0 kWh Baki NEM: RM0.00

Tarikh lupus Baki NEM: 31/12/2020

Business Plan — 21





No. Kontrak : 222233334444

BIL TENAGA BOLEH BAHARU SEMASA

Tempoh Bil : 11.10.2019 - 31.10.2019

Bilangan Hari : 21 Hari

Jenis Bacaan Sebenar

KETERANGAN JUMLAH TENAGA BOLEH BAHARU SEMASA

Keterangan	Penjanaan(kWh)	Kadar(RM)	Jumlah(RM)
Kadar Penjanaan Tenaga Boleh Baharu Pembayaran Minimum Tenaga Boleh Baharu Anguran (Modal Pondabuluan)	6,164.00	0.4000	2,465.60 0.00 0.00
Ansuran (Modal Pendahuluan)			

JUMLAH (RM)

MAKLUMAT PEMBELIAN TENAGA SOLAR

Tempoh Baki Kontrak Nama SP/Pelabur Free Bills Sdn Bhd 24 Tahun & 2 Bulan 0123456789 Kod Tarif : SEP No. Tel. Pengguna mywidrift@yahyo.com Emel Pengguna Kadar Tarif : RM0.4000 Kapasiti : 44.2 kW : 11.10.2019 Tarikh Mulatugas Penyambungan Baki Ansuran (RM) : 400 V OPC Baki Ansuran (Bulan) SOLAR Teknologi

BACAAN PEMBELIAN TENAGA SOLAR SEMASA

No. Meter	Faktor Meter	Bacaan Meter		Penjanaan	Unit
		Dahulu	Semasa		
M 123456789	1.00000	0.00	6,164.00	6,164.00	kWh
Jumlah Pembelian	Tenaga Solar			6,164.00	kWh



TERIMA KASIH Kerana Membayar Dalam Tempoh 30 Hari

TNB Careline 1-300-88-5454

BIL: OPC SEP

Untuk maklumat bil dan bayaran terdahulu, sila layari http://www.mytnb.com.my atau hubungi Hotline TNB 1 300 88 5454

2,465.60

Untuk gangguan bekalan atau kerosakan lampu jalan TNB sila hubungi melalui telefon/SMS: 15454

Sebarang pertanyaan, sila hubungi:



Business Plan — 22





Revenue collection settlement can be done according to Asset Owners investment strategy

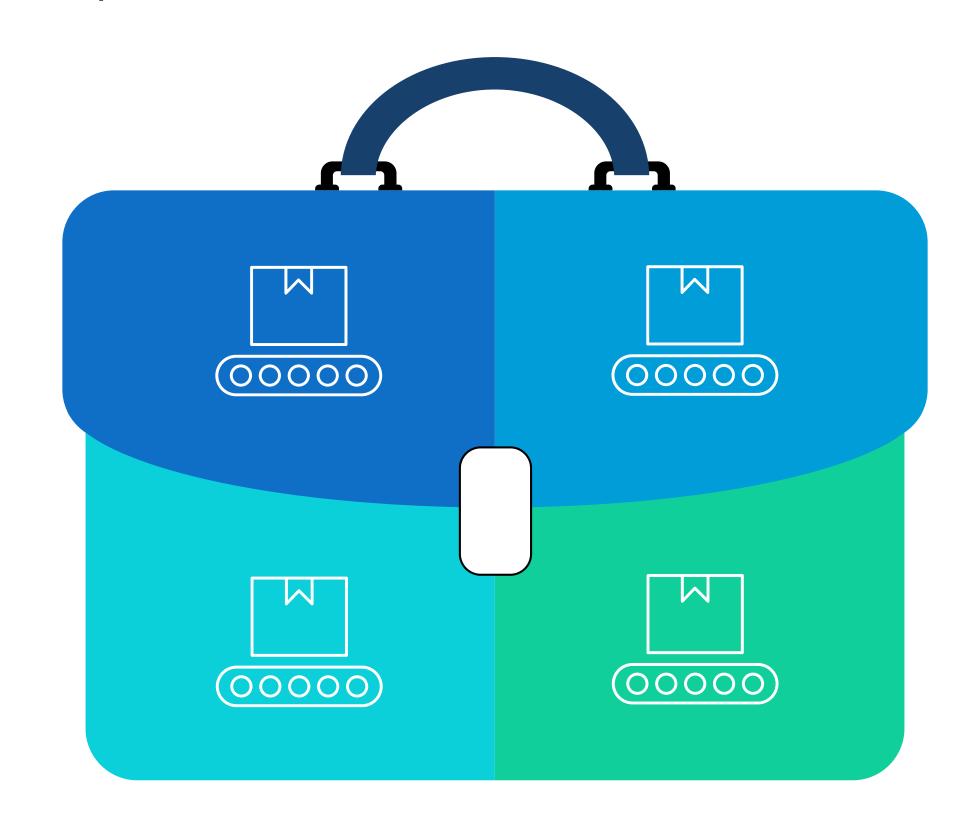
Example of customizable settlement between TNBX and Asset Owners

TNBX to Asset Owner

All revenue collected from customer will be transferred to Asset Owner

TNBX to Bank

All revenue collected from customer will be transferred to Bank who has Deed of Assignment with Asset Owner



TNBX to Asset Owner & Bank

Revenue collected will be transferred according amount specified in the contract between bank and Asset Owner

TNBX to Asset Owner and its Funder

Revenue collected will be transferred according amount specified in the contract between Asset Owner and its funder



SARE - Cost to serve



These are the costs by TNBX to RPVI for cost to serve

One-off Charge (per contract)

Item	Kos (RM)
Contract Processing	100.00

Payment charge by financial institution

1% from SARE payment collected from any channel

By Request (per event basis)

Item	Kos (RM)
Disconnection	150.00
Reconnection	150.00
Contact Center	10.00



SEP Payment Flow



SARE with TNBX









SEP Meter Cost



SEP meter cost uses NEM meter cost as guideline

Metering	Three Phase	LVCT (main)	LVCT	HVMV	HVMV
Scheme	Meter		(Main & Check)	(1 Feeder)	(2 Feeders)
NEM	RM 1,570	RM 2,600	RM 3,600	RM 6,500	RM 9,700

Note:

- Service charge RM 1,960 applies only if no meter is changed.
- OPC is Ordinary Power Consumer.
- LPC is Large Power Consumer.
- OPC exempted from service charge.



SEP Meter Cost



Scenario 1: Only SEP meter needs to be installed and M1 is OPC

Meter	Туре	Need to be replaced?	Need to be installed?	RM
M1 (Utility)	OPC	No	-	0
M2 (SEP)	OPC	-	Yes	1570

Scenario 2: Utility & SEP meters need to be installed

Meter	Type	Need to be replaced?	Need to be installed?	RM
M1 (Utility)	OPC	Yes	_	1570
M2 (SEP)	OPC	_	Yes	Cost price

Scenario 3: Only SEP meter needs to be installed and M1 is LPC

Meter	Type	Need to be replaced?	Need to be installed?	RM
M1 (Utility)	LVCT (Main meter)	No	_	1960
M2 (SEP)	OPC	_	Yes	Cost price

Scenario 4: Utility and SEP meter needs to be installed and M1 is LPC

Meter	Туре	Need to be replaced?	Need to be installed?	RM
M1 (Utility)	LVCT (Main meter)	-	Yes	2600
M2 (SEP)	OPC	_	Yes	Cost price

Scenario 5: Only SEP meter & CT need to be installed and M1 is LPC

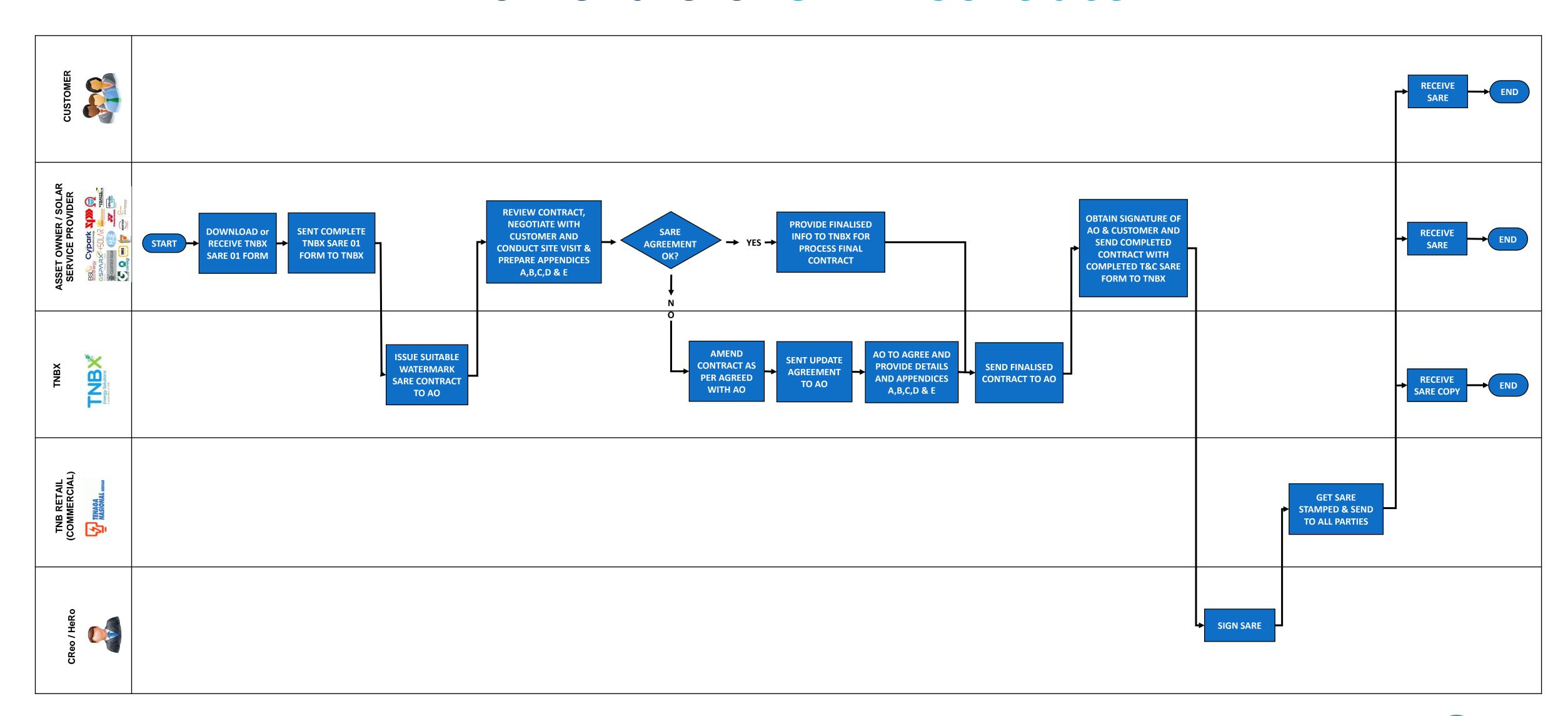
Meter	Type	Need to be replaced?	Need to be installed?	RM
M1 (Utility)	LVCT (Main meter)	No	_	1960
M2 (SEP)	LVCT (Main meter)	-	Yes	Meter cost + CT cost





Flow Chart for SARE Contract







Types of SARE Contract



	Code	1	2	3	4
Ту	pe	Solar Energy I	Purchase (SEP)	Solar	Lease
		Building Owner	Not Building Owner	Building Owner	Not Building Owner
A	(Sendirian Berhad, Berhad)				
В	(Government, ROS, Cooperative Agency)			Undar Da	volonmont
C	(Individual)			Unider De	velopment
D	(Partnership)				



Download and submit SARE 01 Form via email



TNBX Your Trusted Energy Partner	TNBX SARE 01 v1.5	TNB Your Trusted Energy Partner A satisfactory of Tital	TNBX SARE 01 v1.5
PART 1: SOLAR ASSET OWNER INFORMATION	ON	c) Estimated Solar PV System Size	kWp
Company Name	<u> </u>	c) Estimated Solar PV System Size	κννρ
Company Registration No.		d) Proposed Solar Tariff (RM/kWh)	
Registered Address		e) Estimated COD (dd/mm/yyyy)	
TNB Vendor No.		2860 25 25 36 10000000000000	
Contact Person Name		f) Does the installation require NEM scheme?	☐ Yes ☐ No
Contact No. (H/P)		g) Please tick one of the following category of co	ompany:
Office No.	Fax No	☐ Individual	☐ Private Limited / Public Limited / Limited
Email			Liability Company
PART 2: TNB REGISTERED CUSTOMER INFO	PMATION	☐ Partnership	☐ Government / ROS / Cooperative Society
	RIVIATION	Please state the Partnership No:	Please state the Statutory Act of the agency establishment:
a) TNB Customer Account No.			0-11
Company Registration No. (IC No. for Individual)			
Registered Customer Name*			
Registered Customer Address*		PART 3: DECLARATION OF CUSTOMER'S INTENT FOR S	ARE
		I, as the customer intend to go into Supply Agreem	
Installation Location Address		Energy Purchase (SEP) solution. I hereby declare the best of my knowledge and belief. In case any o	
Contact Person Name		TNBX has the right to reject/terminate/cancel this	
Contact No. (H/P)		with the specifications, terms and conditions stip regulations by TNB and EC, as amended from	
Office No.	Fax No.	modify/amend/add subject to further information	
Email		final SARE proposal. I will provide all the info development of the SARE proposal.	rmation and assistance required by TNB for
b) Is the building owner same with reg	gistered TNB Account holder?		
□ Yes			
☐ No, please fill in the following:-			
Name of Building Owner	<u> </u>		Name:
Company Registration No. (IC No. for Individual)		Customer Signature	IC No:
TNB Account No.			Contact Number:
Address			
Contact Person Name			Name:
Contact No. (H/P)		Executive's Signature	IC No:
Office No.	Fax No.	Exceditive 3 Signature	Contact Number:
Customer's registered name and address in TNB Cus			Contact Hambers
T	00 march 100 mar		Page 2 of 3

Page 1 of 2

Page Z of Z



Information Required for SARE Contracting (Main)



Page		Information Required
Front page	Contract cover	 Date of Agreement Investor/Owner Company Name and Registration No Customer* Name and Registration No (for Sdn Bhd)
1	General	 TNB Bills (Customer Name, Contract No and Contract Date) Solar DC size
3	System location	1. Solar system location address
25	Attention	 Investor/Owner name, phone and fax nos Customer name, phone and fax nos
30	Signing	 Investor/Owner signee and witness Customer signee and witness

^{*}Note that the customer name must be the same as the existing TNB supply contract name







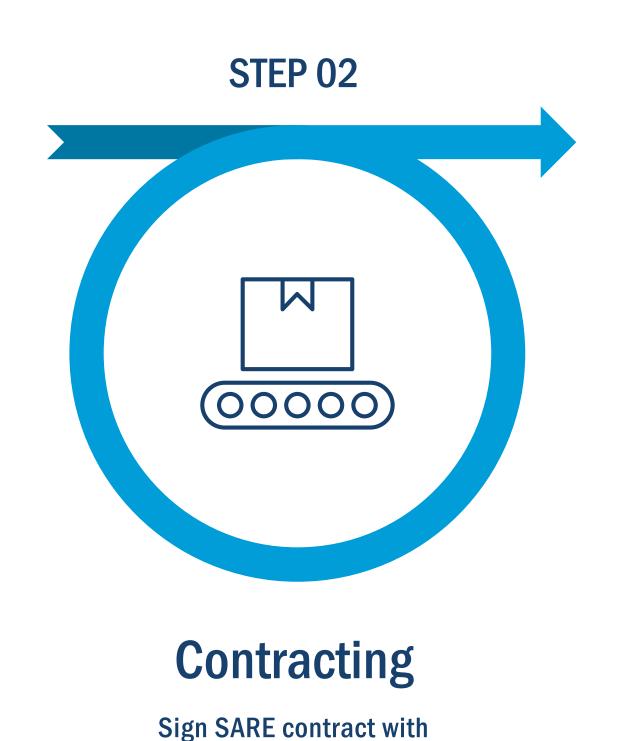
Appendix	Information Required
Appendix A	System specifications
Appendix B	Solar meter location
Appendix C	Commercial terms
Appendix D	Description of site
Appendix E	Solar purchase price for 25 years (Attachment)
Appendix F	Owner's Consent Letter



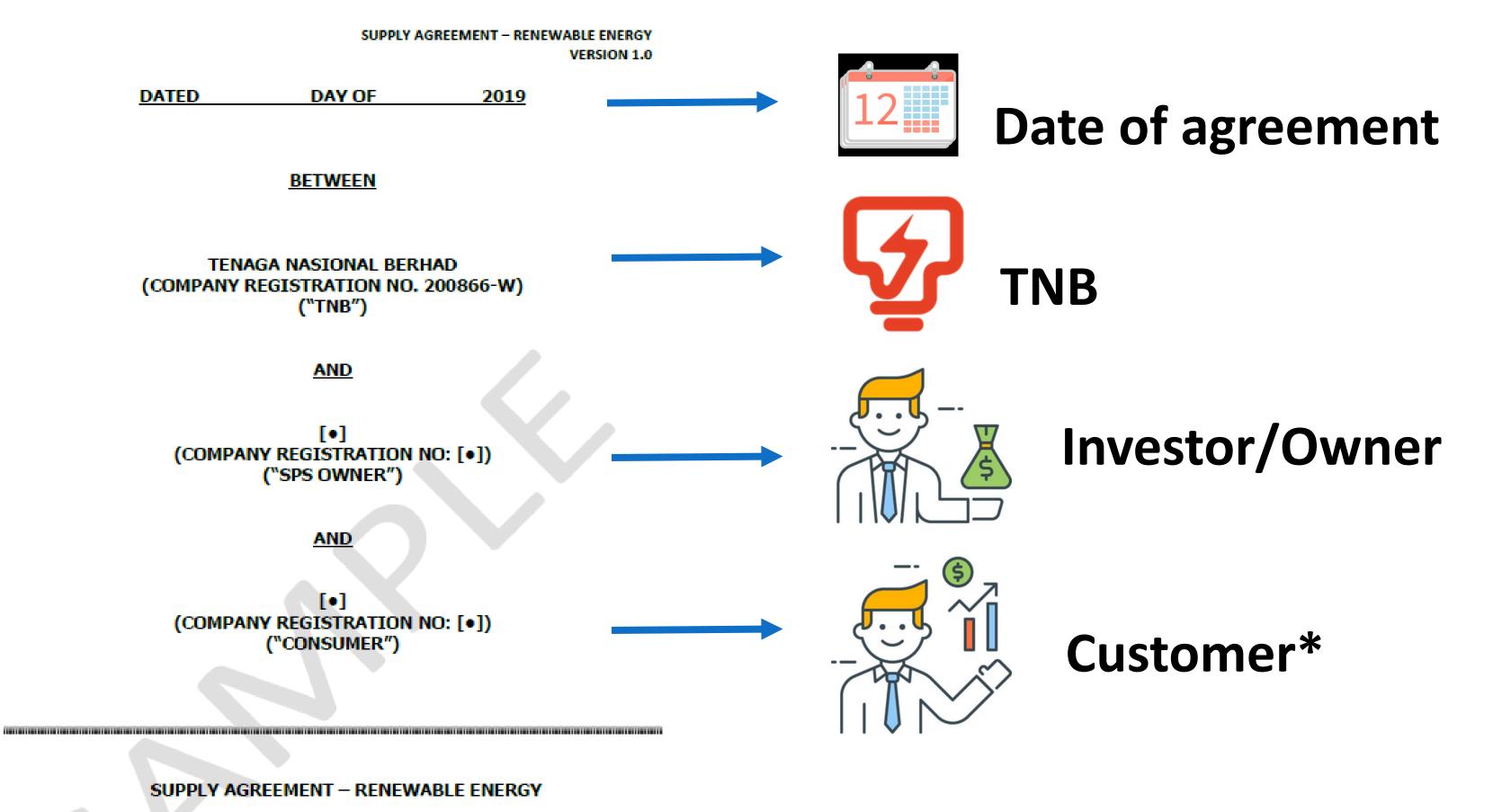
SARE (Front page)



Agreement details



customer and submit to TNBX



*Note that the Customer name must be the same as the existing TNB supply contract name



SARE (Page 1)

A Wholly Owned Subsidiary of TNE

Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY

SUPPLY AGREEMENT RENEWABLE ENERGY

TENAGA NASIONAL BERHAD (Company Registration No. 200866-W), a public limited liability company incorporated in Malaysia and having its registered office at Pejabat Setiausaha Syarikat, Tingkat 2, Ibu Pejabat Tenaga Nasional Berhad, No. 129, Jalan Bangsar, 59200 Kuala Lumpur, Wilayah

[•]. (Company Registration No. [•]), a private limited liability company incorporated in Malaysia and having its registered office at [+] (hereinafter

[•] (Company Registration No. [•]), a private limited liability company

incorporated in Malaysia and having its registered office at [+] (hereinafter

THIS SUPPLY AGREEMENT RENEWABLE ENERGY is made on the

Persekutuan (hereinafter referred to as "TNB") of the first part;

BETWEEN:

AND

AND

WHEREAS:

day of

Date of agreement





TNB



Investor/Owner



Customer*



referred to as the "Consumer") of the last part;

(each, a Party and, collectively, the Parties).

referred to as the "SPS Owner") of the second part;

- TNB is primarily involved in the business of generation, transmission and distribution of electricity and such other electricity and energy related businesses.
- TNB and the Consumer had entered into the electricity supply contract (Contract No. [*]) (Account No. [*]) dated [*] (hereinafter referred to as the "Electricity Supply Contract") for the normal supply of electricity to the Said Premises (as hereinafter defined).
- The SPS Owner proposes to design, construct, install, own, operate and maintain a solar photovoltaic energy generating system with a DC capacity of [•] kWp to be located on the Site at the Said Premises to generate and supply solar photovoltaic energy to the Consumer. The Consumer is desirous of purchasing and accepting the solar photovoltaic energy as may be generated by the Solar PV System.
- The Parties hereby agree to enter into this Agreement to record their rights and obligations in relation to the Net Electrical Output generated by the Solar PV System and delivered to and accepted by the Consumer in accordance with the terms and conditions set out in this Agreement.

BIL ELEKTRIK DAN INVOIS CUKAI

No. Kontrak Deposit

: 12345 : RM125,076.85

No. Sijil NEM Jenis Bacaan : COM12345678

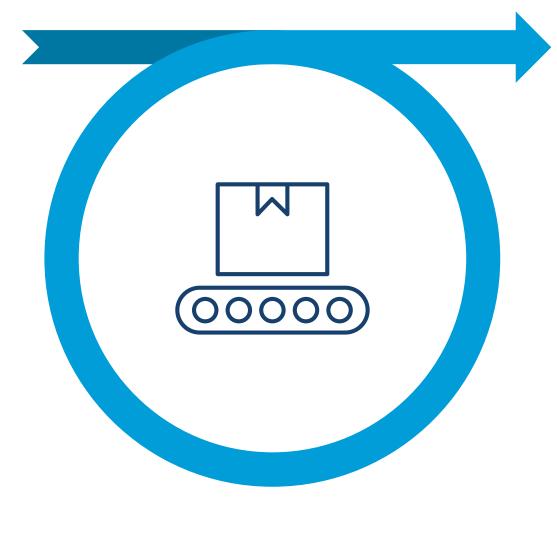
Bacaan Sebenar be provided by TNB

Customer Sdn Bhd





Solar DC size



STEP 02

Contracting

Sign SARE contract with customer and submit to TNBX

*Note that the Customer name must be the same as the existing TNB supply contract name

Contract date will



SARE (Page 3)

Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY

Purchase Notice

means a notice given by the Consumer pursuant to Clause 12.6(a) or a notice given by the SPS

Owner pursuant to Clause 12.6(b);

Ringgit Malaysia or RM means the lawful currency of Malaysia;

means the premises owned and occupied by the Said Premises

Consumer erected on the piece of land held under

[•] bearing the postal address of [•];

means the rooftop of the Said Premises upon Site which the Solar PV System is to be located, as

more specifically described in Appendix D;

means the Solar Energy Meter and devices as Solar Energy Meter

further described in Appendix B installed within the Said Premises and owned by TNB for the measurement of Net Electrical Output;

Solar Energy Payment means a payment determined in accordance with

Appendix C to be made by the Consumer to TNB for the Net Electrical Output generated and

delivered from the Solar PV System;

Solar Energy Rate Means the rate as described at Appendix C;

Solar PV System means the solar photovoltaic energy generating system located on the Site at the Said Premises

with a DC capacity of [•] kWp and ancillary equipment and facilities as illustrated in the

diagram as attached Appendix A;

SPS Owner Licence means the licence to be obtained by the SPS Owner in accordance with and if required by the

applicable Law; and

means the period of this Agreement as specified Term

in Clause 2.1.

Interpretation

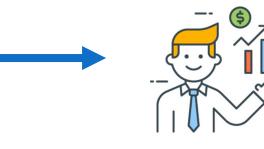
Unless the context of this Agreement otherwise requires:

words of any gender include the other gender;

words using the singular or plural number also include the plural or

singular number, respectively;

(c) the terms "hereof", "herein", "hereunder", "hereby", "hereto" and similar words refer to this entire Agreement and not any particular Clause, Exhibit, Appendix or any other subdivision of this Agreement;



Customer's premise

A Wholly Owned Subsidiary of TNE



Solar DC size



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STEP 02

Sign SARE contract with customer and submit to TNBX

Business Plan

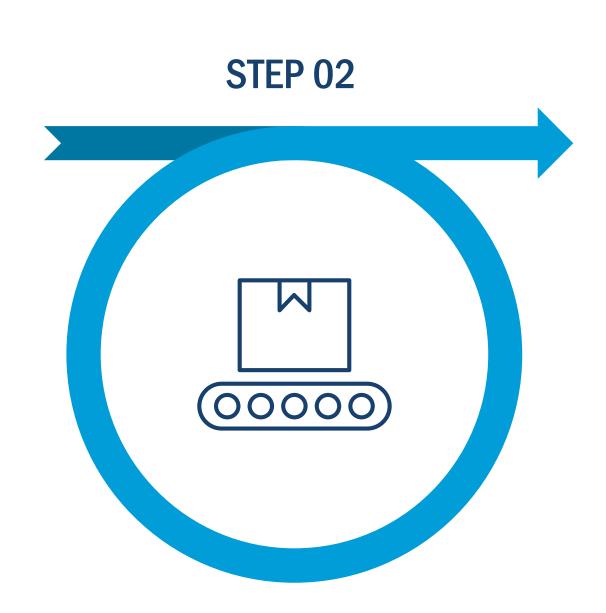


SARE (page 25 – Attention page)



Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY



Contracting

Sign SARE contract with customer and submit to TNBX

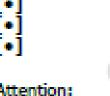
- b) The address for the delivery of notices and bills to each Party and the respective telephone and facsimile numbers are as follows:
 - (i) For TNB:

Chief Retail Officer

Tenaga Nasional Berhad Aras 8, Wisma Averis, Avenue 5 Tower 2, Bangsar South City Off Jalan Kerinchi 59200 Kuala Lumpur Wilayah Persekutuan

Attention: [•]
Telephone: [•]
Facsimile: [•]

(ii) For the SPS Owner:



Attention: [Telephone: [Facsimile: [



Investor/Owner

(iii) For the Consumer:



Attention: Telephone: Facsimile:



Customer*

(c) If a Party changes its notice details as set out in Clause 16.3(b), such Party shall provide the other Parties with prompt notice of any such changes prior to effecting the same.

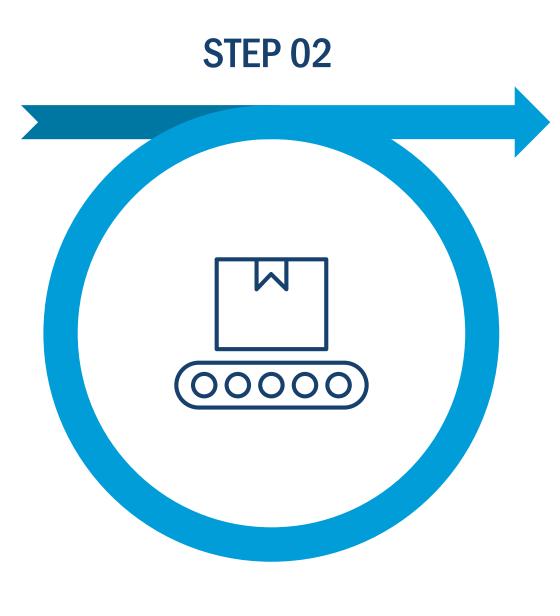


SARE (Page 30 - Signing page)



Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY



Contracting

Sign SARE contract with customer and submit to TNBX

EXECUTION PAGE			
IN WITNESS WHEREOF, the Parties executed on the day and year first above	have caused this Agreement to be duly written.		
TNB Signed for and on behalf of TENAGA NASIONAL BERHAD (COMPANY NO. 200866-W)	in the presence of:	4	TNB
Name: Title: Date:	Name: Title: Date:		
SPS OWNER			
Signed for and on behalf of [•].			_
(COMPANY NO. [•])	in the presence of:		Investor/Owner
Name: Title: Date:	Name: Title: Date:		
CONSUMER			
Signed for and on behalf of [•] (COMPANY NO. [•])	in the presence of:		Customer*
Name:	Name:		
Title: Date:	Title: Date:		

*Note that the Customer name must be the same as the existing TNB supply contract name



STEP 02

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Contracting

Sign SARE contract with

customer and submit to TNBX

SARE (Appendix A – System specifications)



Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY

APPENDIX A

Technical Requirements of Solar PV System

A.1 GENERAL DESCRIPTION

The solar PV system is a [•] kWac photovoltaic (PV) System with the installed capacity of [•] kWdc. The solar PV system is located at [•], [•]. The PV modules are roof mounted with fixed tilt and are connected in series to form strings. The strings are subsequently feed into inverters. The direct current (DC) power produced by the PV modules is converted into Alternating Current (AC) by the inverters.

A.2 MAIN EQUIPMENT DESCRIPTIONS

A.2.1 Photovoltaic Modules

Photovoltaic modules with the following specification, or equivalent, shall be installed in the solar PV system:

Item	PV Module
Manufacturer	JA Solar / Canadian Solar / Jinko Solar
Model Type	Crystalline based modules
Certifications and Standards	Refer to item 4.
Power Tolerance (W)	≥ +0 W
System Voltage	1000 V or 1500 V
Module Efficiency (%)	≥ 16%
Min Nominal Power at STC (PMPP) per module	≥ 300 W
Type of photovoltaic module mounting (fixed or with tracking)	Fixed roof mounted

A.2.2 Inverter

Inverter with the following specification, or equivalent, shall be installed in the solar PV system:

A.2.3 Operating

, d	Item	Inverter		
	Manufacturer	SMA / Huawei / Sungrow		
	Model Type	String		
	Rated frequency	50 Hz		
	Rated Power	230 V / 400 V		
	Connection Phases	3 phase		
	Certifications and standards	Refer to item 4.		
	Protection Rating	IP 65		
	Efficiency (%)	≥ 97.5%		
	Anti – islanding Protection	Yes		

Requirements



Solar DC and AC size Solar location



Solar specifications

Business Plan



SARE (Appendix B – Solar meter)



Agreement details

SUPPLY AGREEMENT - RENEWABLE ENERGY

APPENDIX B

Description of Solar Energy Meter

B1. Metering Location & Arrangement

The Net Energy Output (kWh) delivered to the Consumer shall be measured by the Solar Energy Meter. The Solar Energy Meter shall be located at [•]. The point of metering shall be connected to the Consumer's distribution board.

B2. Installation of Metering System

As part of the design of Solar PV System, the Solar Energy Meter shall be verified upon commissioning by a qualified calibration institution and shall be procured and installed by The SPS Owner.

B3. Meter Reading

- B3.1 In order to verify the quantity of electrical energy delivered to Consumer in each Billing Period, a half (1/2) hourly reading shall be obtained.
- B3.2 The Consumer shall at all times gives TNB/SPS Owner all access to the location where the Solar Energy Meter is installed for witnessing of meter testing, verification of test result and meter readings at regular schedules agreed by both parties. The metering location shall only be accessed by TNB/SPS Owner with the presence of Consumer's representatives.

B4. Sealing

After verification of the meter, TNB/SPS Owner shall seal the Solar Energy Meter as per current TNB's Practice.

B5. Metering Room

The Solar Energy Meter shall be installed at a mutually agreed location. The specification of the location of the meter shall be in accordance with TNB Electricity Supply Application Handbook (ESAH).

B6. Meter Inspection and Testing

The Solar Energy Meter shall be tested by TNB at a regular schedule determined by TNB in accordance with Prudent Utility Practices. The costs and expense for any additional inspections and tests shall be borne by the requestor.

B7. Custody of Solar Energy Meter

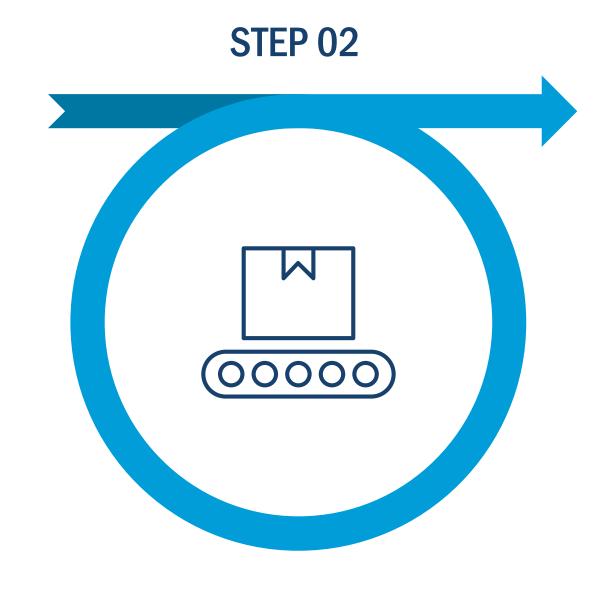
The metering equipment shall be the rights of TNB throughout the contracted period.



Meter 2 Solar Energy Meter location

Salient points:

- 1. Solar meter is of TNB's standard, hence TNB will assist any dispute on metering between AO & Prosumer.
- 2. TNB is empowered by SARE to disconnect either Meter 1 or Meter 2



Contracting

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STEP 02

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Contracting

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customer and submit to TNBX

SARE (Appendix C - Commercial terms)



Agreement details

APPENDIX C

Calculation of Solar Energy Payment

C1.0 Definitions

All capitalised terms shall have the meanings given to them in Clause 1.1 of this Agreement except as otherwise defined herein.

C1.1 Calculations of Solar Energy Payments

The Solar Energy Payments under this Agreement shall be calculated in accordance with the terms of this Appendix C. This Appendix C shall be read in conjunction with and subject to the provisions of Clauses 4 and 5 of this Agreement.

C1.2 Energy Payment

Subject to paragraph C1.2(B) below, the Solar Energy Payment for Net Electrical Output delivered in each Billing Period shall be calculated as follows:

SOLAR ENERGY PAYMENT	SEP = NEO x SER

where:

the Solar Energy Payment (in RM) in such Billing Period;

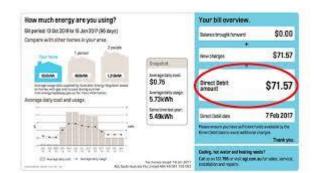
the Solar Energy Rate (at RM [•]/kWh); and

the Net Electrical Output (in kWh) delivered in such Billing NEO

- If the Solar Energy Payment relates to a Billing Period which does not comprise a full calendar month, the Consumer agrees that the Solar Energy Payment for such Billing Period shall be determined in accordance with C1.2(A) above.
- The Minimum Solar Energy Payment = RM [•]

C1.3 Environmental Attributes

The environmental attributes from the Solar PV System shall be solely for the



SEP price (after SARE)

Minimum Solar Energy Payment

Let say in a particular month the solar meter registered RM400 solar energy generated:

a. If min set = RM 0, the bill issued is RM 400 b. If min set = RM 800 (example), the bill issued is RM 800



Carbon Credit Owners

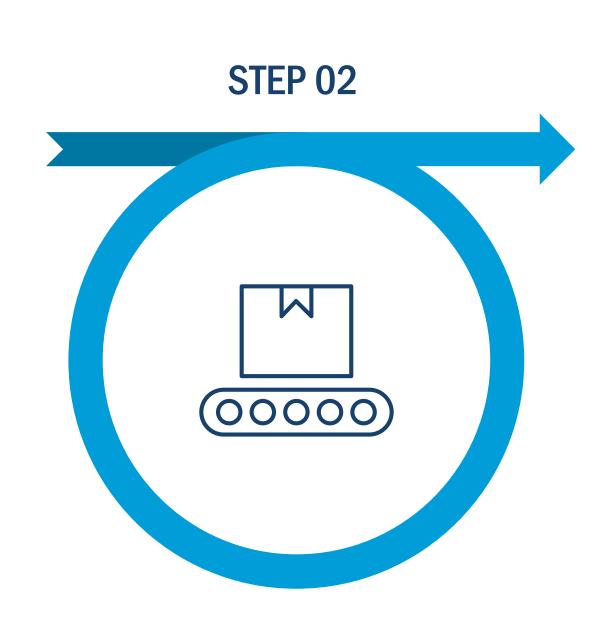
We also recommend that AO and Prosumer to state clearly who owns the carbon credits and spells out in the contract



SARE (Appendix D - Description of site)



Agreement details



Contracting

Sign SARE contract with customer and submit to TNBX





SARE (Appendix E Attachment – Buyout table)



Agreement details

Attachment A to Appendix E

STEP 02

Contracting

Sign SARE contract with customer and submit to TNBX

Determination of Said Purchase Price

(a) The Said Purchase Price shall be determined by reference to the following table:

Assumed Calculation Date	Value of the Said Purchase Price as
	at the Assumed Calculation Date (in
	RM)
Commencement Date	NA
1 st CD Anniversary Date	
2 nd CD Anniversary Date	
3 rd CD Anniversary Date	
4 th CD Anniversary Date	
5 th CD Anniversary Date	
6 th CD Anniversary Date	
7 th CD Anniversary Date	
8 th CD Anniversary Date	
9 th CD Anniversary Date	
10th CD Anniversary Date	
11th CD Anniversary Date	
12th CD Anniversary Date	
13th CD Anniversary Date	
14th CD Anniversary Date	
15th CD Anniversary Date	
16 th CD Anniversary Date	
17th CD Anniversary Date	
18th CD Anniversary Date	
19th CD Anniversary Date	
20th CD Anniversary Date	
21st CD Anniversary Date	
22 nd CD Anniversary Date	
23rd CD Anniversary Date	
24th CD Anniversary Date	
25 th CD Anniversary Date	

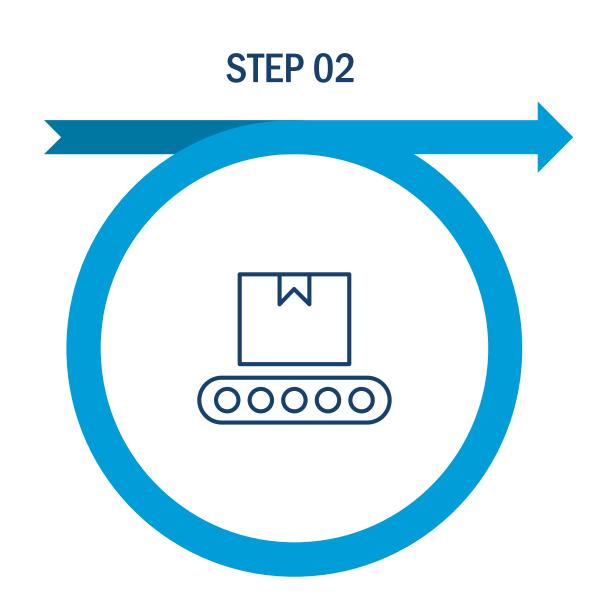


SARE (Appendix F – Owner's Consent Letter)



Agreement details

APPENDIX F



Contracting

Sign SARE contract with customer and submit to TNBX

OWNER'S CONSENT LETTER

To:

SPS Owner

[SPS Owner's Address [•]]

Dear Sir,

RE: CONSENT LETTER TO SPS OWNER TO INSTALL SOLAR PV SYSTEM AND SOLAR ENERGY METER AT THE SAID PREMISES AND THE SITE LOCATED AT [+]

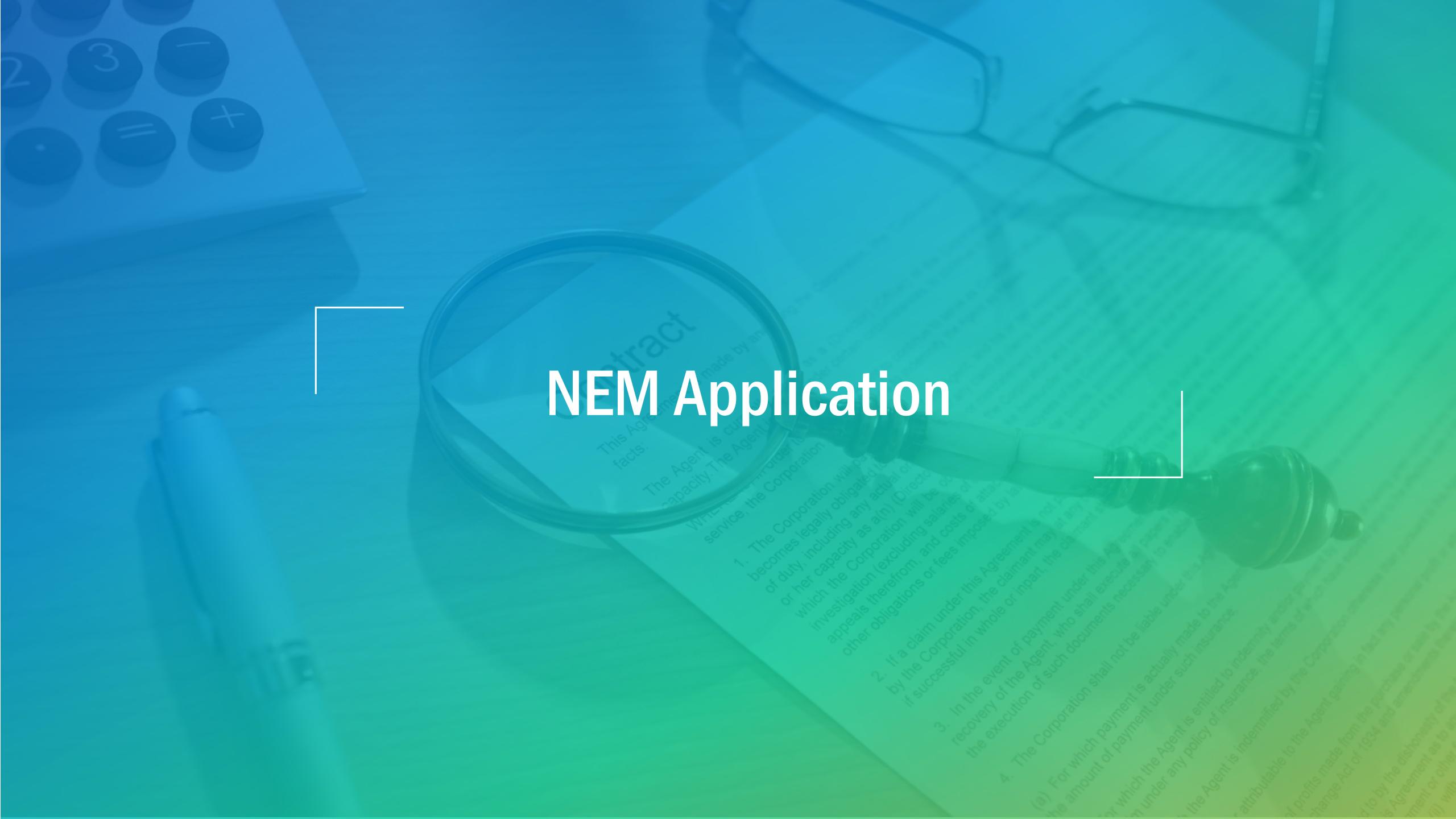
Pursuant to the above, I/we [*insert name, and NRIC or Company Number] *am/are the legal and beneficial owner of the Said Premises and the Site located at [•].

*I/We have entered into a *tenancy agreement/lease agreement with [insert consumer's name] ("the Consumer") for a term of [•] years expiring on [•]. For the purpose of this Agreement, *I/We hereby agree and consent to the installation of the Solar PV System at the Said Premises and the Site for the purpose of generating renewable energy for the consumption of the Consumer.

Signed by

[Name of Owner [•]]

[NRIC No of Owner [•]]

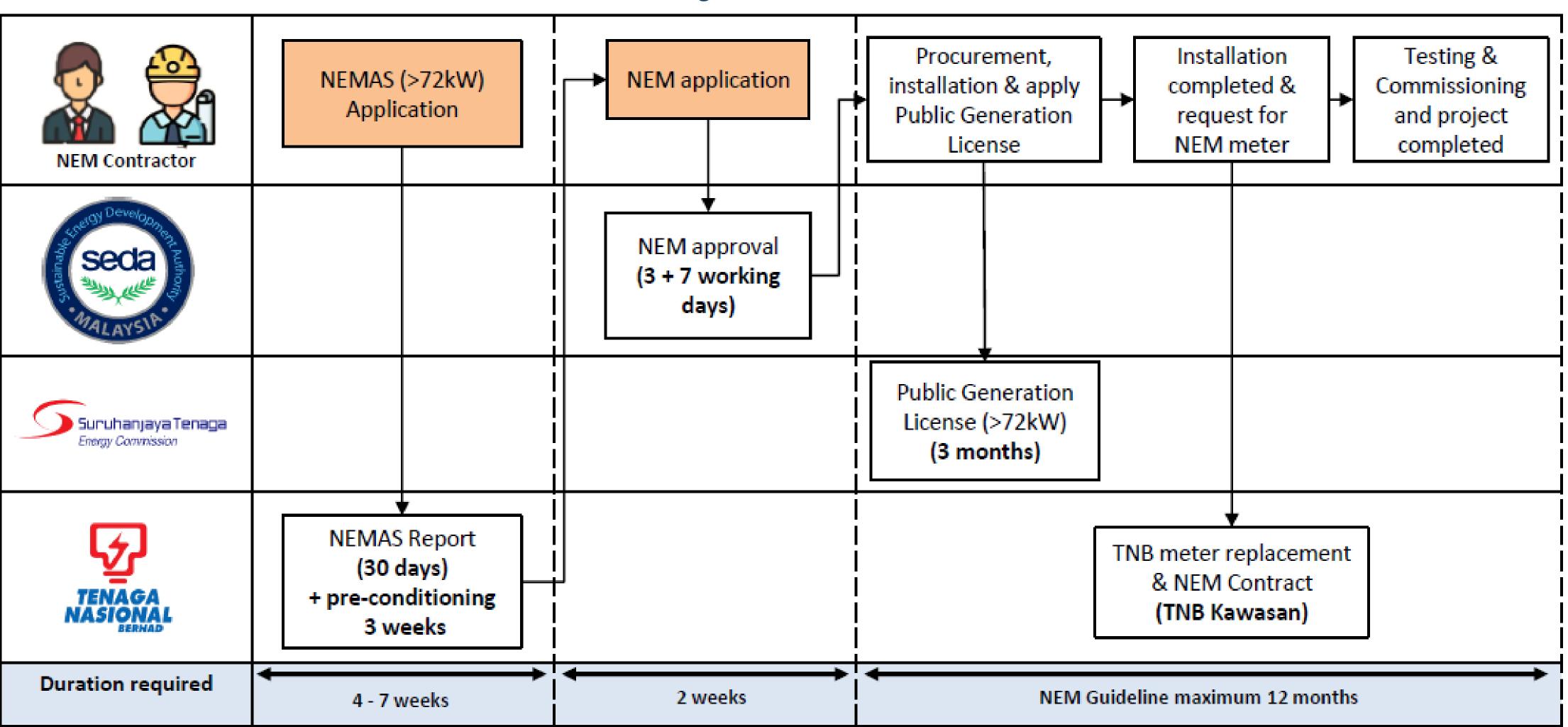




SEDA's NEM Application Process



High level workflow





New NEMAS fees



NEMAS fee as approved by Suruhanjaya Tenaga

Installed Capacity	Study Required	Fee of Study (RM)
1-72 kW	No	-
> 72 kW - 180 kW	Yes	1,000
> 180 kW – 425 kW	Yes	5,000
> 425 kW – 1 MW	Yes	8,000
> 1 MW – 2 MW	Yes	15,000
> 2 MW – 5 MW	Yes	20,000
> 5 MW – 10 MW	Yes	30,000
> 10 MW – 30 MW	Yes	40,000



