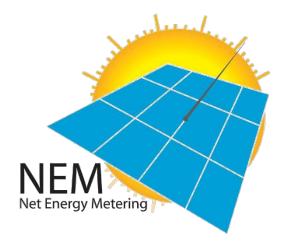


Sustainable Energy Development Authority (SEDA) Malaysia



Briefing on Net Energy Metering (NEM) Scheme

18th April 2017 Eastin Hotel, Penang



What is Net Energy Metering (NEM)?

A mechanism where an <u>eligible consumer installs a solar</u> PV system primarily for his own use and the excess energy to be exported to the grid for which credit to be received that may be used to <u>offset part of the electricity bill</u> for energy provided by the Distribution Licensee (TNB/SESB) to the electricity consumer during the applicable billing period.

For example, if a residential consumer has a PV system on the rooftop, it may generate more electricity than the home uses. The extra electricity produced will provide a credit against electricity that is consumed.



Implementation of NEM

Suruhanjaya Tenaga (Issuer of NEM Guidelines)

SEDA

(Implementing Agency)

DL

(Customer Contract)

Domestic

Customer

Commercial Customer Industrial Customer



NEM Quota (2016-2020)

		Quot	a Alloc	ation (p	propose	ed)					
	Location		P	eninsul	ar				Sabah		
	Year	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Category of Consumers	Domestic/Residential, MWp	20	20	20	20	20	4	4	4	4	4
	Commercial, MWp	35	35	35	35	35	4	4	4	4	4
	Industrial, MWp	35	35	35	35	35	2	2	2	2	2
Sum, MWp		90	90	90	90	90	10	10	10	10	10
Total, MWp (as at 1 st No				450					50		

Note: Quota allocation will be based on first-come first-served basis.



NEM Quota (Live at SEDA's Website: "e-NEM")

-				-					
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Region	Peninsular N	Malaysia				Sabah				
Year	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Domestic (MW)	0.0000	39.7991	0.0000	0.0000	0.0000	0.0000	8.0000	0.0000	0.0000	0.0000
Commercial (MW)	0.0000	69.2865	0.0000	0.0000	0.0000	0.0000	8.0000	0.0000	0.0000	0.0000
Industrial (MW)	0.0000	69.1742	0.0000	0.0000	0.0000	0.0000	4.0000	0.0000	0.0000	0.0000
Total (MW)	0.0000	178.2598	0.0000	0.0000	0.0000	0.0000	20.0000	0.0000	0.0000	0.0000

Quota Taken

Region	Peninsular N	Malaysia				Sabah				
Year	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
Domestic (MW)	0.0210	0.1799	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Commercial (MW)	0.0064	0.7071	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Industrial (MW)	0.0000	0.8258	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total (MW)	0.0274	1.7128	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

*As of 16th April 2017



Eligibility

- ✓ Registered consumers of Distribution Licensees (DL) only in Peninsular Malaysia (TNB), and Sabah & Labuan (SESB)
 - Delinquent consumers who have not paid their bills (blacklisted) and have records of meter tempering are not eligible to apply for NEM scheme
- ✓ Open to all categories of TNB/SESB consumers under the following tariff*:
 - i. Domestic/Residential (*Kediaman*)
 - ii. Commercial (*Perdagangan*) [inclusive of government buildings]
 - iii. Industrial (*Perindustrian*)
 - *Refer to TNB/SESB consumers electricity tariff
- ✓ The resource for producing electricity shall be from <u>Solar Photovoltaic</u> only





Installation Types and Capacity Limits

✓ Installation types:

- on the <u>rooftop of buildings</u>
- ii. on the garage, car park or similar buildings

Note: For ground-mounted system, it may be allowed on case-by-case basis and the installation shall be within the compound of applicant's premises and approved by the Energy Commission.

✓ Capacity limit:

- ➤ For domestic or residential consumers, the allowable maximum capacity of the PV system installed is 12 kWp for single phase system or 72 kWp for 3 phase system
- ➤ For commercial and industrial consumers, the allowable maximum capacity of the PV system installed is 1 MWp or 75% of maximum demand (whichever is lower) or 60% of fuse rating or 60% of current transformer rating



Rooftop Solar PV - Residential









Rooftop Solar PV





Rooftop Solar PV





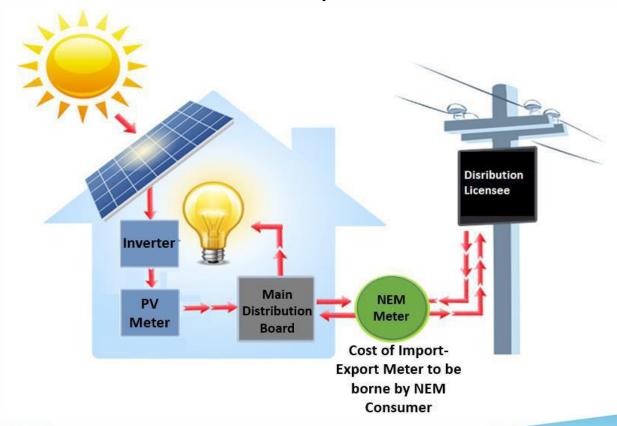
Rooftop Solar PV





Connection Type

✓ The connection to the DL's (TNB/SESB) network shall be done only through <u>indirect connection</u>, i.e. within the owner's internal distribution board only





Excess Energy

The credit (excess energy) to NEM consumer will be based on prevailing Displaced Cost for the relevant supply voltage level at the Point of Common Coupling. The calculation for the net billing of electricity will be based on the following calculation:

✓ Net billing = [Energy Consumed from DL (kWh) x Gazetted Tariff] – [Energy Exported to DL (kWh) x Displaced Cost]

O	Prevailing Displaced	Cost (RM/kWh)
Connection Point	Peninsular Malaysia	Sabah & Labuan
Medium Voltage	0.2380	0.2200
(from 1 kV to 50 kV)	0.2380	0.2200
Low Voltage	0.3100	0.3000
(less than 1 kV)	0.3100	0.3000

✓ The net billing or credit shall be allowed to <u>roll over for a</u>
<u>maximum period of 24 months</u>. Thereafter, the credit will be forfeited.



NEM Assessment Study

- NEM Assessment Study (NEMAS) report is required prior to NEM application to SEDA Malaysia.
- Shall be conducted by the relevant distribution licensee (TNB or SESB). The requirement is based on kWp of installation as below:

Installed Capacity	Study Required	Fee of Study (RM)
1 – 12 kWp	No	-
> 12 kWp – 180 kWp	Yes	1,000.00
> 180 kWp – 425 kWp	Yes	5,000.00
> 425 kWp – 1 MWp	Yes	8,000.00

Note: Study period = 30 days





NEM Assessment Study

Please contact:

TENAGA NASIONAL BERHAD (TNB)

Mr. Sansubari Che Mud

03 - 7967 9346 / 019 - 959 7745 or email Sansubari@tnb.com.my

Sustainable Energy Development

Tenaga Nasional Berhad

No. 129, Jalan Bangsar

59200 Kuala Lumpur

SABAH ELECTRICITY SDN. BHD. (SESB)

Mr. Terrence John Kouju

088 - 282 478 or email terrencek@sesb.com.my

Chief Engineer

Sustainable Energy Development,

Asset Development,

6th Floor, Wisma SESB,

Jalan Tunku Abdul Rahman,

88673 Kota Kinabalu,

Sabah





Load Profile

- > 12 kW, 4 days (Friday to Monday), together with application form.
- > To be prepared & signed by Competent Person (Wireman/PE)

	FORM LOAD PROFILE (FORM LP) - N	NEM Customer Lo	ad Profil	е		
TNB Account Number						
Customer Name						
Installation address						
Service Provider						

FORECAST OF A TYPICAL DEMAND PROFILE

(Friday to Monday for capacity of >12kW)

	Frida	ау				ırday	, , ,		Su	nday			Mon	day	•
Time	Voltage	Amps	MW	Time	Voltage	Amps	MW	Time	Voltage	Amps	MW	Time	Voltage	Amps	MW
7:00				7:00				7:00				7:00			
8:00				8:00				8:00				8:00			
9:00				9:00				9:00				9:00			
10:00				10:00				10:00				10:00			
11:00				11:00				11:00				11:00			
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20:00				20:00				20:00				20:00			
21:00				21:00				21:00				21:00			

Note: Voltage (V) and Current (Amps) must be taken at customer incoming supply

Data taken by:

Signature Name 16



How to Apply? Process Flowchart

Start

Submit application to SEDA Malaysia via appointed RPVSP or REC

Obtain NEM approval and certificate from SEDA

End

Check eligibility of the applicant and the capacity limit based on electricity tariff

Appoint
Registered PV
Service Provider
(RPVSP) or
Registered
Electrical
Contractor (REC)

Perform PV system installation Perform T&C, signing NEM contract and upload all documents at NEM system as proof

Perform the NEMAS for PV system > 12 kWp Seek
confirmation
on the max
capacity from
DL for PV
system > 12
kWp

Apply for public generation license from ST (if applicable) Check and replace (if applicable) the existing DL's meter to a bidirectional meter



How to Apply?

Documents to be submitted by the Applicant:

- i. NEM Application Form (Form A) via online system https://services.seda.gov.my/nem
- ii. Design of installation and Single Line Diagram (SLD) endorsed by relevant Competent Person under Electricity Regulations 1994
- iii.The latest three (3) months electricity bill
- iv.NEM Assessment Study (for application > 12 kW)
- v. Load profile (Friday-Monday) (for application > 12 kW)
- vi.Maximum Demand, fuse or CT rating (if applicable), endorsed by Professional Engineer or Wireman



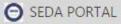


How to Apply?

The NEM Application Form shall be accompanied with information as stipulated in Form A:

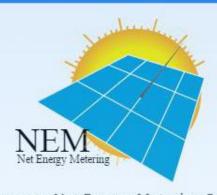
- a) Applicant's Profile (Individual/Company/Other Entities)
- b) Information of project
- c) Technical information
- d) Proposed work plan











Welcome to Net Energy Metering System

Service Provider/Contractor Login

Please use your NEM Contractor credentials to login.

User ID

Password

Login

Forgot password?

Not a Service Porvider/Contractor?

NEM's Contractor Registration

Applicant login

This system functions best with Google Chrome and Mozilla Firefox browsers

NEM System 1.0.0 | SEDA Malaysia @ 2011-2017

Quota Balance					
Region	Peninsular N	Malaysia			
Year	2016	2017	2018	2019	202
Domestic (MW)	0.0000	39.8031	0.0000	0.0000	0.00
Commercial (MW)	0.0000	69.2865	0.0000	0.0000	0.00
Industrial (MW)	0.0000	69.1742	0.0000	0.0000	0.00
Total (MW)	0.0000	178.2638	0.0000	0.0000	0.00

Region	Peninsular N	Aslaveia			
Region	remisular i				
Year	2016	2017	2018	2019	202
Domestic (MW)	0.0210	0.1759	0.0000	0.0000	0.00
Commercial (MW)	0.0064	0.7071	0.0000	0.0000	0.00
Industrial (MW)	0.0000	0.8258	0.0000	0.0000	0.00
Total (MW)	0.0274	1.7088	0.0000	0.0000	0.00



Things You Need to Know

✓ NEM Application and Installation

Application can be made either by Registered PV Service Providers (RPVSPs) or ST's Registered Electrical Contractors (RECs) via online at SEDA's portal. Installation shall be done and endorsed by ST's Registered Electrical Contractor.

✓ Verification and approval

NEM application shall be processed by SEDA within 30 days from the date of complete submission. NEM certificate will be issued to the successful applicants.

✓ Application fee

The application fee for NEM scheme shall be at a rate of RM10/kWp during application. The fee paid is not refundable even if the application is unsuccessful or rejected.

21



Things You Need to Know (cont.)

✓ NEM meter

TNB/SESB's existing meter shall be bi-directional (with import-export feature). The replacement (if required) shall be borne by NEM consumer. Consumer may install check meter for export measurement — of the same type prescribed by TNB/SESB.

✓ Goods and Services Tax (GST)

Each energy exported to the grid under the NEM scheme is <u>subjected to GST</u> and if NEM consumer is a GST-registered person or company, he/she shall invoice the DL for the electricity exported to the grid. The calculation of tax involved for the exported energy will be based on the following calculation:

Invoice to DL = Energy Exported to DL (kWh) x Displaced Cost x 6% GST





Q: What is the maximum duration allowed from application to proposed NEMCD?

A: <u>12 months</u> from the date of NEM application until the date of proposed NEM contract with TNB/SESB, failing which the quota allocated will be refused and offered back to other potential NEM applicants.

Q: What types of meter are required for NEM?

A: 2 types of meter are required as below:

- i. TNB/SESB's bi-directional meter (with import-export feature) to record the amount of electricity consumed, produced or exported;
- ii. PV meter/data logger/inverter with monitoring feature to record the total amount of electricity generated by the PV system.

Optional - May install check meter for measurement of the energy export (if applicable) and shall be of the same or equivalent to the standards of the consumer meter installed at the premises by TNB/SESB;



Q: Am I eligible to participate in NEM?

A: Yes, as long as you are a customer of TNB/SESB. The basis is always your electricity bill. Please ensure you are a registered customer of TNB/SESB (your name/ company as appeared in the TNB/SESB bill), only then you are eligible to participate in NEM.

Q: If I plan or have installed Solar PV system for self-consumption (SELCO) and have taken the necessary steps to ensure no reverse flow or energy exported to the grid, do I need to apply for NEM?

A: No, but for PV system with capacity above 72 kWp, generation license (private) from ST is required and subject to complying with the relevant rules under the Electricity Supply Act (ESA).

Q: How long is the validity period of the NEM contract?

A: The NEM contract shall be effective on the day of NEM contract signing with both parties. The NEM contract shall remain in effect unless otherwise terminated by either party or cancellation of the main electricity contract.



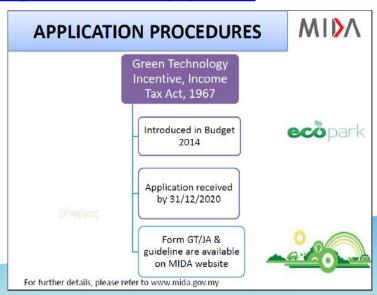
Q: Is a non-local / 100% foreign company eligible to participate in NEM?

A: Yes, as long as he/she/it is a customer of TNB/SESB.

Q: What types of incentives available for NEM consumers?

A: At the moment there is fiscal incentives offered to eligible companies in the form of Green Technology Incentive by Malaysia Investment Development Authority (MIDA), available until 2020.

http://www.mida.gov.my/home/tax-incentives-for-green-industry/posts/





NEM: Documents and Downloads

<u>www.seda.gov.my</u> → Net metering

- NEM guidelines
- Manual application form and e-NEM System (online application)
- > NEM contract
 - Domestic/residential
 - Non-domestic (commercial & industrial)
- Technical guideline for connection of indirect solar PV under NEM scheme
- Procedure for NEM Meter application and signing NEM contract with TNB







Application Form

Form A (NEM Application Form)

Pleas calest your registration from the Sustainable Parest Development Authority	For office our anim
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NET-ENERGY METERING (NEM) APPLICATION FORM

Gelaran/Salutation	(Encik/Fuery/Cik/Geleren Lein No. Mykad:
	(Mr./Mrs./Miss/Other Salutation) identity Card No. atam / or
lama / Nome	No. Pasport (bagi bukan wanganegara Malaysia) / Passport No. (For non-Malaysian)
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2.4 MAKLUMAT TEKNIKAL / T			
Peralatan / Equipments	Jenama / Brond	Model	Kuantiti / Quanti
s) Modul/ Module			
jenis / type (manocrystalline/			
polycrystolline/ thin			
film/otherd			
b) Penyongsang / Inverter			
c) Datalogger			
(Optional) *For capacity			
more than 72kWp will be required for T&C purpose			
required for raic purpose		-	
2.5 TEXNIKAL PENILAIAN KEN	DIBS / TECHNICAL SELF ASSESSI	MENT	
*Hanya Untuk Kategori Komer	sial atau industri / Commercial i	or Industrial Category Only	
Permintaan Puncak Waktu Sia	ng / Daytime Peak Demand (12a	m to Jpm):	AWIOC
Permintaan Terendah Waktu S	liang / Daytime Lowest Demand	(11am to 3pm):	kWac
	rkan / Declared Maximum Dem ytiharkan / 75% of Declared Ma		kw/kva kw/kva
	ytiharkan / 75% of Declored Mo yatokon purato MD / If premis is >		awaya VA
Note: Data skan diambil pada ino	oming supply pelanggan. Sila rujuk	Form Load Profile (Form LP) - N	EM Customer Load Profile
Note: Data will be taken at custor	mer incoming supply. Please refer F	orm Load Profile (Form LP) - NEA	f Customer Load Profile
	IN SURIA FOTOVOLTA BERDAFT		
	ERED PV SERVICE PROVIDER (RI	PVSPJ OR ST'S REGISTERED EL	ECTRICAL CONTRACTOR
Nama Syarikat / Compony's No	ome:		
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ftaran Junutera Professional /	
of Engineer Registration No.	
E000000 000 000 000 000 000 000 000 000	
	5.2 PENGISYTIHARAN RIPUSP ATAU KONTRACTOR ELEKTRIK / RPVSP OR ELECTRICAL CONTRACTOR DECLARATION
ILED BY APPLICANT (NON-INDIVIDUAL) (if applicable)	Untuk diss aleh Orang Yang Kompeten / To be completed by Competent Person.
INTER BY MALTICHAY THOUSE WITH AND AND WITH THE WASHINGTONES.	A STATE OF THE PROPERTY OF THE
	Company's Name:
	Company Registration No. or Business Registration No.
a (designation)	Company negatronion No. or austress negatronion No.
and (address of the Company/Organization/etc)	
	By signing this form, I (Nome)
	declare that:
rized representative of this Applicant sincerely declare the following:	 I am representing the owner of the premise and the information furnished above is true to my knowledge and belief;
rized: representative of this Applicant sincerely declare the following:	# I confirm that the solar PV system design comply to the standards IEEE 1547, MS 1837 and other relevant requirements as
	per prodest utility practices;
ereby authorize (name of the Competent Person)	III. I also verify that the site condition is fit for installation of the solar PV system as per applicable regulations;
/Pasport No.:as the Competent Person to act on my behalf to manage my NEM application;	is. I hereby acknowledge that all information given are true and the SEDA Malaysia shall have the right to take any action if
rreby declare myself with MyKad No./Pasport No.:	the above information are false;
n NEM application: (please strikethrough where applicable):	
preby attest that the Competent Person appointed here is a Competent Person within the definition of a Competent	
son under Electricity Supply Act 1990 [Act 447] and the regulations thereunder;	
reby confirm that I have not committed any offences under the Electricity Supply Act 1990 [Act 447] and/or any other	
evant laws and regulations pertaining to the supply and licensing of electricity;	
reby certify that all information given is true and correct to my knowledge and belief;	
idenstand and agree that SEDA Malaysia will have the right to take any action including to forfeit all initial fees paid, if	
y of the information given is false;	
OA Malaysia shall not be held liable for any loss, damage and inconvenience suffered by me after my application has	
m approved by SEDA Molaysia;	
ereby agree, understand and will comply with all the relevant laws and guidelines applicable to this application; and	
whatever reason if my application is rejected by TNB/SESB after my application being approved by SEDA Malaysia, all	Name of Competent Person:
olication fees paid by me or by the authorized Competent Person to SEDA Malaysia shall not be refunded.	MyKad No./Passport No.:
	Date:
	Competent Person Stamp :

Name of the Authorized	
Representative:	
Designation:	
Mykad No. / Possport No. :	

BAHAGIAN 3: IADUAL KERIA YANG DICADANGKAN / SECTION 3: PROPOSED WORK PLAN

NEM Billing

BIL ELEKTRIK DAN INVOIS CUKAI

No. Akaun : 1510 00129055 01 No. Kontrak : 131429

Deposit : RM500.00 : 206129820 No. Invois Cukai

NEM CUSTOMER 12, JLN PING PONG **SEKSYEN 20**

40100 SHAH ALAM SELANGOR







15454 (Gangguan bekalan)

f	trocarelne@nb.com.my
0	www.tnb.com.my
o	www.faceboot.com/tribcareline

Jumlah	Perlu	Dibayar	RM	265	80

ouillali Fellu Dibayai KM 200.00					Tallkii Bil . 04.03.2010		
		Amaun	Bayar Sebelum				
Tunggakan	RM	-					
Caj Semasa	RM	265.82	04.04.2016				
Penggenapan	RM	-0.02					
Jumlah Bil	RM	265.80					
Bil Terdahulu (02.02.2016)	RM	389.50	Bayaran Akhir (20.02.2016)	RM	389.50		
Jenis Bacaan	В	acaan Sebenar					

Fempoh Bil : Fariff :		02.02.2016 - 04.03.2016 (31 Hari) A - 13 (Domestik)	Faktor Prorata 1.00000		
Blok Tarif (kW	/h)	Blok Prorata (kWh)	Kadar (RM)	Amaun (RM)	
200	100711	200	0.218	43.60	
100		100	0.334	33.40	
300		300	0.516	154.80	
300		274	0.546	149.60	
Jumlah		874		381.40	

Keterangan		Tidak Kena GST	Kena GST	Jumlah	
Kegunaan (kWh Import)	kWh	300	574	874	
Kegunaan	RM	77.00	304.40	381.40	
ICPT (RM0.0152-)	RM	-4.56	-8.72	-13.28	
Kegunaan Bulan Semasa	RM	72.44	295.68	368.12	
6% GST (6% x RM295.68)	RM	1000		17.74	
KWTBB (1.6%)	RM			6.10	
Jumlah Caj Semasa Import	RM			391.96	
kWh Eksport: 500 @ RM0.238	RM		119.00	119.00	
6% GST (6% x RM119.00)	RM			7.14	
Jumlah Caj Semasa Eksport	RM			126.14	
Jumlah Caj Bersih	RM			265.82	

No Meter	Faktor Meter	Bacaar	Meter	Kegunaan	Unit
		Dahulu	Semasa	•	
M98044931	1.0000	6719	7593	874	kWh Import
M98044931	1.0000	4000	4500	500	kWh Eksport



Untuk maklumat bil dan bayaran terdahulu, sila https://e-services. tnb.com.my/eservices

Untuk pertanyaan, sila hubungi: TNB Shah Aalm XXXX XXXX XXXX Tel: 03-xxxxxxxxxx Fax - 03-xxxxxxxx

Subsidi Bahan Api Dibiayai Kerajaan Persekutuan RM62.15

GST bagi penggunaan domestik 300kWh dan ke bawah berkadar

KWTBB - Kumpulan Wang Tenaga Boleh Baharu

ICPT - Imbalance Cost Pass Through / Pelepasan Imbangan Kos Penjanaan

NEM CUSTOMER 12, JLN PING PONG **SEKSYEN 20** 40100 SHAH ALAM SELANGOR





What are the benefits of NEM to the consumers?

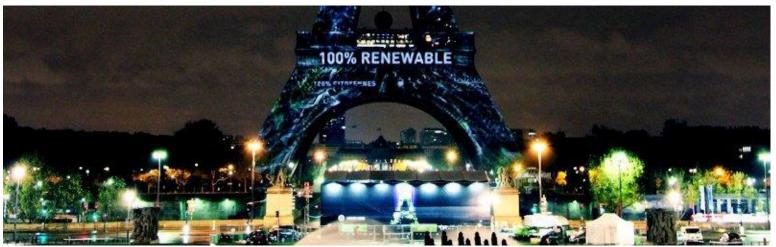
- ➤ Encourage consumers to play an active role in renewable energy (RE) generation, which addresses climate agenda and national energy security
- > Reduction in greenhouse gas emissions
- ➤ Hedge against any possibility of future electricity tariff increase
- Availability of power for consumer during grid failure (if energy storage system is incorporated)







Malaysia's Commitments





Malaysia's NDC: reduce its GHG emissions intensity of GDP by **45% by 2030** relative to the emissions intensity of GDP in 2005

Target for RE Mix in Electricity Generation

Targer for KE IVIIX IN Electricity Generation

<u>2020</u> 20%



2025 23%

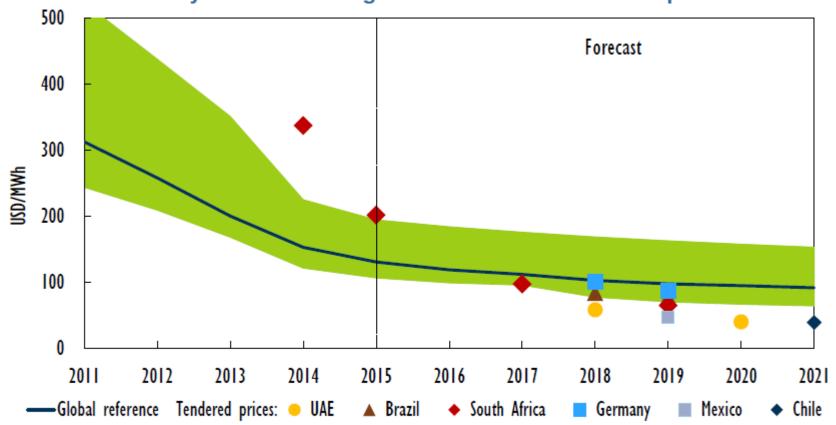


<u>2030</u> 25%



Solar PV Costs Continue to Decline Globally



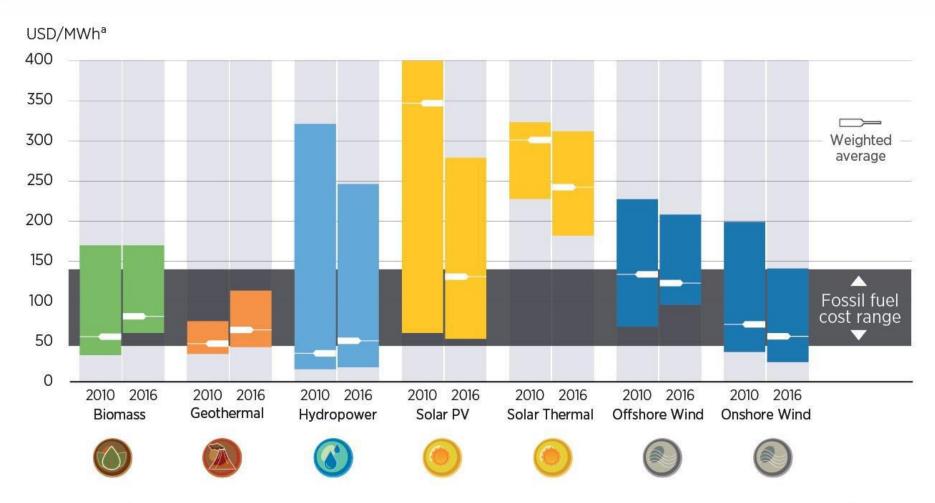


Utility-scale solar PV generation costs to fall by another quarter over 2015-21; competitive tenders may result in even faster cost reductions

Source: IEA 31



Comparison of LCOE of Various RE Sources



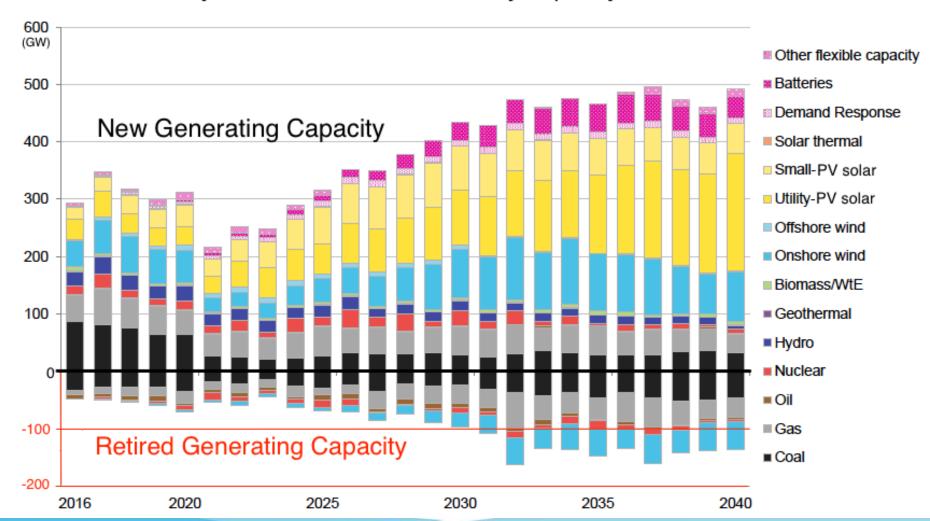
Levelised cost of electricity for utility-scale power (ranges and averages), 2010 and 2016

Source: IRENA



Solar Will Soon Dominate

Over the next 25 years, 68% of new electricity capacity will be renewable





Dare We Dream a 100% RE Scenario?

"The transition to a world that runs on 100% renewable resources is not a choice, but an inevitability."

- Arash Aazami, Founder of Kamangir - Beyond Boundaries



Source: IRENA

Already Running on 100% RE

- Costa Rica
- Iceland
- Lesotho
- Certain states and cities in various countries in North America & Europe

Targeting to Have 100% RE

- 47 developing countries pledged to go 100% RE during COP22
- Nordic countries
- RE100 companies
- Many other states and cities

For further enquiries, please contact:

Thank You

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