



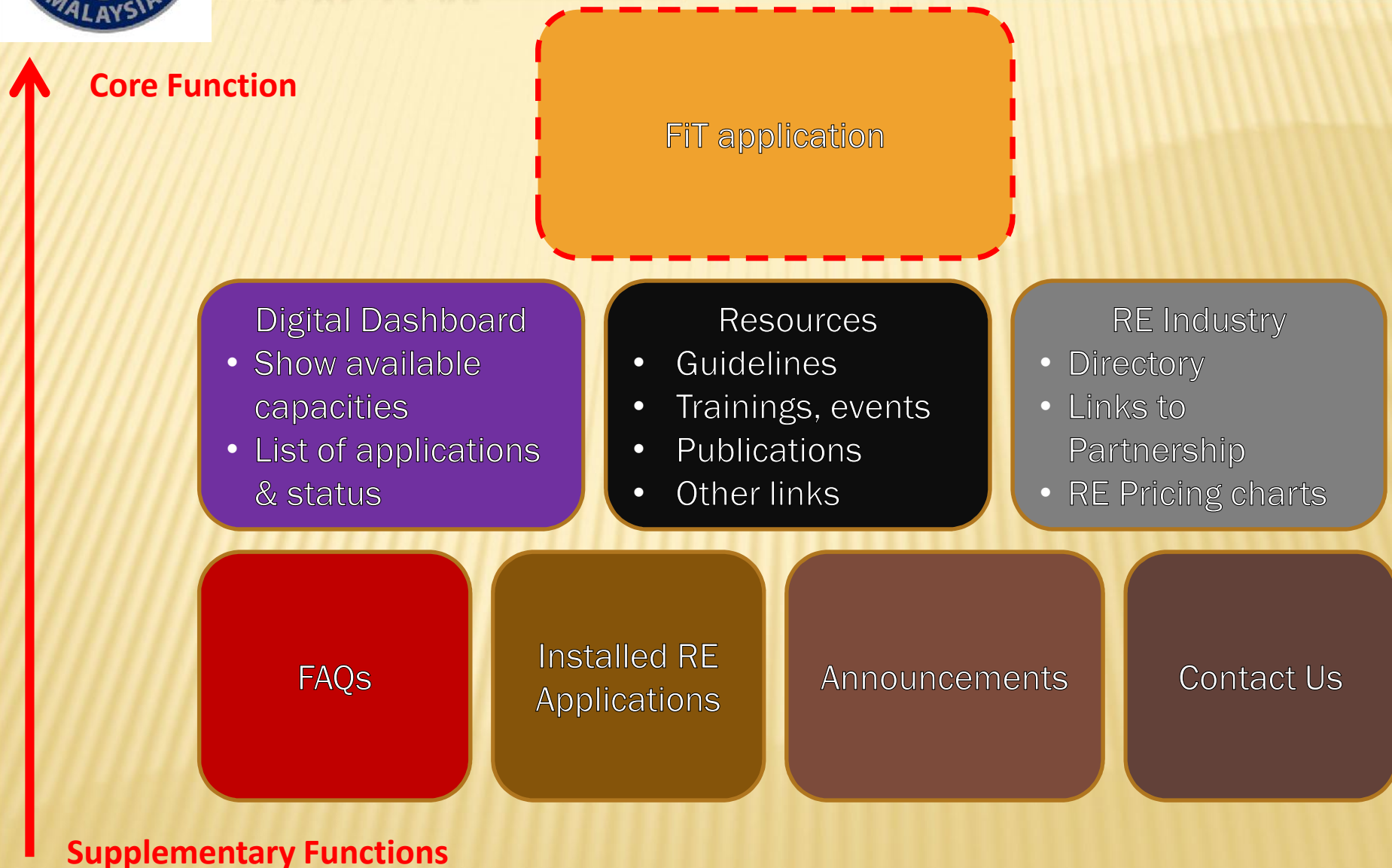
FEATURES AND PROCESSES OF THE FEED IN TARIFF

RE FINANCING WORKSHOP BANK NEGARA MALAYSIA
12TH APRIL 2012

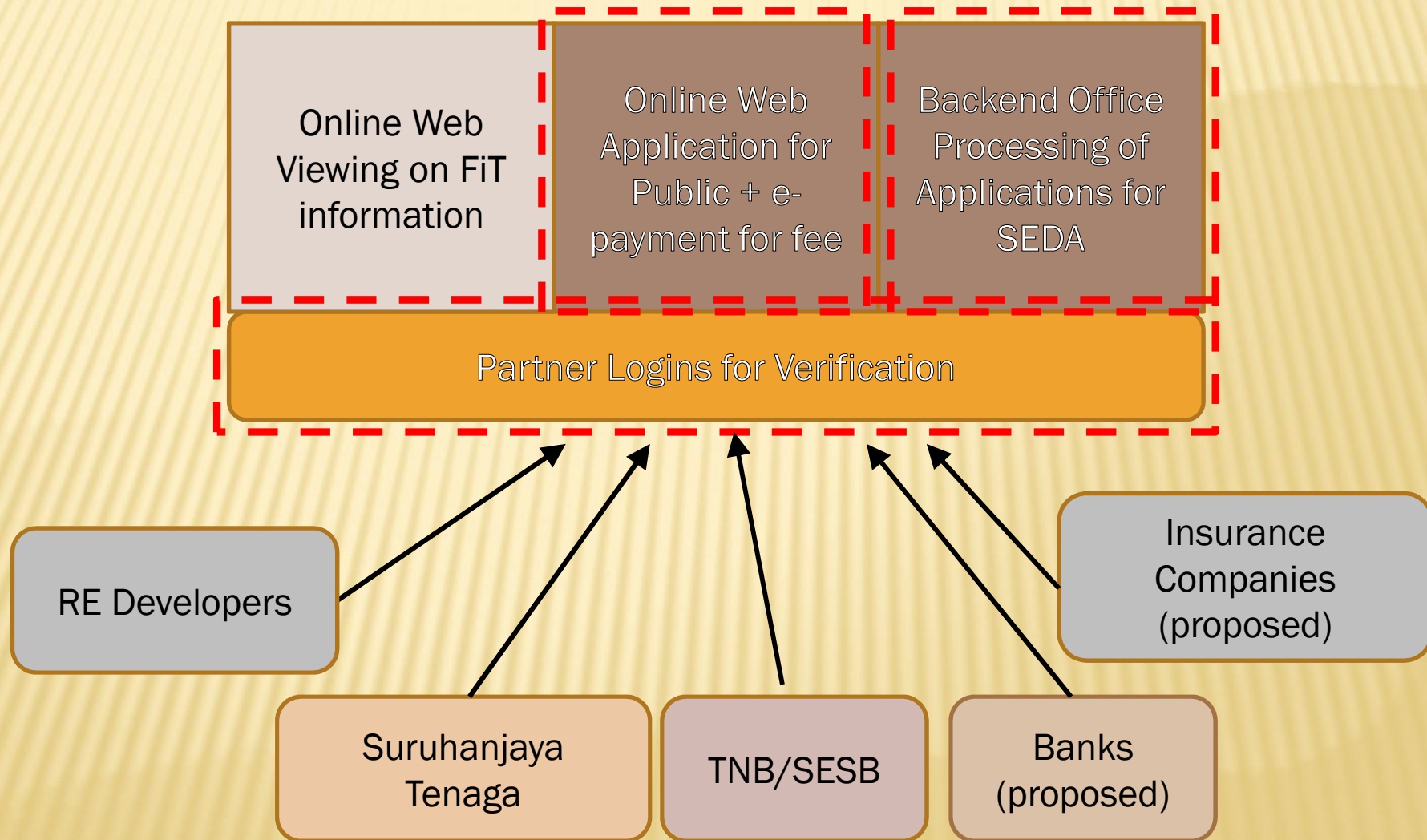
Ir. Ali Askar Sher Mohamad
Chief Operating Officer SEDA



COMPONENTS OF FEED-IN TARIFF ONLINE SYSTEM



CONCEPT OF FEED-IN TARIFF APPLICATION



----- Secured access



E-FIT MODULES

1. FIT
Application

2. Projects
Files

3. RE Tracking
& Monitoring

4. FIT Quota
Balancing

5. Financial: RE
Fund Balancing

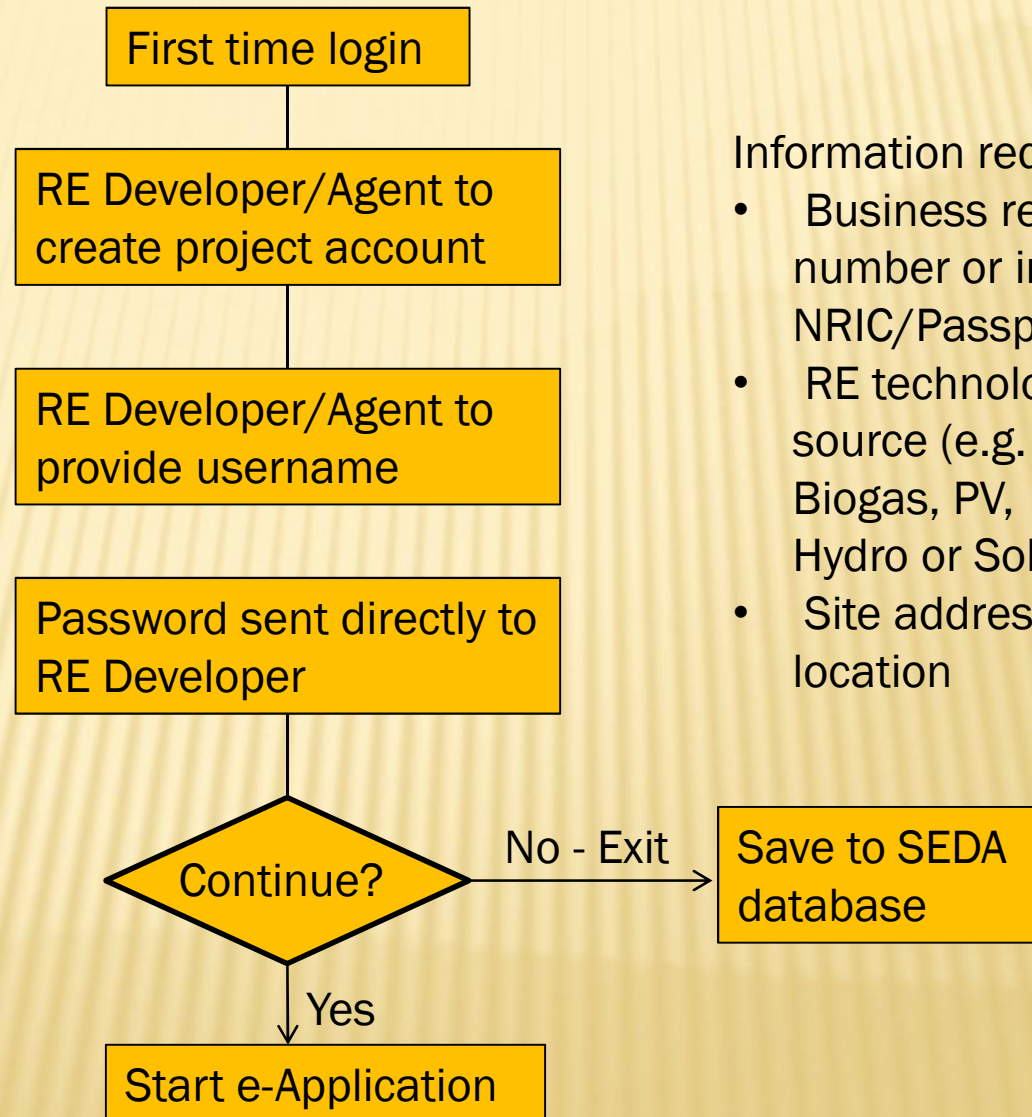
6. Statistics &
Reports



THE FIT APPLICATION PROCESS

RE DEVELOPER ACCOUNT CREATION

Note: RE developer is advised to sign agreement with Agent to avoid disputes after getting the quota



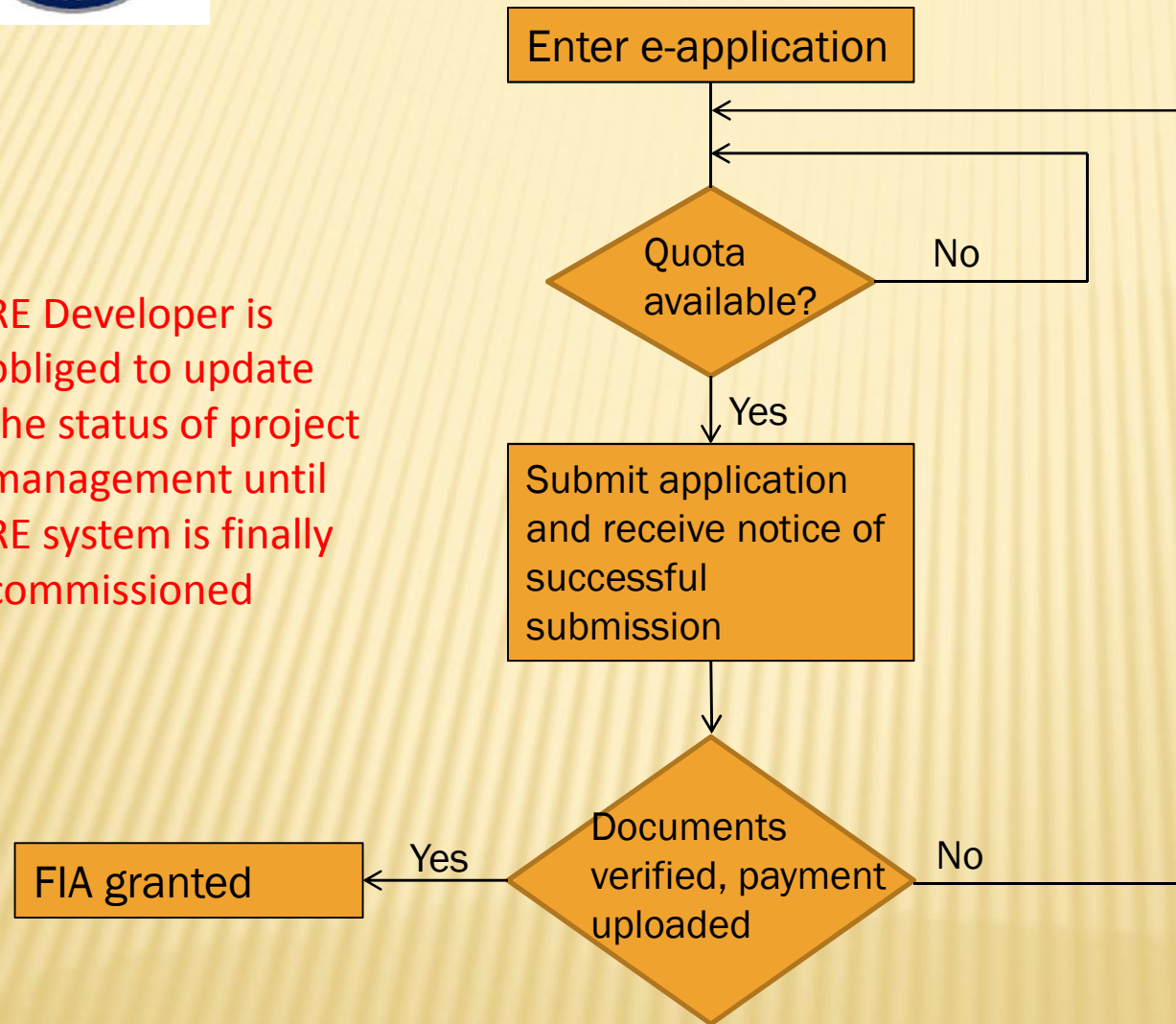
Information required:

- Business registration number or individual NRIC/Passport number
- RE technology or source (e.g. Biomass, Biogas, PV, Small Hydro or Solid Waste)
- Site address or location



E-APPLICATION FOR QUOTA

RE Developer is obliged to update the status of project management until RE system is finally commissioned



Among the

documents required:

- Engineering design
- Proof of ownership
- Proof of secured feedstock/water rights
- Proof of Finance and Equity
- Utility approval for grid connection
- Certificates of Qualified Persons
- Declaration form



Annual RE Quota 2012-2014

	Biogas	Biogas - Sewage	Biomass	Solid- Waste	Small Hydro	Solar PV < 1MW	Solar PV > 1MW	Total
Year	MW	MW	MW	MW	MW	MW	MW	MW
2011/ 2012	20	10	60	20	30	10	40	190
2013	20	10	50	30	30	10	40	190
2014	20	10	50	30	90	10	40	250



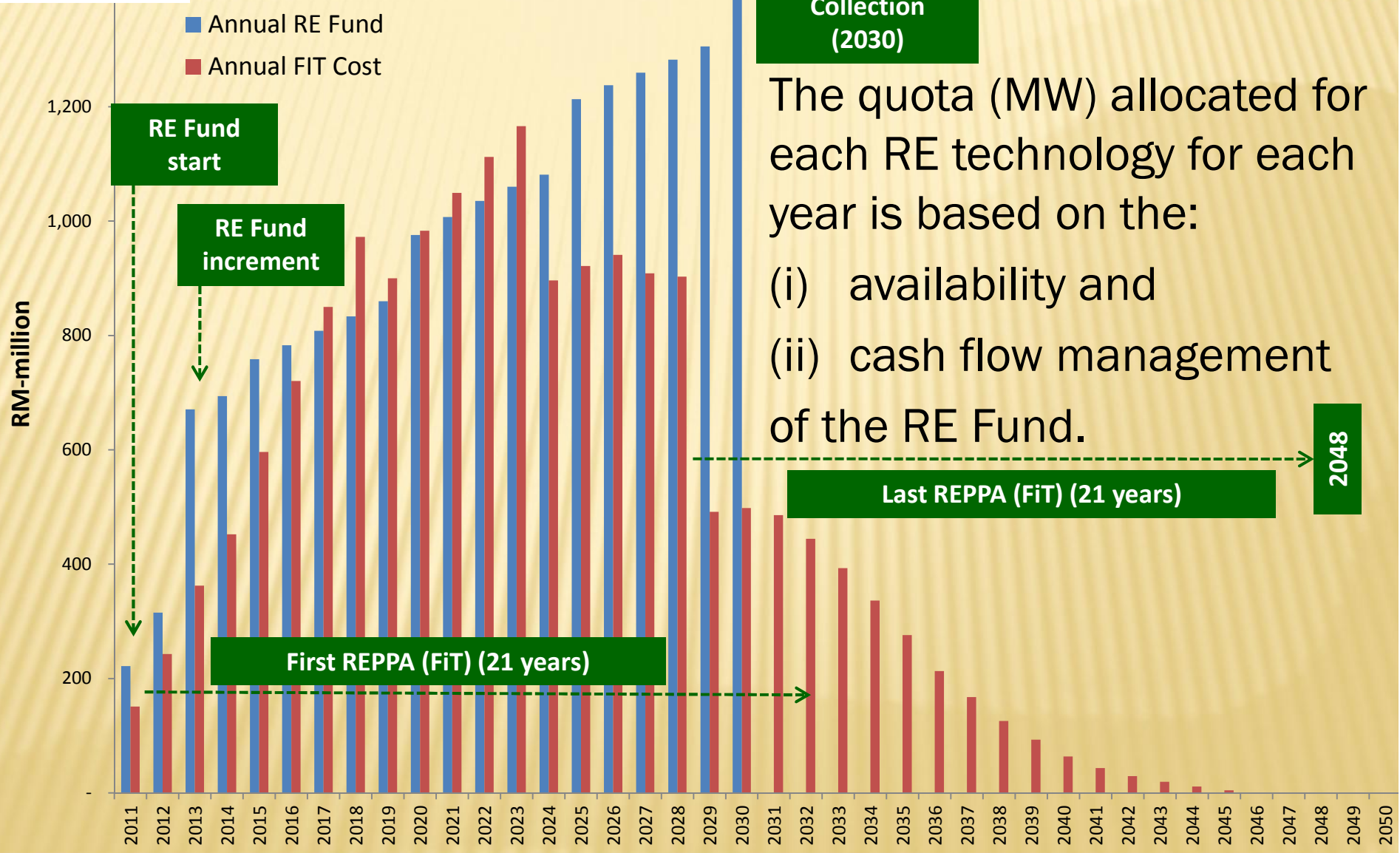
THE FIT QUOTA – AS AT 5TH APRIL 2012

Available MW installed capacity for FiT Application	2011 / 2012		2013		2014	
	H1	H2	H1	H2	H1	H2
Biogas	10	5.65	10	10	10	TBA
Biogas (Landfill / Sewage)	0	0.88	0	5	5	TBA
Biomass	8.81	5.58	6.62	9.79	18.94	TBA
Biomass (Solid Waste)	3.71	10	15	15	15	TBA
Small Hydro	3.10	12.02	4.67	6.04	29.36	TBA
Solar PV						
Individual (< 12 kW)	0	0	0.29	2.18	2.49	TBA
Non-individual (< 500 kW)	0	0	0	0	0	TBA
Non-individual (> 1 MW, < 5 MW)	0	0	0	0	0	TBA



UNDERSTANDING HOW THE QUOTA WORKS

Annual RE Fund vs Annual FiT Cost



Final RE Fund
Collection
(2030)

The quota (MW) allocated for each RE technology for each year is based on the:

- (i) availability and
- (ii) cash flow management of the RE Fund.

Last REPPA (FiT) (21 years)

2048

First REPPA (FiT) (21 years)

FINANCIAL FEATURES OF THE FIT

- ✗ RE Power Purchase Agreement (REPPA) to be signed by the Feed in Approval Holder (FIAH) with the Distribution Licensee (DL) is standardized
 - + Rate is fixed
 - + Period is fixed
 - + No negotiations with the DL
 - + DL is required by law to sign the REPPA within 30/60 days
- ✗ Upon completion of the plant, DL is required by law to connect to the grid and buy the generated power
 - + Reliability run and testing and commissioning procedures are streamlined and clear
 - + DL is required to connect within 30/60 days of written notice by FIAH

DECLARED ANNUAL GENERATION

- ✘ FIAH has to declare the expected annual generation for each year throughout the REPPA period to be sold to the DL during the application stage
 - + This forecast cannot be changed after submission
 - + FIAH can only sell maximum 100 % of declared generation at FIT rate
 - + 10 % above maximum can be sold to DL at displaced cost (19 sen per kWh at present)
 - + Above 110 %, selling price is subject to negotiation between FIAH and DL and approval by SEDA
 - + No penalty if unable to meet generation forecast for installations with net export capacity < 10 MW or PV installations with installed capacity < 12 MWp
 - + LD only for installations > 10 MW net export or > 12 MWp for PV if unable to meet 70 % of declared annual generation
 - + However, SEDA will withdraw FIT if installation unable to supply 35 % of declared annual generation for any capacity
 - + FIAH is encouraged to take insurance against the plant not meeting forecast generation

THE REPPAs

Renewable Resource	Form	Capacity
Biogas	<u>Form BG1</u>	Net export capacity of up to and including 10 MW
	<u>Form BG2</u>	Net export capacity of above 10 MW and up to and including 30 MW
Biomass	<u>Form BM1</u>	Net export capacity of up to and including 10 MW
	<u>Form BM2</u>	Net export capacity of above 10 MW and up to and including 30 MW
Small Hydropower	<u>Form HP1</u>	Net export capacity of up to and including 10 MW
	<u>Form HP2</u>	Net export capacity of above 10 MW and up to and including 30 MW
Solar PV	<u>Form PV1</u>	Rated kWp of up to and including 1,000 kWp
	<u>Form PV2</u>	Rated kWp of above 1,000 kWp and up to and including 12,000 kWp
	<u>Form PV3</u>	Rated kWp of above 12,000 kWp and up to and including 30,000 kWp and utilising solar photovoltaic technology as its renewable resource

FEATURES OF THE REPPAs

- ✗ [REPPA PV 1.pdf](#)
- ✗ [REPPA PV 2.pdf](#)



THANK YOU

PEOPLE FIRST, PERFORMANCE NOW!

aliaskar@seda.gov.my