



# INTRODUCTION OF ENERGY AUDIT CONDITIONAL GRANT FOR COMMERCIAL BUILDINGS (P29001000010004)

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# INTRODUCTION



**ELEVENTH  
MALAYSIA  
PLAN**  
2016-2020  
ANCHORING GROWTH ON PEOPLE



## RMK 11 Energy Audit Conditional Grant Project;

- ❖ Embarked under the RMK11 Energy Efficiency Projects (2016 – 2020).
- ❖ In general the project component consists of ;
  - **Energy Auditing** (3 years project starting in 2016 - 2018.)
  - **Implementation of the Energy Saving** Measures, including Monitoring & Reporting (until 2020).
  - **Capacity building & trainings.**
- ❖ Energy audit is a systematic process to understand how and where the energy being used, to explore on how to manage it and identify the energy savings potential.



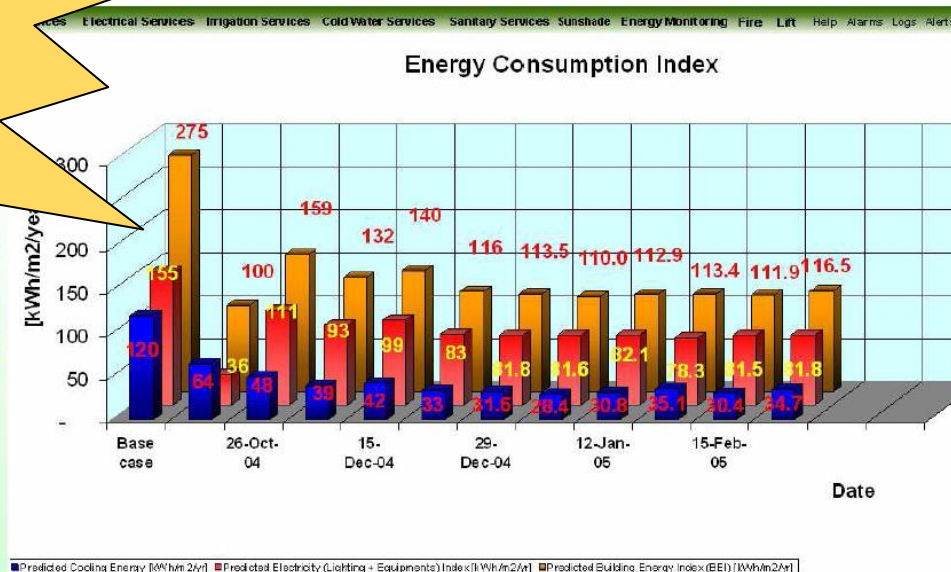
# INTRODUCTION



## RMK 11 Energy Audit Conditional Grant Project;

- ❖ Open to any existing commercial and industrial building which are using electrical energy more than 100,000 kWh per month.

**NOW OPEN to any  
commercial buildings  
with usage  $\geq$   
100,000kWh per month**



# INTRODUCTION



## RMK 11 Energy Audit Conditional Grant Project;

### ❖ Implementation of project;

- Executing Ministry : Ministry of Energy, Green Technology & Water (KeTTHA).
- Secretariat : Energy Commission
- Implementing agencies :
  - a) **Commercial Building Sector : SEDA Malaysia.**
  - b) Industrial Sector : GreenTech Malaysia.

### ❖ SEDA Malaysia to promote, facilitate and process the application by the commercial buildings owner.





# OBJECTIVES



- ❖ To provide awareness the importance of implementing energy audits as part of energy efficiency and conservation exercise.
- ❖ To provide financing assistance to the eligible applicants through grant, as a catalyst for the implementation of energy audit, in order to identify the current energy consumption pattern, setting the Baseline and identify the energy savings potential.
- ❖ To provide a platform and facilitation for the implementation of energy saving measures based on the energy audit report outcome.
- ❖ To ensure electrical energy saving achieved through the implementation of the energy saving measures proposed in the energy auditor report.
- ❖ Development of capacity building in industry to meet the demand of energy audit activity in the commercial sector / industry.



# WHO ARE ELIGIBLE TO APPLY?



## ❖ Any existing commercial buildings.

- Using electricity  $\geq 100,000$  kWh/month
- ✓ Must have or appoint **a person who will in charge (focal point) on energy management matter** in the building / organisation.
- ✓ **Appoint an Energy Service Company (ESCO)** to do the energy auditing. The ESCO shall be registered with Energy Commission (or relevant authority in Sarawak).

*\*The list of ESCO can be found at [www.st.gov.my](http://www.st.gov.my) > Consumer > Electricity > List of Registered Energy Service Company (ESCO)*

# WHO ARE ELIGIBLE TO APPLY?



## ❖ **ADDITIONAL REQUIREMENT (not relevant in Sarawak):**

For commercial buildings which are **listed under the *Efficient Management of Electrical Energy Regulation 2008 (EMEER)*** by Energy Commission.

- High energy consumer.
- Using electrical energy equivalent or more than 3,000,000 kWh for 6 consecutive months.
- ✓ Must already have or appoint **a registered electrical energy manager** as required under the EMEER 2008.
- ✓ **Appoint an Energy Service Company (ESCO)** to do the energy auditing. The ESCO shall be registered with Energy Commission.



# THE CONDITION OF THE ENERGY AUDIT GRANT



- 1) The energy audit shall be **conducted by the Energy Service Company (ESCO)** registered with Energy Commission / relevant authorities (for buildings in Sarawak).
  - 2) The energy audit exercise must be **completed within 2 months** starting from the date of contract signing with SEDA Malaysia.
  - 3) **To implement energy saving measures.**
    - The cost of implementation is equal or more than the amount of energy audit grant received.
  - 4) The implementation of the energy saving measures are;
    - **according to energy audit report**, and
    - shall be **within 3 years** after the energy audit completed.
- ❖ ***However, for the benefit of the applicant, the No Cost Energy Saving Measures should be implemented immediately***



# THE CONDITION OF THE ENERGY AUDIT GRANT (cont'd)



- ❖ The energy saving target is **5% per year in 3 years (15% total refer to baseline)**

	Energy Saving Measures Recommended in the Energy Audit Report	Minimum Energy Saving to Achieve	Period of implementation
1	No Cost Energy Saving Measures	Minimum 5% energy saving compared to baseline.	1 <sup>st</sup> year
2	Low Cost and Medium/High Cost Energy Saving Measures	Minimum 5% per year energy saving compared to baseline	2 <sup>nd</sup> and 3 <sup>rd</sup> Year
	<b>Total Energy Saving Measures implemented</b>	<b>Total minimum of 15% compared to baseline</b>	

# Term Of Reference

## Phase 1 – Energy Auditing



Applicant is responsible to:

- ❖ Nominate the **focal point / person in charge** for the project.
- ❖ Appoint **own Energy Service Company (ESCO)** that registered with Energy Commission to conduct the energy auditing exercise.



# PHASE 1

# Term Of Reference

## Phase 1 – Energy Auditing



Applicant is responsible to;

- ❖ **Submit 2 invoices** (upfront and final payment) to SEDA Malaysia for payment purposes. Applicant is responsible to pay the additional charges such as GST and/or other taxes.
- ❖ **Attend the energy management training** conducted by SEDA Malaysia under the project.
- ❖ **Communicate with SEDA Malaysia** to ensure the energy audit exercise completed according to the objective and requirement of the project.

**PHASE 1**

# Term Of Reference

## Phase 2 – Implementation / Retrofitting



**Within 3 years** after energy audit exercise completed, applicants are responsible to;

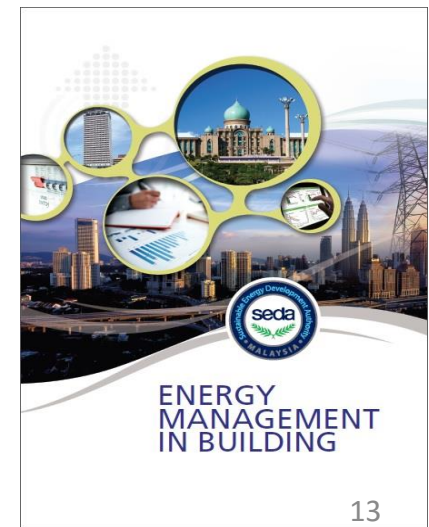
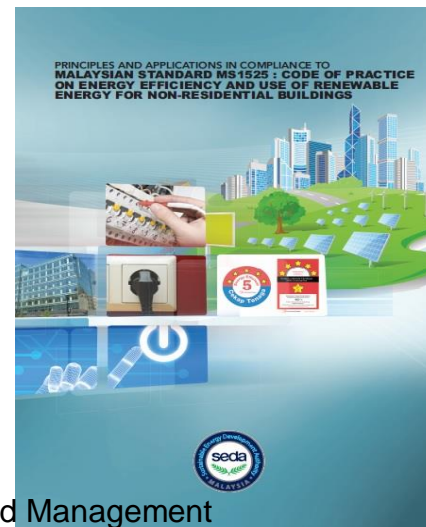
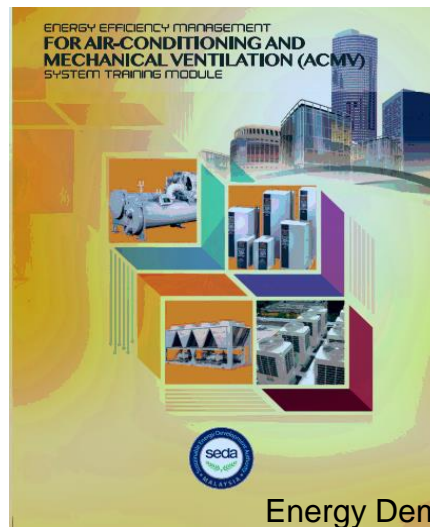
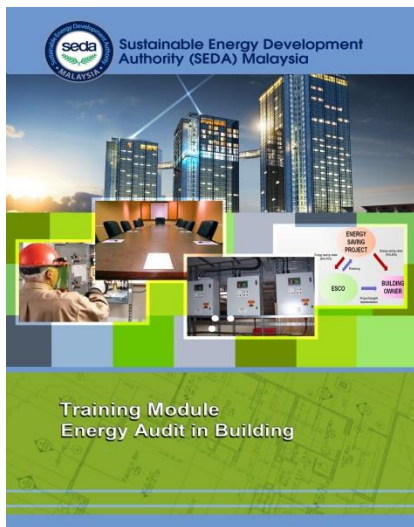
- ❖ **Implement the energy saving measures** recommended in the energy audit report submitted by the ESCO in this project.
- ❖ Submit implementation and **energy saving report** to SEDA Malaysia.
- ❖ **Attend the energy management training** organised by SEDA Malaysia under the project to ensure continuous development of capacity building within the organisation.
- ❖ **Communicate / liaise with SEDA Malaysia** to ensure proper implementation of energy saving measures.

**PHASE 2**

# Increase Local Expertise In Energy Management Through Capacity Building



- Attend energy management-related training by SEDA Malaysia.
- Continuous capacity building.
  - Energy Management in Buildings
  - Energy Efficient Management in ACMV System
  - Principal & Application in Compliance to MS1525
  - Energy Audit in Buildings





# HOW TO APPLY?



## ❖ Fill-up the application form.

- Forms can be downloaded at [www.seda.gov.my/eagrant](http://www.seda.gov.my/eagrant) .

## ❖ Submit application form to SEDA Malaysia via

- Email to [rohaiza@seda.gov.my](mailto:rohaiza@seda.gov.my) or [rizal@seda.gov.my](mailto:rizal@seda.gov.my)
- Fax to 03-8870 5900 or
- Post to SEDA Malaysia Office / by hand:

Sustainable Energy Development Authority (SEDA Malaysia)  
Galeria PjH, Level 9, Jalan P4W, Persiaran Perdana, Presint 4,  
62100 Putrajaya  
Tel : 03-88705800

**SUSTAINABLE ENERGY DEVELOPMENT AUTHORITY MALAYSIA**

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## ENERGY AUDIT CONDITIONAL GRANT FOR COMMERCIAL BUILDING (Under RMK-11)

**WHO ELIGIBLE TO APPLY ?**



**PRIVATE:**

- ✓ OFFICES
- ✓ HOSPITALS
- ✓ UNIVERSITIES
- ✓ SCHOOLS
- ✓ BANKS
- ✓ HOTELS

**NEW** Existing commercial building with usage of electricity  $\geq 100,000\text{kWh}$  per month

**ELEVENTH MALAYSIA PLAN 2016-2020**

**INFO**

- Introduction of Energy Audit Conditional Grant for Commercial Buildings
- Definition of Commercial Buildings

**PRE-REGISTRATION :**

- \* Form A

**APPLICATION FORM :**

- \* Form B

Lampiran 1 (from Form B)  
- TOR for Energy Audit in Buildings (Commercial Buildings)

Lampiran 2 (from Form B)  
- Questionnaire : Building Information – Energy Consumption Preview

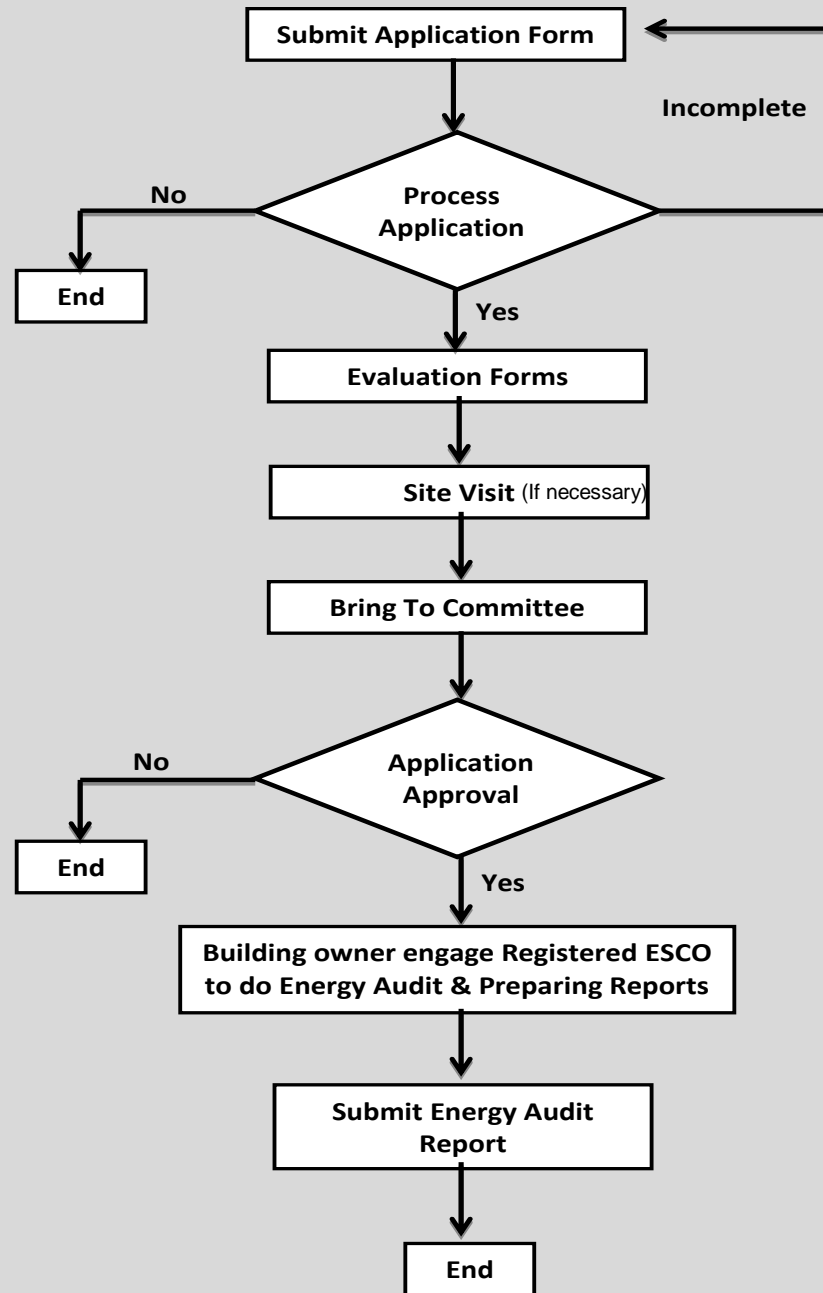
**PROCESS FLOW CHART**

**GUIDELINE / TOR**

- Terms of Reference for Energy Audit in Buildings (same as "Lampiran 1")
- Energy Audit in Buildings Reference

**OTHERS**

## Process Flow Chart





# Q & A



**Need more info ?**

**Sustainable Energy Development Authority  
(SEDA Malaysia)**

**Galeria PjH, Level 9, Jalan P4W, Persiaran Perdana,  
Presint 4, 62100 Putrajaya**

**Tel : 03-8870 5841 / 03-8870 5853**

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