

MINUTES OF MEETING OF TECHNICAL COMMITTEE FOR GEF 5: UNIDO MAEESTA PROJECT			No: 1/2018
<b>Minuted by:</b> Hasimah Hasan	<b>Date:</b> 10 <sup>th</sup> October 2018	<b>Time:</b> 9.30 am – 12.30pm	<b>Venue:</b> Bilik Mesyuarat Utama, Tingkat 1, SIRIM
<b>Agenda</b>			
<ol style="list-style-type: none"> <li>1. Welcoming remarks by Chairman</li> <li>2. Confirmation of previous minutes of TC meeting No.2/2017</li> <li>3. Matters Arising</li> <li>4. Project progress updates</li> <li>5. Previous demo project updates</li> <li>6. Presentation on the demonstration project proposal</li> <li>7. Discussion on the lead agency</li> <li>8. Other matters</li> <li>9. Adjourn</li> </ol>			
<b>Attendees</b>	<b>Organisation</b>	<b>Absent</b>	
1. Dr. Zanariah Ujang (Chairperson)	SIRIM	Representative from SERI UKM	
2. Tn. Hj Mohd Fauzi Ismail	SIRIM	Representative from MESTECC	
3. Mr. Mohamad Nadhir Zainal Abidin	ST	Representative from NOSS	
4. Mr. Haniff Ngadi	SEDA		
5. Mrs. Masalah Bandi	MGTC		
6. Ir. Dr. Philip Tan	FMM		
7. Dr Azmi Idris	PMU		
8. Mohamad Iskandar Majidi	PMU		
9. Ahmad Zakuan Ahmad Dahalan	PMU		
Secretary			
10. Mrs. Hasimah Hasan	PMU		

## Agenda

### 1. Welcoming remarks by Chairman

- 1.1 The Chairperson welcomed all the TC members to the first Technical Committee meeting in year 2018. The Chairperson mentioned about the changes of the Chairperson personnel is due the former TC Chairperson (Hj. Mohd Fauzi Ismail) has been appointed as the National Project Director for the MAEESTA project.

**Action: Information**

### 2. Confirmation of previous minutes of TC meetings No.2/2017

The confirmation of previous minutes meeting was proposed by Dr Philip Tan from FMM and supported by Mr Mohamad Nadhir from the Energy Commissions without any changes.

**Action: Information**

### 3. Matters Arising

There is no issues discussed under the matters arising.

**Action: Information**

### 4. Project Progress Updates

The Assistant National Project Manager presented the progress updates as follows:

#### 4.1 *Component 1: Development of regulatory framework, support programme and financial incentive mechanism to facilitate solar thermal energy utilization*

- 4.1.1 PMU and international experts are still reviewing the final draft of the Solar Thermal Roadmap submitted by PwC on 29<sup>th</sup> August 2018 to ensure that all the comments have been addressed by PwC. A presentation of the final draft to the stakeholders will be scheduled once the final version is received.

**Action: Information**

#### 4.2 *Component 2: Awareness raising and capacity building program relating to process heating and cooling optimization, and solar thermal energy utilization*

- 4.2.1 From August 2017 to September 2018, 6 awareness seminars and 9 trainings have been conducted. In total 17 awareness seminars had been organized throughout the project implementation, which covers all regions within Malaysia except from the East Coast of Peninsular Malaysia. A total of 630 participants attended the seminars.

Seminar	Date	Place	No. of participants
Awareness Seminar 12	23/8/2017	Seberang Jaya, Penang	19

Awareness Seminar 13	25/9/2017	Bintulu, Sarawak,	16
Awareness Seminar 14	3/10/2017	Johor Bahru	25
Awareness Seminar 15	27/10/2017	Ipoh,Perak	32
Awareness Seminar 16	7/11/2017	Shah Alam, Selangor	67
Awareness Seminar 17	29/3/2018	Subaŋg Jaya, Subang Jaya	39
Total			198

**Action: Information**

4.2.2 MGTC suggested that the awareness seminars also need to be organized at the East Coast region.

**Action: PMU**

4.2.3 From August 2017 to September 2018, the numbers of participants attended the trainings were i) 198 for user training ii) 82 for Expert Training Course 1 iii) 50 for Expert Training Course 2 and iv) 33 for the financial trainings.

Trainings	Date	Place	No. of participants
Expert Batch 2/Course 2	20-23/11/2017	Melaka	32
Two Day User Training 4/2017	27-28/11/2017	Melaka	71
Financial Training	18/12/2017	Shah Alam	33
One Day User Training 1	7/2/2018	Shah Alam	26
One Day User Training 2	8/2/2018	Shah Alam	39
One Day User Training 3	5/3/2018	FMM Johor	27
One Day User Training 4	19/3/2018	FMM Penang	35
Expert Batch 3/Course 1	10-13/4/2018	Penang	82
Training on the Solar Thermal Design	17-18/4/2018	Shah Alam	18
Total			363

4.2.3 In summary, the total numbers of participants attended the trainings were i) 212 for user training ii) 167 for Expert Training Course 1 iii) 83 for Expert Training Course 2 and iv) 33 for the financial trainings.

4.2.4 In term of category, the percentage of the participants that attended were i) 39% from industry ii) 32% from consultant iii) 22% from institute of higher learning/research institute, and iv) 7% from government agencies.

**Action: Information**

4.2.5 Representative from MGTC suggested that for the effectiveness of the course, the training should also be carry out at the plant site. In some countries, they developed mini plant for the purpose of the training centre. Energy Commissions added that there is a technical training centre under JKR in Melaka. However for the moment, the centre focused more on the electrical equipment training. She also suggested PMU to contact the mentioned training centre for possible application to the MAEESTA program.

**Action: PMU**

#### *4.3 Component 3: Demonstration and scaling up of sector specific EE and solar thermal energy utilization in targeted industrial sub-sector*

4.3.3 FOUR companies have implemented the energy efficiency measures namely, Toyo Tires Sdn Bhd, JB Cocoa Sdn Bhd, Top Glove Sdn Bhd and Perusahaan Perkayuan Wan Feng Sdn Bhd.

4.3.4 As progress to date, the total implemented energy efficiency saving is 28,832.10 MWh with a value of MYR 4,080,488.00/year. The lifetime of CO<sub>2</sub> emissions reductions is 147,889 tonne. This represents about 5% of the total target of 2,735 ktCO<sub>2</sub>.

4.2.3 For the existing solar thermal demonstration project, UNIDO had funded the energy audit at PPNJ Poultry & Meat Sdn Bhd which was carried out by SIRIM in year 2016. The solar thermal system was installed in year 2017 using the SIRIM SME Development Fund and some investment from the company. On 24<sup>th</sup> September 2018, the project was launched by MESTECC and it was open for the public visit for technology awareness.

**Action: Information**

#### 4.3 Previous Demo Project Updates

4.4.1 In 2017, NPSC had approved the UNIDO fund for MIWA Manufacturing Sdn Bhd and Perusahaan Perkayuan Wan Feng Sdn Bhd. The progress updates for both companies are as follows:-

4.4.1.1 MIWA Manufacturing Sdn Bhd: The company made the 20% payment to SIRIM in June 2018. The procurement process is currently in progress and they are expected to complete the solar thermal system installation by January 2019.

4.4.1.2 Perusahaan Perkayuan Wan Feng Sdn Bhd: PMU revised the design by reducing the size to 40m<sup>2</sup>. The revised design has taken into account the thermal demand that can be optimised with proper scheduling which required less area of solar collector. PMU also proposed EPC financing to the company as well as applying for SIRIM Fraunhofer Programme.

**Action: Information**

#### 4.5 Project Expenditure and Co-Financing

4.5.1 From July 2017 to September 2018, USD 577,117.03 had been spent for this project. The total expenditure of the project (from July 2014 until September 2018) is USD 1,486,942.13. The balance of the project fund is USD 2,513,057.87.

**Action: Information**

#### 4.6 Project Mid Term Evaluation

4.6.1 PMU updated that the project mid-term evaluation had been conducted by UNIDO appointed International and National Evaluators from 23<sup>rd</sup> July until 4<sup>th</sup> August 2018. Based on the Mid Term Evaluation Report that was presented to the stakeholder on 3<sup>rd</sup> August 2018, the project has performed well with fair number of expected outcomes have been achieved. Around 65% of funds remaining, which sufficient for the remaining extended timeframe. Please refer to Attachment 1 for details on the findings.

**Action: Information**

4.7 The updates of the project progress were accepted without any amendments from the NPSC members.

### **5. Presentation on the demonstration projects**

5.1 PMU presented 2 news proposals to be considered for the NPSC approval. The proposals are from the NB Poultry Processing Sdn Bhd (Poultry) and IOI Pan Century Oleochemicals Sdn Bhd (Chemicals & Chemicals Products). Details on the project proposals are as follows:

i. IOI Pan Century Oleochemicals Sdn Bhd

Location : Pasir Gudang, Johor

Subsector : Chemicals & Chemicals Products

Solar thermal system:

To preheat Soft Water Tank at 50°C. The design consist of the 376m<sup>2</sup> solar collector with using existing storage tank

Cost:

MYR 350,000 with payback period of 6.6 years.

UNIDO funding is MYR 70,000 (20%)

ii. NB Poultry Processing Sdn Bhd

Location : Pontian, Johor

Subsector : Agriculture (Poultry)

Solar thermal system:

To supply hot water (61°C) for the scalding process.

The design consist of the 491m<sup>2</sup> solar collector with 20 tonne storage tank.

Cost:

MYR 1,243,000 with payback period of 5.25 years.

UNIDO funding is MYR 248,600 (20%)

5.2 The Technical Committee agreed for both project proposals to be presented to NPSC for the approval.

**Action: PMU**

**6. Discussion on the Lead Agency**

6.1 The committee suggested the lead agencies on the project activities as follows.

- Policy and financial scheme: MESTECC
- Standard, testing and certification: SIRIM
- Awareness and Capacity Building: ST or SEDA
- Technology R&D : should be decided by MESTECC

**Action: PMU**

**7 Other matters**

No issues discussed.

**8 Adjourn**

The meeting was adjourned at 12.30 pm

Prepared by:



Hasimah Hasan

Secretary of Technical Committee

Date: 31<sup>st</sup> December 2018

Approved by:



Dr. Zanariah Ujang

Chairperson of Technical Committee

Date: 2/1/2019