

**MINUTES OF MEETING:  
NATIONAL PROJECT STEERING COMMITTEE (NPSC)  
No: 1/2019**

*PROJECT GEF5 : GHG EMISSIONS REDUCTIONS IN TARGETED INDUSTRIAL SUB-SECTORS  
THROUGH ENERGY EFFICIENCY (EE) AND APPLICATION OF SOLAR THERMAL SYSTEMS IN  
MALAYSIA*

**Date:**  
14<sup>th</sup> March 2019

**Time:**  
10.00 am - 1.00pm

**Venue:**  
Foresight Meeting Room,  
MESTECC

**Agenda**

1. Welcoming remarks by Chairman
2. Confirmation of previous minutes of NPSC meeting no.1/2018
3. Matters arising from previous meeting
4. Project Progress Updates and Workplan for year 2019-2020
5. Roadmap Deployment Plan
6. Other matters
7. Adjourn

**Attendee**

**Absent with Apology**

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|--|-------------------|
| 1. Mrs Nordina Idris (Chairperson)     | MESTECC           |
| 2. Mrs Hartini Mohd Nasir              | MESTECC           |
| 3. Mrs. Siti Zulaikha Mohamad<br>Zobir | EPU               |
| 4. Mr. Mohamed Nadhir Zainal<br>Abidin | ST                |
| 5. Mrs Siti Hailwa Marjunit            | MITI              |
| 6. Dr Rohaya Md Zin                    | SIRIM             |
| 7. Mrs. Yang Akma Jaafar               | SME Corp          |
| 8. Mrs Norhasliza Mohd Mokhtar         | MGTC              |
| 9. Dr. Ir Philip Tan                   | FMM               |
| 10. Mr. Shrestha Sanjaya               | UNIDO             |
| 11. Ms. Marlene Sayer                  | UNIDO             |
| 12. Dr. Azmi Hj. Idris                 | PMU               |
| 13. Mr. Mohamad Iskandar Majidi        | PMU               |
| 14. Mr. Ahmad Zafuan Mohamed<br>Kassim | PMU               |
| 15. Mr. Mohd Arief Firdaus Yusof       | PMU               |
| 16. Mrs. Hasimah Hasan                 | PMU-<br>Secretary |

1. Representatives from  
MESTECC (GEF Focal  
Point)
2. Representative from SEDA
3. Representative from MIDA
4. Representative from SERI -  
UKM

NO.	ITEM
<b>1.0</b>	<p><b>WELCOMING REMARKS BY CHAIRMAN</b></p> <p>The Chairperson welcomed and thanked all NPSC members for being able to attend the first NPSC meeting for year 2019.</p> <p>The meeting starts with the recap on the Term of Reference (TOR) of NPSC by the Secretary.</p>
<b>2.0</b>	<p><b>CONFIRMATION OF PREVIOUS MINUTES OF NPSC MEETING NO.1/2018</b></p> <p>No comments on the previous meeting were addressed.</p>
<b>3.0</b>	<p><b>MATTERS ARISING FROM PREVIOUS MEETING</b></p> <p>No issues discussed from previous meeting.</p>
<b>4.0</b>	<p><b>PROJECT PROGRESS UPDATE AND WORKPLAN FOR YEAR 2019-2020</b></p> <p>The National Project Manager presented the progress updates and the workplan for year 2019 to 2020 as follows:</p> <p><i>4.1 Component 1: Development of regulatory framework, support programme and financial incentive mechanism to facilitate solar thermal energy utilization</i></p> <p>4.1.1 PMU and international experts are in progress of reviewing the final draft of the Solar Thermal Roadmap to ensure that all the comments been addressed by PwC. Several revisions on the roadmap document been made by PwC between October 2018 until March 2019.</p> <p>4.1.2 On 21<sup>st</sup> February 2019, PMU held a meeting with MESTECC to discuss on the roadmap deployment plan. The meeting was to get consent from MESTECC to form the Roadmap Deployment Technical Committee (RDTC) and for MESTECC to be the Chairman of the committee.</p> <p>4.1.3 The first Roadmap Deployment Technical Committee (RDTC) meeting was held on 4<sup>th</sup> March 2019. The objective of the meeting was to define the TOR of the committee and to confirm the participation of each ministry/agency in the working group for the Roadmap Deployment Plan workshop. The TOR for RDTC are;</p> <ul style="list-style-type: none"> <li>i. To provide advice and supervise the implementation and progress of the roadmap deployment plan by UNIDO MAEESTA project.</li> <li>ii. To identify and nominate the related staff from their respective ministry/agency to be the member of the Working Group.</li> </ul> <p>The RDTC will have a scheduled meeting to be updated and to discuss on the outcomes of the workshops. Relevant ministries/agencies have been identified to lead the Working Groups for the 5 focus areas identified namely; financing,</p>

policy and regulatory, testing, certification and standardization, technology and R&D, and awareness and capacity building.

- 4.1.4 The Workshop 1 for the Solar Thermal Roadmap Deployment Plan was successfully carried out on 12<sup>th</sup> March 2019. A total of 69 participants from various government agencies, industries, financial institutions, universities and research institution attended the workshop. The purpose of workshop 1 is to priorities the recommendation made in the roadmap document for the five focus areas that requires special attention, namely, financing, policy and regulatory, testing, certification and standardization, technology and R&D, and awareness and capacity building. The outcomes from the workshop will be shared with the participants and the RDTC members.

**Action: Information**

Workplan for year 2019-2020

- 4.1.5 The workplan for Component 1 will be focused on the outcomes of roadmap deployment plan workshops and its recommendation for immediate implementations.

**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 October 2018 to March 2019, MAEESTA project had organized the Expert Course 2 Training for Batch 3 and UNIDO expert training final examinations for qualified expert trainees from Batch 1 and 2.
- 4.2.2 The Expert Training Course 2 was organized from 13<sup>th</sup> to 16<sup>th</sup> November 2019 at The Light Hotel, Penang and attended by 40 participants.
- 4.2.3 The first UNIDO expert training final examination was conducted at various locations namely, Malacca, Selangor and Penang. A total of 23 expert trainees from Batch 1&2 took the final examination for UNIDO Experts on EE and Solar Thermal. Only 13 candidates passed the examination. The second final examination was held on 13<sup>th</sup> March 2019 with 8 candidates took the examination.

**Action: Information**


Workplan for year 2019-2020

- 4.2.4 The MAEESTA project will continue to organize the awareness seminars and user trainings. The Expert Batch 4 is expected to be held in mid of year 2019.

	<p>4.2.5 The MAEESTA project plan to groom the certified experts who are interested to become the trainer on EE and solar thermal technology to be trained under the Train the Trainer Programme.</p> <p>4.2.6 A conference on EE and Solar Thermal Technology is planned to be held in the year 2020 to provide platform for the knowledge sharing and for matching the related stakeholders and industries.</p> <p style="text-align: right;"><b>Action: Information</b></p> <p>4.3 <i>Component 3: Demonstration and scaling up of sector specific EE and solar thermal energy utilization in targeted industrial sub-sector</i></p> <p>4.3.1 PMU presented the status on the implemented, potential and rejected EE measures. Out of 40 targeted, 5 companies have implemented EE measures with achieved total lifetime of CO<sub>2</sub> emission reductions of 147.88 ktonnes. There are 8 companies identified that have potential for EE improvement.</p> <p>4.3.2 The updates on the solar thermal demonstration projects are as follows:</p> <ul style="list-style-type: none"> <li>i. MIWA Manufacturing Sdn Bhd: The company has already started with the installation on 11<sup>th</sup> March 2019. Expected to be completed by end of April 2019.</li> <li>ii. NB Poultry Processing Sdn Bhd: The company is in progress of improving the roof structure. SIRIM is awaiting for the company to make down payment to start the procurement.</li> <li>iii. IOI Pan Century Oleochemicals Sdn Bhd: The company has completed with the tendering procedure. The company is awaiting approval from MIDA on ITA before proceed with the procurement.</li> </ul> <p style="text-align: right;"><b>Action: Information</b></p> <p>Workplan for year 2019-2020</p> <p>4.3.3 The MAEESTA project targeted to contact and visit about 100 companies and expected at least 50% will proceed with the energy audit and make presentation to their top management.</p> <p>4.3.4 The project will utilize the certified experts under the training programmes to support PMU to carry out the energy audit under the Frontrunners Programme for Certified Experts.</p> <p style="text-align: right;"><b>Action: Information</b></p> <p>4.3.5 The UNIDO representative suggested to target the companies which has CSR. The Chairperson suggested for PMU to check with Security Commissions for the list of the companies that are committed to CSR.</p> <p style="text-align: right;"><b>Action: PMU</b></p>
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	<p>4.3.6 The UNIDO representative suggested for MESTECC to invite the top management of the companies for the dialogue or breakfast tea for the project promotion funded by MAEESTA project. The Chairperson suggested to target the Ministry of Health (MOH), Ministry of Tourism Malaysian and sub sector food and beverage for the event. PMU to work together with MGTC to reach the industry for the event.</p> <p style="text-align: right;"><b>Action: PMU, MESTECC, MGTC</b></p> <p>4.3.7 FMM suggested for the government to make as the requirement to include solar thermal technology for the new hospital. The suggestion shall be further discussed in the roadmap deployment plan workshop.</p> <p style="text-align: right;"><b>Action: Information</b></p> <p>4.4 The UNIDO representative suggested that all the project component achievements shall include the percentage of its achievement for easier understanding by stakeholders.</p> <p style="text-align: right;"><b>Action: PMU</b></p>
<b>5.0</b>	<p><b>ROADMAP DEPLOYMENT PLAN</b></p> <p>5.1 The NPM updated the roadmap deployment plan as stated in item 4.1.2, 4.1.3 and 4.1.4.</p> <p>5.2 Total of 4 workshops will be organized until May 2019 and draft of policy briefs will be completed by June 2019.</p> <p>5.3 The Chairperson suggested to reconsider number of days for the second workshop as it will burden for the staff to leave the office for long time.</p> <p style="text-align: right;"><b>Action: Information</b></p>
<b>6.0</b>	<p><b>OTHER MATTERS</b></p> <p>6.1 Mini plant for the solar thermal heating and cooling demonstration project.</p> <p>6.1.1 The Technical Committee suggested for the project to have a mini demonstration plant at a facility where the industry frequently visit for services and also easily accessible for the public to get the information and understanding on the solar thermal technology both for heating and cooling. The suggested location is at SIRIM Shah Alam which is situated at the centre of Klang Valley and accessible by the public.</p> <p>6.1.2 The meeting request PMU to present the proposal in details including design and co-financing to be considered for the approval by NPSC.</p> <p style="text-align: right;"><b>Action: PMU, SIRIM</b></p> <p>6.2 MAEESTA fund for energy efficiency (EE) measures by the company.</p> <p>6.2.1 In order to encourage the host companies to implement the EE measures PMU suggested the MAEESTA fund to be also approved for the implementation of EE</p>



	<p>measures only. The percentage and mechanism will be similar to the funding for solar thermal demonstration project.</p> <p>6.2.2 The meeting responded that the fund is to be only allocated to solar thermal project in order to reduce the payback period and encourage industry to invest for the technology. For EE, there are ample grants available in Malaysia and the payback period is short. However, the meeting agreed that for project proposal with combination of the EE measures and solar thermal integration can be approved for the MAEESTA fund.</p> <p style="text-align: right;"><b>Action: Information</b></p>
<b>7.0</b>	<p><b>ADJOURNMENT OF THE MEETING</b></p> <p>The meeting was adjourned at 1.07 pm</p>
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Prepared by:</p> <p><b>Hasimah Hasan</b> Secretary</p> <p>6<sup>th</sup> May 2019</p> </div> <div style="width: 45%; text-align: right;"> <p>Approved by:</p>  <p><b>Mrs Nordinah bt Idris</b> on behalf of NPSC Chairman</p> <p>3<sup>rd</sup> July 2019</p> </div> </div>	