

Technical Working Group Meeting for Global Environment Facility No. 1/2018
Ministry of Natural Resources and Environment
29th March 2018

GEF 5 UNIDO Project: Energy Efficient Low Carbon Transport in Malaysia

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PROJECT PROFILE

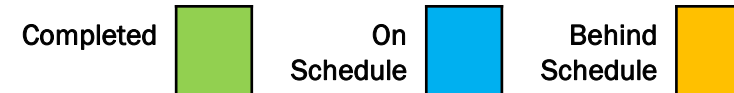
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|--------------------------------|---|--------------|
| PROJECT TITLE | PROJECT ENERGY EFFICIENT LOW CARBON TRANSPORT IN MALAYSIA | |
| EXECUTING AGENCY | MINISTRY OF ENERGY, GREEN TECHNOLOGY AND WATER (KeTTHA) | |
| IMPLEMENTING AGENCY | MALAYSIAN GREEN TECHNOLOGIES CORPORATION / PMU | |
| PROJECT PERIOD | (04/2015 – 04/2018) - 36 months | |
| APPROVED FUND (USD) | Land Degradation | |
| | Climate Change | \$ 2,000,000 |
| | Biodiversity | |
| CO-FINANCING (USD) | \$ 28,720,000 | |
| TOTAL FINANCING (USD) | NA | |
| REMAINING FUND AS PER DEC 2016 | NA | |

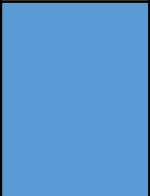


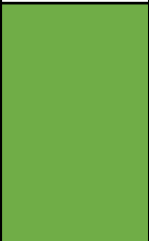
PROJECT COMPONENTS

| | |
|-------------|---|
| COMPONENT 1 | Improvement of policy and regulatory framework for EV use and local manufacturing; strengthen capacity of concerned institutions built and awareness raising. |
| COMPONENT 2 | Development and demonstration of infrastructure for EVs, and local EV manufacturing capacity |
| COMPONENT 3 | Monitoring and evaluation |

PROJECT PROGRESS – 2017

Component 1



| OUTPUT | ACTION PLAN | 2017 | | | |
|--|---|---|----|---|--|
| | | Q1 | Q2 | Q3 | Q4 |
| Output 1.1.1 – National policy and regulatory framework to catalyze and accelerate widespread use of EVs, both public and private: EV strategy and roadmap, business models, favorable tax/incentive schemes for local manufacturing, safety standards, etc. improved or developed. | Activity 1 – To be executed under Low Carbon Mobility Blueprint and Action Plan Effective early Q2 2018 | | | | |
| | Activity 2 – The Langkawi Data Mining for Low Carbon Island program | | |  |  |
| Output 1.1.2 – Institutional capacity built and awareness on EV use raised | Activity 1 – Electromobility Training ICP: Volvo e-Bus at Sweden and Poland KeTTHA and MGTC delegation (26–31 October 2017) | | | |  |
| | Activity 2 – 4th International Electric Vehicle Expo (IEVE2017) at Jeju Island, South Korea –KeTTHA and MGTC delegation including visit to Low Carbon Island Model, (17-23 March 2017) |  | | | |

PROJECT PROGRESS – 2017

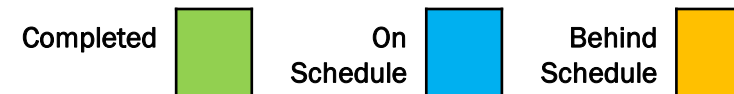
Component 2





| OUTPUT | ACTION PLAN | 2017 | | | |
|---|---|------|----|----|----|
| | | Q1 | Q2 | Q3 | Q4 |
| Output 2.1.1 – At least 6 PV-based charging stations (fast and off-grid) for EVs designed, installed and tested; used for demonstration and further studies; 3 stations will be installed in Melaka and the other 3, tentatively in Kuala Lumpur, Putrajaya and Cyberjaya. | Activity 1 – Installation and operation of 1 PV-based fast charging station at OBR Ayer Keroh, Melaka | | | | |
| | Activity 2 – Installation of 1 PV-based fast charging station at BRT Sunway Depot | | | | |
| | NOTE: The remaining 3 PV based charging stations have been reallocated under the Langkawi Low Carbon Island Project. This scope will now involve installation of 30 EV chargers in the Island with approval granted by GEF as reported by UNIDO HQ to KETTHA on 7 th June 2017. This project is in progress for execution in 2018 by MGTC. | | | | |
| Output 2.1.2 – Enhanced standards and regulations for EV infrastructure, including charging stations, safety, and support applications, developed. | Activity 1 – Adoption of revised IEC61850 (Model for E-mobility) and IEC 62196 (international standard for EV electrical connectors) standards as Malaysian Standards | | | | |
| | Activity 2 – EV charging station setting up guidelines (NOSS (National Occupancy Skill Standard) Development for EV charging station installation and maintenance (Level 3) | | | | |

PROJECT PROGRESS – 2017

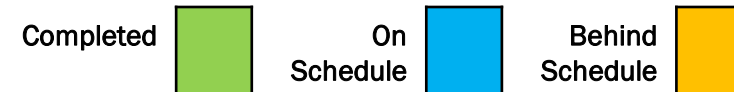
Component 2



| OUTPUT | ACTION PLAN | 2017 | | | |
|--|--|--|--|----|----|
| | | Q1 | Q2 | Q3 | Q4 |
| Output 2.1.3 – Local manufacturing of e-bus and e-motorcycle components supported through development of enabling support programmes; enhanced incentives and industry support to encourage Foreign Direct Investment | To be executed under Low Carbon Mobility Blueprint and Action Plan Effective early Q2 2018 | | | | |
| Output 2.1.4 – Effective capacity building and technology transfer to enable EV manufacturing facilitated. | Activity 1 – Engagement with International OEMs involvement in electric mobility (Partnership with BMW – ChargeNow powered by ChargeEV) |  |  | | |
| | Activity 2 – Engagement with OEMs involved in electric mobility with local presence | Execution under Langkawi Low Carbon Island Model project | | | |

PROJECT PROGRESS – 2017

Component 3



| OUTPUT | ACTION PLAN | 2017 | | | |
|---|--|------|----|----|----|
| | | Q1 | Q2 | Q3 | Q4 |
| Output 3.1.1 – Regular monitoring exercises conducted; tracking tools prepared according to GEF requirements | Monthly submission of progress report | | | | |
| | Submission of annual report | | | | |
| | National Steering Committee Meeting 1 | | | | |
| | Evaluation of first year performance | NA | | | |
| | Analysis of performance and opportunities for improvement | NA | | | |
| Output 3.1.2 – Final project evaluation conducted | Unido HQ have informed KeTTHA that the Energy Efficient Low Carbon Transport Project have been extended up to 2019 inclusive of final project audit | | | | |

SUMMARY OF PROJECT PROGRESS AS 31 DEC 2017

| PROJECT COMPONENT | ACTIVITIES COMPLETED | ALLOCATION (USD) | EXPENDITURE (USD) | BALANCE (USD) | PERCENTAGE OF EXPENDITURE OVER ALLOCATION |
|-------------------|----------------------|------------------|-------------------|---------------|---|
| COMPONENT 1 | 20 % | 505,000 | 100,000 | 405,000 | 24% |
| COMPONENT 2 | 50% | 937,300 | 547,300 | 390,000 | 58% |
| COMPONENT 3 | NA | 70,000 | | 70,000 | NA |

PROJECT PLANNING – 2018

Completed



On Schedule /
Planning



| OUTPUT | ACTION PLAN | 2018 | | | |
|--|---|------|----|----|----|
| | | Q1 | Q2 | Q3 | Q4 |
| Component 1 – Improvement of policy and regulatory framework for EV use and local manufacturing; strengthen capacity of concerned institutions and awareness raising | The National Low Carbon Mobility Blueprint | | | | |
| | The Langkawi Data Mining for Low Carbon Island program | | | | |
| | The Electric Mobility Roundtable 2017 – IGEM 2018 | | | | |
| Component 2 – Development and demonstration of infrastructure for EVs, and local EV manufacturing capacity | Installation of 30 EV Charging stations at Langkawi | | | | |
| | Installation of Solar PV & Energy Storage System at Sunway BRT | | | | |
| | Engagement with OEMs involved in electric mobility with local presence (Langkawi e-Taxis project) | | | | |
| | | | | | |
| Component 3 – Monitoring and evaluation | NSC | | | | |
| | Submission of annual report | | | | |
| | Final project evaluation | | | | |
| | Analysis of performance and opportunities for improvement | | | | |

ISSUES ARISES DURING PROJECT IMPLEMENTATION AND REMEDIAL ACTIONS

Issues to be discuss :

- i. i.e : causes of project delay; procurement issues etc.

Remedial action taken / intervention needed:

- i. i.e : appointment of new project manager, task coordination etc.