**A Budgetary Proposal of Implement**

**EMS/Microgrid Control System Phase 2 Testbed Project**

**For**

**Ditrolic Energy Holdings Sdn Bhd**

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| --- | --- |
| Proposal Number: | SG202306050000 |
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| Validity: | 90 days |

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| --- | --- |
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**Revision History**

**(For SALES team)**

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| **Rev** | **Date** | **Description** | **Prepared** | **Checked** | **Approved** |
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**REVISION STATUS SHEET**

**(For PROJECT team)**

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| --- | --- | --- | --- | --- |
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(Will be removed in final version)

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**List of Abbreviations**

|  |  |
| --- | --- |
| DE | Ditrolic Energy |
| LITEON | LITE-ON Singapore Pte Ltd |
| LOS | LITE-ON Singapore Pte Ltd |
| IoT | Internet of Things |
| SCADA | Supervisory Control and Data Acquisition |
| Amb Temp | Ambient temperature |
| API | Application programming interface |
| DB | Distribution Board |
| VPP | Virtual Power Plant |
| EG | Edge Gateway |
| HIL | Hardware-in-the-Loop |
| Modbus, MODBUS, Mod-bus | Modbus protocol |
| MOU | Memorandum of Understanding |
| MVP | Minimum Viable Product |
| SIL | Software-in-the-loop |
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# EXECUTIVE SUMMARY

## PROJECT BACKGROUND

(Why this project starts, who are the parties involved)

## OBJECTIVE

* + 1. (List the objectives of this project);

## APPROACH

* + 1. (roughly summary what will be done, no need to specify who does what);

# ABOUT OUR COMPANIES

## ABOUT LITEON

(LITEON Introduction)

## COMPANY DOMAIN EXPERIENCE

(Introduction of LITEON’s experience in related domain)

## ABOUT SUBSIDIARY COMPANY

(Introduction of LITEON Singapore)

# ABOUT THE SYSTEM BEEN PROPOSED

## GENERAL MARKET NEEDS, AND/OR CUSTOMER PAIN POINT

(General market trends and needs, and/or this specific customer’s pain point)

## PROPOSED SYSTEM BENEFITS (IN ADDRESSING THE MARKET NEEDS)

(What are the system features to address the said general market needs)

## SYSTEM ARCHITECTURE

(Insert System Architecture)



# SCOPE COMPLIANCE (FEATURE COMPLIANCE TABLE)

## HARDWARE (IF ANY);

(What LITEON is going to provide. BOQ/BOM and how each component comply with what was requested in the tender document or RFP. Can provide as a list here if it is short or as appendix that attached at the end of this document, if it is long)

## SOFTWARE;

(What LITEON is going to provide. There should be a list of required features in the tender document or RFP, here is the place to indicate what we can do and what cannot be done. Can provide as a list here if it is short or as appendix that attached at the end of this document, if it is long)

# (SYSTEM DEVELOPMENT) SCOPE OF WORK

## SOFTWARE LICENSES ==> REQUIRES SALES AND MARKETING INPUT

(If applicable)

## (SUPPORT INFORMATION)

(If applicable)

## PROJECT IMPLEMENTATION PHASES

* + 1. Define Phase
    2. Model Building And Configuration Phase
    3. Delivery Phase
    4. (Optional) could specify project meeting frequency, duration and objective,

## MODEL ASSURANCE CO-PILOT (CUSTOMER RESPONSIBILITY)

(what are we expecting from customer or what to be provided by customer. It can be site condition, site work, equipment or facilities, network, engagement in testing, facilitating the communication with 3rd party; timely approval etc.)

# PROJECT SCHEDULE

(Insert project schedule here, no need to show the details but only the entire project start date and end date)

# COMMERCIAL TERMS

## PRICE SUMMARY

## LITEON SERVICE PER DIEM RATE.

## TRAINING (OPTIONAL)

## TAXES

## PAYMENT TERMS

## PROJECT RELATED EXPENSES

## TERMS AND CONDITIONS

## VALIDITY

# TERMINOLOGY (IF ANY)

## MOU : Memorandum of Understanding

A memorandum of understanding, or MOU, is a nonbinding agreement that states each party's intentions to take action, conduct a business transaction, or form a new partnership. This type of agreement may also be referred to as a letter of intent (LOI) or memorandum of agreement (MOA).

## PV : Photovoltaics, or Photovoltaics Panel

Photovoltaics is the conversion of light into electricity using semiconducting materials that exhibit the photovoltaic effect, a phenomenon studied in physics, photochemistry, and electrochemistry. The photovoltaic effect is commercially used for electricity generation and as photo sensors.

Photovoltaics Panel, aka Solar Panel, is a device that converts sunlight into electricity by using photovoltaic cells. PV cells are made of materials that generate electrons when exposed to light. The electrons flow through a circuit and produce direct current electricity, which can be used to power various devices or stored in batteries.

# APPENDIX

## GENERAL TERM AND CONDITION

## SOFTWRE MAINTENANCE LICENSE AGREEMENT