

WASTE-TO-ENERGY PROJECTS

1.2 PROJECT COMPONENTS

Project type:

| Facilities <i>(please enumerate; use separate sheet, if necessary)</i> | No. of Units | Capacity (tons/hour)/Area (square meters) | Specification/ Description |
|---|--------------|---|----------------------------|
| 1. Main components | | | |
| a. Power Generation Facility | | | |
| b. Biogas recovery facility | | | |
| c. Biogas and composting facility | | | |
| d. Material storage/ facility for: | | | |
| i. Raw Materials (e.g. Biomass) | | | |
| ii. Fuel | | | |
| iii. Lubricants and similar materials | | | |
| iv. Others, specify | | | |
| e. Materials preparation and handling (e.g., screening, sorting, etc.) | | | |
| f. Power substations/switch yard | | | |
| g. Power transmission lines | | | |
| 2. Support Facilities | | | |

| | | | |
|---|--|--|--|
| a. Control room | | | |
| b. Admin support (e.g., canteen, office, clinic, quarters, etc.) | | | |
| c. Motor pool | | | |
| d. Others, specify | | | |
| 3. Pollution control facilities/waste management facilities | | | |
| a. Waste water management facility | | | |
| b. Air pollution control facility | | | |
| c. Solid waste management facility | | | |
| 4. Drainage system | | | |
| 5. Others, specify | | | |
| 6. Others, specify | | | |
| 7. Others, specify | | | |
| 8. Others, specify | | | |
| 9. Others, specify | | | |

1.3 UTILITIES/REQUIREMENTS (Operation Phase):

Power/Energy and Water Requirements

| Utilities | Estimated Demand/ Consumption (Total) | Source Breakdown | Projected Amount from Source specified |
|-------------------|---|---|---|
| Power/Electricity | KWh | Grid | KWh |
| | | Generator Set | KWh |
| | | Others, please specify: | KWh |
| Water | m3/day | Local Water Utility Provider | m3/day |
| | | Well in: (specify location): | m3/day |
| | | Spring in: (specify location): | m3/day |
| | | River, Lake or other surface water : (specify name & location) | m3/day |
| | | Others, please specify: | m3/day |

Power/Energy and Water Efficiency Measures (if any)

| Utilities | Proposed Efficiency/Conservation Measures | Estimated Savings for each Measure | Estimated Total Savings |
|--------------------|--|------------------------------------|-------------------------|
| Power/ Electricity | | KWh | KWh |
| | | KWh | |
| Water | Rainwater collection system with total capacity of | m ³ /day | m ³ /day |
| | Others, please specify: | m ³ /day | |

1.4 MANPOWER AND TIMELINES OF PROJECT PHASES

Proposed start of Construction

Proposed start of Commissioning

Proposed start of Commercial Operation

| Phase | Expertise/Skills | Requirement per Expertise/Skill | Total Requirement per project phase |
|-----------------|------------------|---------------------------------|-------------------------------------|
| a. Construction | | | |
| | | | |
| | | | |
| | | | |
| b. Operation | | | |

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| | | | |
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1.5 INDICATIVE PROJECT COST

PhP

US \$

(specify if with foreign investment)