



## **MANUAL FEED-IN APPROVAL APPLICATION FORM (E-BIDDING BIOGAS)**

For office use only:  Reference No. : ..... Serial No. : ..... Date received : ...../...../..... Time received : ..... Receiving Officer : .....	Please submit your application form to: Sustainable Energy Development Authority Malaysia Galeria PjH Aras 9, Jalan P4W Persiaran Perdana Presint 4 62100 Putrajaya, MALAYSIA Tel No.: 03 – 8870 5800 Fax No.: 03 – 8870 5900
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Please tick (v) in the applicable boxes.

### Information on Applicant

Name of Applicant: \_\_\_\_\_

MyKad No./ Passport No./Registration No. \_\_\_\_\_

(or if not available, Service Tax Registration No.)<sup>1</sup>: \_\_\_\_\_

### Information on New or Existing Project

Renewable Resource: Biogas

- Project Status:
- New Project
  - Existing Small Renewable Energy Program (SREP) project (post commercial operation date (COD))
  - Existing SREP project (pre-COD)

Total Installed Capacity (MW<sup>2</sup>): \_\_\_\_\_

Net Export Capacity (MW): \_\_\_\_\_

Proposed Basic FiT Rate: \_\_\_\_\_

- Voltage level at Connection Point:
- Low voltage
  - Medium voltage
  - High Voltage

- Connection Type:
- Low voltage direct connection
  - Medium voltage direct connection
  - High voltage direct connection

<sup>1</sup> Not applicable to local authorities.

<sup>2</sup> 1MW = 1,000 kW



Name of Distribution Licensee: \_\_\_\_\_  
(e.g.: TNB, SESB, etc.)

**Applicable criteria for bonus feed-in tariff rate in addition to basic feed-in tariff rate (if any):**

- Use of gas engine technology with electrical efficiency of above 40%
- Use of locally manufactured or assembled gas engine technology
- Use of Landfill, Sewage Gas or Agricultural Waste Including Animal Waste as Fuel Source

**Location of RE Project Site**

**UPI (Universal Parcel Identifier) LOCATION**

District: \_\_\_\_\_  
Sub-district / City / Town: \_\_\_\_\_  
Section: \_\_\_\_\_  
Lot / PT. No: \_\_\_\_\_

**Project Site Address**

Address: \_\_\_\_\_

Postcode: \_\_\_\_\_ District: \_\_\_\_\_  
State: \_\_\_\_\_

Please enter the GPS location of project or attach sitemap. If entering GPS location, please enter the latitude and longitude coordinates in degrees, minutes and seconds format (DDMMSS) (e.g. Latitude: 5° 18' 56.9802", Longitude: 103° 7' 16.647" ).

Latitude: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " Longitude: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "

Site Ownership:  Fully Owned  Owned (Charged to Bank)  Leased

Owner of the site (if leased): \_\_\_\_\_

The Applicant is required to provide documents proving the Applicant's ownership of the site, or other conditional or unconditional rights (e.g. Option-to-Rent/Lease or leasing agreement) that the Applicant has to utilise/lease the site for a minimum period equivalent to the effective period.

Current site activities:  Agriculture  Commercial  Industrial  
 Others



## Contractor

### Details of service provider<sup>3</sup>

Company Registration No.: \_\_\_\_\_

Company Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

City: \_\_\_\_\_ Postcode: \_\_\_\_\_

State: \_\_\_\_\_

Telephone No: \_\_\_\_\_ Fax No: \_\_\_\_\_

E-mail: \_\_\_\_\_ Website: \_\_\_\_\_

### Project manager<sup>4</sup> (if any)

Name of project manager: \_\_\_\_\_

Nationality: \_\_\_\_\_

MyKad No. / Passport No.: \_\_\_\_\_

Telephone No: \_\_\_\_\_ Mobile No: \_\_\_\_\_

Email: \_\_\_\_\_

### Qualified Persons<sup>5</sup>

#### Qualified Person 1

Name of Qualified Person: \_\_\_\_\_

MyKad No. / Passport No.: \_\_\_\_\_

Organisation or Company Name: \_\_\_\_\_

Company Registration No. (if any): \_\_\_\_\_

Telephone No: \_\_\_\_\_ Mobile No: \_\_\_\_\_

Email: \_\_\_\_\_

<sup>3</sup> The service provider can be a main engineering procurement and construction contractor, system integrator or technology provider based in Malaysia. The Applicant may also be its own service provider provided that its employees possess the applicable qualifications. A service provider may also be one of the qualified persons.

<sup>4</sup> The project manager can be an employee of either the Applicant or the service provider.

<sup>5</sup> Persons tasked by the Applicant with the carrying out of any work, action, certification, obligation or responsibility to the compliance with any provisions of any subsidiary legislation made pursuant to the Renewable Energy Act 2011. The Applicant is required to provide evidence of qualifications of qualified persons consistent with the requirements of the Renewable Energy (Technical and Operations) Rules 2011.



**Sustainable Energy Development Authority Malaysia (SEDA Malaysia)**

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Scope of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Qualified Person 2**

Name of Qualified Person: \_\_\_\_\_  
MyKad No. / Passport No.: \_\_\_\_\_  
Organisation or Company  
Name: \_\_\_\_\_  
Company Registration No.  
(if any): \_\_\_\_\_  
Telephone No: \_\_\_\_\_ Mobile No: \_\_\_\_\_  
Email: \_\_\_\_\_  
Scope of Work: \_\_\_\_\_  
\_\_\_\_\_

**Qualified Person 3**

Name of Qualified Person: \_\_\_\_\_  
MyKad No. / Passport No.: \_\_\_\_\_  
Organisation or Company  
Name: \_\_\_\_\_  
Company Registration No.  
(if any): \_\_\_\_\_  
Telephone No: \_\_\_\_\_ Mobile No: \_\_\_\_\_  
Email: \_\_\_\_\_  
Scope of Work: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Technical Information on New or Existing Project**

Total Installed Capacity (MW): \_\_\_\_\_

Net Export Capacity (MW): \_\_\_\_\_

Interconnection Voltage<sup>6</sup> (kV): \_\_\_\_\_  
*(e.g.: 0.23kV, 0.4kV, 11kV, 22kV, 33kV, or 132kV)*

Distance from the Plant to Interconnection Point (km): \_\_\_\_\_

	Generation <sup>8</sup>	Export <sup>9</sup>
Capacity factor <sup>7</sup> (%)		
Energy Yield (MWh/year)		
Specific Yield (MWh/MW/year)		

**Yield Projection**

Year / Yield	Generation (Based on Installed Capacity)		Export / Declared Annual Availability <sup>10</sup> (Based on Net Export Capacity)	
	MWh	Capacity factor (%)	MWh	Capacity factor (%)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

<sup>6</sup> As determine by PSS or CCC (if any)

<sup>7</sup> Total amount of renewable energy to be generated by the renewable energy installation in a year.

<sup>8</sup> Total amount of renewable energy to be generated by the renewable energy installation and delivered up to connection point in a year.

<sup>9</sup> Capacity Factor Formula:

Capacity Factor (%) = [Energy Generated (MWh)/(Installed Capacity (MW)\* 8760)] \* 100

Percentage Export (%) = [Energy Export (MWh) / (Net Export Capacity (MW)\* 8760)] \* 100

<sup>10</sup> The Declared Annual Availability will be automatically pro-rated for the first and last years by the e-FiT Online System based on export data input.



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17				
18				
19				
20				
21				
22				

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**Fuel Requirements**

Fuel Type: \_\_\_\_\_ Quantity (cubic metres / year): \_\_\_\_\_  
Calorific Value (kJ / cubic metres): \_\_\_\_\_

Ratio of Supplied Fuel:

No.	Supplier Name (e.g. the Applicant or name of other suppliers)	Ratio of Supplied Fuel <sup>11</sup> (%)
1.		
2.		
3.		
4.		
5.		

Please attach scanned soft copy of the letter(s) of intent/offer letter(s)/term sheet(s) from the entity(ies) that will be providing renewable resources to the Applicant for the project.

Start Up Fuel:  Diesel  Gas  Petrol  
(if any)  Others: \_\_\_\_\_

<sup>11</sup> The total sum of this column must be equivalent to 100% of the renewable energy installation's fuel requirements.



## Financing

### A. Projected Capital Expenditure

#### 1. Equipment Cost:

Description	Cost (RM)
Digester equipment	
Gas engine	
Generator	
Balance of system	

#### 2. Installation Cost (RM):

#### 3. Design & Consultancy (RM):

#### 4. Interconnection Cost (RM):

#### 5. Preliminary Cost (RM):

#### 6. Other Capital Cost (Please specify):

Description	Amount (RM)

Total Capital Cost (RM):

Summation of Section A (No. 1 – 6)

### B. Loan

Do you require a loan?

Yes

No

If yes, please fill in financing information below.

Financier:

Loan Amount (RM):

Loan Interest (%):

Loan Tenure (years):



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**Total equity contribution by the Applicant<sup>12</sup>**

Equity (RM) \_\_\_\_\_ Percentage<sup>13</sup> (%) \_\_\_\_\_

**C. Projected Annual Operational Expenditure**

- 1. Insurance Premium (RM): \_\_\_\_\_
- 2. Operation & Maintenance Cost (RM): \_\_\_\_\_
- 3. Fuel Cost at Site (RM): \_\_\_\_\_
- 4. Other Operating Cost (Please specify): \_\_\_\_\_

Description	Amount (RM)

**Total Operating Cost (RM):** \_\_\_\_\_  
*(Summation of Section C (No. 1- 4))*

**Project IRR**

Project IRR (%): \_\_\_\_\_

<sup>12</sup> Note for company only: As part of your Financial milestones, you will be required to upload a copy of your company's bank account latest 3 months statements showing a minimum credit balance of 5% of the capital cost of your project

<sup>13</sup> Applicant's equity is limited to not less than 5% of the total project cost.

**Proposed Work Plan<sup>14</sup>**

No.	Milestones	Estimated Due Date
1.	Feed-in approval application submission date Time frame: _____Month <sup>15</sup> (s) _____Week (s)	
2.	Registration of REPPA with SEDA & ST Public License (Provisional) Time frame: _____Month (s) _____Week (s)	
3.	Financing Agreement (S) Time frame: _____Month (s) _____Week (s)	
4.	First payment to EPC contractor Time frame: _____Month (s) _____Week (s)	
5.	Initial Operation Date (IOD) Time frame: _____Month (s) _____Week (s)	
6.	Feed-in tariff Commencement Date	

 These data entries will be automatically calculated by the e-FiT Online System using the information submitted by the Applicant above.

<sup>14</sup> Total duration must be exactly 36 months.

<sup>15</sup> Minimum time frame for registration of REPPA is 2 months

## Supporting Documents Checklist

The certified true copies of the following documents are to be submitted in support of this application, where applicable<sup>16</sup>.

1.	Written documentation from a qualified person setting out the detailed engineering design (Including all relevant calculations to justify the installed capacity and claimed efficiencies) of the renewable energy installation utilizing the relevant fuel source including the relevant equipment for the combustion process of the fuel source, the calculation of the indicative quantity of fuel source required and the calculation of the indicative quantity of renewable energy to be generated from the installation;	<input type="checkbox"/>
2.	a) For biogas plant utilizing agriculture waste including animal waste as fuel source: scanned soft copy of the fuel supply agreement(s)/term sheet(s) from the entity(ies) that will be providing the renewable resources  (b)For plants utilizing landfill or sewage gas as fuel source: Either written evidence of the applicant's ownership of a landfill or sewage system, or a certified copy of a conditional or unconditional letter or agreement from or with the relevant municipal council or other entity agreeing to supply the applicant with the relevant fuel source;	<input type="checkbox"/>
3.	Documents proving the Applicant's ownership of the site, or other conditional or unconditional rights (e.g. Lease or leasing agreement) that the applicant has to utilize/lease the site for a minimum period equivalent to the effective period;	<input type="checkbox"/>
4.	Land title showing proof of ownership by the applicant or lessor;	<input type="checkbox"/>
5.	The approval letter from the distribution licensees (DL) together with the report on the power system study (PSS) conducted in accordance with the Renewable Energy (Technical and Operational Requirements) Rules 2011 and amendments Rules 2014;	<input type="checkbox"/>
6.	A certificate of registration (with Practicing Certificate) of each Qualified Person with the Board of Engineers Malaysia as a Professional Engineer; and	<input type="checkbox"/>
7.	Detailed financial model showing how the bid tariff is derived. The information and data provided in the financial model shall be clearly explained and in consistence with the Bid Offer and Financial Model Assumptions (mandatory in excel- softcopy).	<input type="checkbox"/>

<sup>16</sup>The maximum page size for supporting documents is A3. 01042019 (Manual Form) Application Small Hydro



## Declaration

**Applicant's Name** :  
**Bank Account No.** : \_\_\_\_\_ (This bank account no. will be used for refund of application fees)  
**Renewable Resource** : BIOGAS ( Landfill / Agri Waste )  
**Project Status** :  
**Total Installed Capacity (MW)** :  
**Net Export Capacity (MW)** :  
**Interconnection Point** :  
**Proposed Basic Bid Rate** :  
  
**Bonus** :  
**SCOD** :  
**Lot/PT No.** :  
**Project Site** :

I, (Name: .....MyKad No./Passport No .....and  
 business address .....  
 .....  
 sincerely declare the following:

1. I am a representative of the Applicant and have been duly authorized to make this declaration on its behalf.
2. The Applicant understands that this application is subject to the Terms and Conditions as specified by the Sustainable Energy Development Authority Malaysia and the Applicant hereby agrees to abide by it.
3. All information and accompanying documents submitted herein are true, accurate and complete. The Applicant is not aware of any other information or document which would make the documents submitted untrue or misleading. The Applicant understands and acknowledges that the omission of any relevant information or document, or the submission of any information or document that it knows or has reason to believe is false or misleading may result in the rejection of this application, the revocation of any feed-in approval granted pursuant to this application and/or shall constitute an offence committed by it under the Renewable Energy Act 2011 and/or its applicable subsidiary legislation.
4. The certified true copies of the documents identified in the Supporting Documents Checklist of the application form have been submitted by the Applicant to the Sustainable Energy Development Authority Malaysia in support of this application.
5. Any additional information that may henceforth be required will be submitted by the Applicant by electronic medium or by way of electronic transmission in accordance with guidelines issued by the Sustainable Energy Development Authority Malaysia. Such information shall include but is not limited to information relating to the milestones for the proposed renewable energy installation and the dates by which such milestones are to be achieved. The declaration I have made in paragraph 2 above shall be repeated for any additional information the Applicant may submit in accordance with this paragraph 4.
6. The Applicant will immediately notify the Sustainable Energy Development Authority Malaysia if the Applicant becomes insolvent.
7. A service provider may be appointed by the Applicant to make this application on its behalf but the Applicant shall be fully responsible for the contents thereof.
8. The Applicant hereby agrees to the Terms and Conditions of Use of the Sustainable Energy Development Authority Malaysia website. These terms include but are not limited to the restriction on divulging the e-FiT Online System username and password assigned to the Applicant to any third party and permitting or encouraging any unauthorised user to access the restricted section in the e-FiT Online System by using the username and password assigned to the Applicant.
9. The Applicant hereby agrees and consents to the full disclosure of the information submitted with this application and any additional information it may submit in accordance with paragraph 4 above to the Energy Commission and any service provider and/or financier identified by the Applicant. The Applicant also agrees and consents to the disclosure of such information to the distribution licensee whose electricity distribution network the proposed renewable energy installation is to be connected to, to the extent deemed appropriate by the Sustainable Energy Development Authority Malaysia. Such disclosure shall not be a breach of any confidentiality obligations owed to it by the Sustainable Energy Development Authority Malaysia.
10. The Applicant hereby agrees to upload a copy of this duly signed Declaration Form onto the e-FiT system within 3 calendar days from today; failing which will result in the deemed withdrawal of this application pursuant to subsection 6(2) of the Renewable Energy Act 2011.

Name :  
 MyKad/Passport No :  
 Date :