



**Guideline on
National Energy and Green Technology
Award 2018 (NEGTA 2018)**

for

Renewable Energy Category



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1. Background and Objectives

The National Energy and Green Technology Awards (NEGTA) is a strategic platform in promoting energy and nurturing the mind of innovating. NEGTA is the cornerstone of a joint venture between government and private sector for R&D, innovation in products, solutions and commercialization towards the sustainable green economy. NEGTA also is an essential platform for promoting the development of Renewable Energy (RE), Energy Efficiency (EE) and Green Energy (GE) innovation focusing on local products and services. The objectives of NEGTA specifically for Renewable Energy Category are:

- i) To highlight the best practices and pioneering work in renewable energy (RE) projects in Malaysia.
- ii) To recognize the efforts of the public and private sectors across Malaysia in renewable energy (RE) and shall manifest a positive impact to Malaysian as well as to steer green technology awareness on a broad level across the different facets of society.
- iii) To encourage all sector participation in adopting and implementing innovative and creative renewable energy (RE) projects to enhance business growth.
- iv) To promote renewable energy (RE) as another form of energy resource, thus to complement and to improve environmental quality in Malaysia.
- v) Exchanging knowledge and experience in development and maintenance of the renewable energy (RE) projects.

2. Competition Categories and Definitions

The sub-categories for Renewable Energy Category under NEGTA 2018 will refer to the sub-categories competed in Asean Energy Award for Renewable Energy Project. The categories are 1) On Grid Categories 2) Off Grid Categories 3) Cogeneration and 5) Biofuels.

The categories and definitions are described below:

2.1. Off Grid

- a) Power: Electricity generated from renewable energy (RE) sources
- b) Thermal: Thermal energy generated from RE Sources e.g. solar hot water, drying, biogas for cooking, biomass for steam, solar pump, etc.

**Note: can include innovative RE project*

2.2. On Grid

- a) National Grid: Electricity generated from all types of renewable energy (RE) sources & Hydro (run off river only)

b) Local Grid: Electricity generated from all types of renewable energy (RE) sources & Hydro (run off river only)

**Note: can include innovative RE project*

2.3. Cogeneration

Heat & power generated from all types of renewable energy (RE) sources

2.4. Biofuel

Projects which use agricultural products such as cassava, sugar cane, palm oil, used vegetable oils, cellulose, etc. as raw material in the production of liquid/solid biofuels e.g. biodiesel, ethanol, palletizing, etc.

3. Number of Winners Per Category

The numbers of winners per category are listed in table below:

Name of Category	No. of Winners per Category
Off grid - thermal	1 winner, 2 runners up
Off-grid - power	1 winner, 2 runners up
On-grid – national grid	1 winner, 2 runners up
On-grid - local grid	1 winner, 2 runners up
Cogeneration	1 winner, 1 runner up
Biofuels	1 winner, 1 runner up

4. Criteria and Distribution of Scores

Panel of Judges will evaluate each project entries/report submission and shall give evaluation scores in view of the substance of the contents and information presented therein in the submitted entry documents in reference to sets of established criteria.

The maximum total point score number is 100% marks based on the criteria distribution. Tables below show the criteria with corresponding maximum percentage point allocation:

4.1. Off Grid, On Grid & Cogeneration categories

No	Criteria	Description	Aspects	Distribution of Score (%)
1.	Originality	Able to highlight the concept of idea, initial issues, awareness and obligation	a. Design b. Application c. Approach	a. 4% b. 4% c. 2% Total : 10%
2.	Environment Consideration	Clearly describe the impact and advantage from the project physically	a. Waste management b. Amount of GHG emission avoided c. Impact to ecosystem	a. 5% b. 5% c. 5% Total : 15%
3.	Social Consideration	Clearly describe the impact and advantage from the project humanity	a. Community awareness, participation and acceptance b. Corporate Social Responsibility program c. Benefit to user, community and country	a. 3% b. 4% c. 3% Total : 10%
4.	Technical, Economic and Market Consideration	Able to edify with specific explanation of technology applied on the reliability, durability, economically and accountability	a. Technical design (installed capacity, system) b. Technical performance (rated capacity & actual capacity) c. Investment indicator (*investment cost, IRR, ROI, Payback period & effectiveness ratio-cost/MW) d. Financial scheme/livelihood project (fully/semi commercial, government, PPP) e. Funder (government and non-government) f. Market size (potential within 5 years)	a. 6% b. 6% c. 6% d. 2% e. 2% f. 2%

			<ul style="list-style-type: none"> g. Local Manufacturing/ content of system h. Amount of fossil energy avoided (ktoe, etc.) i. Life of project 	<ul style="list-style-type: none"> g. 2% h. 2% i. 2% Total : 30%
5.	Operation and Maintenance Scheme	Satisfactory description on the optimization and preservation approach to maintain the project as a successful benchmark and practical.	<ul style="list-style-type: none"> a. Operation hours b. Maintenance scheme (in-house, contracted out service, government, other) c. Other maintenance measures (training, after-sales service) d. Energy conservation and cost reduction system e. Local service content f. ISO for Environment and Quality 	<ul style="list-style-type: none"> a. 3% b. 3% c. 3% d. 4% e. 4% f. 3% Total : 20%
6.	Replicability	Literally highlighted the situation or similarity of issues that will think through to adopt the concept of project.	<ul style="list-style-type: none"> a. Relevance, impact and efficiency b. Cost effectiveness (No/Low/High cost) c. Sustainability of project 	<ul style="list-style-type: none"> a. 3% b. 3% c. 4% Total : 10%
7.	Presentation of Document (Facts & figures), Figures, Tables and Photos	Presentably shown the dynamic and meaningful fact and evident would reflect clearness on the elaboration	<ul style="list-style-type: none"> a. Figures, tables and photos b. Title/brief of description 	<ul style="list-style-type: none"> a. 3% b. 2% Total : 5%

4.2. Biofuels category

No	Criteria	Description	Aspects	Distribution of Score (%)
1.	Originality	Able to highlight the concept of idea, initial issues, awareness and obligation	a. Design b. Application c. Approach	a. 4% b. 4% c. 2% Total : 10%
2.	Environment Consideration	Clearly describe the impact and advantage from the project physically	a. Waste management b. Amount of GHG emission avoided c. Impact to ecosystem	a. 5% b. 5% c. 5% Total : 15%
3.	Social Consideration	Clearly describe the impact and advantage from the project humanity	a. Community awareness, participation and acceptance b. Corporate Social Responsibility program c. Benefit to user, community and country	a. 5% b. 5% c. 5% Total : 15%
4.	Technical, Economic and Market Consideration	Able to edify with specific explanation of technology applied on the reliability, durability, economically and accountability	a. Technical design (installed capacity, existing production capacity) b. Technical performance (rated capacity & actual capacity) c. Investment indicator (*investment cost, IRR, ROI, Payback period & effectiveness ratio-cost/MW) d. Financial scheme/ livelihood project (fully/semi commercial, government, PPP)	a. 5% b. 4% c. 4% d. 2% e. 2%

			<ul style="list-style-type: none"> e. Funder (government and non-government) f. Market size (potential within 5 years) g. Local Manufacturing/ content of system h. Amount of fossil energy avoided (ktoe, etc.) i. Life of project 	<ul style="list-style-type: none"> f. 2% g. 2% h. 2% i. 2% Total : 25%
5.	Operation and Maintenance Scheme	Satisfactory description on the optimization and preservation approach to maintain the project as a successful benchmark and practical.	<ul style="list-style-type: none"> a. Operation hours b. Maintenance scheme (in-house, contracted out service, government, other) c. Other maintenance measures (training, after-sales service) d. Energy conservation and cost reduction system e. Local service content f. ISO for Environment and Quality g. Farm management, sustainability supply and resources of raw materials 	<ul style="list-style-type: none"> i) 2% ii) 3% iii) 3% iv) 3% v) 3% vi) 3% vii) 3% Total : 20%
6.	Replicability	Literally highlighted the situation or similarity of issues that will think through to adopt the concept of project.	<ul style="list-style-type: none"> a. Relevance, impact and efficiency b. Cost effectiveness (No/Low/High cost) c. Sustainability of project 	<ul style="list-style-type: none"> a. 3% b. 3% c. 4% Total : 10%
6.	Presentation of Document (Facts & figures), Figures, Tables and Photos	Presentably shown the dynamic and meaningful fact and evident would reflect clearness on the elaboration	<ul style="list-style-type: none"> a. Figures, tables and photos b. Title/brief of description 	<ul style="list-style-type: none"> c. 3% d. 2% Total : 5%

5. Rules and Format of Submission

5.1. Submission Format

Standardization of project entries/report submission in high resolution would make easy to capture the important points:

- i) Format (A4, Times New Roman 12 cpi, topics sequential).
- ii) Number of pages for OFF Grid, ON Grid, Biofuels & Cogeneration - Total 15 pages + attachment (no limit).
- iii) Project entries/report submission must be submitted using NEGTA 2018 Report Submission Form.
- iv) Noncompliance/incomplete documents or information will automatically get a reduction 5% from total score.

5.2. Submission Procedure

- i) All project entries/report submission must be submitted in softcopy (by email) and six (6) original colored hardcopies which sealed in an envelope. The submission of all documents is address to the NEGTA 2018 secretariat.
- ii) Authorization by the owner for NEGTA Committee and Secretariat to visit the project must be submitted along with the complete report documentations. This can be done via Certification and Endorsement Form attached in Report Submission Form
- iii) After the submission deadline, the NEGTA 2018 secretariat shall review and ensure that all submissions are in full compliance with the rules and requirements of the competition.

5.3. Pre-Qualification Requirement

- i) The fuel source of the project must originate from renewable sources e.g. biomass, biogas, hydro (run-off river), solar, wind, geothermal, etc.
- ii) No minimum or maximum installed capacity is required.
- iii) The project are in operation at least 1 (one) year from the Commercial Operating Date (COD).