



REPORT SUBMISSION FORM

Renewable Energy Category

Introduction

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.

Objective

1. To highlight the best practices and pioneering work in renewable energy (RE) projects in Malaysia.
2. 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.
3. To encourage all sector participation in adopting and implementing innovative and creative renewable energy (RE) projects to enhance business growth.
4. To promote renewable energy (RE) as another form of energy resource, thus to complement and to improve environmental quality in Malaysia.
5. Exchanging knowledge and experience in development and maintenance of the renewable energy (RE) projects.

SUBMISSION GUIDELINE

Application Form for Category:

This Report Submission Form can be used to submit any sub-categories as indicate below:

1. **OFF Grid**
 - a. Power
 - b. Thermal
2. **ON Grid**
 - a. National Grid
 - b. Local Grid
3. **Cogeneration**
4. **Biofuels**



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Application Format, Terms and Condition

Please refer to the Guideline on National Energy and Green Technology Award 2018 (NEGTA 2018) for Renewable Energy Category

Contents of the Report

1. Originality: Max. **1 page**
2. Environment Consideration: Max. **2 pages**
3. Social Consideration: Max. **2 pages**
4. Technical, Economic & Market Consideration: Max. **3 pages**
5. Operation & Maintenance Scheme: Max. **2 pages**
6. Replicability: Max. **2 pages**
7. Figures, Tables, Photos: Max. **3 pages**



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APPLICANT INFORMATION

Application Number <i>(Office Use Only)</i>	
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Category	OFF Grid
	<input type="checkbox"/> Power
	<input type="checkbox"/> Thermal
	ON Grid
	<input type="checkbox"/> National Grid
<input type="checkbox"/> Local Grid	
<input type="checkbox"/> Cogeneration	
<input type="checkbox"/> Biofuels	

Title of Activity/Project/Theme

Source of Energy	
Age of Project/Commercial Operating Date (COD)	

Applicant General Information	
Name of Company	
Primary Contact Person	
Designation	
Business Address	
Project Site Address	
Telephone	
Mobile Phone	
Fax	
Email	
Website	



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Nature of Business

Describe the nature of business of the company

Project Abstract

Describe project executive summary

Employment Opportunities

Executive: (Technical) _____ (Non-Technical) _____

Non-Executive: _____



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CERTIFICATION AND ENDORSEMENT

The (*insert company name*) hereby agreed to allow the NEGTA Board of Judges and other experts that are designated by the NEGTA committee to visit the building and verify the authenticity of the data. However, two weeks advance notice is required to allow for necessary arrangements. We also hereby agree that NEGTA organizing party can publish the whole submission in the NEGTA, Ministry of Energy, Green Technology and Water and Energy Commission publication and website, without any prior consent of the owner of the company. We, the undersigned certified that the information given is true and accurate and prepared with the consent of the party/ies involved.

<p>.....</p> <p>(<i>Name of the Applicant</i>)</p> <p>Position: Office:</p> <p>Tel.: Fax: E-Mail:</p>	<p>.....</p> <p>(<i>Name of the top Manager/Owner</i>)</p> <p>Position: Office:</p> <p>Tel.: Fax: E-Mail:</p>
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For further inquiries, please contact:

NEGTA 2018 Secretariat
Malaysian Green Technology Corporation
Jalan 9/10, Seksyen 2
Persiaran Usahawan
43650 Bandar Baru Bangi
Selangor Darul Ehsan
Tel.: 03-8921 0800 or E-mail: negta@greentechmalaysia.my



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REPORT CONTENTS

A. ORIGINALITY

A.1 Project Profile

- Describe the conceptual of project design, application and approach

Design

Application

Approach

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B. ENVIRONMENT CONSIDERATION

B.1 Amount of Emissions/Pollution Avoided				
No.	Parameters	Value and unit		
		Before	After	Carbon Emission Reduction
1	Primary GHG emission (Carbon dioxide, Methane, Nitrous oxide, CFC)			
2	Electricity consumption			
3	Fuel consumption			
4	Water consumption			
5	Air pollution (e.g. SO _x , No _x and CO)			
6	Banned materials (i.e. RoHS compliance, etc.)			
7	Dioxine level			
8	Water pollution (e.g. BOD, COD, NH ₃ and pH)			
9	Energy efficiency/ Coefficient of Performance (e.g. COP)			
10	Indoor Environmental Quality			
11	Waste minimization			
12	Chemical use reduction (e.g. toxicity, volume)			
13	Other parameters Specify_____			
Total Potential Carbon Emission Reduction				
B.2 Discussion (Simple calculation of conversion)				
<ul style="list-style-type: none"> Please shows simple calculation of conversation to determine the total emission reduction achieve as per table in item B.1 				



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B.3 Project Objective & Criteria

- Please state clearly how this project can be considered as an improvement to the socio economic and environment.



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C. SOCIAL CONSIDERATION

C.1 Benefits (User, Community, Country)

- Describe the impact and advantage from the project humanity (a comparison with the previous socio economic might be helpful)

C.2 Corporate Social Responsibility Program

- Describe the social responsibility program associated with this project

C.3 Community/People Awareness, Participation and Acceptance

- Describe involvement of the community/people and their awareness and acceptance to this project

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D. TECHNICAL, ECONOMIC & MARKET CONSIDERATION

D.1 Technical Design

- Describe the previous technology in place at the existing site.
- Give the description of the technology applied (install capacity, technology selection) in the table below.

No	Parameters	Unit	Value
1	Year of the project's commencement		
2	Period of construction	Year	
3	Capacity	MW	
4	Capacity factor	%	
5	Generation	GWh/year	
6	Useful Life	Year	

- Please indicate and elaborate as to how this project can be considered as an improvement to the existing technology (system reliability & durability).

D.2 Technical Performance

- Specific explanation of technology applied on the reliability and durability supported by factual evident.
- Describe the technical challenges implicated

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D.3 Investment Indicator				
Financial Model	<ul style="list-style-type: none"> Please provide the following detail on cost parameter: 			
	No	Parameters	Unit	Value
	1	Pre-construction stage (consulting, license, permit, land acquisition, etc)	USD	
	2	Construction stage (equipment, machine, turbine, etc)	USD	
	3	EPC/Installation (labour, civil works, transport, design, engineering, project management cost, etc)	USD	
	4	Grid connection – for On-grid project	USD	
	5	Refurbishment/ decommissioning	USD	
		Total Capital Cost/Expenditure (CAPEX) – if the breakdown above is not available	USD	
	7	O&M cost (excluding fuel for biomass project)	USD or	
			% CAPEX	
	8	Fuel cost (for biomass project)	USD	
	9	Discount rate	%	
	10	IRR		
	11	ROI		
12	Payback period			
D.4 Financial Scheme/Livelihood Projects				
<ul style="list-style-type: none"> An explanation of financing instrument on the economical and accountability (fully/semi commercial, government, PPP) 				
D.5 Funder (Government and Non-Government)				
<ul style="list-style-type: none"> Provide the organization details, amount of funding, etc 				



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D.6 Market Size (Potential Within 5 Years)

- Describe project potential within 5 years period of time

D.7 Local Manufacturing/Content of System

- Describe local manufacturing/content of the system

D.8 Amount of Fossil Energy Avoided (ktoe, etc)

- Determine amount of fossil energy avoided from the project

D.9 Life of Project

- Determine life of the project



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E. OPERATION & MAINTENANCE SCHEME

E.1 Operation Hours (Day/Month/Year)
<ul style="list-style-type: none">Describe the optimization and preservation approach to maintain the project as a successful benchmark and practical
E.2 Maintenance Scheme (In-House, Contracted Out Service, Government, Others)
E.3 Other Maintenance Measures (Training, After-Sales Service)
E.4 Energy Conservation and Cost Reduction System



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E.5 Local Service Content

E.6 ISO for Environment and Quality

E.7 Farm Management, Sustainability Supply and Resources of Raw Materials – For Biofuels Category Only

F. REPLICABILITY

F.1 Relevance, Impact, Efficiency

- Enlighten the situation or similarity of issues that will think through to adopt the concept of project.



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F.2 Cost Effectiveness (No, Low, High Cost)
F.3 Sustainability of Project
F.4 Others

G. FIGURES, TABLES, PHOTOS

- Show the dynamic and meaningful fact and evident would reflect clearness on the elaboration