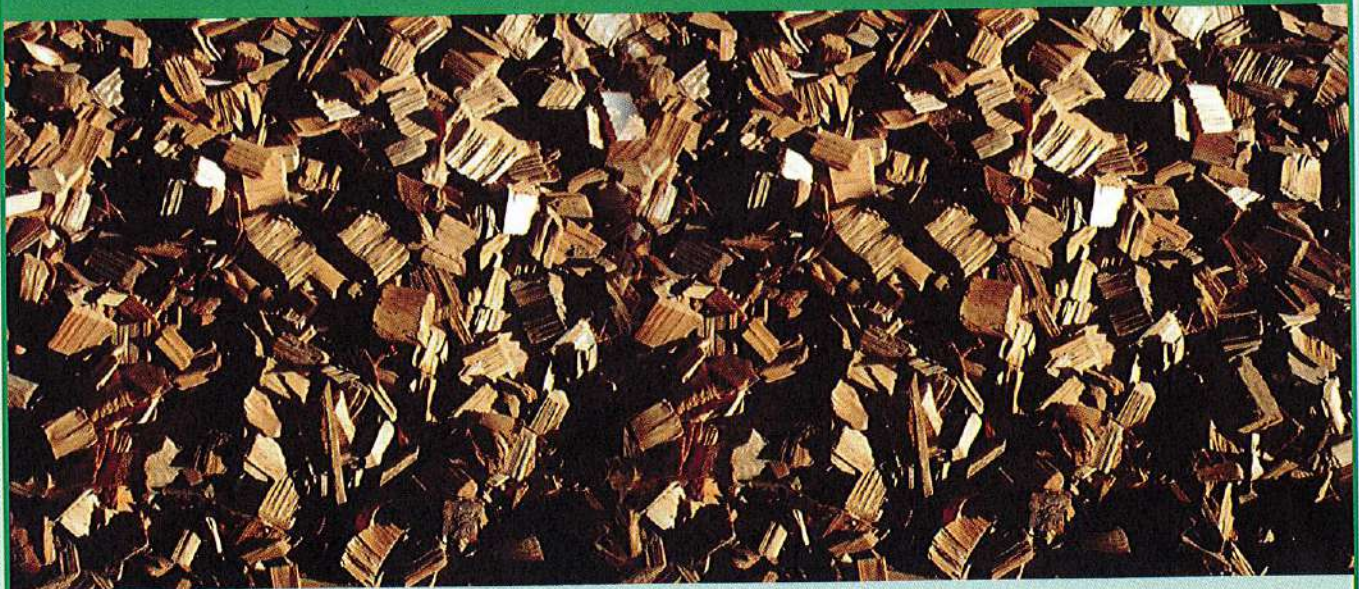


Application for
**Engaging in and Carrying on of an
On-grid Renewable Energy Project**



Project Type: **Biomass**

Dear Applicant

Thank you for the interest shown in developing renewable energy resources in Sri Lanka.

We are pleased to present you a copy of the prescribed application form attached hereto, formulated according to the provisions laid out in the Sri Lanka Sustainable Energy Authority Act No. 35 of 2007, On-grid Renewable Energy Projects Regulation 2009 published in the Gazette No. 1599/6 of 27th April 2009 and amended by the Gazette No. 1705/22 of 10th May 2011. A Guide to the Project Approval Process for On-grid Renewable Energy Project Development (Version V2.0/2011) can be downloaded at http://www.energy.gov.lk/pdf/guideline/Grid_Renewable.pdf You are strongly advised to go through this Guide before submitting your application.

Your kind attention is invited to Chapter 2.0 'Applying for a Provisional Approval' given in the Guide to the Project Approval Process, for details on submitting a complete application. Please be kind enough to pay the application fee either in cash or through a bank draft, since this Authority is not in a position to accept cheques for the payment of application fees.

We look forward to the perfected application form.

Thank You

Director General

Method of Submitting New Applications

Any person, an individual or a company, may apply to develop a renewable energy project anytime, irrespective of whether the person holds any rights to the resource or land rights. The SEA would entertain only complete applications as required under Section 16(2) of the Act. A complete application form, prescribed in the On-grid Renewable Energy Projects Regulation 2011, accompanied by a Pre-feasibility report prepared by a Consultant accredited by the Authority, dealing with the following main components will have to be made after payment of the prescribed application fee to the SEA.

- a) Pre-feasibility report prepared by a Consultant accredited by SEA, with the one page summary
- b) A copy of the map of the geographical location of the proposed project
- c) A brief description of the project, including the amount of power to be generated
- d) The total estimated cost and financial model including the optimisation criteria adopted
- e) Proof of availability of adequate finances or the manner in which the required finances for the project are to be obtained
- f) Project location, describing the relative location of energy conversion plant and equipment to the resource, as a further explanation of (b) above
- g) A statement explaining how the Applicant intends to deliver electricity generated by the project to the national grid, and geographical area traversed by the power line to be constructed for that purpose
- h) A copy of the receipt obtained from the SEA, for the payment of the prescribed application fee, which will be calculated according to table below.

Amount of power proposed to be generated	Fee to be paid on application
1,000 kW or part thereof	LKR 100,000
Each additional 1,000 kW	LKR 50,000 payable on pro rata basis

Note: Projects of capacities less than 10,000 kW implemented by a single party or parties acting in concert, in parallel or in phases in a same geographical or spatial context will be considered as a single project capable of generating more than 10,000 kW of power.

Any application, after an initial inspection having obvious omissions will be returned unregistered to the Applicant, requesting the attention to the said omissions. An Applicant who fail to submit complete application forms runs the risk of another party applying for the same resource site, between the first attempt to submit the application and the second attempt, after attending to the obvious omissions as pointed out by the SEA.

APPLICATION FORM

Date of Application

Y	Y	Y	Y	M	M	D	D
---	---	---	---	---	---	---	---

Registration No.	R								
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For official use only

Application for Engaging in and Carrying on of an on-grid Renewable Energy Project

For projects of the **type** listed below.

See "Guide to the Project Approval Process for On-Grid Renewable Energy Development" for the policy on other types of renewable energy projects.

1. Project Type: Please mark in the appropriate box below. Please select **only one type**.

Small Hydro	Wind	Biomass (Grown)	Waste			Waste Heat	Other (Pls. Specify)
			Agricultural	Industrial	Municipal		

2. Name of the Project and its Capacity (kW):

(This is only for identification, the legal name may be established at a later stage)

3. Name and Address of the Applicant :

Name: (Mr./Ms./.....) :

If the applicant is a Company : Name

: Registration No.....

: Names of Directors of the Company.....

.....

.....

Address: :

.....

.....

.....

Telephone Numbers:

Email:

0			-						
0			-						

Company resolution certified by Company Secretary authorising the applicant to submit the application (please attach)

4. Project Pre-feasibility/Report (please attach)

The Applicant is expected to provide a Pre-feasibility report along with the application prepared by a Consultant accredited by the Authority, including the information and documents referred to in paragraphs (a) to (f) of sub-section (2) Section 16 of the Act.

- a. Paste in the box below the relevant part of the 1:50000 map showing locations of the all project components and powerhouse

Copy of 1:50000 Map with Project Layout (1:50000 scale not to be altered)	Sheet No		Sheet Name	
---	----------	--	------------	--

(b) a brief description of the project, including the amount of power to be generated;

Project Information	Project Type:
Installed Generating Capacity of the Plant (kW)	
Name of Stream/River (if Hydro)	
Name of the Project	
Annual Electricity Generation (GWh)	
Proposed location of the Power Plant: provide the details below	
Village/Grama Niladhari Division	
Divisional Secretary Division	
District	

(c) the total estimated cost and financial model, including optimisation criteria adopted;

(d) proof of availability of adequate finances or the manner in which the required finances for the project are to be obtained;

(e) Project location *i.e.* Weir and Power House relative to river or stream system if it is a hydro power project, wind Turbine and Structures if it is a Wind power project, Energy Plantation, Power House and Water Source if it is a Biomass Project and Conversion facility relative to energy resource, if it is any other project; and

(f) Grid connection *i.e.* how the applicant intends to evacuate electricity generated and the point at which the generator will be connected to the national grid and the geographical area traversed by the power line constructed for this purpose.

Certification by the Applicant:

- I hereby certify that the Pre-feasibility Report attached to this application has been prepared by (name), a Consultant accredited by the Authority, and whose name and signature appears on page 1 of the Report.
- I attach herewith a copy of the receipt obtained, on the payment of the appropriate fee which is required to be made along with this application.
- I attach herewith technical and other details related to the resource site, as requested by the Director General.
- I have read and understood the "Guide to the Project Approval Process for On-Grid Renewable Energy Development"

Name of person signing this application:.....

.....
Signature:

Date

Y	Y	Y	Y	M	M	D	D
---	---	---	---	---	---	---	---

CALCULATION OF APPLICATION FEE

Column I	Column II
Amount of power proposed to be generated	Fee to be paid on application and reapplication
1,000 kW or part thereof	LKR 100,000
Each additional 1,000kW	LKR 50,000 payable on pro rata basis

Note: Projects of capacities less than 10,000 kW implemented by a single party or parties acting in concert, in parallel or in phases in a same geographical or spatial context will be considered as a single project capable of generating more than 10,000 kW of power.

Checklist of Contents of the Pre-feasibility Study which is to be attached to the Application for Provisional Approval for an On-grid Renewable Energy Project

Project type: **Biomass (grown)**

Profile of the Applicant	Mark Yes () No (x)
Background ¹ of the company/individual applying for provisional approval	
Site Description	
Name of the site	
Name of the village and administrative divisions	
Sketch of the area earmarked for the power plant	
Land use and general socio-economic background of the area	
General infrastructure facilities - access roads, nearest CEB grid substation, water supply	
Preliminary Plant Design	
Rated capacity	
Preliminary layout of the power plant including a single-line diagram of the electrical system up to grid interconnection	
Gross/ net annual electricity generation	
Biomass type earmarked as the fuel and key properties	
Heat and mass balance calculations	
Biomass demand	
Data on biomass yield, required land area	
Ash disposal arrangements	
Biomass Supply	
Method of sourcing biomass	
If biomass will be grown by the plant owner, area earmarked for biomass plantations	
If biomass will be sourced from other suppliers, information on the identified suppliers - name, location, letter of consent in principle	
Arrangements for harvesting, transport and supply of biomass	
Localised social & environmental benefits likely to result due to utilisation of biomass in the power plant	
Localised negative social & environmental impacts likely to result due to utilisation of biomass in the power plant	
Proposed measures to mitigate negative impacts	
Project Costs	
Capital cost of the project	
Cost of biomass supply - price payable for biomass at source, handling costs, transport costs	
O&M costs, insurance costs	
Financial Analysis	
Financing parameters	
Financial analysis including a sensitivity analysis against key variables	
Project Development Plan	
Site ownership, plans to acquire land	
Source(s) earmarked to raise the equity and debt financing	
Project implementation schedule	

¹ Current business, products,/services, proposed business plan for the project

To be completed by the Applicant and provided as the first page of the Pre-feasibility Report. Please fill the unshaded boxes only.

Project Type		Biomass (grown)		Name of the Applicant																																											
Name of the Project																																															
Location of Power Plant		District: Village(s)		DS Division GN Division(s)																																											
Resource Information	Name of the fuel	Yield (kg/tree/year)	Moisture Content As harvested and after drying	LHV (MJ/kg)																																											
Fuelwood Supply	Applicants' dedicated fuelwood plantation	District	DS division	Extent of land (ha)																																											
	Outside suppliers	Number of suppliers	Mono crop or mixed crop	Extent of land (ha)																																											
Power Plant Data	Power plant technology	Installed capacity (kW)	Overall plant efficiency	Specific fuel consumption (kg/kWh)																																											
	Biomass demand (tonne/day)	Water demand (m ³ /day)	Cooling method (describe):	Ash/residues (tonne/day)																																											
Transmission	Interconnection voltage (volt)	Length of new transmission line (km)	Receiving grid substation	Any special issues on transmission:																																											
Environmental issues (describe)																																															
Estimated Investment (LKR million)	Pre-project, land rights (LKR million)																																														
Please state here any assumptions in cost estimates	Civil works (LKR million)																																														
	Electro-mechanical equipment (LKR million)																																														
	Transmission line (LKR million)																																														
	Other-IDC, insurance, working capital, contingencies (LKR million)																																														
	Project development costs (LKR million)																																														
Project IRR	Estimated annual maintenance cost (LKR million)		Other financial parameters (specify)																																												
Please describe any additional issues related to the resource, power plant, land and transmission line, that require the attention of the SEA:																																															
<table border="0" style="width:100%"> <tr> <td style="width:100px"></td> <td style="width:100px"></td> <td style="width:100px"></td> <td style="width:100px"></td> <td style="width:100px"></td> <td style="width:100px"></td> </tr> <tr> <td>Equity IRR</td> <td colspan="5">Project Financing Plan (LKR million)</td> </tr> <tr> <td></td> <td colspan="5">Equity by the Applicant</td> </tr> <tr> <td></td> <td colspan="5">Equity from other sources</td> </tr> <tr> <td></td> <td colspan="5">Loans</td> </tr> <tr> <td></td> <td colspan="5">Total</td> </tr> <tr> <td></td> <td colspan="5">Any special notes on the financing plan:</td> </tr> </table>												Equity IRR	Project Financing Plan (LKR million)						Equity by the Applicant						Equity from other sources						Loans						Total						Any special notes on the financing plan:				
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	Any special notes on the financing plan:																																														

For use by SEA:

Notes to the Project Approving Committee:

PAC submission Date:	Discussed on:	Decision:	Communicated to applicant on:
Y Y Y Y M M D D	Y Y Y Y M M D D	Y Y Y Y M M D D	Y Y Y Y M M D D

Checklist of important attributes to be considered when registering new applications

Duly filled application form		Yes	No
1	Minute by Dir/Head, for processing of application		
2	Project type		
3	Name of Project & its Capacity		
4	Contact details Name of Applicant: if the applicant is to be changed later for any reason, a processing fee equal to application is required to be paid, to effect such changes		
4 (a)	Pre-feasibility report prepared by a Consultant accredited by SEA		
4 (b)	Original geographical Location Marked map (1:50000)		
4(c)	A brief description of the project		
4(d)	The total estimated cost and financial model		
4(e)	Proof of availability of adequate finances		
4(f)	Project location		
5	Grid connection power line trace		
6	Certification by the Applicant with Signature		
7	Certification by the Accredited Consultant with Signature		
8	Pre- Feasibility Study cover page Project type <input type="text"/> Capacity <input type="text"/> Applicant Details <input type="text"/> Consultant Details <input type="text"/>		
9	Annex to the Pre- feasibility report : Land Resource Requirement		
10	Summary sheet : Format F2		
11	Annual Reports / Audited Accounts / Bank References		
12	Registration No		
13	A copy of the receipt obtained from the SEA for the payment of application fee		

Reasons of Refusal of Application

- Any Conflict with Marked location with respect to SEA Maps or EnerGIS interface
- Over / Under estimation of Power Capacity
- Non availability of Concurrence of CEB to grid connect the proposed project when consulted under the provisions of Section 17 of the Act.
- If particular NRE resources is earmarked earlier or is to be developed by a state sector organisation
- Capacity greater than 10MW; which carries no written directive from the Ministry of Power and Energy specific to the project
- Project located in an Excluded Area: all natural reserves, such as Conservation Forests and Wild Life Sanctuaries and other sensitive areas.

Note:

- Only the complete applications as required under the Section 16(2) of the Act of SLSEA and further prescribed in the On grid Renewable Energy projects Regulation 2011 will be entertained by SEA.
- The availability of a particular resources location can be checked by logging on to the EnerGIS database through (http://www.energy.gov.lk/sub_pgs/geographic.html) or by perusing the maps provided at the front office of SEA
- Pre feasibility report should include all the items in the checklist- Format F1

Certification by Applicant:

I have read, verified and understood that this application is complete / incomplete in terms of the Section 16 of the Sri Lanka Sustainable Energy Authority act No.35 of 2007 and take responsibility for the acceptance of the application based on the facts contained therein / the rejection of the application by the Project Approving Committee on any one or more grounds mentioned above

Date: _____ Applicant name and signature: _____

Time: _____ Witnessed by SEA officer name & signature: _____

CERTIFICATION BY THE ACCREDITED CONSULTANT

Name of Consultant :			
Address :			
Telephone :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	Facsimile :	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Email :			

I certify that the pre-feasibility study for **Power Project**, was conducted by me, and that the attached report and the summary are in accordance with the guidelines provided by Sri Lanka Sustainable Energy Authority (SEA).

I have visited the site and verified the locations of the project as shown in the attached map (Map details: Sheet No:..... Name: 1:50000) and understand that the SEA holds no responsibility whatsoever on any deviation which might surface later due to any unforeseen reason.

Details of the project are given below:

Applicant Details:

Name:			
Designation :			
Company :			
Address :			

Project Details:

SEA Ref :			
Type :			
Name :			
Capacity :	kW - Initial		

.....
Signature of Consultant:



- Sequence in filing:
1. Cover page
 2. This certificate by the consultant - Annex- V
 3. Summary of the Pre-feasibility study - Annex- IV
 4. Pre-feasibility report (list of contents provided)

New Renewable Energy Development

The Government of Sri Lanka envisages developing New Renewable Energy (NRE) resources to reach a 10% target in power generation by 2015. *Mahinda Chintana Idiri Dekma* envisions further extending this goal to reach 20% by 2020.

Sri Lanka Sustainable Energy Authority (SEA) was established on 01 October 2007, enacting the Sri Lanka Sustainable Energy Authority Act No. 35 of 2007. With this landmark legislation, the absolute ownership of all renewable energy resources was vested in the Republic, treating it as any other natural resource. One of the main objectives of the SEA is to identify, assess and develop renewable energy resources with a view to enhance energy security, deriving economic and social benefits to the country. Development of NRE commenced with the commissioning of the first Small Hydro Power plant in 1996. By 2010, the NRE stake in the national gross generation increased to 6.8%.

Technology	Unit	1996	2000	2005	2007	2008	2009	2010
Installed Capacity								
Major hydro	MW	1,137	1,137	1,207	1,207	1,207	1,207	1,207
Thermal	MW	309	685	1,115	1,115	1,455	1,475	1,660
NRE	MW	1	16	89	115	146	182	217
Total	MW	1,448	1,838	2,411	2,437	2,808	2,864	3,084
Hydro	%	78.6	61.9	50.1	49.5	43.0	42.2	39.2
Thermal	%	21.4	37.3	46.2	45.7	51.8	51.5	53.8
NRE	%	0.1	0.9	3.7	4.7	5.2	6.4	7.0
Gross Generation to the Grid								
Major hydro	Gwh	3,063.7	2,812.8	3,222.5	3,602.9	3,700.5	3,355.6	4,988.5
Thermal	Gwh	1,124.1	3,512.4	5,339.3	5,894.8	5,848.8	6,062.5	5,063.3
NRE	Gwh	2.7	43.1	279.7	345.1	434.6	548.5	728.5
Total	Gwh	4,190.4	6,368.3	8,841.6	9,842.8	9,983.9	9,966.6	10,780.2
Hydro	%	73.1	44.2	36.4	36.6	37.1	33.7	46.3
Thermal	%	26.8	55.2	60.4	59.9	58.6	60.8	47.0
NRE	%	0.1	0.7	3.2	3.5	4.4	5.5	6.8



Sri Lanka Sustainable Energy Authority

Call us on: +94-11-267-7445

E-mail us to: info@energy.gov.lk

Visit us at: www.energy.gov.lk

Drop in at: 3G 17, BMICH, Bauddhaloka Mawatha Colombo 00700, Sri Lanka