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The Gazette of the Democratic Socialist Republic of Sri Lanka

EXTRAORDINARY

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PART I : SECTION (I) — GENERAL

Government Notifications

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

State Ministry of Solar Wind and Hydro Power Generation Projects Development

INVITATION FOR PROPOSALS TO GENERATE AND SUPPLY OF ELECTRICAL ENERGY FROM
RENEWABLE ENERGY RESOURCES ON BUILD OWN AND OPERATE BASIS (BOO)

Reference No.: SMRE/DEV/02/55/2021.

1. To Transform the country's energy mix towards renewable and encourage Private Sector Investors to invest and setup renewable energy projects in Sri Lanka, proposals are invited from prospective Investors (foreign and/or Local) to develop and generate electrical energy through renewable energy resources such as Solar (Floating/Ground Mounted), Wind (Ground based/Offshore) and Biomass *etc.* and supply such electrical energy to the Ceylon Electricity Board. The minimum electrical generation Capacity of a single project shall not be less than 50 MW, and the prospective Investors after being screened and shortlisted shall be required to fulfil the requirements of the Sri Lanka Electricity Act, No. 20 of 2009 as amended by Act, No. 31 of 2013 and Sri Lanka Sustainable Energy Authority Act, No. 35 of 2007.
2. The Prospective Investor shall be required to submit their proposals by using the document called "Proposal Submission Document" (PSD). For easy reference, draft format is attached hereto, to guide the prospective Investors. The prospective Investors are permitted to submit more than one proposal. All proposals so received will be screened and shortlisted by a committee appointed by the Minister, as per the criteria given in the "Proposal Submission Document" (PSD), for the purpose of "structuring such proposals as projects" capable to be implemented, under the provision of said Acts and "National Procurement Guideline Applicable for Private " Sector Investments for Infrastructure Projects". Those prospective investors, (hereinafter referred to as "prospective project proponent") whose proposals have



been identified as “Projects” capable of implementing as “Renewable energy projects” under “Built Operate and Owned” (BOO) basis, will be invited to submit their detailed technical, commercial and financial proposal/s relevant to such projects through a document called the “Request for Proposal” (RFP) by the CEB under Section 43(5) of the said Electricity Act and the said National Procurement Guideline.

3. The prospective Investors may access the set of documents titled “the Proposal Submission Document” which outlines the scope of the proposal, on the SLSEA web site <http://www.energy.gov.lk>. The documents could be downloaded free of charge.
4. Proposals should be sent *via* email info@energy.gov.lk or in person or courier or by registered post to the address given below on or before 1st November 2021 at 10:00 Hrs.
5. A virtual Pre Proposal Submission meeting will be held on 14.10.2021 at 10:00 hrs. and all prospective investors are permitted to participate for getting further clarifications in respect to the invitation. To get the link of the virtual meeting, please send an email to following email address (info@energy.gov.lk).

Secretary,
State Ministry of Solar, Wind and Hydro Power
Generation Projects Development.

No.437, Galle Road,
Colombo 03,
Sri Lanka.
(Postal Code : 00300)

Annexure

A	General Information	
A 1	The proposed Project/Power Plant	
A 2	Project/Plant Location	
A 3	Name & Designation of the Applicant	
A 4	Mailing Address	
	Telephone, Fax and Email	
A 5	Experience of the Institute in similar technology and capacity	
B	Details of the Proposed Power Generation	
B 1	Targeted Install Capacity of Plant (MW)	
B 2	Guaranteed Energy output / day (MWh)	
B 3	Resources & Technology	
B 4	Interconnection Point (If Known)	
B 5	Interconnection Voltage	
B 6	Time taken to synchronize the plant after receiving CEB dispatch instruction (If Available)	

B 7	Time taken to achieve full load after synchronization (if Known)	
B 8	Expected number of days for commercial operation since signing of contract (Approximately)	
C	Commercial and Financial Proposal	
	Indicative Breakup of the Project Cost	
C 1	Cost of the proposed Plant	
C 2	Means of Finance	
C 3	Equity	
C 4	Terms of Loan	
C 5	Any other source	
C 6	Name and address of financial institution approached	
C 7	Conditions of the loan agreed	
C 8	Equity: Debt structure	
C 9	Availability of Funding to meet debt financing of the proposal including term sheet of the lender	
D	Any Other Relevant Information	

INVITATION FOR SUBMISSION OF PROPOSALS

SUPPLY OF ELECTRICAL POWER FROM RENEWABLE ENERGY SOURCES ON BUILD OWN OPERATE BASIS (BOO) FOR 20 YEAR CONTRACT PERIOD

REFERENCE NO. : SMRE/DEV/02/55/2021

1. Introduction

Under the policy guidance of the Ministry of Power, the State Ministry of Solar, Wind and Hydro Power Generation Projects Development is mandated to develop the Renewable Energy sector of the Country, having its office at No. 437, Galle Road, Colombo 03, Sri Lanka.

2. Scope of the Proposal

2.1 The Sri Lanka Sustainable Energy Authority (SLSEA), and the Ceylon Electricity Board (CEB) jointly invites proposals from prospective Investors, to identify the technologies and the capacity to develop Renewable Energy Generation projects of 50 MW or above from Renewable sources such as Wind, Solar etc. in the country, preferably with the technology for storage to make the plant dispatchable, to enable the CEB to procure such electrical energy at least cost.

2.2 Such energy generation proposals shall include:

(a.) The location of the renewable energy resources, at which the project is to be implemented.

(b.) Details of the of the plant (wind turbine, Solar panels etc.), the type of technology for storage to make the plant dispatchable

(c.) Details of the construction of transmission line to evacuate generated electrical energy from the plant to the tapping point of the grid of the CEB.

In the event no grid facility is available at the required proximity to the project site, to enable such electrical energy to be absorbed to the grid, the prospective Investor will have to submit a plan to finance the grid facilities required in line with the specifications as provided by the CEB.

2.3 The following are the potential locations and the possible absorption capacities identified by SLSEA. The proposals may not be limited to the following Renewable energy Sources, locations and capacities:

Technology	Location	Capacity (MW)
Wind	Mannar	150
	Pooneryn	233
	Anuradhapura (Mahawilachchiya)	100
	Anuradhapura (Medawachchiya)	100

	Anuradhapura (Nuwaragampalatha)	50
	Vadamaradchy East	100
	Badulla (Haldummulla)	100
	Tissamaharama	75
	Monaragala (Wellawaya)	50
	Monaragala (Buttala)	50
Ground Mounted Solar PV	Siyambalanduwa	100
	Pooneryn	150
	Mannar (Madhu)	100
	Anuradhapura	100
	Jaffna (Maruthankery)	100
	Monaragala (Buttala)	100
	Batticaloa (Koralai P.W.Oddamavadi)	100
	Kalutara (Agalawatta)	50
	Mullathivu (Oddusudan, Pudukuduirippu)	50
	Monaragala (Sewanagala)	60
	Trincomalee (Town & Gravets)	100
Floating Solar Capacities	Victoria	200
	Randenigala	200
	Ulhitiya	200
	Moragahakanda	200
	Udawalawa	200
	Kalawewa	200
	Kotmale	65
	Kandalama	75
	Loggaloya	55
	Pimburatthawa	200
	Aralaganwila	100
Offshore wind	Mannar, Jaffna, Hambanthota	

In the event the prospective investor as part of the project, is required to bear the full cost of the construction of transmission infrastructure (Transmission line and grid facility) such costs incurred could be recovered from the CEB as an annuity within 10 year period.

2.4. Following basic information are be required to be provided as per the prescribed format given under section 4.2 subject to the limitations as noted in section 10. By the prospective investors under the “Technical”, “Commercial” and “Financial” proposals

- (a) the proposed capacity of the plant,
- (b) the proposed ‘technology, including for storage to make the plant dispatchable
- (c) ‘interconnection point’,
- (d) ‘indicative energy selling price’,
- (e) the ‘estimated cost of the transmission line’ proposed to be built for the evacuation of the electrical energy from the plant to the tapping point of the grid,

2.5 Prospective investors (Foreign / Local) are permitted to submit their proposals either in the form of a single party/joint venture/consortium. Each prospective investor is also permitted to submit any number of proposals. The proposals so received will be screened and shortlisted by the committee appointed by the Minister on the basis of the criteria given in the Proposal Submission Document (PSD). The respective shortlisted investors (herein after referred to as Project proponent) will be invited to submit their detailed technical, commercial and financial proposals for the relevant project structured by the committee for which prospective Investors have submitted proposals.

2.6 The project proponents are required to obtain Renewable energy permits under section 18 of SLSEA Act upon selection of such project proponents as the successful developers (herein after referred to as project developer) approved by the PUCSL under section 43(7) of the Sri Lanka Electricity Act.

2.7 Upon receipt of the approval of the PUCSL based on the recommendation of the CEB (Transmission License) successful project developers are required to obtain the generation License under Sri Lanka Electricity Act having fulfilled the requirement of Section 9(1)C of the SLE Act.

2.8 Upon fulfilling of the above, the successful Project Developers shall be required to sign a Power Purchase Agreement with CEB to commence the construction phases of the projects within the permitted time period given in the SLSEA Act.

3 The Responsibilities of the Project Developer

3.1 The successful ‘Project developers’ selected through RFP process shall be required to obtain and remain in compliance with all governmental and other approvals, licenses, permits, and certificates necessary for the construction and operation of the power plant; in general and shall be required to conduct Environmental Impact Assessment (EIA) or Initial Environmental Examination (IEE) as applicable in terms of the National Environmental (Amended) Act, No. 47 of 1980 and any amendments thereto, and such

other relevant Acts and provincial statutes in particular as a condition precedent for obtaining generation license from the PUCSL and for the signing of Power Purchase Agreements with the CEB .

3.2 The Successful project developer shall be responsible

(a) For the design, construction, commission, operation and maintenance of the power plant.

(b) The construction of the necessary transmission infrastructure as per the CEB specification and supervision, and transfer the ownership of the transmission infrastructure to CEB immediately before the commencement of the commercial operation of the plant.

(c) The supply of fuel oil, water, or any other energy resources required to operate and maintain of the facility, operation

(d) Operate and maintain of the liquid and solid waste disposal system, environmental protection measures

(e) Adoption of quick action for environmental impact mitigation measures, step up transformers; switchgear; control and protection systems; connection up to the interconnection point and all other appurtenant equipment etc.

(f) Clearing the site after termination of the operation period of the Power Plant is the responsibility of the developer

CEB will supply and install the standard metering equipment at the project developer's cost. The metering equipment are allowed to install only at the power plant premises by CEB.

4. Submission of the Proposal

The proposal shall comprise of two parts,

(1) One for the 'Technical Proposal' shall be required to put in one envelop

(11) Other for the commercial and financial proposals shall be required to put in another envelop. Both envelopes shall be submitted in one envelop together with the endorsement marked at the corner of the envelope 'Price Proposal' and shall be required to be submitted as follows;

i) The Original: one original each of the 'Technical Proposal' and 'Price Proposal' and financial proposals (each envelop clearly marked as 'Original'); and

ii) The Copy : one copy each of the 'Technical Proposal' 'commercial proposal and financial Proposal' (each envelop clearly marked as 'Copy');

4.1 Technical Proposal

The Technical Proposals shall include the following basic information.

4.1.1 Description of the proposal including the source of energy, Proposed location, technology for storage to make the plant dispatchable, schematic/layout diagrams

of plant, capacity to install and technical specifications, expected number of units dispatch a day, expected tariff etc.

- 4.1.2 Brief description on the Technical Feasibility and the Economic and financial viability of the proposed project;
- 4.1.3 Description of the company and its current business, experience in setting up of plants of similar nature in the past;
- 4.1.4 Creditworthiness / financial viability of the company (provide details of yearly turnover and profit for the last 3 years with supporting documents);
- 4.1.5 Proof of Finance- availability of equity, copy of the sanction letter for term loan and appraisal note from financial institutions (if already sanctioned), or a letter and term sheet and condition applicable for such loan facility from financial institutions stating their willingness to sanction a term loan for the project;
- 4.1.6 Action plan for project implementation, time schedule, etc.
- 4.1.7 Anticipated social and environmental impacts in the area

4.2 Please use the following format to submit required information.

A	General Information	
A1	The proposed Project/Power Plant	
A2	Project/Plant Location	
A3	Name & Designation of the Applicant	
A4	Mailing Address	
	Telephone, Fax and Email	
A5	Experience of the Institute in similar technology and capacity	
B	Details of the Proposed Power Generation	
B1	Targeted Installed Capacity of Plant (MW)	
B2	Guaranteed Energy output / day (MWh)	
B3	Resources & Technology including the technology for storage to make the plant dispatchable	
B4	Interconnection Point (If Known)	
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B7	Time taken to achieve full load after synchronization (if Known)	
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C	Indicative Breakup of the Project Cost	
C1	Cost of the proposed Plant	
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C7	Conditions of the loan agreed	

C8	Equity: Debt structure	
C9	Availability of Funding to meet debt financing of the proposal including term sheet of the lender	
D	Any Other Relevant Information	

Financial proposal

E1	Intended Selling Price (per kWh) in LKR	
E2	Transmission Infrastructure Cost (LKR)	
E3	Indicative Terms of repayment of cost of Transmission Facility	

5. Proposal Security

LKR 100,000 non-refundable Proposal Security should be submitted along with the project proposal. The original receipt has to be submitted along with the proposal after making the payment to Sri Lanka Sustainable Energy Authority. No. 72, Ananda Coomaraswamy Mw, Colombo 07, Sri Lanka. The account details are as follows.

Name : Director General, Sri Lanka Sustainable Energy Authority
Account No : 0074944408
Bank : Bank of Ceylon, Sri Lanka
Branch : Torrington Square

6. Closing Date and Time

The deadline for the submission of proposals is 01.11.2021 at 10:00 Hrs. Proposals received after this time shall not be accepted, regardless of the reasons for late submission, including circumstances outside the control of the project proponent.

7. The Place of Submission of Proposals

The proposal shall be delivered to the following address on or before the closing time specified in Section 6 above. The '**Reference No.**' and the '**Title of the RE Project Submission**' shall be clearly marked at the top-left hand corner of each envelope. Proposals can be sent via email info@energy.gov.lk, by registered post, courier or submitted in person to;

Secretary
State Ministry of Solar, Wind & Hydro Power Generation Projects Development
No. 437, Galle Road,
Colombo 03,
Sri Lanka.

8. Screening Criteria of the Proposal

8.1 The objective of this endeavor is to encourage the investors, identify the proposals so received from the investors as to the potential of the projects for development after assessing the location ,availability of lands, availability of grid capacity and accessibility to the grid and Renewable Energy resources (on the surface of the land or below the surface of the land) potential of such resources and the cost effectiveness of the proposed

technology, the capacity, and capability of the prospective investor to make investment to such Renewable Energy projects (such as Wind, Solar, Biomass etc.) which can transform into electrical energy.

8.2 Screening of the Proposals.

The technical proposals will be screened and short listed based on the following criteria.

- a. Due diligence of the prospective investor including the operational capability, Investors past experience in handling similar projects, financial strength of the Prospective Investor
- b. Feasibility and reliability of proposed technology (whether a proven technology)
- c. Financial and technical capability of the Prospective Investor to implement the project within the stipulated time period
- d. The time required taken for implementation of the project if shortlisted and selected through RFP process

9. Offering Shares to the Government of Sri Lanka

Successful Project developers shall be required to offer 01(One)share of its equity to the CEB to become eligible to obtain generation license from PUCSL under section 9(1)(c) of the Sri Lanka Electricity Act, upon being selected as the successful project developer, before signing PPA with CEB.

10. Limitations

Any Proposal to use renewable energy resources to generate electrical energy within the area of wildlife protection /or Declared Reserved Forest will be rejected.

Compliance with Grid Code: The interconnection arrangement and protection schemes proposed for the busbars, transformers, switchgears etc. including fire protection shall be complied with applicable Grid Codes.

Interconnection Voltage : 132kV AC

Right for claiming CO₂ Emission reduction of any Renewable Energy project is with the Government of Sri Lanka.

Any project or a site is/are not in compliance with the environmental protection regulation will be rejected at any time.

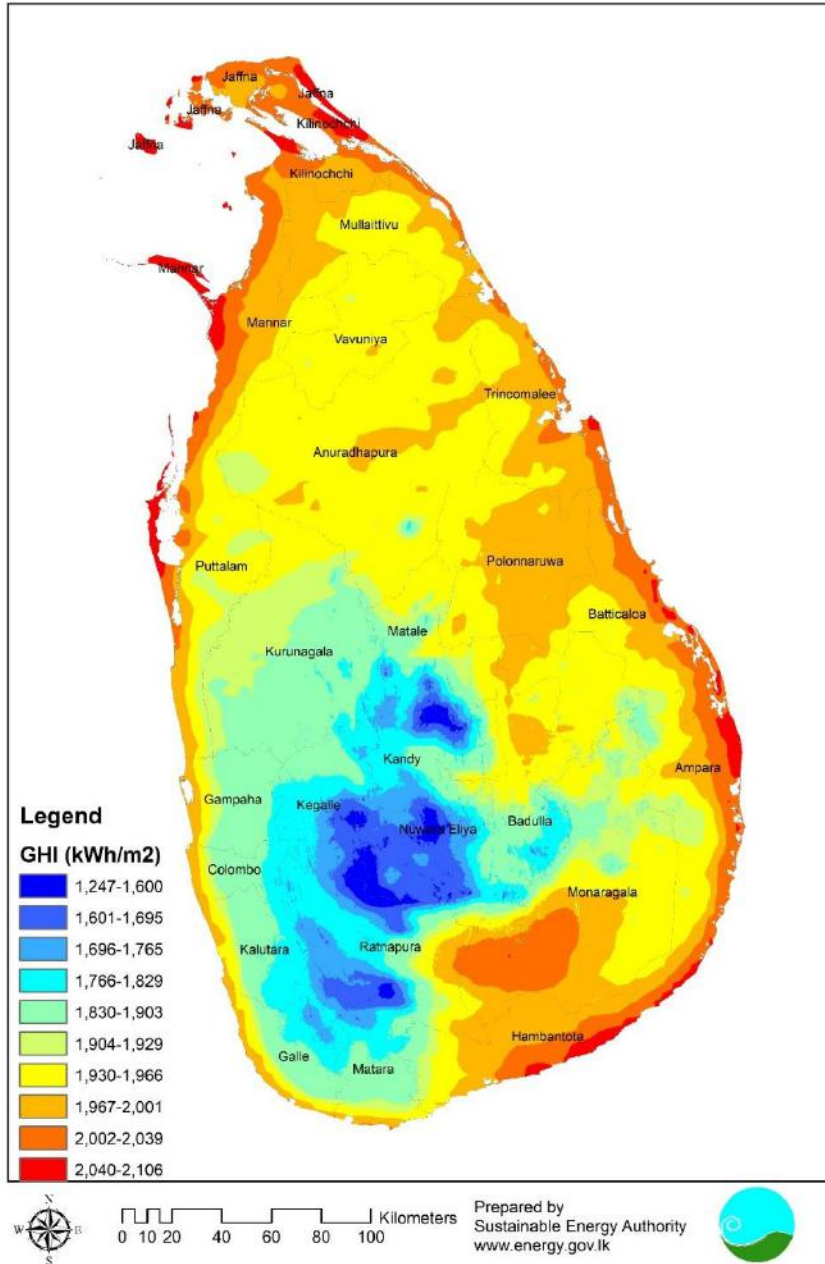
Secretary

State Ministry of Solar, Wind and Hydro Power Generation Projects Development

24.09.2021

Supporting information for preparation of Proposals to Generate and Supply Electrical Energy from Renewable Energy Resources on Build Own and Operate Basis (BOO)

Solar Resource Map (Annual Global Horizontal Irradiance)



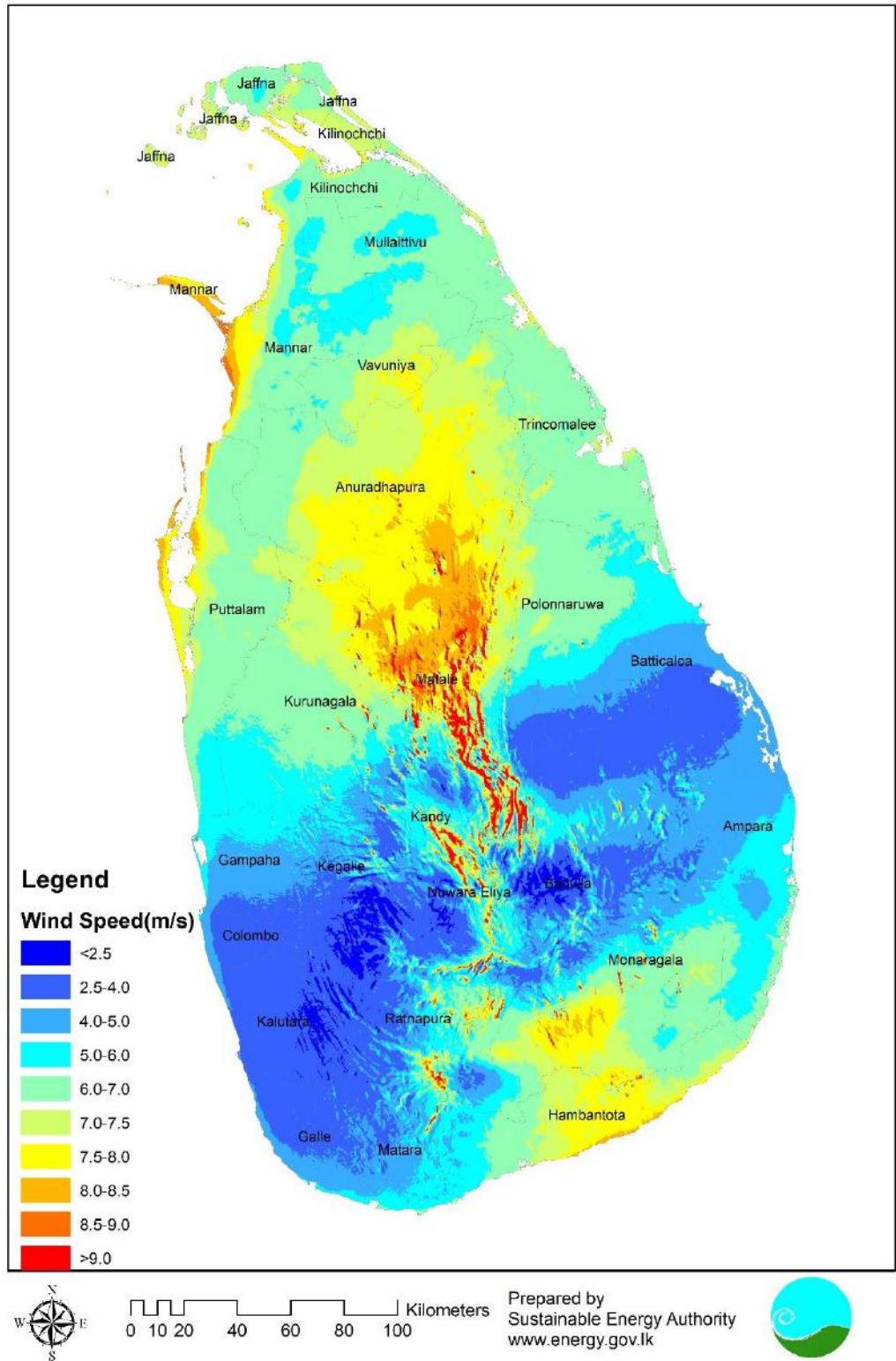
Reference: Solar Resource Atlas of Sri Lanka, 2014 published by Sri Lanka Sustainable Energy Authority (Printed version is available for purchasing)

Locations of the wind measuring mast network operated by Sri Lanka Sustainable Energy Authority

ID	Station_Name	Longitude	Latitude
1	Mullipurama	79.81166	8.05173
2	Sooriyakanda	80.62468	6.42947
3	Kalamatiya	80.92067	6.0885
4	Seethaeliya	80.80754	6.9458
5	Nadukuda	79.787833	9.051217
6	Silawatura	79.9547	8.7411
7	Balangoda	80.7765	6.7164
8	Jaffna	79.92214	9.74071
9	Kokilai	80.96513	8.98246
10	Pooneryn	80.09848	9.57508

The wind data recorded at above locations could be obtained from Sri Lanka Sustainable Energy Authority.

Wind Resource Map (Mean Wind Speed at 100m height)



Developed using the data obtained from Global Wind Resource Atlas (GWA 3.0), a web-based application developed by Technical University of Denmark and the World Bank Group (<https://globalwindatlas.info/area/Sri%20Lanka>)

Other useful sources available for obtaining information

- <https://globalsolaratlas.info/map>
- <https://globalwindatlas.info/>
- <https://gwec.net/wp-content/uploads/2021/09/GWEC-Global-Offshore-Wind-Report-2021.pdf>