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Indian Renewable Energy Development Agency Limited.

A Government of India Enterprise

ISO 9001:2015, 27001:2013 Certified

Wind Energy

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Financing Schemes

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Technology

The use of wind as a renewable energy involves the conversion of power contained in masses of moving air into rotating shaft power. The conversion process utilises aerodynamic forces (lift and/or drag) to produce a net positive turning moment on a shaft, resulting in the production of mechanical power which can be converted to electrical power.

The amount of wind power (P) harnessable at a particular site can be expressed as,

$P = \frac{1}{2} \rho A V^3 C_p$ Watts where

P	=	The density of air, kg/m ³ .
V	=	The wind speed in m/s.
A	=	Swept area of the blades through which the wind blows, in m ² .
C _p	=	Efficiency of conversion

The wind speed therefore plays a vital role for energy generation as there is a non- liner (cubic) relationship between wind speed and available power.

The energy content in wind at different region varies with latitude, land - sea disposition, altitude and season. In India the factor which mostly governs the availability of wind energy at a particular site is its geographical location with respect to the monsoon wind. The availability of data on wind speed being a basic requirement for determining the feasibility of wind power generation at any site and due to the highly uneven distribution of wind speed over the country, an assesment of the wind resource over different regions was undertaken before any plans of harnessing the wind energy were drawn for implementation.

The following fund and non-fund based schmes are available in Wind Sector :

- Long term Project Financing
- Short term loan assistance to RE Developers /Suppliers/ Contractors/ Energy Efficiency Projects
- Bridge loan assistance to RE Promoters/ Developers against Capital Subsidies/VGF
- Guarantee Assistance Scheme to RE Suppliers/ Manufacturers / EPC Contractors/Developers
- Direct Discounting of GBI Claims Payable to Renewable Energy Developers under MNRE Scheme
- Credit Enhancement Guarantee Scheme for raising Bonds towards Wind Projects
- Policy for Issue of Letter of Comfort/Letter of Undertaking for opening of Letter of Credit

- Policy for Financing of Transmission Projects
- Top-Up Loan Scheme
- Loan against Securitization of Future Cash Flow of Renewable Energy Projects
- Short Term Loan Facility to Govt. Bodies/ Discoms/ Transcos /State Owned Trading Companies
- Loan against Securitization of Future GBI receivables in case of Grid Connected Wind Projects
- Takeover of Term Loans from Banks/FIs and Unsecured Loans/Bridge Loans/Creditors Payables

For detailed information on various schemes, kindly click here to refer IREDA's Financing Norms (/images/HTMLfiles/FNSJune2021.pdf)

Incentives available in the Sector

For detailed information on various incentives and Interest Rate , kindly click here to refer IREDA's Financing Norms (/images/HTMLfiles/FNSJune2021.pdf)

Procurement Requirements

The borrower is required to follow the established market practices for procurement and shall demonstrate that the procurement procedures adopted by them are appropriate to the circumstances and that the quality goods, services and works are purchased at reasonable and competitive prices. The borrower shall provide all such information and documents reasonably required in connection with the procurement of any goods, services and works to be financed by IREDA. Wherever the loan is sanctioned against international lines of credit such as the World Bank, Asian Development Bank, kfW, etc., the relevant procedures will have to be followed and requisite documents will have to be submitted by the borrower.

List of officers Name in Sector- Wind,Offshore Sector :

Sl. No.	Name	Designation	Email Id	Mobile No.
1	Pradipta Kumar Roy	Chief Manager	pradiptakumar@ireda.in	8097223306
2	Abhik Deb Barma	Senior Manager	abhik@ireda.in	9650595663
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5	Poorva Mathur	Manager	sharmapoorva@ireda.in	9958435566
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7	Kaveri Malik	Manager	kaverimalik@ireda.in	9773700934
8	Lalit Kumar Singh	Manager	lalitkumar@ireda.in	9891554780
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10	Shashank Gupta	Deputy Manager	shashank@ireda.in	9984512549
11	Shreyansh Raj	Deputy Manager	shreyansh@ireda.in	7055318179

Sl. No.	Name	Designation	Email Id	Mobile No.
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15	Naman Rawat	Assistant Manager	naman@ireda.in	9958264969
16	Shaleen Bhola	Assistant Manager	shaleen@ireda.in	9891899079
17	Yogesh Hans Sharma	Assistant Manager	yogesh@ireda.in	9871715748

Sl. No.	Name	Designation	Email Id	Mobile No.
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(<https://www.digitalindia.gov.in/>) ([https://www.swachh Bharat Mission \(Urban\) - solar-pv](https://www.swachh Bharat Mission (Urban) - solar-pv))

(green-energy-certificate)

(<http://www.india.gov.in/>)

Important Links

[Ministry of New And Renewable Energy \(http://www.mnre.gov.in/\)](http://www.mnre.gov.in/)

[Ministry of Power \(http://www.powermin.nic.in/\)](http://www.powermin.nic.in/)

[Central Electricity Authority\(CEA\) \(http://www.cea.nic.in/\)](http://www.cea.nic.in/)

[Public Grievances \(http://pgportal.gov.in/\)](http://pgportal.gov.in/)

[MoE IT \(http://meity.gov.in/\)](http://meity.gov.in/)

[Solar Energy Corporation of India \(https://www.seci.co.in/\)](https://www.seci.co.in/)

[Intranet \(https://myireda.ireda.in\)](https://myireda.ireda.in)

[Webmail \(https://Outlook.office365.com/owa\)](https://Outlook.office365.com/owa)

[Ombudsman scheme \(images/whatsnewpage/OmbudsmanScheme.pdf\)](images/whatsnewpage/OmbudsmanScheme.pdf)

[Privacy Policy \(privacy-policy\)](#)

[Terms Of Use \(terms-of-use\)](#)

[WB LOC For Solar Park \(wb-loc-for-solar-park\)](#)

[Tender \(tender\)](#)

[Vigilance \(vigilance\)](#)

[Contract Awarded \(contract-awarded\)](#)

[Archive \(archive\)](#)

[Copyright \(copyright\)](#)

[Linking Policy](#) (linking-policy)

[Query / Feedback](#) (feedback)

[Help](#) (help)

[Procurement Profile](https://www.ireda.in/images/whatsnewpage/ProcurementProfile.pdf) (https://www.ireda.in/images/whatsnewpage/ProcurementProfile.pdf)

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