

POLICY FOR PROMOTING GENERATION OF ELECTRICITY THROUGH NON-CONVENTIONAL ENERGY SOURCES

(Issued vide Energy Deptt. letter no. F.20 (4) Energy/2004 dated 25.10.2004
and amended vide letters of even nos. dated 10.3.2005, 16.7.05, 18.8.05,
24.2.06 and 16.3.06)

1. Objectives:

- 1.1 Whereas with a view to promote generation of power from non-conventional energy sources, Government of Rajasthan promulgated a policy on 11.3.1999. This policy known as “Policy for Promoting Generation of Power through Non-Conventional Energy Sources” ended on 31st March, 2004. A separate policy was, however, issued on 4th February, 2000 exclusively for promoting generation of electricity from wind. This policy known as “Policy for Promotion of Electricity Generation from Wind” too ended on 31st March, 2004. During the currency of Wind Policy 2000 a new policy was promulgated in April 2003 for period up to 31st March, 2009.
- 1.2 And whereas, the new Central Electricity Act 2003 has come into effect from 10.6.2003.
- 1.3 And whereas, clause 4 of Policy 2003 provides for supersession of the same.
- 1.4 And whereas, among the non-conventional sources of energy, Solar, Wind, Mini-Small hydel and Bio-mass have good potential for generation of electricity in Rajasthan and after having gathered the experiences from the earlier policies and identifying the impediments in the process of generation of electricity from non-conventional sources, State Government has decided to issue a comprehensive policy for generation of electricity from various sources of non-conventional energy which offers solution to various problems faced by developers, investors and utilities, this policy is being promulgated.

2. Title and enforcement:

2.1 This policy will be known as **Policy for Promoting Generation of Electricity through Non-Conventional Energy Sources 2004.**

2.2 The policy will come into operation with effect from 25.10.2004 and will remain in force until superseded or modified by another policy.

2.3 The amendments made in the policy vide letter of Energy Department no. F.20(4)Energy/2004 dated 24-2-06 shall come into effect from the date they were introduced

3. Definitions:

3.1 Following expressions used in the policy would have meanings assigned to them as defined hereunder:

- (i) Act: means Electricity Act 2003 (Central Act No. 36 of 2003) .
- (ii) "Biomass" means forestry based & agro-based industrial residues, energy plantations, forestry and agro- residues.
- (iii) "COD" means 'Commercial Operation Date'.
- (iv) "Collector" means Collector of a district as defined in the Rajasthan Land Revenue Act and includes every officer authorised to discharge the duties of Collector under the Act / Rules / executive orders of the Government of Rajasthan.
- (v) "Developer" means a person which develops Wind Farms and transfers it to investors.
- (vi) "DLC" means 'District Level Committee' to fix the price of land for purposes of registration.
- (vii) Discom: means a distribution licensee, such as Discom Jaipur, Discom Jodhpur and Discom Ajmer.
- (viii) Financial year means year starting on 1st April of Calendar year and ending on 31st March of next calendar year.
- (ix) Investor: - A person investing for generation of electricity from non-conventional sources of energy.

- (x) "Independent Power Producer" (IPP) : A single investor who also develops the wind farm
- (xi) "IREDA" means Indian Renewable Energy Development Agency.
- (xii) Licensee: means a person who has been granted license under Section 14 of the Act.
- (xiii) "Manufacturer" means manufacturer of Non-conventional Energy based power plant.
- (xiv) "MNES" means Ministry of Non-conventional Energy Sources, a Central Government Ministry promoting the use of Non-conventional Energy Sources in India.
- (xv) Person: Person means an individual or a firm/company registered under the Companies Act, 1956.
- (xvi) "Power Producer" means investors/ developers generating grid-grade electricity from Non-conventional Energy Sources.
- (xvii) "Pooling Station" means sub-station developed by the developer for interface with the receiving station.
- (xviii) "Power" means electricity produced using the non-conventional sources of energy.
- (xix) "Policy-1999" means Policy for Promoting Generation of Power through Non-Conventional Energy Sources issued on 11th March, 1999.
- (xx) "Policy-2000" means Policy for Promoting Generation of Power from Wind issued on 4th February, 2000.
- (xxi) "Policy-2003" means Policy for Promotion of Electricity Generation from Wind issued on 30th April, 2003.
- (xxii) "PLF" means Plant Load Factor
- (xxiii) "PPA" means Power Purchase Agreement
- (xxiv) "Receiving Station" means EHV Sub-Station developed by RVPNL/Discom for evacuation of power generated from Non-conventional Energy Sources.
- (xxv) "RERC" means 'Rajasthan Electricity Regulatory Commission'.

- (xxvi) "RREC" means Rajasthan Renewable Energy Corporation.
- (xxvii) "RIICO" means Rajasthan Industrial & Investment Corporation.
- (xxviii) "RVPN" means the Rajasthan Vidyut Prasaran Nigam.
- (xxix) Solar Plant: means a power plant or system utilizing solar thermal energy through solar photo-voltiac or concentrated solar thermal devices including its integration into conventional fossil fuel for generation of electricity.
- (xxx) "State" and "Government" means, respectively, the State of Rajasthan and the Government of Rajasthan.
- (xxxi) "WBA" means Wheeling and Banking Agreement.

3.2 The terms not defined above will have their usual meaning.

4. Use of power for captive purposes/sale:

- 4.1 The power producers may use the power for captive consumption or for sale to consumers/licensees including Discoms.
- 4.2 There shall be no cap on Discoms for purchase of energy from bio-mass and solar power plants set up in the State in accordance with this policy.
- 4.3 The Discoms will enter into PPAs up to 550 MW for wind energy power plants set up in the Jaisalmer-Barmer-Jodhpur region, in a phased manner up to March 2007 and up to 250 MW for other districts (i.e. those not utilizing the EHV network of Jaisalmer-Barmer-Jodhpur and Jaisalmer-Phalodi-Jodhpur) up to March 2007.

Provided that the cap of 550 MW shall include 100 MW for plants set up in Phalodi region on the condition that such plants deliver power at 400 KV GSS of RVPN at Jodhpur.

Provided further that the caps specified above shall include all wind energy power plants set up earlier under different policies and also captive power plants as well as plants set up for third party sale and connected to the grid.

5. Grid Interfacing:

- 5.1 Except in case of solar power not exceeding 220 KW the grid interfacing arrangements for power using non-conventional sources of energy will be made by Developer/ RVPN/ Discom as under:

5.1.1 Pooling Station:

Interfacing arrangements such as transformers, panels, kiosks, protection, metering, HT lines from the points of generation to the pooling station including the pooling station shall be developed and maintained by the Power Producer as per the specifications and requirements of the RVPN/ Discom, and the entire cost for this will be borne by the power producer.

5.1.2 Receiving Station

RVPN/Discom shall finalise the location of receiving station in consultation with RREC on which the electricity generated will be received at minimum 33 KV level. For creation of proper facility for receiving power, the power producer shall pay Rs. 2 lac per MW to RVPN/ Discom as the case may be.

5.1.3 Transmission from Pooling Station to Receiving Station:

The transmission system from pooling station to receiving station shall be developed by the power producer at his own cost. This will, however, be deemed to have been transferred to RVPN / Discom for O&M as soon as interconnection between pooling station and receiving station is established.

5.1.4 Transmission and Distribution Network Augmentation:

For augmentation of transmission/ distribution systems to evacuate the power from receiving station, RVPN / Discom shall develop/augment the necessary transmission/ distribution network within mutually agreed timeframe. For this the power producer shall pay to RVPN / Discom, as the case may be, as follows:

- Rs. 15.00 lac / MW for wind energy power plants.
- Rs. 5.00 lac / MW for biomass power projects as well as for wind energy power projects up to 20 MW capacity situated outside Jaisalmer-Barmer-Jodhpur region and not utilizing the EHV network of Jaisalmer-Barmer-Jodhpur and Jaisalmer-Phalodi-Jodhpur.

Provided that no augmentation charges shall be levied on solar power plants and also in case power producer creates own evacuation system up to 400 KV system of RVPN.

5.1.4 A The Power Producer shall deposit the augmentation charges within 30 days of approval of the project by the SLEC in the case of Bio-mass projects and capacity allocation for wind energy projects by RREC, as the case may be.

Provided that in case of delay in deposit of the evacuation charges within the period specified above, interest @ 15% per annum shall also be payable for the period of delay.”

5.2 RVPN/ DISCOM shall grant the inter-connection facility, wherever adequate power evacuation capacity is available, within one month of intimation or COD, whichever is later.

5.3 The power producer shall install metering device at the receiving station at his own cost. Such metering device must conform to standards of metering code.

- 5.4 The power producer shall install necessary current limiting devices such as Thyristors in the generating equipment. Capacitors of sufficient rating shall also be provided in the Wind Farm to ensure that the average power factor is maintained as per requirements of State Load Despatch Centre, measured at metering point of the Wind Farm.
- 5.5 The power Producer shall comply with Grid Code including Load Despatch and System Operation Code, Metering Code, Protection Code, Safety Code etc. as applicable from time to time in the State of Rajasthan.

6. Wheeling and Banking:

- 6.1 Except in case of power sold to Discoms, the power producer shall pay wheeling charges @ 10% of the energy billed into the grid irrespective of the distance from the generating station and such charges will be inclusive of the T&D losses.
- 6.2 The power producer may have the facility of power banking with the Discom. The Discoms at the end of 31st December of every calendar year, will pay to the power producer for the energy billed into the grid but has remained unutilised (after self use or sale to consumers / licensees other than Discoms) by the power producer during the said calendar year at the pooled rate for procurement of power by the Discom in the preceding financial year.

Provided that, if at the end of the calendar year it is found that the power producers has drawn more electricity than that billed by him into the system, he shall be liable to pay the cost of the same at the HT tariff prevailing at the end of the proceeding financial year.

- 6.3 The power producer shall execute an agreement (Wheeling and Banking Agreement) with the Discom for such banking. However, the wheeling

agreement with RVPN will be executed separately if the power producer intends to use the system of RVPN for wheeling power.

- 6.4 WBAs may be allowed to be assigned, in parts, on one-time basis in each case, to other parties after completion of the project and its connectivity to the grid, with the consent of RREC & RPNV / Discom(s) on payment of Rs. 1.00 lac per application to RREC.

7. Price of Power:

- 7.1 The price of power to be sold by the eligible power producer to consumers/ licensees other than Discoms will be determined by the mutual understanding/agreement between the seller and the purchaser.
- 7.2 For the Discoms the price of such power will be as per the Schedule 1 A / 1 B appended, as the case may be, up to such time that the tariff for non-conventional energy sources is determined by the Rajasthan Electricity Regulatory Commission (RERC), where after it shall be in accordance with the tariff so determined by the Commission.

Provided that in such case where the PPAs have not already been signed, and up to the date when the tariff is determined by the Commission, the Power Producer shall have the option to either sign the PPA as per Schedule 1 A / 1 B for the duration of the PPA, as the case may be, OR as per Schedule 1 A / 1 B, but with the condition that the tariff shall be subject to modification in accordance with the tariff determined by the Commission, as and when it is so declared, and, in such case, the PPAs signed on the basis of Schedule 1 A / 1 B shall be suitably modified to reflect the new tariff with effect from the date of such tariff determination by the Commission.”

8. Power Purchase Agreement:

8.1 The sale of electricity by power producer to Discoms will be governed by the Power Purchase Agreement executed between the concerning Discom and the power producer and witnessed by RREC.

8.2 The Power Purchase Agreement for wind power will be for 20 years and for power other than wind power will be for 10 years.

Provided that at the end of the period of Power Purchase Agreement the new PPA can be executed at mutually agreed rates

8.3 PPAs may be allowed to be assigned, in parts, on one-time basis in each case, to other parties after completion of the project and its connectivity to the grid, with the consent of RREC & RPNV / Discom(s) on payment of Rs. 1.00 lac per application to RREC

9. Settlement of Accounts:

The account of all transactions between the power producer and the Discoms/ RPNV regarding price of power and wheeling charges shall be settled on monthly basis except in case of price of power under banking arrangements which will be settled within one month of the closing of every calendar year.

10. Merit order Dispatch :

The power plants commissioned under the policy would not be subject to Merit order dispatch regulations.

11. Incentive by the State Government:

11.1 Exemption from Electricity Duty: - Consumption of electricity generated by Eligible Power Producers for its captive use or for

sale to a nominated third party will be exempted from Electricity Duty @ 50% for a period of 7 years from COD.

11.2 Grant of incentives available to industries: - Generation of electricity from Non-conventional Energy Sources shall be treated as eligible industry under the schemes administered by Industries Department and incentives available to industrial units under such schemes shall also be available to the power producers.

11.3 Single Window Clearance: A State Level Empowered Committee consisting of following will provide single window clearance on proposals received for developing the power plants based on Non-Conventional Energy Sources:

- | | | |
|----|---|------------------|
| 1. | Addl. Chief Secretary (Infrastructure) | Chairman |
| 2. | Principal Secretary, Revenue, | Member |
| 3. | Secretary, Energy | Member |
| 4. | CMD, Rajasthan Vidyut Prasaran Nigam | Member |
| 5. | CMD, Rajasthan Renewable Energy Corporation Limited | Member Secretary |

The Collector/Collectors in whose jurisdiction the land is proposed for allotment shall be special invitee.

11.4 Allotment of land on concessional rates: The Government land required for power projects based on non-conventional sources of energy shall be allotted to power producer at concessional rates viz, 10% of DLC rates as per procedure prescribed below.

Provided that -

- (a) The site for wind power project will be chosen by the developer after ascertaining the wind parameters.

- (b) The land other than the Government land will be procured by the power producer/ developer at his own cost.
- (c) While land may be allotted to the Developer / Power Producer for the project, signing of lease agreement by the Collector shall only be after deposit of the Security Money in RREC for at least 10% of the project capacity for which the land was allotted.

12. RREC to be Nodal Agency: -

RREC will be Nodal Agency for power projects based on non-conventional sources of energy. It will also play the role of facilitator for:

- (i) Execution of PPA/WBA with RVPN/Discoms
- (ii) Loans from IREDA/PFC/REC/Financial Institutions/ Commercial Banks.

13. Registration for Power Project: -

13.1 The power producer shall register the application with RREC in prescribed proforma appended with the policy along with the required project report, documents, attachments and the interfacing scheme etc.

13.2 Along with his application, the power producer shall deposit an amount of Rs. 50,000/- per MW with RREC towards processing fee, which shall be non-refundable.

Provided that in such cases where the applicants had already submitted an application for a project under Wind Policy 2003, along with processing fees, and had re-apply for the same project under the new NCES Policy 2004, the processing fees paid earlier for the same project may be adjusted in the total processing fees due under the NCES Policy 2004.

- 13.3 The power producer shall select the site for establishing the power project and shall also submit the application to RREC for allotment of Government land if any.
- 13.4 Every application would be given a registration number by RREC. The list of registered applications shall be displayed on the notice board of RREC.
- 13.5 In exceptional circumstances, where the wind pattern changes adversely for any particular location, RREC may permit re-location of a project to an alternative site once during the life of the project, so long as the investor remains the same. For such change, no additional charges shall be levied other than for the land so allotted. Provided that in case such relocation entails additional investment for evacuating the power on the part of RVPN / Discom, the connectivity charges shall be levied as per actuals.

14. Approval of Power Projects:

- 14.1 RREC shall forward land allotment application for the identified govt. land to the concerned District Collector within a period of 7 days from the receipt of the application.
- Provided that the land application in case of wind farm can be forwarded only if the same is for site for which wind parameters are certified by C-WET.
- 14.2 RREC shall forward the grid interfacing plan submitted by the applicant to RVPN/Discom for technical acceptance.
- 14.3 RREC shall issue in principal clearance for the project on verification of following:

14.3.1 The plan/layout of the project is strictly in accordance with standard guidelines of MNES/C-WET.

14.3.2 The suggested grid interfacing arrangement as submitted by the applicant is accepted and approved by RVPN/Discom.

14.4 The project proposal “in principle cleared” by RREC and meeting the above requirements shall be put up before the State Level Empowered Committee.

14.5 The decision for single window clearance (approval of project) will be taken by the SLEC within one month.

14.6 In the case of wind energy projects, in view of the cap on PPA, capacity allocation shall be made by RREC after project approval by SLEC subject to the following conditions:

First-time developers, or those with installed capacity of less than 10 MW in the State would be allotted a cap of 10 MW maximum at one time. Others would be allotted up to a maximum of 25 MW at one time. Subsequent capacity would be allocated in accordance with the capacity commissioned, subject to the overall limit with one developer at one point of time, as defined above.

Provided that an Independent Power Producer setting up a large wind energy generation farm shall be exempted from the above capacity limitation, subject to the overall cap on PPA as determined for the area

14.7 The power producer would initiate activities on the identified / allotted land only after approval is granted by the State Level Empowered Committee.

Provided that if any power producer initiates activities on the identified or the allotted land without project approval, subject to regularization of land by the competent authority, grid connectivity

would be allowed to such project only after payment of an amount @ Rs. 5.00 lac per MW as penalty amount by power producer to RREC.

Provided further that if this provision is violated second time by the power producer, no grid connectivity would be permitted to such project.”

15. Security Deposit and its forfeiture:

15.1 The Developer/ Power Producer shall deposit a refundable amount as security deposit with RREC, towards completion of the project in the prescribed time frame, within 30 days of the approval of the project by the SLEC in the case of solar power projects, capacity allocation by RREC in the case of wind energy projects and as per Clause 16.1 A in the case of biomass power projects.

15.2 The Security Deposit for different categories of projects based on non-conventional energy sources shall be as follows:

For Wind energy projects:

- (a) In Jaisalmer district : Rs.10 lac per MW
- (b) In other districts : Rs.5.0 lac per MW

For Biomass and Solar energy projects: Rs.1.0 lac per MW

Provided that in the case of wind farms if the security amount is not deposited within the time specified, the approval of the SLEC shall stand withdrawn and priority would be accorded to the next applicant. For re-submission of the case to SLEC for project approval, the applicant will have to re-register the case, along with the processing fee, within the next 30 days, failing which the land allotted shall also stand cancelled.

15.3: The timeframe for completion of projects shall be as follows:

Project Capacity	Completion Schedule
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For Wind Energy Projects (from date of allocation of capacity by RREC)-

Up to 25 MW	6 Months
26 – 50 MW (IPP)	12 Months
51 – 75 MW (IPP)	16 Months
76 – 100 MW (IPP)	20 Months
101 MW & above (IPP)	24 Months

For Bio-Mass Projects (from date of project approval by SLEC)-20 to 28 months

Provided that RREC may extend the time schedule and provide new schedule if:

- a) The Power Producer makes an application giving convincing reasons for delay in the completion of the project at least 15 days before the expiry of the prescribed period and the application is accompanied with the amount prescribed below:

Time period	Amount payable for extension
One-month extension after the date of scheduled commissioning	Rs.50000 / MW
Two-month extension after the date of scheduled commissioning	Rs.100000 / MW
Three-month extension after the date of scheduled commissioning	Rs.200000 / MW
More than Three month extension after the date of scheduled commissioning	Rs.500000 / MW

- b) The reasons given by the Power Producer in the application are found convincing.

15.4: The security deposit shall stand forfeited by RREC in the event of failure of the Power Producer to adhere to the prescribed time schedule.

15.5: The allotment of land shall also stand cancelled if the power project is not completed within the time frame specified in Clause 15.3 of the policy and the Power Producer shall not be considered for allotment of land thereafter.

16. Special Concessions/ conditions for Biomass Projects.

16.1 Reservation of Area for biomass collection:

If the State Government is satisfied with the progress achieved in the setting up of a Biomass based power plant of aggregate capacity of 7.5 MW at a duly approved site, no other biomass power plant shall be allowed within a radial distance of 40 KM.

Provided that:

- (a) The State Government shall have the right to review the biomass availability and reduce the reservation area to not less than 30 Kms radius, if it is satisfied that such reduction in area reservation would not adversely affect the sustainability of existing plants. However, such review shall be held not before 2011.
- (b) Projects cleared under policy dated 11.3.99 and complying with conditions laid down vide amendment dated 28.2.03 shall continue to enjoy 50 Km. reservation facility.
- (c) Small capacity biomass based gasifiers being set-up under any programme of the State Govt. / GOI, through RREC or otherwise, would be allowed to be set-up within the reserved area so defined as above.
- (d) If Eligible Power Producer desires to install lower/higher capacity plant or wants to enhance the capacity of the power plant above 7.5 MW,

the reservation area could be reduced/ extended by RREC to meet proportionate biomass requirement for the plant.”

16.1A In view of the area reserved for biomass power plants post-registration, the timeframe for completion of different activities would be as follows:

- Deposit of Security amount (Rs. 1 lac / MW) – within 1 month of registration.
- Finalization of land and power evacuation plan – within 4 months from date of registration.
- For non-compliance of above conditions, the registration shall stand cancelled and the security deposit, if deposited, shall be refunded.

Provided that extension in time-limit may be granted on submission of application to RREC, along with convincing reasons, 15 days prior to expiry of the time-limit, along with penalty amount as follows:

- For extension up to 1 month - @ Rs. 0.50 lac / MW
- For extension up to 2 months - @ Rs. 1.00 lac / MW
- No further extension beyond this limit.

16.2 Use of Conventional Fuel :

To ensure generation of power in the event of reduced biomass availability in the district, a power producer could be permitted to use conventional fuel up to 30%, computed on the basis of declared heat rate linked to P.L.F, in the case of biomass based power plant of the aggregate capacity of 15 MW and above at a particular location and up to 25%, on similar basis, for those below that capacity.

16.3 Availability of Water for Power Generation :

The Eligible Power Producers shall be allowed to use water for power generation, wherever possible. The modifications(s) required, if any, in the existing canal system shall be done by the Irrigation Department at the cost of the producer. For use of ground water, specific approval from concerned authorities shall have to be taken.

17. Savings:

17.1 Power projects established under the Policy -1999, Policy -2000 and Policy - 2003 will continue to be governed as per the terms & conditions already agreed and approved under the concerned policies. However, renewal of terms & conditions, if any, will be guided by this policy or any other policy prevalent at that time.

17.2 The power projects for which PPAs have been signed before the promulgation of this policy will also be treated under the terms & conditions of the policy under which approval was accorded to the same provided the power projects gets commissioned before 31st March 2005.

Provided that for power projects based on biomass the period of commission will be up to 30th September, 2006.

17.3 The wind power project proposals for which RREC has accorded approval, land has been allotted, settings have been approved by RREC before promulgation of this policy and substantial investment (50% of the proposed capital investment) has already been made by power producer will be governed by the Policy-2003.

(Clarification – The limit of 250 MW on PPAs to be signed by Discoms under Policy-2003 shall be observed by the Committee while considering such cases)

Provided that a committee constituted hereunder will determine whether the substantive investment has been made:

- | | | |
|------|---------------------------------|----------------|
| i) | Principal Secretary, Energy | - Chairman |
| ii) | Secretary, Finance, Expenditure | - Member |
| iii) | Managing Director, RREC | - Member Secy. |

Provided further that the committee mentioned above, shall consider only those cases where the developer/investor has submitted application within 10 days of the notification of this policy.

Schedule: 1 A

Tariff Schedule for Non-Conventional Energy Sources (Clause no.7.2)

S.No.	Financial Year of COD	Wind * Rs. Per KWh	Other than wind including Biomass Rs. Per KWh
1	2004-05	2.91	3.32
2	2005-06	2.96	3.39
3	2006-07	3.01	3.45
4	2007-08	3.06	3.52
5	2008-09	3.11	3.59
6	2009-10	3.16	3.65
7	2010-11	3.21	3.72
8	2011-12	3.26	3.78
9	2012-13	3.31	3.85
10	2013-14	3.36	3.92
11	2014-15	3.36	3.92
12	2015-16	3.36	3.92
13	2016-17	3.36	3.92
14	2017-18	3.36	3.92
15	2018-19	3.36	3.92
16	2019-20	3.36	3.92
17	2020-21	3.36	3.92
18	2021-22	3.36	3.92
19	2022-23	3.36	3.92
20	2023-24	3.36	3.92

* For Wind energy Projects Commissioned under Policy 2004 up to 23rd February 2006

Schedule: 1 B

Tariff Schedule for Wind Energy (Clause no.7.2)

(For Projects Commissioned after February 23th 2006)

S. No.	Financial Year of COD	Rs. / KWh
1.	2005-06	3.25
2.	2006-07	3.31
3.	2007-08	3.37
4.	2008-09	3.43
5.	2009-10	3.49
6.	2010-11	3.55
7.	2011-12	3.61
8.	2012-13	3.67
9.	2013-14	3.73
10.	2014-15	3.79
11.	2015-16	3.79
12.	2016-17	3.79
13.	2017-18	3.79
14.	2018-19	3.79
15.	2019-20	3.79
16.	2020-21	3.79
17.	2021-22	3.79
18.	2022-23	3.79
19.	2023-24	3.79
20.	2024-25	3.79
21.	2025-26	3.79

**Government of Rajasthan
Energy Department**

No.F.20(4)Energy/2004

Dated: 26th October, 2004

Managing Director,
RREC
Jaipur.

Sub: Policy for Promoting Generation of Electricity through Non-
Conventional Energy Sources.

Ref: This office letter No.F.20(4)Energy/2005 dt.25.10.2005

Sir,

In continuation with the letter under reference on the subject mentioned above the undersigned is directed to convey that:

- 1) All the pending applications, where the land has not been allotted so far, must be returned to the applicant with the direction to file new applications in accordance with the provisions laid down in the new policy.
- 2) The new wind power proposals should be encouraged in such a manner that the wind power potential in the various parts of the State is effectively utilized and the State utilities are saved from the burden of huge investment on developing the evacuation system without the same being put to full utilization.

Yours sincerely,

-sd-

(G.R. Sharma)
Dy. Secretary, Energy

**Government of Rajasthan
Energy Department**

No.F.20(4)Energy/2004

Dated: December 24, 2004

Chairman & Managing Director,
Rajasthan Renewable Energy Corporation Ltd.,
Jaipur.

Sub: Policy for Promoting Generation of Electricity through Non-
Conventional Energy Sources.

Sir,

In supersession of this depts. letter of even no dated 26th October, 2004 for item No.(i), I am directed to convey that:

“In cases where PPAs were signed prior to promulgation of Non-Conventional Energy Policy 2004 but land allotment was not made, change of site/place for implementing the project would be allowed and such applications would not be returned to the applicant for re-submission under Non-Conventional Energy Policy 2004. Such cases would be considered on priority basis under the terms and conditions of the policy under which the said PPA was signed. In such cases power projects shall have to be commissioned before 31st March, 2005.”

Yours sincerely,

-sd-

(Dr. R.P. Sharma)
Dy. Secretary, Energy

**Government of Rajasthan
Energy Department**

**No licence required for generation and distribution
of electricity in rural areas**

No.F.15 (4) Energy/2003

Jaipur, Dated: 14th February, 2006

Notification

In exercise of the power conferred by 8th proviso to section 14 of the Electricity Act, 2003 (Central Act of 36 of 2003), Government of Rajasthan hereby notifies that all Panchayat areas, except Industrial areas developed by the State Government or State Agency or Private Agency, shall be rural areas for the purposes of the said action.

By order of the Governor,

-sd-

(Yaduvendra Mathur)
Secretary to Govt.



RAJASTHAN RENEWABLE ENERGY CORPORATION LIMITED

(Government of Rajasthan Undertaking)

E-166, Yudhisthir Marg, C-Scheme, Jaipur

Tel: 2225859 / 2229341 / 2221650 / 2229055 Fax: 0141-2226028

Website: www.rrecl.com

APPLICATION FORM FOR SUBMITTING PROPOSALS UNDER THE “POLICY FOR PROMOTING GENERATION OF ELECTRICITY THROUGH NON-CONVENTIONAL ENERGY SOURCES – 2004”

(Issued vide Energy Deptt. letter no. F.20 (4) Energy/2004 dated 25.10.2004 and amended vide letters of even nos. dated 10.3.2005, 16.7.05, 18.8.05, 24.2.06 and 16.3.06)

I. COMPANY DETAILS

1. Name of the applicant / organization :
2. State whether the applicant / organization is a
 - a) Company registered under Indian Companies Act 1956; :
 - b) Co-operative Society; :
 - c) Any other corporate entity. :
3. **Address:**
 - i) **Office** :
 - a) Telephone No. :
 - b) Fax No. :
 - c) Email Address :
 - ii) **Name and Address of the authorised person**
 - a) Name :
 - b) Address :
 - c) Telephone No. :
 - d) Fax No. :
4. In case of any other corporate entity, give details of partners / directors/ owners :
5. Whether income tax assessee, if yes, please state the year up to which assessment made (copies of assessment for last three years to be enclosed) :
6. If answer to 5 is No, state whether the promoter is an assessee. :

7. Income tax permanent A/c. No. :
8. Present activity / business carried on by the applicant/ organisation. :
9. Give details of the turn over of the organization in last three years (copies of the profit and loss account and Balance Sheet / Annual Report to be enclosed). :
10. Do you propose to set up the plant in the name of existing company or propose some sister concern. :

II. PROPOSED POWER PROJECT

1. a) Proposed Gross Capacity (MW). :
b) Auxiliary Consumption (MW) :
c) Net Capacity (MW) :
d) Plant Load Factor (PLF) % :
e) Net expected power generation per annum : lacs kWh
2. a) Location of proposed site with details. :
b) Land details of the power plant site :
i) Name of village :
ii) Khasra Nos. :
iii) Area of land from each Khasra No. :
iv) Land map with clear markings of land required for the project. :
v) Is it Govt. land or Pvt. land :
3. Nearest Railway Station :
4. Name of the manufacturer with address for supply, installation and commissioning of the power generation system, if identified. :
5. Financing Arrangement: :
a) Own funds (promoters) :
b) IREDA/ PFC/REC/ Financial Institution / Commercial Banks :
c) Equity :
d) Others :
6. Time frame and pert chart for major activities. :
i) Acquisition of land :
ii) Signing of PPA :
iii) Expected financial closure :
iv) Date of commissioning / synchronization :
v) Proposed Commercial Operation Date (COD) :
7. Power Plant proposed to be set up for :
a) Captive use :

- b) Sale to RVPN/DISCOM on approved rate :
- c) Third party sale at mutually agreeable rates on payment of approved wheeling charges to RVPN. :

8. Please tick the Non Conventional Source of Energy on which the project is proposed to be based:

- a) Biomass :
- b) MSW/Industrial waste :
- c) SPV / SPV - Wind Hybrid :
- d) Wind :
- e) Mini-Small Hydel :
- f) Biogas :

III DETAILS OF PROPOSED POWER PROJECTS

a) For Biomass based Power Plants:

- i) Biomass proposed to be used (i.e. Rice husk, mustard stalk, wood chips, saw dust, coconut shell, groundnut husk, wood waste fire wood industrial waste of paper mills plywood industry etc. : Name and type of Biomass
1)
- ii) Name of Technology :
(Pyrolysis, Gasification, Incineration/ Palletisation/ Briquetting, through gas/ Steam turbine, duel fuel engine/gas engine route or combination thereof / Bagasse / Biomass Cogeneration)
- iii) Required quantity of Biomass : MT per year
- iv) Available quantity of Biomass : MT per year
 - a) From own sources : MT per year
 - b) From other sources : MT per year
- v) Calorific value of proposed biomass to be used : kcal/kg
- vi) Cost of biomass to be used : Rs. per tone
- vii) Is the biomass available for 10 years : Yes/No.....

b) MSW/Industrial Waste Plants:

- i) Type of waste selected : MSW/Liquid waste/mix of waste
- ii) Name of Technology :
- iii) Required quantity of MSW /Industrial waste : MT per year
- iv) Quantity of wastes available :
 - a) From own sources : MT per year
 - b) From other sources : MT per year
- v) Characteristics of waste :
(in separate statement)
- vi) Cost of MSW / Industrial waste : Rs./Tonne
- vii) Whether waste is available for 10 years. : Yes/No

c) Solar Photovoltaic Power Plant (SPV)/

SPV- Wind Hybrid

- i) No. of Solar Modules proposed :
- ii) Capacity of PCU :
- iii) Battery bank proposed : Yes/ No

- iv) If yes, its capacity :
- v) Duration and time of day during which supply of power is proposed :

d) Wind Farms :

- i) Total capacity of the proposed Wind Farm, along with Micro siting plan as per C-WET guidelines. Type test approval and Power Curve of WEG proposed should also be enclosed. :
- ii) No. of Wind Energy Generators (with capacities) proposed to be installed along with individual capacity of generators (Technical Parameters of WEG should be indicated). :
- iii) Location at which Wind Farm is proposed along with category of Land i.e. Revenue/ Forest, Khasra wise area and Jama bandi map (only out of eight potential locations authenticated by C-WET). :
- iv) Wind assessment, Feasibility report, DPR of proposed site is enclosed. (Applications not accompanied with Feasibility report will not be entertained). Feasibility report should include Site details, Wind assessment data, Basis/Source of Wind Data, Estimated generation on the basis of Power Curve of WEG proposed and cash flow analysis including profitability statement, assumptions made etc. :
- v) Please furnish the details of previous experience in the field of wind power generation and or manufacturing of WEGs, or experience in generation of grid quality power. :

e) Hydel Power Plant:

- i) Capacity of proposed Mini/Micro/Small & Estimated annual generation :
- ii) Design head & discharge :
- iii) No. of turbines & their capacity :
- iv) Type of turbine :
- v) Generation voltage :
- vi) Location of proposed plant:
 - a) Dam/Canal/River :
 - b) Village :
 - c) District :
- vii) Whether feasibility report of proposed site is enclosed (without feasibility report application will not be entertained). Format is enclosed :

f) Biogas Plants:

- i) Type of fuel used :
- (i.e. cattle dung / digested slurry / Kitchen waste / Agro waste etc.)
- ii) Required quantity of bio-fuel : MT per year
- iii) Available quantity of bio-fuel
 - a) From Own Source : MT per year
 - b) From Other Source : MT per year
- iv) Cost of bio-fuel to be used :Rs./MT
- v) Is the bio-fuel available for 10 years. : Yes/No

IV. ELECTRICAL DETAILS

- 1. Transmission of Power & Evacuation :
plan/interconnection facility for the proposed plan
- 2. Interfacing scheme proposed :
- 3. For captive power plant
 - i) Present consumption of Electricity:
 - a) From Vidyut Vitaran Nigam :
 - b) Captive Generation :
 - ii) Connected load of the company :
 - iii) HT/LT consumer. :
 - iv) Nearest Sub-station of RVPN/VVN and :
distance from the proposed power plant.
 - v) Voltage ratio of the Sub-station :

V. FINANCIAL DETAILS

- 1. Estimated cost of the project proposed :
- 2. Cost of power generation per unit (Please enclose : Rs./kWh
Cash Flow Chart also).
- 3. How do you propose to raise the required :
finance for the project:
 - a) Equity share capital :
 - b) Promoters contribution :
 - c) Term Loans :
- 4. Do you envisage any foreign collaboration, if :
so please furnish the details
- 5. Details of the application/processing fee :
remitted: (@ Rs 50000/- per MW)
 - a) Amount Rs. :
 - b) Demand Draft/Cheque No. :
 - c) Date :

6. Detail of Security amount remitted (as per clause 15.2 of Policy 2004)-
 - For Wind energy projects:
 - (1) In Jaisalmer district : Rs. 10 lac per MW
 - (2) In other districts : Rs. 5.0 lac per MW
 - For Biomass and Solar energy projects: Rs. 1.0 lac per MW
 - a) Amount Rs. :
 - b) Demand Draft/Cheque No. :
 - c) Date :
7. Detail of fee for creation of facility for receiving station (as per clause 5.1.2 of Policy 2004):
 - a) Amount Rs.
 - b) Demand Draft/Cheque No.
 - c) Date
8. Detail of fee for Transmission and Distribution Network Augmentation (as per clause 5.1.4 of Policy 2004):
 - Rs. 15.00 lac / MW for wind energy power plants.
 - Rs. 5.00 lac / MW for biomass power projects as well as for wind energy power projects up to 20 MW capacity situated outside Jaisalmer-Barmer-Jodhpur region and not utilizing the EHV network of Jaisalmer-Barmer-Jodhpur and Jaisalmer-Phalodi-Jodhpur.
 - a) Amount Rs. :
 - b) Demand Draft/Cheque No. :
 - c) Date :
9. Can you help access bilateral grants/ concessional loans from GoR to provide soft loan for your project (if yes, give details of the agency and preliminary terms and conditions) :

VI. ANY OTHER RELEVANT INFORMATION

VII. DECLARATION

- (i) I/We certify that all information furnished is true to the best of my/our knowledge.
- (ii) I/We agree that Govt. of Rajasthan is the final authority to allot us the project.
- (iii) I/We shall not have any dispute with GoR/RREC for non-allotment of the project.
- (iv) I/We agree to sign necessary agreement with Govt. of Rajasthan/RREC.
- (v) I/We agree to comply with the terms and conditions of Policy for Promoting Generation of Electricity through Non-conventional Energy Sources 2004.

Signature of the authorised Signatory
of the Organisation with Seal

Place:

Date:

VIII. DOCUMENTS ENCLOSED:

- 1. A certified copy of the **Memorandum & Article of Association** of the Company.
- 2. Certified copy of the registration certificate.
- 3. Certified copy of the partnership deed.
- 4. Certified copy of the Authority conferring powers on the person(s) who are competent to execute the MOU/the agreement with GoR/RREC/RVPN /DISCOM.
- 5. Detailed Project Report alongwith documents & attachments and the interfacing scheme etc. in 3 copies.
- 6. Processing fee in the form of D.D. No. dated payable to the Managing Director, RREC, at Jaipur for Rs.
- 7. Annual Report of the Company for last three years.

.....
Receipt of Application

Received an application to set up MW.....
based power plant at
..... from
M/s.
alongwith processing fee of Rs. (Rs. 50,000/- per MW), paid through
D.D. No. dated

Authorized signatory
RREC, Jaipur

Format for preparation of pre-feasibility report
Mini / Micro / Small Hydel Power Plant

1. Location : Name of Dam/ Canal / River
Nearest village
Taluk and District

2. Details of the proposed site :
 - a) In case of canal based project : Bed level, bed width, full supply level (FSL), side slopes, longitudinal slope, top of embankment, design discharge, design head and details of by-pass channel.

 - b) In case of dam based project : FSL, type of existing dam, design discharge, design head and by-pass arrangements.

 - c) In case of stream based project : Maximum and minimum flood level observed, type of diversion weir proposed, design discharge, design head and by-pass arrangements.

3. Intake structure : Length
Top width
Bottom level
Number of penstocks
Diameter of penstocks
Size of gates

4. Power house : Type of power house
Dimension of power house
Number of units proposed to install in the power house
Generator floor level
Turbine floor level

5. Generating units : Number and capacity of generating units
Unit type
Generator capacity

- | | | | |
|-----|--|---|--|
| 6. | Tailrace channel | : | Length of tailrace
Bed level
Bed width
Side slope
Type of lining
Longitudinal slope |
| 7. | Land details | : | Ownership of the land and its geology |
| 8. | Power evacuation | : | Near sub-station
Distance from the project site
Type of transmission line proposed
Load distribution study |
| 9. | Costs aspects | : | Estimates project cost
Cost estimate of civil and electro-mechanical equipment
Total project cost with interest during construction
Cost per kW of installed capacity |
| 10. | Power generation | : | Annual energy generation (gross and net energy)
Cost of energy generation table
Energy generation table
Plant load factor |
| 11. | Cash flow analysis | : | Cash flow statement
Pay back period |
| 12. | Time schedule for developing the project (enclose bar chart) | : | Time for detailed site investigation and DPR preparation
Time for preparation of tender documents and achieving financial closure
Time required for project execution |
| 13. | Photographs | : | Two colour photographs of the site |
| 14. | Maps | : | Index map
Location map
Layout plan |