

**Government of Bihar,
Energy Department**

**Bihar Policy for Promotion of Bihar New and
Renewable Energy Sources 2025**

Resolution No -

Date:

ABBREVIATIONS

BERC	Bihar Electricity Regulatory Commission
BESS	Battery Energy Storage System
BIADA	Bihar Industrial Area Development Authority
BREDA	Bihar Renewable Energy Development Agency
BHPC	Bihar State Hydroelectric Power Corporation Ltd.
BSPHCL	Bihar State Power Holding Company Ltd.
BSPGCL	Bihar State Power Generation Company Ltd.
BSPTCL	Bihar State Power Transmission Company Ltd.
CAPEX	Capital Expenditure
CDM	Clean Development Mechanism
CTU	Central Transmission Utility
DRE	Distributed Renewable Energy
EE	Energy Efficiency
FiT	Feed in Tariff
FY	Financial Year
GNM	Group Net metering
GoB	Government of Bihar
JV	Joint Venture
kW	Kilo Watt
LADF	Local Area Development Fund
MNRE	Ministry of New and Renewable Energy
MoP	Ministry of Power
MW	Mega Watt
NABARD	National Bank for Agriculture and Rural Development
NBPDCL	North Bihar Power Distribution Company Ltd.
NGO	Non-government Organization
PCCF	Principal Chief Conservator of Forests
PDC	Post Dated Cheque
PPA	Power Purchase Agreement
PPP	Public Private Partnership
PSM	Payment Security Mechanism
PSU	Public Sector Undertakings
RE	Renewable Energy
REC	Renewable Energy Certificate
RESCO	Renewable Energy Service Company
RPO	Renewable Purchase Obligation
SBPDCL	South Bihar Power Distribution Company Ltd.
SGST	State Goods and Services Tax
SLDC	State Load Dispatch Centre
SLEC	State Level Empowered Committee
SLSC	State Level Screening Committee
STU	State Transmission Utility
ToD	Time of Day
UNFCCC	United Nations Framework Convention on Climate Change
VNM	Virtual Net metering

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Resolution**

no. प्र02/ब्रेडा अपारंपरिक नीति-11/2008(खंड)-

/Patna, dated

Sub- Bihar Policy for Promotion of Bihar New and Renewable Energy Sources 2025

1 Preamble

The Government of Bihar (“State”) has stepped up its climate neutral ambition with building upon the goals and policies level actions for renewable energy (RE) adoption. The country wide RE and Net-Zero targets are already set by the Indian Government along with the international commitments and pledges. The state has also undertaken a detailed study to recommend a low carbon development pathway and devised a phase wise strategy to achieve Net-Zero by 2070. These pledges require a faster trajectory and increased efforts for RE adoption in the state. The State also aims to align with India’s ambitious RE target and accelerate deployment of RE projects (from small to large-scale projects) considering the state specific scenarios.

2 Legislative Framework of the Policy

This policy will be referred as “Bihar Policy for Promotion of Bihar New and Renewable Energy Sources 2025” (henceforth “Policy”). Several provisions under the Electricity Act, 2003 (Act) mandates the Bihar Electricity Regulatory Commission (BERC) and the Government of Bihar to take necessary steps for promotion of RE in the state. Section 108 of the Act mandates the State to give directions to the State Commission for promotion of RE in the state including policy framework design. This policy supersedes the previous “Bihar Policy for Promotion of Bihar New and Renewable Energy Sources 2017”.

3 Scope

- a) The scope of the policy is limited to RE and Energy Storage Projects, including but not limited to solar (photovoltaic, thermal), hydro, wind, energy storage (battery, pumped hydro), waste to energy, green hydrogen (and green ammonia), geothermal technologies and any other renewable energy technology recognized by MNRE/BREDA.
- b) The benefits under this policy will not be applicable to the projects for which PPAs have already been signed before this policy.

4 Operative Period

- a) This policy will come into effect from the date of issuance and will remain applicable for a period of five (5) years and/ or will remain in force till the issuance of a new policy.
- b) Renewable Energy Projects (REP) that are commissioned during the operative period will be eligible for the incentives declared under this policy, for a period of 25 years from the date of commissioning or for the lifespan of the energy project, whichever is earlier. If specific incentive mentioned in policy for any particulars, the same will be considered for its applicability.

5 Nodal agency

- a) Bihar Renewable Energy Development Agency (BREDA) will be the State Nodal Agency (SNA) for the development of all RE projects except defined RE projects in this section, Bihar State Hydroelectric Power Corporation Limited (BHPC) will be the State Nodal Agency (SNA) for the development of Hydro Power Projects and Bihar State Power Generation Company Ltd. (BSPGCL) will be the State Nodal Agency (SNA) for the development of Pumped Storage Projects in the state. Bihar State Power Generation Company Ltd. will also be Implementing Agency for the development of floating/ground mounted Solar PV Projects & Biomass power projects above 1 MW and all solar power projects along canals and dams across the state.
- b) In addition to the above, Energy Department, Government of Bihar may nominate any government body of the state as Nodal/Implementing agency for different RE technologies defined in this policy.

6 Policy Targets (and Applicability)

- The policy intends to promote a diversified project folio spanning across regions and applications. There are four broad project categories based on capacity and application: utility-scale RE, distributed RE, off-grid RE and Energy Storage.
- Each technology is further divided based on the deployment location and/or mechanism defined in this policy, the technology wise targets under different categories are:

Technology Categories		FY	FY	FY	FY	FY	Cumulative Target
(Summary)		25-26	26-27	27-28	28-29	29-30	
RE Target (MW)		3,297	4,134	4,854	5,481	6,202	23,968
Energy Storage Target (MWH)		600	700	1,300	1,400	2,100	6,100
Technology Categories and application areas	Project Capacity	FY	FY	FY	FY	FY	Cumulative Target
		25-26	26-27	27-28	28-29	29-30	
1. Utility-scale RE		3,030	3,767	4,382	4,932	5,542	21,653
1.1. Solar Parks	>=20 MW	50	100	200	250	300	900
1.2. Other Ground Mounted Solar	>=0.5 MW	2,760	3,322	3,722	4,122	4,522	18,448
1.3. Elevated Solar Project (over Ponds)	>=0.5 MW	50	60	80	90	120	400
1.4. Floating Solar	>=0.5 MW	50	75	100	120	150	495
1.5. Agri Voltaic Solar	>=0.5 MW	50	70	80	90	100	390
1.6. Canal Top/Bank Solar	>=0.5 MW	20	30	50	70	80	250
1.7. Geothermal Power Plant	>=5.0 MW	0	0	10	10	30	50
1.8. Biomass Power Plant	>=0.5 MW	30	60	70	80	100	340
1.9. Waste to Energy	>=0.5 MW	10	20	30	50	70	180
1.10. Wind Power Plant	>=0.5 MW	10	30	40	50	70	200
2. Distributed RE(On-Grid)		232	312	407	467	557	1,975
2.1 Rooftop Solar	>=1.0 kW	50	70	100	120	160	500
2.2 Small Hydro Power Plants	< 25 MW	20	30	65	65	70	250
2.3 Other Solar Power Plants (Floating/Ground Mounted/canal top/bank etc.)	< 0.5 MW	30	40	50	70	80	270
2.4 Solar Agriculture (Agri voltaic, Solarization of Agriculture Feeders, Pumps etc.)	< 0.5 MW	50	80	100	120	150	500
2.5 Biomass Power Plant	< 0.5 MW	72	72	72	72	72	360
2.6 Waste to Energy	< 0.5 MW	5	10	10	10	10	45
2.7 Wind Power Plant	< 0.5 MW	5	10	10	10	15	50
3. Off grid RE		35	55	65	82	103	340
3.1 Mini and micro grids	>=1.0 kW	5	10	10	12	13	50
3.2 DRE (Solar for livelihood)	>=1.0 kW	5	15	20	30	40	110
3.3 Standalone Solar Pumps	>=1.0 kW	25	30	35	40	50	180
4. Energy Storage (MWH)		600	700	1,300	1,400	2,100	6,100

4.1 Pumped Storage	>=10 MWH	100	200	300	400	600	1,600
4.2 Grid Level Battery Storage	>=1 MWH	500	500	1,000	1,000	1,500	4,500

Note: The above targets are time bound, SLSC will ensure periodic review to monitor the progress in the state against envisaged target. Time bound provision may be relaxed only for FY 25-26 and FY 26-27 for planning purpose. In case, target under any technology area has not been met for any FY, the same may be interchanged with other technology area with total target for that FY to remain the same.

7 Policy Objectives

- To harness 23.968 GW of RE and 6.1 GWH of storage by FY 2029-30 through non-conventional RE resources and Energy Storage potential of the state
- To promote new & efficient technique in RE and Energy Storage
- To create encouraging environment and eco-system for RE adoption
- To bring maximum stakeholder participation & actions for RE uptake
- To give special emphasis on innovation and development R&D facility in the State
- To increase livelihood opportunities in the State with RE adoption
- To increase awareness, skill & capacity development for RE integration

8 Eligible Entities

- All registered companies/firms/co-operatives/societies, Start-ups, Government entities, consumers of Discom(s) and individuals will be eligible for setting up of RE Projects within the State for sale of electricity/captive use, in accordance with prevailing regulations.
- Entities desiring to setup RE projects will submit a proposal with requisite details to the State Nodal Agency (SNA) in line with the criteria specified in the Policy to avail the benefits under the Policy.
- Entities/Implementing agencies/Developers will be eligible for setting up of RE Projects under Different mode i.e., RESCO/CAPEX/Hybrid.

9 Thrust Technology areas and Provisions for Development

This policy ensures harnessing different RE potential technology areas through range of RE technologies, which are as follows:

9.1 Solar PV Projects

There are various Governments schemes like Jal-Jeevan-Hariyali Mission, Hybrid Annuity Model (HAM), PM Surya Ghar and PM Kusum Yojana.

Under this technology/schemes, solar PV projects of different capacities will be developed; detailed provisions for the development of such projects are as below:

9.1.1 Rooftop Solar PV Projects

All the electricity consumers of the state are eligible to install rooftop solar projects. Guidelines will be developed for the promotion of such schemes to ensure adoption of rooftop solar projects in the state. The provision for promotion of rooftop solar on all the buildings across the state will be below:

- Any Solar Power Plant (Ground mounted/ Reservoirs) integrated with rooftop solar plant within the premises of electricity consumer up to 1000 kWp capacity will be considered under this category.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	up to 1000kWp within the premises of electricity consumers
2	Third Party Sale	Allowed
3	Applicable Tariff	As approved by BERC/mutually agreed (for third party sale)
4	Metering Arrangement	Net Metering/Virtual Net metering/Gross Metering
5	Mode of Development	Capex/RESCO/Hybrid RESCO

6	Energy Accounting	Per Billing Cycle (Defined by BERC)
7	Height of Module Structure	The height of the module structure carrying solar panels will not be counted towards the total height of the building as permitted by building by laws. No approval will be required from concerned Municipal Corporation or Department of Urban Development & Housing for putting up solar plants including any additional system for monitoring the performance of solar plants in existing or new buildings.

9.1.2 Solar PV Projects (other than Rooftop Solar Project)

- a. The solar projects (other than rooftop solar project) are grid connected projects including but not limited to ground mounted solar, floating solar, canal top/bank solar, agrivoltaics, elevated solar projects over ponds or any other innovative application of solar energy.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	No limit subjected to CTU/STU/Discom injection approval
2	Third Party Sale	Allowed
3	Applicable Tariff	i. For Sale of Power to Discom: Feed in Tariff/Ceiling tariff for competitive bidding will be defined by BERC. ii. Third Party Sale or Captive Use: PPA will be executed between the Project developer/owner and the procurer on mutually discussed and agreed rates.
4	Metering Arrangement	Gross Metering
5	Energy Accounting	Per Billing Cycle (Defined by BERC)

9.1.3 Development of Solar PV Projects

Development of Solar PV Projects under different categories will be done in line with the following:

S.No.	Category	Details of Provisions
1	Solar PV- Ground Mounted (Solar Parks/ Other Ground mounted Solar Plant with and without BESS)	i. The State will promote development of Solar Parks and other Solar Power Plants on Ground. ii. Minimum size of solar park considering the geography of Bihar will be 20 MW. iii. Size of other ground mounted solar projects will be in line with project capacity defined along with targets.
2	Solar PV- Ground Mounted (Elevated Solar Projects over Ponds)	i. The State with an aim to utilize its precious land resource will promote development of Solar Power Projects in elevated fashion over ponds. ii. The SNA will coordinate with concerned departments of the state to carry out feasibility assessment and potential mapping of different water bodies across the state for the development of solar power plants under this category.
3	Floating Solar PV Plant	i. The State will promote development of solar power plants on all types of water bodies like lakes, reservoirs, ponds, dams etc. ii. The SNA will coordinate with concerned departments of the state to carry out feasibility assessment and potential mapping of different water bodies across the state for the development of floating solar power plants. iii. The SNA will facilitate in taking necessary approvals like water lease agreement and invite bids for conducting Environmental and Social Impact Analysis (ESIA) of the water bodies.
4	Canal Top/Bank	i. The State will promote development of solar power plants on

	Solar Power Plants	canal tops and banks. ii. The SNA will coordinate with concerned departments of the state to carry out feasibility assessment and potential mapping of different canal tops /banks for the development of solar power plants. SNA will facilitate in taking necessary approvals for the development of solar plants under this category.
5	Rooftop Solar PV Plant	The rooftop solar PV plant can be deployed under three modes, which are CAPEX (Capital Expenditure) Model, RESCO (Renewable Energy Service Company) Model, and Hybrid RESCO Model. i. CAPEX Model: In this model the consumer purchases the solar system, by making 100% of the payment upfront or financing the system through a bank or any lending entity. ii. RESCO Model: Under this model, a RESCO developer finances, installs, operates, and maintains the rooftop solar power plant. The developer signs an agreement with the rooftop owner. The rooftop owner may consume the electricity generated, for which they have to pay a pre decided tariff to RESCO developer on a monthly basis for the tenure of the agreement. iii. Hybrid RESCO Model: Under this structure, the RESCO developer leases the rooftop of the consumer for setting up Solar Power Plant and sells the power directly to the Discom i.e., PPA is signed between developer and the Discoms. The consumer also signs a net-metering agreement with the Discom.
6	Solar PV Plant for Agriculture Sector	i. Solar Power Projects will be developed under this category with an aim to efficiently utilize precious land for farming and other allied activities along with generation of power to facilitate increasing the income of farmers through sustainable and self-resilient farming as well as non-farming related activities in the state. ii. Under this category, Agri voltaic, elevated solar projects, solar pumps, solarization of agriculture feeders and any other project for increasing the income of farmers will be developed. It should be ensured that installation of solar power plants will not to be promoted with a compromise to agri output. iii. The State in collaboration with the Central Govt./MNRE /MoP/Multi/Bilateral bodies will undertake measures to facilitate development of such projects for the farmers of the state. iv. BREDA will facilitate with government agencies for availing subsidies, grants and/ or incentives. The detailed guideline of this scheme will be developed by BREDA in consultation with all concerned stakeholders. The State will encourage grid connected solar pump sets to benefit the farmers by way of sale of surplus energy to the Discoms. v. The solar power projects for the farmers will be developed under the following categories: a. Solar Power Projects on land and water bodies: The purpose of developing solar power plants under this category is to sustainably utilize land for farming and other allied activities for strengthening agri-value chain along with generation of power. This category will include Agri voltaic power plants, solarization of agriculture feeders etc. The policy intends to demonstrate the potential of Agri voltaic and accruing benefits to the farmers and other rural

		community. BREDA will promote the development of different types of Agri voltaic systems in the state through gathering more evidence on system performance and crop yield. Solar power plants will be installed for solarizing the agriculture feeders to cater the power requirement for a single or multiple agriculture feeders emanating from a distribution sub-station (DSS) to feed power at appropriate voltage level of the DSS depending on factors like availability of land, technical feasibility, etc., and there is no cap of the capacity of solar power plant for feeder level solarization. Under this category maximum size of individual solar power project at one location will not exceed 5 MW. b. Standalone Solar Pumps: Under this category, individual farmers of the state will be supported to install standalone solar agriculture pumps of capacity up to 10HP for replacement of existing diesel agriculture pumps / irrigation systems in off-grid areas, where grid supply is not available. c. Solarization of Pumps: Under this category, individual farmers having electric pumps are being supported to solarize their pumps. Diesel pump owners are also promoted to switch to electric pumps. Farmers will be provided with solar panels of appropriate capacity to facilitate them to use the generated solar power to meet the irrigation needs and sell the surplus solar power. Discoms will buy the surplus power from the farmers at the per-determined rate to be decided by BERC. Solar PV capacity up to two times of pump capacity in kW is allowed under the scheme.
7	Decentralized Distributed RE generation Plant	i. DRE livelihood applications: DRE livelihood applications can be defined as applications powered through a RE source, the applications could be solar dryer, solar powered cold storage/chillier, solar powered EV charging facility, solar charkha, etc., which help in earning livelihoods. The State will promote decentralized and off grid solar applications of solar power for creating livelihood opportunities as per the guidelines issued by MNRE. SNA will also devise state centric guidelines for the promotion of livelihood through DRE applications. SNA will coordinate with different implementing agencies and schemes of different Ministries/Departments and provide technical support for DRE livelihood applications. Alternatively, SNA will be appointed as implementing agency for DRE livelihood applications in the state. ii. Solar Powered Mini-Micro Grid: Solar Powered mini-micro grids will be developed preferably to the area with poor reliability/no electricity/to bring distribution efficiency. Further, a special focus would be on solarizing different sectors like healthcare, education, agriculture and promoting productive use of solar electricity. State will formulate a separate mini & micro grid policy or guideline for smooth implementation of these projects. iii. Greening of Villages/City/Districts: The State will promote

		developing Greening of Villages/City/Districts with the provision of catering the 100 % demand of the Villages/City/Districts with different RE potential technologies as per its feasibility at the region. iv. Other Off-Grid Applications: The State will promote off grid solar applications to meet the requirements of electricity and thermal energy, as per the guidelines issued by MNRE and State. The State will promote setting up of solar power plants for sale of power to consumers through its own distribution system/local solar grid. The State will also promote setting up of stand-alone solar systems to provide electricity to households in remote villages/ hamlets (tolas) or areas with poor reliability of electricity. SNA will identify priority areas/sectors for deployment of off grid Solar PV power plants like standalone Solar Plants, solar home systems, Solar Street lighting system, Solar mid-mast lights etc. and take necessary action, in time bound manner, to implement the off grid solar systems in those priority areas/sectors with the approval of the State government.
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9.2 Bioenergy/ Waste to Energy Projects

- a. The State will encourage setting up of biomass/biogas projects/bio CNG/ bio manure/ biofuel/bio pallets/waste to energy etc. to meet the requirements of energy as well as non-energy applications in line with the guidelines issued by MNRE, as amended from time to time.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	No limit subjected to CTU/STU/Discom injection approval, and bio-waste availability per annum
2	Third Party Sale	Allowed
3	Applicable Tariff	As approved by BERC
4	Metering Arrangement	Net Metering up to 1 MW Gross Metering above 1 MW
5	Energy Accounting	Per Billing Cycle (Defined by BERC)

- b. The State will adopt “National Bioenergy Programme (2021-2026)” (subjected to future amendments) for developing different bioenergy projects as mentioned below:
- Waste to Energy Programme** (Programme on Energy from Urban, Industrial and Agricultural Wastes /Residues) to support setting up of large Biogas, Bio CNG and Power plants (excluding MSW to Power projects).
 - Biomass Programme** (Scheme to Support Manufacturing of Briquettes & Pellets and Promotion of Biomass (non-bagasse) based cogeneration in Industries) to support setting up of pellets and briquettes for use in power generation and non-bagasse-based power generation projects.
 - Biogas Programme** to support setting up of family and medium size Biogas plants in rural areas.

9.3 Small Hydro Power Projects

- a. The state will encourage the development of small hydro projects installations for power generation, subjected to the approval from BHPC.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	Subjected to approval from BHPC, and

		CTU/STU/Discom injection approval
2	Applicable Tariff	i. For Sale of Power to Discom: Feed in Tariff/ ceiling tariff for competitive bidding will be defined by BERC (Can be fixed or mix of fixed and variable cost). ii. Third Party Sale or Captive Use: PPA will be executed between the Project developer/owner and the procurer on mutually discussed and agreed rates.
3	Mode of Development	Under Competitive Bidding by BHPC
4	Sale of Power	Sales to Discom as per contract If surplus power available after Discom purchase requirement, the developer will be free to sell power within or outside the state.
5	Energy Accounting	Per Billing Cycle (Defined by BERC)

- b. “No free power” or “Local Area Development Fund (LADF)” will be applicable for small hydel projects.

9.4 Wind Power Projects

- a. The state will encourage the development of wind power projects to harness the huge potential of wind energy in the state.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	No limit subjected to CTU/STU/Discom injection approval
2	Third Party Sale	Allowed
3	Applicable Tariff	i. For Sale of Power to Discom: Feed in Tariff/ Ceiling tariff for competitive bidding will be defined by BERC. ii. Third Party Sale or Captive Use: PPA will be executed between the Project developer/owner and the procurer on mutually discussed and agreed rates.
4	Metering Arrangement	Gross Metering
5	Energy Accounting	Per Billing Cycle (Defined by BERC)

9.5 Pumped Storage Projects

- a. The state will encourage the development of pumped storage projects for the fulfillment of peak energy demand requirements, Energy Storage Obligation, and other compliance by MoP and MNRE from time to time.

S.No.	Parameter	Details of Provisions
1	Capacity of the Plant	Subjected to approval from BSPGCL/BHPC, and CTU/STU/Discom injection approval
2	Applicable Tariff	As approved by BERC (including peak demand Tariff)
3	Energy Accounting	Per Billing Cycle (Defined by BERC)

- b. Guidelines issued by MoP/MNRE will be adopted for development of such projects in the state. SNA will also devise state centric guidelines for promotion of such projects.

9.6 Hybrid RE Projects (Solar/Wind + Other Renewable Energy technologies)

- a. The state will encourage the development of hybrid RE power projects consist of solar/wind plus other RE generating technologies.

S.No	Parameter	Details of Provisions
1	Capacity of the Plant	No limit subjected to CTU/STU/Discom injection approval

2	Third Party Sale	Allowed
3	Applicable Tariff	i. For Sale of Power to DISCOM: Feed in Tariff/ Ceiling tariff for competitive bidding will be defined by BERC. ii. Third Party Sale or Captive Use: PPA will be executed between the Project developer/owner and the procurer on mutually discussed and agreed rates.
4	Metering Arrangement	Gross Metering
5	Energy Accounting	Per Billing Cycle (Defined by BERC)

9.7 Other RE technologies

- a. The state will encourage the development of other RE technologies as below:

S.No	RE Technologies	Details of Provisions
1	Solar Thermal Projects	i. The State will promote use of solar thermal energy for the development of solar thermal power projects and industrial heating requirements as per the guidelines of MNRE. ii. BREDA will facilitate to proliferate its application in feasible sectors including residential (solar water heaters, solar cookers, in-door air heating etc.), commercial & industrial sector (solar cooling, solar air dryers, large scale solar water heaters, large scale solar cooking utilizing solar concentrator technology, process heating etc.).
2	Green Hydrogen Projects	i. The State will encourage setting up of green hydrogen projects in line with National Green Hydrogen Mission with an aim to decarbonize industrial, mobility and energy sectors; reduction in dependence on imported fossil fuels and feedstock; development of indigenous manufacturing capabilities; creation of employment opportunities; and development of cutting-edge technologies. ii. The State in consultation with central agency will devise provisions for developing pilot projects in emerging end-use sectors and production pathways.
3	Geothermal Projects	i. The State will encourage setting up of geothermal energy projects in line with potential identified in the state. ii. The State in consultation with central agency will devise provisions for developing pilot projects in emerging end-use sectors and production pathways for increasing the penetration of geothermal energy in the state energy mix.
4	Other RE Projects	The state will encourage setting up of any other RE technology as defined by state/central government time to time and will devise modalities for developing pilot project for exploring further state centric options.

10 Useful Life of RE Projects

Different RE projects have following useful life:

S.No	RE Project	Useful Life (Years)
1	Wind energy power project	25
2	Biomass power project with Rankine cycle technology	25
3	Non-fossil fuel cogeneration project	25
4	Small Hydro Plant	40
5	Pump storage Project	40
6	Municipal Solid Waste (MSW)/Refuse Derived Fuel (RDF) based power	20

	project	
7	Solar PV/Solar thermal power project	25
8	Geothermal Power Projects	20
9	Biogas based power project	25
10	Biomass Gasifier based power project	25

11 Incentives

To enable RE capacity addition in the State, the following incentives will be provided for eligible entities for those projects being installed during the operative period of this policy.

11.1 Applicability

RE projects commissioned in the State and PPA signed for the same in the operative period of this policy will be eligible for declared incentive under this policy for a period of useful life of the project or any defined period from the date of scheduled commissioning of the projects.

11.2 Electricity Duty

100% exemption on electricity duty will be provided to captive/open access consumers on consumption of power from RE projects set-up within the state during the policy period. Such electricity duty exemption will be reimbursed from the concerned utility and will be applicable for consumption of power from such projects for a period of 15 years from the date of commissioning of the project.

11.3 State Goods and Service Tax (SGST)

100% exemption from the payment of SGST for all the materials required for development of RE projects and EV charging stations will be provided by the Commercial Tax Department for a period of 5 years. The applicable amount will be reimbursed from the department as per GST Council Recommendation.

11.4 Open Access

Intra-state, open access clearance for the whole tenure of the project or 25 years whichever is earlier will be granted. In absence of any response or intimation from the Discoms/Transcom to the RE generator within 30 days, then such application will be considered to be deemed open access. The applicable charges will be governed by BERC regulations for the same.

11.5 Stamp Duty

100% reimbursement of stamp duty/registration fees levied on lease/ sale /transfer of industrial land/shed as also those outside the jurisdiction of Bihar Industrial Area Development Authority would be available to all the new units after the unit commences the commercial production. This reimbursement of stamp duty and registration fees will be granted only for the first time and will not be applicable in subsequent stages of lease/sale/transfer. This incentive will be available to new units only as per Indian stamp act 1899 under section 9 (1) & under section 78 of registration act 1908 in state Gazette. If any existing units setup RE Plant or goes for expansion of RE Plant, done it will be treated as new unit only for setting up additional new RE capacity plant.

11.6 Free Power and Local Area Development Fund (LADF)

No free power or Local Area Development Fund (LADF) will be applicable for the development of small hydel projects within the state during operative period of this policy.

11.7 Land Conversion Charges

100% reimbursement of land conversion fees/ change in land use fees being levied for conversion of agricultural land after the unit commences the commercial production as per Bihar agriculture land (conversion for non-agricultural purpose) act 2010.

11.8 Exemption from transmission and wheeling charges

Exemption of 100% on transmission and wheeling charges on RE projects developed for power consumption within the state for a period of 15 years from date of commissioning of the project. Grid

connected RE projects with storage systems selling power within the state will attract higher exemption from transmission and wheeling charges for a period of 20 years from the date of commissioning of the project in line with Ministry of Power, GoI and will be applicable for intra State only. The details of the exemption will also be specified in the bidding document for projects developed through bidding route. The transmission and distribution losses will be applicable in line with BERC regulations as amended from time to time.

11.9 STU Charges

Exemption on STU Charges will be provided to captive/open access consumers on consumption of power from RE projects commissioned in the state during operative period of this policy in line with BERC regulations for the state.

11.10 Banking Charges

Banking of 100% of RE will be permitted for all captive and open access/ scheduled consumers during all 12 months of the year. Banking charges and other clauses will be applicable for all RE projects commissioned in the state during operative period of this policy in line with BERC regulations as amended from time to time.

11.11 Tariff Mechanism

a. Feed-in-Tariff (FiT)

BERC will announce separate feed-in-tariff for different technology areas, in order to facilitate flourishing of defined RE technology areas in the state. State may further give directions to BERC to further devise technology as well capacity centric FiTs considering the state centric scenarios for the promotion of RE in the state.

In addition to above, BERC may introduce time-of-the-use RE feed-in tariffs to encourage RE projects and storage operators to feed-in energy into the grid when demand is high.

b. Solarization of Agriculture Feeder

Discoms are promoted to determine the appropriate ceiling tariff that adequately captures the smaller project sizes and higher transaction costs and may consider revision if required to implement the solar for agriculture scheme. In addition, distribution substation wise solar evacuation capacity will be published in transparent manner especially for agriculture dominated districts by Discoms.

c. Green Tariff

To promote consumers to opt for green energy, BERC may introduce 'Green Tariff' for all consumers, including extra high voltage, high voltage, and low voltage categories. Green tariff rate will be either lower than or equivalent to the average pooled power purchase cost from different RE sources of energy of Discom to encourage early movers.

In addition, if the consumer is not an obligated entity under RPO Regulations, the procurement of power will be considered towards RPO fulfilment of Discom.

d. Virtual/Group Net Metering

To promote and facilitate the eligible consumers, especially located in the urban/rural centers of Bihar and having constraints like access to adequate rooftop area/ inaccessible rooftops, etc. and various entities having multiple electricity connections, Virtual Net Metering (VNM), including Group Virtual Net Metering may be promoted with suitable regulations.

11.12 Single Window Facility

- a. A dedicated Single Window Cell will be created by BREDA to ease time bound approval of the projects.
- b. Submission of proposal for RE projects under all the categories will be submitted through the single window facility. In case the project development is carried out through bidding process, the developer will submit the relevant documents to single window cell for required facilitation approval from different stakeholders.

- c. All the statutory clearances and approvals will be provided to the RE projects through this single window facility in a time bound manner within 60 days from date of submission of proposal through this facility.
- d. BREDA will facilitate RE project developers in obtaining all necessary clearances/approvals and incentives from different Government departments through this single window facility as specified in the Policy.
- e. This facility will be extended to the projects under the solar for agriculture scheme as applicable to reduce the challenges of inter-department coordination.
- f. The modalities of the single window clearance mechanism will be notified within 90 days from the date of issue of this policy.

11.13 Carbon Credit/Carbon Pricing

The RE generating entity will retain the entire proceeds of carbon credit, if any, from an approved Clean Development Mechanism (CDM) project or mechanism under United Nations Framework Convention on Climate Change (UNFCCC) or any other mechanism developed by government of India. State will develop its own carbon credit and trading platform to promote deployment of RE projects and decarbonize its carbon footprint.

11.14 Deemed Industry Status

All RE plants will be treated as 'industry' under the schemes administered by the prevailing Industrial Policy of Bihar and incentives available to industrial units will be available to the RE projects. BREDA will recommend for sanctions and disbursement of the subsidy/incentives contained in Bihar Industrial Policy and any amendments from time to time. For subsidy/incentives flowing out from this policy not covered under the State Industrial Policy, a committee would be constituted by the Energy Department.

In case of any inconsistency between the prevailing Industrial Policy of Bihar and this policy, the provisions under this policy will prevail.

11.15 Promotion of setting up of RE based Electric Vehicle (EV) Charging Stations

The shift to clean and green mobility has been a necessity due to increase in carbon emission from fossil fuel which leads to global warming and ultimately climate change. The rapid increase in fossil fuel consumption due to rising vehicular movement has led to increase in pollution and an adverse impact on economy because of the rising import bill.

The above factors are main reasons for adoption of EVs and supporting technologies. The requirement of suitable grid-connected electricity has been a major challenge for establishing sufficient charging stations for the EVs. Charging of EVs from electricity generated from non- conventional sources further facilitates reduction of carbon footprint. In view of the above, the State will promote the use of renewable energy for charging of EVs in the following manner:

- a. The Charging Infrastructure will be developed as per the guidelines and standards issued by Ministry of Power/ Central Electricity Authority/ State.
- b. The EV charging stations may be established by the State/Central Public Sector Undertakings, private operators or under public private partnership models.
- c. Government land will be allotted at 50% concessional rate to first 1000 nos. or 50 MW (whichever is higher) RE-based EV charging stations installed within 5 years from the date of commencement of this Policy.
- d. The charging station service providers may set up RE generation plants within their premises for captive use and may also draw RE power through open access from generation plants located within the State to avail the benefits as provided 100% exemption in normal transmission and wheeling charges for a period of 25 years from the date of establishment of EV charging Station.
- e. The aforesaid benefits would also be available to the chain of EV charging stations owned by a single service provider.
- f. The State will support Research & Development activities regarding promotion and use of RE by EV charging stations.

- g. Electricity tariff applicable for all Public and Captive charging stations for commercial use (i.e., charging facilities used by fleet owners) will be notified by BERC.

11.16 Must Run Status

SLDC will ensure 'Must Run' Status of all RE projects in the State in accordance with applicable BERC Regulations and maintain the data of power curtailment of different RE projects in a transparent manner. All RE projects will forecast and schedule their generation as per applicable BERC Regulations as amended from time to time. The feeders encompassing RE projects will be managed to ensure their must run compliance by keeping the priority feeders (feeders with cumulative capacity of RE projects more than 1 MW with at least one plant of size 0.5 MW) 'ON' during operating hours of the projects. Project developer of plant size 0.5 MW and above will share the technical details of plant duly signed by concerned official of Discom/Transcom to SLDC for meeting the above requirements.

11.17 Minimum Generation Compensation

The loss in generation of RE power from projects developed within the state due to failure of grid, except during events like consideration of grid security or safety of any equipment or personnel or other such conditions, the RE generator will be eligible for a Minimum Generation Compensation from the procurer of power in line with penalty clause for non-compliance of Must Run status.

12 Penalty for Non-compliance of Must Run Status

Penalty will be applicable in case the concerned utility will not fulfill the conditions to ensure must run status of RE projects developed in the state during this policy period. The RE Projects installed in the state are priority projects and infrastructure facility will be developed to comply their must run status. To comply the must run status of the RE projects, the Discoms/Transcom will keep priority feeders (feeders with cumulative capacity of RE projects more than 1 MW with at least one plant of size 0.5 MW) 'ON' during operating hours of the projects. In case the RE plant doesn't meet the criteria of must run due to failure of grid, except during events like consideration of grid security or safety of any equipment or personnel or other such conditions as may be intimated by SLDC or any competent authority, the RE Generator will be eligible for a Minimum Generation Compensation, from the procurer of power, in the manner detailed below.

Minimum Generation Compensation = 100% of [(Average Generation per hour during the month) × (number of backdown hours during the month) × PPA Tariff]

where, Average Generation per hour during the month (kWh) = Total generation in the month (kWh) ÷ Total hours of generation in the month Compensation will only be applicable in case generation from the power projects would be less than the threshold generation. Threshold generation will be defined in line with applicable CUF of the generating unit defined as per the procurement agreement between the developer and procurer.

The RE generator will be eligible to claim the requisite amount from concerned procurer of power, BREDA will provide necessary support for the same. Concerned Power Procurer will submit the penalty amount to the single window account. This clause will only be applicable for the projects where the power procurement is done by state Discom.

13 Mandatory use of RE sources

State will issue amendments to the Building Rules, making the use of solar water heating systems mandatory for all designated new Houses/buildings/Marriage halls/hotels/hostels etc. with an area of more than 350 Sq. metre. Installation of solar water heating systems will be made mandatory for industries having hot water boiler/ steam boiler using fossil fuel. Large Industries having 1000 KVA and above as connected load, will be mandated to install solar PV project to offset their electricity demand.

14 Convergence of Schemes

State will devise necessary provisions for the convergence of different government schemes for integration and coordination of various programs, funds, and expertise across different departments and agencies for the promotion of RE project development in the state. The aim of this initiative is to optimize public investments and enhance their impact on the people of the state.

15 Resource (land/Canal/reservoir/River/Rooftops etc.)

It is the responsibility of the project developer to acquire the required resource for setting up the project. However, in case of resource owned by state government, allotment will be done as per the prevailing government policy.

BREDA will also create a 'Resource Information Bank' for every district which will be made accessible online through BREDA website. Resource owners, including farmers may come forward and provide the details of their resource to the concerned officials or BREDA. The district level officer of the concerned resource will gather details of their source suitable for deployment of RE projects in the respective district; BREDA will collect the same at the state level. BREDA will also take initiatives to aggregate resources that can be used for development of RE projects from the different stakeholders.

All the state government departments will be requested to provide a list of number of rooftops that may be used for rooftop solar projects. As a mandate, all government rooftops will be utilized for setting up of grid connected solar rooftop project. The project will be executed through BREDA, or any designated nodal agency nominated by the Energy Department.

The project developers can directly purchase private land for setting up projects and use of agriculture land will also be allowed as per provisions of State Industrial Policy. Government departments may transfer land to BIADA for allocation to solar projects on a rental basis. Transfer land will be updated in BIADA's vacant list and allocate to solar projects in the Project Clearance Committee (PCC) meeting. Projects with an operational life of 25-30 years will be allotted land from BIADA or outside BIADA on lease basis agreement.

For allotment of resources, the Bihar Renewable Energy Resource Allotment Committee (BRERAC) will take all decisions related to resource allotment. The committee will also be responsible for returning back the resources to the respective department after expiry of the lease agreement. The committee will have the following members:

i) Chief Secretary – Government of Bihar	Chairperson
ii) Secretary /Principal Secretary, Department of Energy	Member & Convener
iii) Secretary/ Principal Secretary, Department of Revenue and Land Reforms Department	Member
iv) Secretary/ Principal Secretary, Department of Water Resources	Member
v) Secretary/ Principal Secretary, Department of Agriculture	Member

16 Environmental Clearance

As per the notification from Ministry of Environment, Forest and Climate Change, following pointers must be noted:

- Power plants upto 25 MW, based on biomass and using auxiliary fuels such as coal/lignite/petroleum products up to 15% are exempted.
- Power plants up to 25 MW, based on non-hazardous waste municipal and using auxiliary fuels such as coal/ lignite/ petroleum products up to 15% are exempted.
- Power plants using waste heat boiler without any auxiliary are exempted.
- Bihar State Pollution Control Board will also issue clearances within 30 days from the date of application.
- All rules & notification from Ministry of Environment, Forest and Climate Change regarding RE projects will be applicable.

17 Building RE Based Manufacturing Capacity

The state government will focus on creating adequate ecosystem for the promotion of RE based equipment manufacturing facilities. For solar, the focus will not be confined to solar PV module assembling, manufacturing facility to strengthen the solar value chain starting from polysilicon to solar modules will be promoted. Manufacturing of Balance of System as well as assembling of equipment for applications like mini grids, solar streetlights, solar irrigation pumps, etc. will also be promoted in the state. Promotion of manufacturing capacity will be done in collaboration with other departments by enabling provisions for establishing special economic zones in the states. The state government will take following actions in this regard.

- a. Priority allotment of Government land in solar parks/other RE parks on a long-term lease basis.
- b. Electricity duty will be waived for the new manufacturing facilities for RE and other related components for a period of 5 years.
- c. 100% exemption on stamp duty.
- d. Reimbursement of SGST based incentive to all RE equipment manufacturers.
- e. 100% reimbursement of custom duty paid on input required for manufacturing solar RE equipment battery storage for a period of 5 years.
- f. Any other incentives provided in the prevailing Bihar Industrial Policy and any amendments from time to time.

18 Research and Development (R&D) and Stakeholders Engagement for Innovation

- a. BREDA will collaborate with multilateral Agencies at local/ National/ International levels for advancing RE research and development in the State for technical and financial support.
- b. BREDA will work with concerned departments to support pilot demonstration for carrying out end-of-life waste management.
- c. BREDA will undertake research through identification of different focus areas for further Policy Interventions. The focus areas will be decided by BREDA in consultation with the Bihar R & D and Innovation Committee for every financial year.
- d. Minimum 5 % of the total budget for a financial year will be dedicated for Research and Development (R&D). This includes piloting a project under focus area, trainings for internal human resources of the state and other support for commercialization of RE project in the state.
- e. Dedicated R&D Centre for RE will be made operational initially under BREDA, the same may be developed as an independent entity of the state for performing the above roles.
- f. Bihar R & D and Innovation Committee will take decision for the development of a separate entity like Bihar Energy Research and Management Institute for performing all works related to R&D, Innovation, Trainings etc.
- g. Dedicated human resource(manpower/experts) will be engaged under BREDA for performing all necessary work like engaging with state/central government/ expert organization/ any other entity for facilitation the project development on the focus area.
- h. BREDA will collaborate with multilateral Agencies at local/ National/ International levels for bringing innovations considering the state centric scenarios.
- i. BREDA will organize national/state/district level consultation with workshops/challenges to bring innovation to solve ground level issues in the state through renewable energy. Minimum two number of such workshop/challenges will be organized in every financial year.
- j. A committee will be formed namely Bihar R & D and Innovation Committee for organizing the workshop/challenge will be as below:

i.	Director – BREDA	Chairperson
ii.	Managing Director – BHPC or their representative	Member & Convener
iii.	Managing Director – NBPDCCL or their Representative	Member
iv.	Managing Director – SBPDCL or their Representative	Member
v.	Managing Director – BSPTCL or their Representative	Member
vi.	Managing Director – BSPGCL or their Representative	Member
vii.	Director – IIT Patna or their Representative	Member
viii.	Director – NIT Patna or their Representative	Member
ix.	President – Bihar Industries Association or their	Member

	Representative	
x.	Renewable Energy Expert (Nominated by BREDA)	Member
xi.	Renewable Energy Project Developer	Open Representation

19 Payment Security Mechanism (PSM)

- The Nodal Agency in consultation with the departments will set up a payment security mechanism for the sale of electricity to Government Departments and Discoms in line with MoP guidelines.
- The Nodal Agency may explore option of creating the PSM by means of creating ESCROW accounts of the department and the developer and the first right of way with the developer for collection of undisputed dues which the department may have failed to pay in time.
- The Nodal Agency may also create the PSM with Post-dated cheques (PDC) or Bank Guarantees from Government Department equal to at least Six Months Energy Bill.
- The Nodal Agency will also provide assistance to the developers by engaging with the government department and arranging for documents required for availing finance.
- The Nodal Agency will facilitate the renewable plant developers to avail the subsidy available from Central and/or State Government.

20 Data monitoring

Availability of data plays a key role for project developers and system installers while making investment decisions. State will set up new precedents in data transparency and will endeavor to have the performance data of projects in public domain through its web portal and through mobile application. All new projects to be set up in Bihar will be mandated to record and provide real time data pertaining to plant performance, which will be collated and presented on the web portal. Once implemented for grid connected projects, the data monitoring plan will be extended to off-grid and decentralized projects as well. The data such collected will help in identifying the key factors affecting the plant performance and then work on ways to improve operational efficiencies of projects.

The state government will also set up 10 weather stations with support from NIWE at locations suitable for setting up of different RE projects, including the proposed RE parks. RE resource data is required by the project developers to estimate generation from project, hence, to calculate the financial returns. This will provide the project developers with the information that is bankable and will reduce the possibility of project failure at the stage of financial closure.

21 Transmission and Distribution Infrastructure

Requirements:

- Grid integration will be in accordance with Central Electricity Authority (CEA) technical guidelines “Technical standards for connectivity to the Grid (Amendment) Regulations, 2019”.
- Interconnection voltages:

RE Project Capacity (C)	Interconnection Specification
$1\text{ kW} < C \leq 7\text{ kW}$	220 V, 1 ϕ /3 ϕ
$7\text{ kW} < C \leq 100\text{ kW}$	220V/ 440V/ 11kV, 3 ϕ
$100\text{ kW} < C \leq 5000\text{ kW}$	11kV/33kV, 3 ϕ
$C > 5000\text{ kW}$	33kV/132 kV/ 220 kV, 3 ϕ

Note: As per the technical feasibility at the site.

- The grid interconnection will be in accordance with the prevailing norms of BERC, CERC, and CEA, as amended from time to time.
- The respective evacuation and interconnection facility will be initially approved by CTU / STU / Discom depending on the injection level, spare network capacity and other system studies as per feasibility of existing infrastructure.

Provisions:

- a. For all identified resources by BREDA/Nodal Agency for the development of megawatt scale RE projects, state transmission/distribution utilities or the Special Purpose Vehicle/ Joint Venture of the state government in CAPEX, as the case may be, will construct/augment the necessary green grid infrastructure for connectivity and evacuation of RE power from generating point through the nearest substations. All costs of construction of transmission network for the evacuation infrastructure in this case will be borne by the State Government. Bidding for project development will be conducted only once the necessary pre-development activities at the designated resource sites are completed or nearing completion. Projects deployed in this case will be first utilized to meet the RPO of the state Discoms before sale to any other entity within or outside the state.
- b. For RE projects developed within the state, transmission/distribution utilities will bear the cost of development of transmission/distribution line and other necessary infrastructure like metering and protective instruments up to a distance of 10 km. In case the distance between the inter-connection point and point of grid connectivity is more than 10 km then the cost of development of transmission/distribution line and other necessary infrastructure for the distance beyond the 10 km will be borne equally between the developer and the transmission/distribution utilities. Concerned transmission/distribution utilities are applicable for claiming all above cost from the state government.
- c. Any upstream system strengthening requirement will be borne by transmission/distribution utilities on a priority basis. Supervision charges levied by the transmission/distribution utilities will be exempted for all RE power projects except utility scale RE power projects. Transmission/Distribution utilities will process and close the proposals for technical feasibility within thirty (30) days of receipt of application from the RE project developers. All the proposals will be submitted through online application portal of BREDA. The rate for the development of infrastructure facility will be in line with SoR of concerned transmission/distribution utilities. In case developer develops the transmission/distribution infrastructure, the same will be disbursed by concerned utility in consultation with BREDA as per the above rate.
- d. In case, there is no excess capacity left for power evacuation at any Substation/DT, concerned Transcom/discom will enhance the substation/DT capacity for catering the power produced from new RE project in the area. No rejection of any RE project will be allowed due to non-availability of power evacuation capacity at any Substation/DT.
- e. It must be ensured that the cost for the development of evacuation infrastructure for RE projects should not be passed on to the consumer tariff. SLSC has right to modify the range for the development of evacuation infrastructure upto 10 km to any required length for the promotion of RE projects for state interest.

Note: BREDA/Nodal Agency will carry out fund assessment in line with target in the policy and submit the same to Department of Energy.

22 Power Sale Mechanism

22.1 RE Power projects for Sale of Power to Discom:

The competitive bidding route will be followed for procurement of power by Discoms from different RE projects considering the threshold capacity for the concerned technology, as approved by the State/Government of India, from time to time. Moreover, this RE Policy recognizes threshold capacity for all RE projects to be 5 MW, the same may be revised by BERC from time to time in line with central government orders. Procurement of power, from grid connected RE Projects, having individual size of 5 MW and above, will be done through competitive bidding.

Below the threshold capacity, BERC will devise separate technology centric feed in tariff (FiT) for purchase of power from different RE generating units. FiT will remain firm for all capacities below the threshold capacity, no competitive bidding will be performed for the same.

In order to facilitate flourishing of different technology areas of RE in the state and capacity enhancement constraints, BERC may be asked to devise technology as well capacity centric FiTs considering the state centric scenarios.

22.2 RE Power projects under Renewable Energy Certificate (REC) Mechanism

The State will promote the development of RE power plants through purchase of power under the REC mechanism in accordance with the administrative procedure regarding registration and accreditation, as decided by the state or Central Electricity Regulatory Commission (CERC) and its amendment time to time.

BREDA being the state agency will extend its support for the accreditation of the RE power plant and recommending its registration with the Central Agency in a time bound manner. In carrying out its role, BREDA will be guided by any directions given to it by BERC for the implementation of the framework, from time to time. BREDA in consultation of state Discoms will formulate guidelines for the development of RE projects under REC Mechanism.

22.3 Renewable Power Plants for Sale of Electricity to any entity other than the Discom (Third-Party Sale):

The State will promote development of RE power plants for sale of electricity to any entity other than the Discoms. The sale of electricity by the owner of RE power plants to any other entity will be considered as Third-Party Sale. RE Power Projects may be installed for Third-Party Sale without any capacity restrictions. Discoms will provide open access approval in time bound manner to promote third party sale of power.

23 Bihar Akshay Urja Kendra

BREDA will open a dedicated Bihar Akshay Urja Kendra in every district with the following objectives and responsibilities:

- a. To give information about the policy, program, and subsidy level information to the local people.
- b. To organize local level Skill Development and Capacity Building support for the promotion of RE and related practices.
- c. To organize Urja Mela with an aim to showcase different products available under different technology areas.
- d. To act as a one-point center for service level support in consultation with the developers/OEMs.
- e. Any other support at the district level as planned by BREDA/Implementing Agency.

23.1 Mode of Development and Management:

- a. BREDA will empanel at least two developers/OEMs for supply of appliances and post supply support through their local level service centers for every district.
- b. Promotion will be done about the appliance, applicable rate, and subsidy provisions under different schemes of government (state/central).
- c. Two technical resources from every developer/OEM will be stationed at the Bihar Akshay Urja Kendra for providing technical support and trainings as required.
- d. Details of all the sold appliances will be made available to BREDA post supply for defined period of the appliance.

24 Application Process

24.1 Submission of Proposal for project development

BREDA will be the one-point contact for inviting proposal for the development of all RE projects, eligible entities may avail all the necessary support described under in this policy for the development of different RE projects. The eligible developer will submit their proposal with all necessary documents through single window portal for availing the benefits under this policy. Proposal will be submitted online/offline to BREDA office, the required documents for submission of proposal and availing the benefits under this policy are as follows:

- Detailed Project Report (DPR) of the Project.
- Startup India Recognition certificate/ Udyam Certificate/NSIC Certificate/ Certificate issued by Concerned Industry Dept. for involvement in related business.
- Firm's registration certificate/ Registration certificate.
- GST certificate.
- PAN Card
- Audited Balance sheet of at least one year, if applicable.
- Income tax return certificate of at least one year.

24.2 Application Charges

BREDA will charge following processing fee (non-refundable):

S.No.	Plant Capacity	Processing Fee
1	<10 KW	Rs. 1,000 /-
2	>=10 KW but <100 kW	Rs. 2,000 /-
3	>=100 KW but <500 kW	Rs. 5,000 /-
4	>=500 KW but <1000 kW	Rs. 10,000 /-
5	1 MW and above	Rs. 50,000 /- per MW maximum Rs. 5 Lakh per proposal

Note: Only commercial category projects will bear above fee. The projects developed under above mode will be considered to be deemed registered with BREDA once the projects start commercial operations. In this case developer will take a registration certificate from BREDA after submission of necessary documents with BREDA.

25 Bihar Renewable Energy Development Fund (BRDF)

State will create Bihar Renewable Energy Development Fund (BRDF), this fund will be utilized for facilitating the state to meet the objectives defined in this policy. BREDA will organize committee members meeting within 3 months from the date of notification of this policy to discuss on the structure for management of BRDF and department wise responsibility for fund management. The detailed attributes of BRDF are as below.

25.1 Objectives

- Providing all the financial incentives as envisaged in this policy for development and deployment of RE Projects in the state.
- Focus on Research and Development relating to different RE technologies.
- Supporting startups in the field of RE and its innovative applications in the state.
- Capacity building support for creating a conducive environment for RE acceleration in the state.

25.2 Fund Creation

Necessary work for fund creation and co-ordination with the concerned department will be carried out by BREDA and other Nodal Agency nominated by Energy Department. A Fund Management Unit will be created within BREDA for all necessary work related to fund creation, this unit will constitute one official from BHPC and BSPGCL. BRDF will be created through the following modes:

- Fund allocated to the state through the state/central government under different schemes, RE programs and green budget etc.
- The fund created through application fees for proposal submission and registration charges for the projects.
- The fund created through collection of penalties from obligated entities under default by BERC as per BERC (Renewable Purchase Obligation & its Compliance) Regulations notified by the Commission from time to time.
- Fund created through incentive/penalty imposed under Energy Conservation Building Code (ECBC) in line with BERC Regulations.
- The fund created through collection of fixed and variable charges from common infrastructure facility for RE projects/manufacturing units in solar parks, exclusive manufacturing zones etc.

- f. The fund created through revenue generated from sale of power from all RE plants developed within state. All RE power developer will contribute an amount of 1 paise per unit of electricity produced from different RE power projects developed within the state.
- g. Fund created through contributions from any other sources such as funding by bi-lateral or multilateral organizations.
- h. Fund created through Corporate Social Responsibility (CSR) of different entities in the state.
- i. Fund created through National Bank for Agriculture and Rural Development (NABARD)/Power Finance Corporation (PFC)/REC/Banks in line with priority sector lending or any other financial mechanisms for facilitation in the development of RE projects through multiple financing models.
- j. Fund allocated to the state under National Adaptation Fund for Climate Change (NAFCC) to meet the cost of adaptation and mitigation to climate change.
- k. Any other fund allocated to the state for adaptation, mitigation support and development of RE and EE Projects from time to time.

Note: Minimum of 50 % of the funds required for encouraging implementation of targets identified under this policy for development of RE and Storage projects, skill development etc. will be created within first quarter of every financial year. The yearly targets and respective fund requirement will be produced by BREDA before the Bihar Renewable Energy Development Fund Committee considering the above timelines.

25.3 Fund Utilization Areas

BRDF will be utilized for meeting the following attributes:

- a. Establishment support to BREDA and other Nodal Agency nominated by Energy Department.
- b. The upfront charges involved for the development of infrastructure for facilitating the deployment of utility scale/distributed RE projects like solar parks, manufacturing zones, other common infrastructure facilities etc.
- c. Development of evacuation infrastructure for facilitating the installation of distributed RE projects.
- d. Creation of skill development centers and organizing capacity building & training sessions for skilled workforce development in the state.
- e. Creation of Research and Development (R&D) centers and labs for exploring new technology areas through research and standardized existing technologies through certification of RE components like solar PV modules, inverters, solar pumps etc.
- f. Innovation, Incubation and R&D support to the startups working in the field of renewable energy, clean, sustainability and related aspects for solving state centric challenges.
- g. Any other support to the state to facilitate meeting the objectives of this policy.

25.4 Mode of Fund Utilization and Monitoring:

- a. BREDA will undertake a detailed assessment of the support required for encouraging implementation of targets identified under this policy for implementation of RE projects, skill development, startup promotion etc. and submit the fund requirements for its consideration before the State/central Government for budgetary support or to the Energy Department, Govt. of Bihar. BHPC will submit the similar proposal for fund requirement for hydro power projects to BREDA.
- b. Bihar Renewable Energy Development Fund Committee (BREDFC) will approve the required fund to be utilized under different projects. The BREDFC will meet in every quarter to track the progress of fund utilization and take necessary decisions on project approvals. The committee will comprise of following members:

i. Secretary /Principal Secretary, Energy	Chairperson
ii. Director – BREDA	Member & Convener
iii. Managing Director – BHPC	Member & Convener
iv. Managing Director – NBPDCCL or their Representative	Member

v.	Managing Director – SBPDCL or their Representative	Member
vi.	Managing Director – BSPTCL or their Representative	Member
vii.	Managing Director – BSPGCL or their Representative	Member
viii.	Secretary, Department of Industries, Govt. of Bihar	Member
ix.	Secretary, Land, Revenue & Reform Department, or their Representative	Member
x.	P.C.C.F, Forest Department, or its Representative	Member
xi.	Secretary, Water Resource Department, or its Representative	Member
xii.	Secretary, Department of Co-operative, or its Representative	Member

26 Governance

Based on the capacity, different levels for approval of the projects will constitute a Bihar State Technical Approval Committee (SLEC/SLSC/DLSC), the constitution of the committee and their respective role will be as below:

26.1 District Level Screening Committee (DLSC)

- For providing required approvals of projects of capacity less than 1 MW at a single location, DLSC will be constituted under the chairmanship of District Magistrate/Deputy Development commissioner (DDC) of the concerned district.
- To resolve problems in implementation of this Policy at district level and for promotion and publicity of this policy.
- The DLSC will meet at least once in every month to track the progress and take decisions on project approvals and review pendency.
- The committee will constitute of the following members:

i.) District Magistrate/ DDC of the concerned district	Chairperson
ii) Superintending Engineer (Distribution), Concerned Circle	Member & Convener
iii) Concerned Superintending Engineer (Transmission)	Member & Convener
ii) Superintending Engineer (Department of Water Resource), Concerned Division	Member
v) Representative, Department of Revenue and Land Reforms	Member
vi) General Manager, District Industries Centre (DIC), or their Representative	Member

26.2 State Level Screening Committee (SLSC)

- For approvals of projects of capacity of 1 MW and above but less than 50 MW at a single location, a SLSC will be constituted under the chairmanship of Principal Secretary / Secretary, Department of Energy, Govt. of Bihar.
- The SLSC will meet at least once in every Bi-monthly to track the progress and take decisions on project approvals and review pendency of all RE projects along with district level projects.
- BREDA may submit the progress report of all RE projects to the SLSC on half yearly basis.
- The committee will constitute of the following members:

i.) Secretary /Principal Secretary, Department of Energy	Chairperson
ii) Director, BREDA	Member & Convener
iii) Managing Director – NBPCL and SBPDCL or their Representative	Member
iv) Managing Director – Bihar State Power Transmission Corporation Ltd. (BSPTCL) or their Representative	Member
v) Secretary, Department of Revenue and Land Reforms or their Representative	Member

vi) Secretary, Department of Industries, or their Representative	Member
vii) Principal Chief Conservator of Forests (PCCF), Department of Forest, Environment and Climate Change or their Representative	Member
viii) Secretary, Department of Water Resource, or their Representative	Member
ix) President BIA or its representative	Member

26.3 State Level Empowered Committee (SLEC)

- To resolve key bottlenecks in implementation of this policy and resolve any other Inter departmental issues that may arise from time to time, High level committee will be constituted under the chairmanship of the Chief Secretary of the State.
- For approval of projects equal to 50 MW and above at a single location or to undertake any strategic decision other than approval related to RE targets of the state, a SLEC will be constituted under the chairmanship of the Chief Secretary of the State.
- The SLEC will meet quarterly to monitor the progress and take decisions in case of any ambiguity, dispute, difference, or issue in implementation of the policy. BREDA will submit the progress report of all RE projects in the state to the SLEC on half yearly basis.
- The committee will constitute of the following members:

i) Chief Secretary – Government of Bihar	Chairperson
ii) Secretary /Principal Secretary, Department of Energy	Member & Convener
iii) Secretary /Principal Secretary, Department of Planning and Development, GoB	Member
iv) Secretary/ Principal Secretary, Department of Revenue and Land Reforms, GoB	Member
v) Secretary/ Principal Secretary, Department of Environment, Forest & Climate Change, GoB	Member
vi) Secretary/ Principal Secretary, Department of Industries, GoB	Member
vii) Secretary, Department of Water Resource, GoB	Member
viii) Secretary /Principal Secretary, Department of Finance, GoB	Member
ix) President, BIA	Member

27 Review of Policy

State Government may undertake review of this policy on yearly basis under the chairmanship of Chief Secretary, Government of Bihar after a period of one year or as and when need arises in view of any technological breakthrough or to remove any inconsistency with Electricity Act 2003, rules and regulations made there under or under any Government of India policy. The policy review committee will comprise of all the relevant departments of this policy. Retrospective amendments to the incentives available under this policy will be avoided for ensuring investor confidence in the State and in the sector.

28 Relevant Departments

All concerned departments and organizations will issue follow up notifications within two months to give effect to the provisions of this policy. The concerned departments are listed below:

- Department of Agriculture,
- Department of Animal & Fisheries Resource Department
- Department of Co-operative
- Department of Commercial Taxes
- Department of Energy

- f. Department of Environment, Forest & Climate Change Department
- g. Department of Industries
- h. Department of Mines and Geology
- i. Department of Planning & Development
- j. Department of Finance
- k. Department of Revenue and Land Reforms Department
- l. Department of Rural Development
- m. Development of Urban Development & Housing
- n. Department of Water Resources
- o. Department of Transport
- p. State Pollution Control Board

29 Power to Remove Difficulties

If there is any ambiguity, dispute, difference, or issue arises in regard to interpretation/ implementation of this Policy, State Level Empowered Committee may take decision in such matters, not inconsistent with the provisions of the Policy, as may appear to be necessary and expedient for removing the difficulties either on its own or after hearing those parties who have represented for change in any provision.

30 Implementation Guidelines/Framework

BREDA will issue implantation guidelines or framework in consultation with the concerned department for different technology area considering the state centric parameters and applicability. These guidelines or framework will clearly describe the technology area, role, and responsibility of all the stakeholders' involved, targeted capacity and timelines for achieving the same. Following guidelines or framework will be formulated for achieving the objectives of the policy:

S.No.	Guidelines	Release duration (after date of launch of this policy)	Concerned Department
1	Micro-Mini Grid Project Implementation Guidelines	Within 3 months	BREDA, Discoms
2	Guidelines for installation of Rooftop Solar Projects	Within 3 months	BREDA, Discoms
3	Solar Power Projects Implementation Guidelines (Non-Rooftop)	Within 3 months	BREDA, BSPGCL
4	Guidelines for development of Biomass and Waste to Energy/Green Hydrogen Projects	Within 5 months	BREDA
5	Hydel Power Projects Implementation Guidelines	Within 3 months	BHPC
6	Guidelines for Implementation of Solar Pumps and solarization of agriculture feeders	Within 3 months	BREDA
7	Hybrid RE Projects Implementation Guidelines	Within 6 months	BREDA
8	Fund Management and Renewable Energy Financing Guidelines	Within 3 months	BREDA
9	Guidelines for development of Green Village/City/District	Within 6 months	BREDA
10	Guidelines for Geothermal Project Implementation	Within 6 months	BREDA, BSPGCL
11	Guidelines for development of Pumped Storage Projects	Within 6 months	BSPGCL /BHPC
12	Guidelines for Innovation Hub for	Within 6 months	BREDA

	challenges/Novel Technologies and Capacity Building		
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Note: *BREDA being the state nodal agency will develop the above guidelines in consultation with the concerned department, BREDA may engage any additional entity resource/domain experts/consultants (if required) for developing the above guidelines in line with the above timelines. Fund required for this purpose will be borne through Bihar Renewable Energy Development Fund or Energy Department on priority basis.*

Order: - Ordered to be publish in the coming extras ordinary issue of Bihar Gazette for information to all.

By the order of Governor of Bihar,

(Manoj Kumar Singh)
Secretary, Govt. of Bihar

Memo no. प्र02 / ब्रेडा अपारंपरिक नीति-11 / 2008(खंड)-

/Patna, dated

Copy forwarded to Officer-in-Charge, E-Gazette Cell, Finance Department, Bihar, Patna for publication of Bihar Gazette (through IT Manager, Energy Department, Bihar, Patna). He is requested to kindly provide 200 (two hundred) copies of the published gazette to Energy Department, Bihar, Patna.

Secretary, Govt. of Bihar

Memo no. प्र02 / ब्रेडा अपारंपरिक नीति-11 / 2008(खंड)-

/Patna, dated

Copy forwarded to Secretary, Ministry of Power, Government of India, New Delhi/Secretary, Ministry of New and Renewable Energy, Government of India, New Delhi for information and necessary action.

Secretary, Govt. of Bihar

Memo no. प्र02 / ब्रेडा अपारंपरिक नीति-11 / 2008(खंड)-

/Patna, dated

Copy forwarded to Accountant General (Accounts & Entitlement), Bihar Veerchand Patel Path, Patna for information and necessary action.

Secretary, Govt. of Bihar

Memo no. प्र02 / ब्रेडा अपारंपरिक नीति-11 / 2008(खंड)-

/Patna, dated

Copy forwarded to Principal Secretary to Governor/Principal Secretary to Hon'ble Chief Minister, Bihar, Patna/Principal Private Secretary to Hon'ble Minister, Energy Department/Principal Private Secretary to Chief Secretary, Bihar/ Additional Chief Secretary/Principal Secretary/Secretary, All Departments, Bihar, Patna/All Department Heads, Bihar, Patna/Joint Secretary, Energy Department, Bihar, Patna/Deputy Secretary, Energy Department, Bihar, Patna/ Chairman-cum-

Managing Director, Bihar State Power (Holding) Company Ltd., Patna /Managing Director, North Bihar Power Distribution Company Ltd. Patna/ Managing Director, South Bihar Power Distribution Company Ltd. Patna/ Managing Director, Bihar State Power Transmission Company Ltd. Patna/ Managing Director, Bihar State Power Generation Company Ltd., Patna/Managing Director, Bihar State Hydroelectric Power Corporation, Patna/Director, BREDA, Vidyut Bhawan-II, Patna and IT Manager, Energy Department, Bihar, Patna for information and necessary action.

Secretary, Govt. of Bihar