Government of Bihar,
Energy Department

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

Resolution No - 3239

Date: 10.07.2025

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)– 3239 /Patna, dated 10.07.2025

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)

a. 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.

b. 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 (Summary)		FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	Cumulative Target
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 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	Cumulative Target
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

a) 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
b) To promote new & efficient technique in RE and Energy Storage
c) To create encouraging environment and eco-system for RE adoption
d) To bring maximum stakeholder participation & actions for RE uptake
e) To give special emphasis on innovation and development R&D facility in the State
f) To increase livelihood opportunities in the State with RE adoption
g) To increase awareness, skill & capacity development for RE integration

8 Eligible Entities

a) 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.
b) 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.
c) 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:

a. 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 Solar Power Plants	i. The State will promote development of solar power plants on 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.