

Bihar Renewable Energy Development Agency (BREDA)

With increasing concern of climate change due to emission of greenhouse gases into the atmosphere, use of clean energy perhaps seems to be one of the viable solutions to mankind to preserve the environment for future generation.

Thus, to promote the use of Renewable Energy power projects the state government has also created an agency called Bihar Renewable Energy Development Agency (BREDA). The state government provides funds to BREDA for expenditure on subsidies for the schemes and also for the expenditure on establishments.

BREDA is currently executing projects of Grid Connected Rooftop Solar Power Plant installation under Jal Jiwan Hariyali Yojana at various govt. buildings, Solar Street Light, off Grid Hybrid Rooftop Solar Power Plant and Floating Solar Power Plant installation through various schemes in all across Bihar.

Achievements of BREDA (from FY-2012-13 to 30th September 2021)

Schemes	Physical Achievement	Financial Outlay (Rs. crore)
FY-2012-13		
A. Solar Photovoltaic Scheme		
Distribution of Solar Lanterns (across all districts)	2000 nos.	0.30
Distribution of Solar Lanterns (across all districts amongst SC/ST)	4000 nos.	0.60
B. BEE (Bureau of Energy Efficiency) Schemes		
LED street light installation in various places in Patna by Patna Nagar Nigam	240 nos.	0.72
LED bulbs and street lights in Nepura, Pilkhi, Sarilchak and Jahanabad (Nahub) villages	1152 nos.	0.13
FY-2013-14		
A. Solar Photovoltaic Scheme		
Solar Water Pumping Systems installation under Bihar Saur Kranti's irrigation scheme	493 nos.	16.30
Solar electrification of Honorable Chief Minister's House, Janata Durbar, and residential office	100 kWp	4.50
Distribution of Solar Lanterns (across all districts)	5000 nos.	0.99
Distribution of Solar Homelights	4900 nos.	2.94
B. BEE (Bureau of Energy Efficiency) Schemes		
LED street light installation in various places in Patna by Patna Nagar Nigam	366 nos.	0.31
LED street light installation in various places at Bodh Gaya by Bodh Gaya Nagar Panchayat	200 nos.	16.68
FY-2014-15		
A. Solar Photovoltaic Scheme		
Solar Water Pumping Systems under Mukhyamantri Naveen & Naveekarniya irrigation scheme	989 nos.	29.39
Solar electrification at Buxar Open Jail	100 kWp	1.55
Solar electrification at Abhilekh Bhavan	50 kWp	0.78
Solar electrification at Vidyut Bhavan	50 kWp	0.67

Solar Electrification at Chief Justice House	40 kWp	0.62
Solar electrification at District Collectorate, Hospital, Guest House of 25 kWp	34 nos. (850kWp)	15.02
Solar electrification at District Collectorate, Hospital, Guest House of 8-25 kWp	02 nos. (50kWp)	0.84
Solar Electrification at BBRA university, Muzaffarpur	100 kWp	1.55
B. BEE (Bureau of Energy Efficiency) Schemes		
LED street light installation in various places in Patna by Patna Nagar Nigam	400 nos.	0.32
LED street light installation in various places in Patna, Biharsarif, Darbanga, and Gaya	1023 nos.	1.36
FY-2015-16		
A. Solar Photovoltaic Scheme		
Solar Water Pumping Systems installation under Mukhyamantri Naveen & Naveekarniya irrigation scheme	1000 nos.	29.40
Solar Water Pumping Systems installation under Bihar Saur Kranti's irrigation scheme	527 nos.	15.21
Solar electrification at District Collectorate, Hospital, Guest House of 25 kWp	43 nos. (1075 kWp)	19.00
Solar electrification at District Collectorate, Hospital, Guest House of 8-25 kWp	23 nos. (459 kWp)	7.71
Solar Electrification at JP University, Chapra	100 kWp	1.55
Solar Electrification at Apna Ghar, Patna	50 kWp	0.59
Solar Electrification at Governor House, Patna	60 kWp	1.10
Solar Electrification at Rajdhani Vatika	50 kWp	1.15
Distribution of Solar Lantern in Katihar	5280 nos.	0.90

FY-2017-18		
A. Solar Photovoltaic Scheme	Physical Achievement	Financial Outlay (Rs. crore)
Solar Water Pumping Systems installation under Mukhyamantri Naveen & Naveekarniya irrigation scheme	280 nos.	8.63
Installation of 1kWp solar rooftop off-grid power plant Systems under Mukhyamantri Naveen & Naveekarniya scheme	2135 nos.	32.00
Installation of 2 nos. of 40kWp solar off-grid power plant at Hon'ble Civil and Session court buildings at Bhagalpur and Muzaffarpur districts under e-court mode mission	80 kWp	0.88
Installation of 23 kWp solar power plant at Hon'ble CM House, NEK SAMVAD BHAWAN	23 kWp	0.276
Solar Street Lighting System in Katihar district under District Minority Welfare Department	1425 Nos. (57.01 kWp)	2.19
Installation of 3.6 kWp off grid solar power plant at 27 locations LWE affected Police Stations	97.2 kWp	1.21
Installation of Solar Street Lighting System	157 nos.	0.274
B. BEE (Bureau of Energy Efficiency) Schemes		
Establishment of Energy Club in School	8 nos.	0.0264
Distribution of LED bulbs in selected 8 villages of Samastipur and Saran Districts	8 nos.	0.059
Model Energy Efficient Village Project	1 no.	0.025

For FY-2018-19

A. Solar Photovoltaic Scheme	Physical Achievement	Financial Outlay (Rs. crore)
Installation of 1kWp solar rooftop off-grid power plant Systems under Mukhyamantri Naveen & Naveekarniya Saurya Pump Scheme	744 nos.	11.15
Installation of 4 nos. of 40kWp solar off-grid power plant at Hon'ble Civil and Session court buildings at Gaya, Nalanda, Bhagalpur & Muzaffarpur districts under e-court mode mission	160 kWp	1.76
Installation of 5 kWp off grid solar power plant at 62 locations of BSEIDC	310 kWp	3.875
Installation of 3.6 kWp off grid solar power plant at 72 locations LWE affected Police Stations	259.2 kWp	3.24
Installation of 40 kWp off grid roof top solar power plant and 04 nos. of Solar Street Light at Mangal Talab, Patna under CSR initiative	40 kWp	0.446
Installation of 500 Wp off grid roof top solar power plant with 04 nos. of 9 W Street Lights at 25 nos. Police Stations in Gaya	12.5 kWp	0.31
Solar Water Pumping Systems installation under Mukhyamantri Naveen & Naveekarniya Irrigation Scheme	841 nos.	20.12
Distribution of Solar Home Lighting System through Jeevika in Muzaffarpur, Aurangabad, Jamui, Banka and Gaya dist.	3485 nos.	1.34
B. BEE (Bureau of Energy Efficiency)Sponsored Schemes		
Energy Efficiency in Govt. Schools : Provision of free appliance to the schools	23 nos.	0.16
Awareness campaign on Energy Conservation & Efficiency	5 nos.	0.17
Model Energy Efficient Village Campaign	1 nos.	0.06
Energy Audit at Hon'ble Governor House	1 nos.	0.03

For FY-2019-20		
A. Solar Photovoltaic Scheme	Physical Achievement	Financial Outlay (Rs. crore)
Installation of 90 nos. of Solar Street Light System at MangalTalab-Patna, Jamui and Munger dist.	30 nos.	0.05
Installation of Grid Connected Rooftop Solar Power Plants at 113 nos. of residential buildings all across Bihar under <i>Mukhya Mantri Navin Evam Navikarniya Rooftop Solar Sanyantra Adhishthapan Scheme</i>	583 kW	3.26
Installation of Grid Connected Rooftop Solar Power Plants at *122 nos. of different Govt. buildings in all across Bihar under <i>Mukhya Mantri Navin Evam Navikarniya Rooftop Solar Sanyantra Adhishthapan Scheme</i>	6.650 MW	34.35
Solar Water Pumping Systems installation under <i>Mukhyamantri Naveen & Naveekarniya</i> Irrigation Scheme	91 nos.	2.13
Installation of 30 nos. of Solar Street Light System at Rohtas Dist. Under Jal Jiwan Hariyali Schemes	30 nos.	.05

B. BEE (Bureau of Energy Efficiency) Sponsored Schemes		
Workshop for ECBC	02 nos.	0.04

For FY-2020-21		
A. Solar Photovoltaic Scheme	Physical Achievement	Financial Outlay (Rs. crore)
Installation of Grid Connected Rooftop Solar Power Plants at various PHC, Block Office, Schools and Panchayat Sarkar Bhawan approx. 1172 nos. of buildings under <i>Jal Jiwan Hariyali Yojana</i> all across Bihar	6.466 MW	32.65
Installation of Grid Connected Rooftop Solar Power Plants at 110 nos. of different Govt. buildings in all across Bihar under <i>Mukhya Mantri Navin Evam Navikarniya Rooftop Solar Sanyantra Adhithapan Scheme</i>	1.361 MW	7.07
Installation of Hybrid Solar Power Plant at Gaya, Kisanganj and Muzaffarpur Dist.	314 kWp	3.74

For FY-2021-22 upto 30th September-2021		
A. Solar Photovoltaic Scheme	Physical Achievement	Financial Outlay (Rs. crore)
Installation of Grid Connected Rooftop Solar Power Plants at various PHC, Block Office, Schools and Panchayat Sarkar Bhawan approx. 398 nos. of buildings under <i>Jal Jiwan Hariyali Yojana</i> all across Bihar	1.874 MW	9.43
Installation of Grid Connected Rooftop Solar Power Plants at 95 nos. of different Govt. buildings in all across Bihar under <i>Mukhya Mantri Navin Evam Navikarniya Rooftop Solar Sanyantra Adhithapan Scheme</i>	1.431 MW	7.25
Installation of 2 MW Floating Solar Power Plant in RESCO mode at Darbhanga dist	Work In Progress	-
Installation of 525 kWp Floating Solar Power Plant in CAPEX mode at Supaul dist.	Work In Progress	3.0
Installation of Hybrid Solar Power Plant at Gaya, Kisanganj and Muzaffarpur Dist.	95 kWp	0.22
Installation of Solar Street Lights at various panchayat of Rohtas and Kaimur dist. under Shyama Prasad Mukherji Rurban Mission	700 nos.	1.12