

## State: Goa

### ● Installed Capacity:

As on 30<sup>th</sup> April, 2025, a cumulative capacity of 59.63 MW Grid Connected Renewable Energy has been installed in the state of Goa which includes 57.64 MW Solar Power, 0.05 MW Small Hydro Power and 1.94 MW Bio-Power.

State has share of Renewable energy ie 8.86%. The total electricity capacity installed from various sources is tabulated below:

Source	Installed Capacity (in MW)
Thermal	559.96 (84.83%)
Nuclear	41.68 (6.31%)
Renewable Energy (RE)	58.43 (8.86%)
Total	660.07

For the FY 2023-24, RPO achieved by the State:

WPO	HPO	Other	Total
183%	83%	74%	80%

### ● PM Surya Ghar: Muft Bijli Yojana

As on 04.05.2025								
Application (Nos.)	Residential Installations (No.)	RWA		Total No. of Installations	Total No. of HHs covered	Subsidy Release (Nos.)	Subsidy Release (in cr.)	No. of Vendors
		No. of Installations	No. of Houses					
a	b	c	d	e=b+c	f=b+d	g	h	i
4,667	623	4	284	627	907	485	3.81	114

### ● PM-KUSUM Scheme:

Component-A (MW)		Component-B (Nos.)		Component-C (Nos.)	
Sanction	Achievements	Sanction	Achievements	Sanction (FLS)	Achievements
50	0	900	100	11000	700

#### Status:

- The PM KUSUM (Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan) scheme aims to enhance farmers' income and ensure sustainable agricultural practices by promoting solar energy solutions.
- Being a demand driven scheme, based on **Goa's** demand, the state has been allocated significant resources under this scheme to improve the renewable energy infrastructure for the agricultural sector.
- Under Component A, the state was initially allocated 150 MW; however, the allocation was subsequently revised to 50 MW. To date, the state has not issued the Letter of Award (LOA) or Power Purchase Agreement (PPA), and no installation has been carried out.
- Under Component B, the state has an allocation of 900 solar pumps. The LOA have been issued for 200 pumps, and 100 pumps has been installed.

- Under Component C (FLS), the state was allocated 11,000 pumps. 700 pumps has been installed.

The allocations and cancellation for Goa under all the Components are follows:

Component	Allocation	Surrender/ Cancellation	Remarks
Component A	50 MW vide order dated 05.03.2021		EOI floated for 50 MW
	100 MW vide order dated 28.06.2023	100 MW vide Order dated 31.01.2025	
Component B	200 Pumps vide order dated 13.01.2021		100 pumps installed
	700 Pumps vide order dated 27.09.2023		
Component C (FLS)	7000 Pumps vide order dated 13.01.2021		700 pumps have been installed
	4000 Pumps vide order dated 21.06.2021		

- **National Green Hydrogen Mission:**

- **Policy:** The Green Hydrogen Policy of the state is yet to be announced.
- **Projects:**
  - Investments worth Rs. 10 billion have been planned towards green manufacturing, which will help create over 10,000 jobs for Goa youth until 2028.
  - In line with the government's ambitious target to decarbonise all sectors of the economy by 2050, the Goa government is in talks with Paradeep Phosphates, BITS Goa and NIT Goa to develop Green Hydrogen and green Ammonia plants for energy generation.

- **Biomass Power Division:**

- Biomass Power Potential – 32.97 MWe
- Biomass (IPP) Installed Capacity – Nil
- Biomass (Bagasse) Cogeneration Installed Capacity – Nil
- Biomass (Non-Bagasse) Cogeneration Installed Capacity – Nil

- **Waste to Energy:**

As on 30.04.2025, 3 Waste to Energy projects with total installed capacity of 1.94 MWeq of has been set up in the State of Goa.

- **SHP Programme:**

Potential

7 SHP sites (upto 25 MW capacity) aggregating to 4.70 MW has been identified in the State.

Projects installed

1 SHP projects with a capacity of 50 KW have so far been installed in the State.

There is no activity of SHP in the state.

- **Solar Off-grid Programs:**

The cumulative number of Off-Grid SPV applications installed/distributed as of 30.04.2025 are tabulated below:

<b>Solar Home Lights (in Nos.)</b>	<b>Solar Lamps/ Lanterns (in Nos.)</b>	<b>Solar Street Lights (in Nos.)</b>	<b>Solar Power Packs (in kWp)</b>
393	1093	707	32.72

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