

PM-DHARA Scheme - Green Energy Transmission

Prelims: *Current events of national and international importance | Government Policies & Interventions*

Why in News?

Recently, the Union Cabinet approved **PM-DHARA** to strengthen **intra-State transmission systems**.

PM-Developing Harmonized and Accelerated Renewable-energy Access

PM-DHARA Scheme

PM-Developing Harmonized and Accelerated Renewable-energy Access



Scheme Overview

	Scheme	PM-DHARA
	Full form	PM-Developing Harmonized and Accelerated Renewable-energy Access
	Total project outlay	₹1,86,405 crore
	Implementation period	Till FY 2032-33
	Renewable energy evacuation	Up to 135 GW
	BESS capacity	50 GWh
	Central Financial Support	₹54,082 crore
	Implementing agencies	State Transmission Utilities



Major Components

Component	Allocation	Purpose
Intra-State Transmission System under Green Energy Corridor Phase-III	₹1,36,378 crore	Strengthen intra-State transmission
Battery Energy Storage Systems (BESS)	₹50,000 crore	Improve grid flexibility
Total	₹1,86,405 crore	—

Project Implementation

Project type	Implementation mechanism
Greenfield projects	Tariff Based Competitive Bidding (TBCB)
Brownfield upgradation/network strengthening	Cost Plus Basis (CPB)
Overall implementing agencies	State Transmission Utilities (STUs)
TBCB project providers	Transmission Service Providers
Operating model	Build-Own-Operate-Maintain (BOOM)

- **Aim** - To facilitate evacuation of up to **135 GW of renewable energy**.
- **Implementation by** - FY 2032-33.
- **Financial allocation** - Rs.54,082 crore as Central Financial Support.
 - This funding is designed to offset **intra-State transmission charges**.
 - The initiative aims to maintain lower electricity costs and provide benefits to consumers.

Battery Energy Storage Systems (BESS)

- A total of 50 GWh of Battery Energy Storage Systems (BESS) will be deployed at the following locations:

- Sites operated by renewable energy developers or generators.
- Other locations that are critical for enhancing **grid flexibility**.

- **Rationale for Deploying BESS**

- Mitigates the intermittency associated with renewable energy sources.
- Reduces congestion within the transmission network.
- Decreases curtailment during peak demand periods.
- Provides electricity supply during periods without solar generation.
- Enhances the integration of renewable energy into the electrical grid.

- **Alignment with India's Energy Transition** - PM-DHARA facilitates the following objectives:

- Expansion of **renewable and non-fossil energy sources**
- Enhanced integration of renewable energy into the national grid
- Development and deployment of advanced energy storage solutions
- Strengthening of national energy security
- Reduction of the national **carbon footprint**
- Achievement of India's target of **900 GW installed non-fossil energy capacity by 2035**

Reference

[DD India | PM-DHARA Scheme](#)