

WORKSHOP

ENHANCING THE ROLE OF REDAs IN THE NEXT PHASE OF RE GROWTH



**Session 1: Inaugural
iFOERST Presentation: Setting the Context**

August 18, 2023

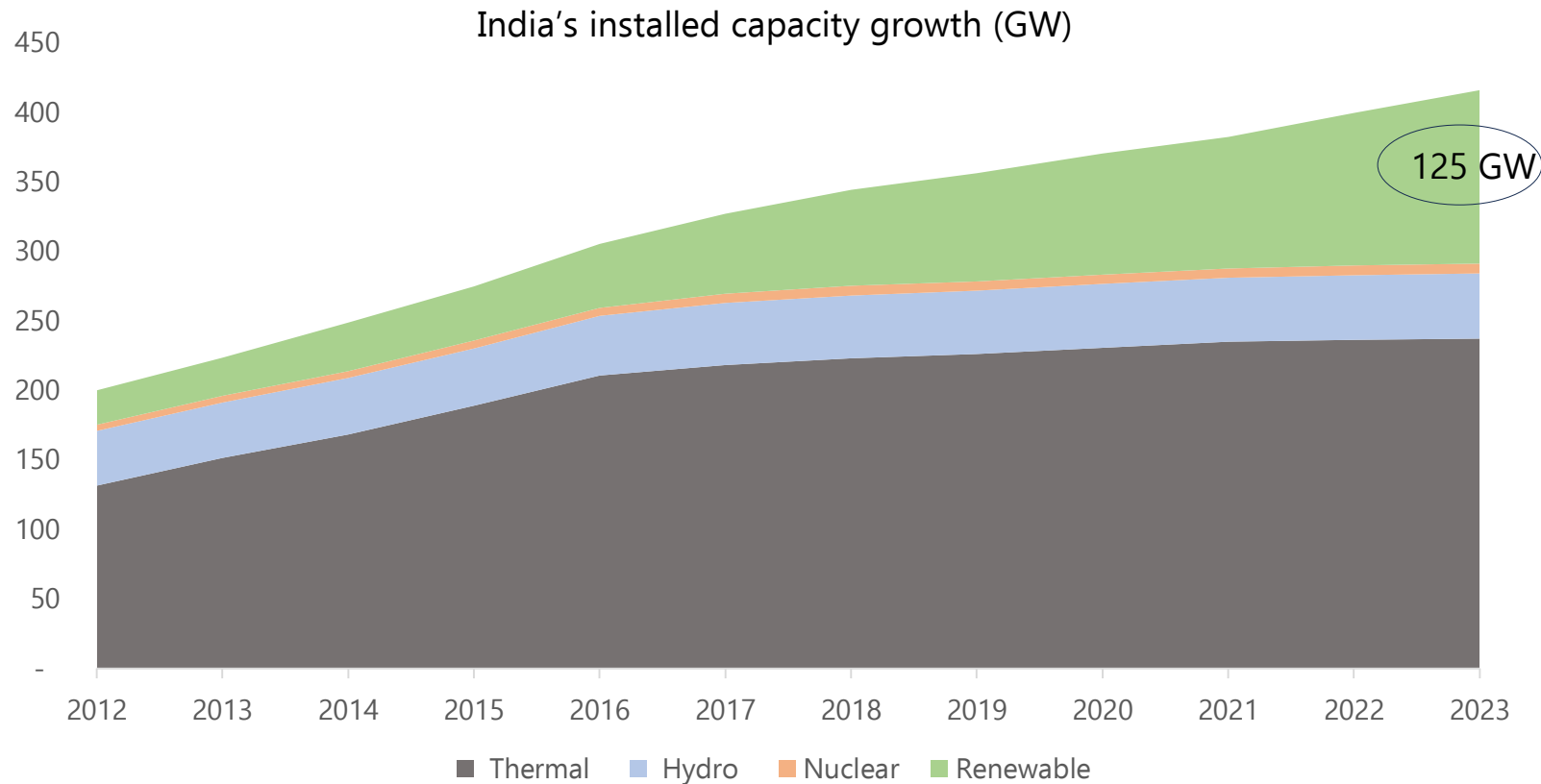
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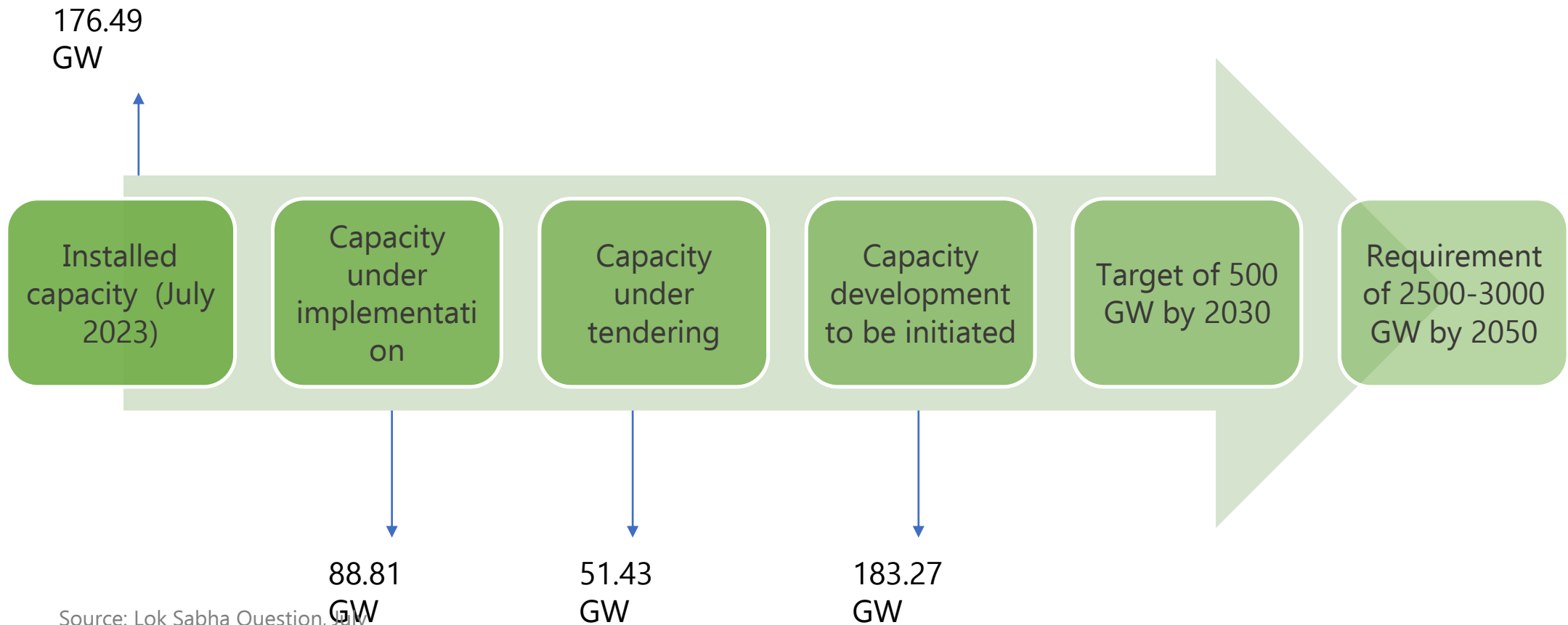
India's impressive RE installed capacity growth

- Over 100 GW of RE and thermal capacity has been added in India since 2012.
- As growth of thermal slowed down in recent years, with 11 GW added since 2019, RE capacity increased 48 GW.



Demanding path to future RE ambitions

- Given the significant immediate target and massive long-term need, success hinges on how efficiently barriers to growth can be addressed.



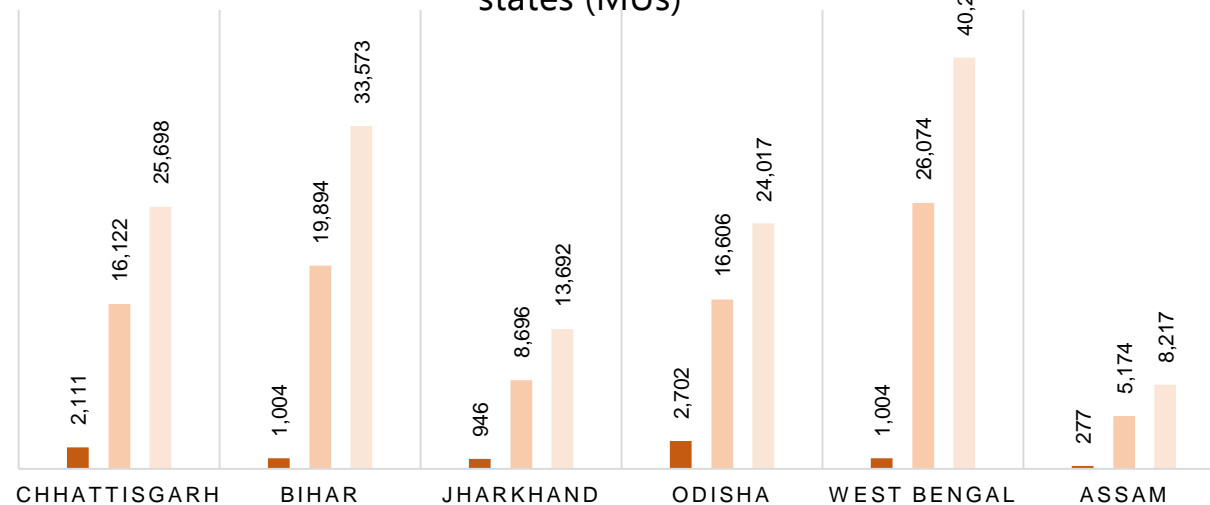
Source: Lok Sabha Question, July 2023

Projected increase in RE procurements

- To meet the RPO requirements by 2030, RE generation would need to increase five times.
- Several 'low-RE' states would need to increase the RE procurement 10 to 30 times relative to the current level of procurement.

India's total RE generation in 2022-23	203,552 MUs
Projected RE procurement requirement in 2026-27	685,866 MUs
Projected RE procurement requirement in 2031-32	1,071,887 MUs

Existing and required RE consumption in low RE states (MUs)



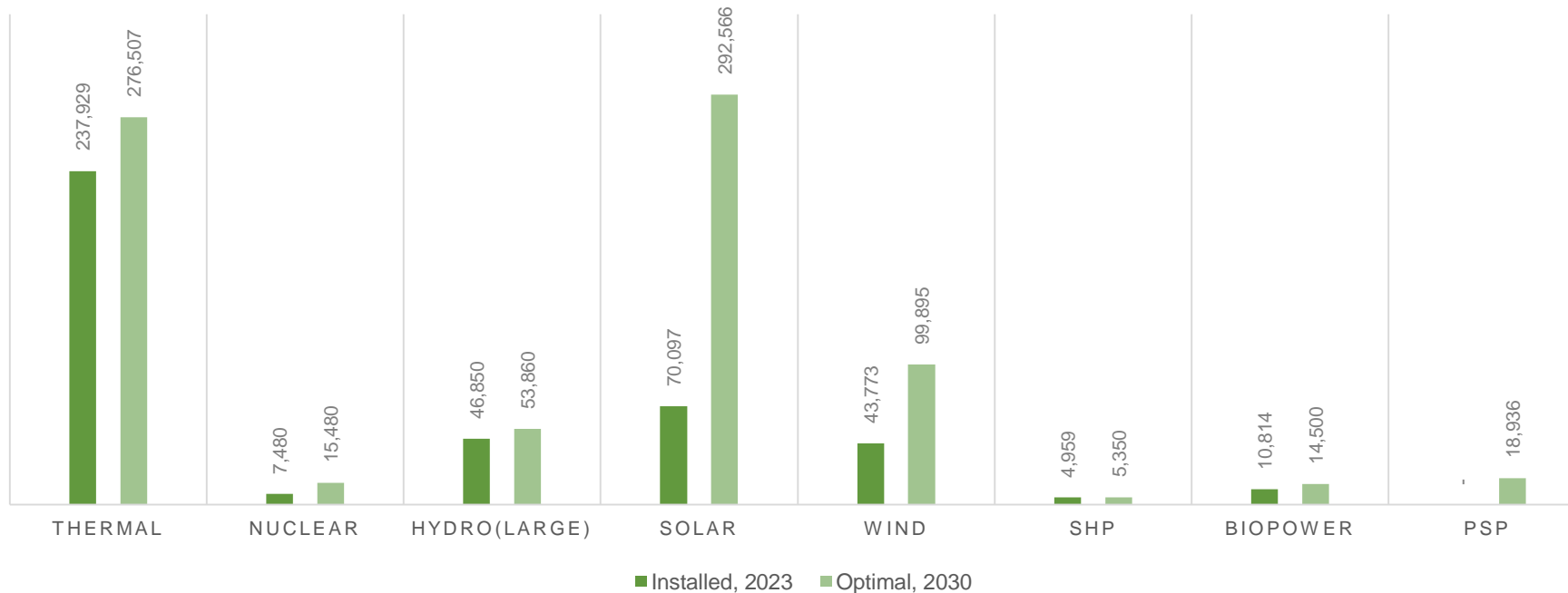
Source for 2021-22: Respective SERCs; 2021-22 2026-27

Note: Projections for 2031-32 is based on the notified non-hydro RPO requirement for 2029-30

Source-wise optimal RE growth by 2030

- RE growth will continue to be driven by solar, but a more balanced growth needs to be planned going forward for grid optimization.

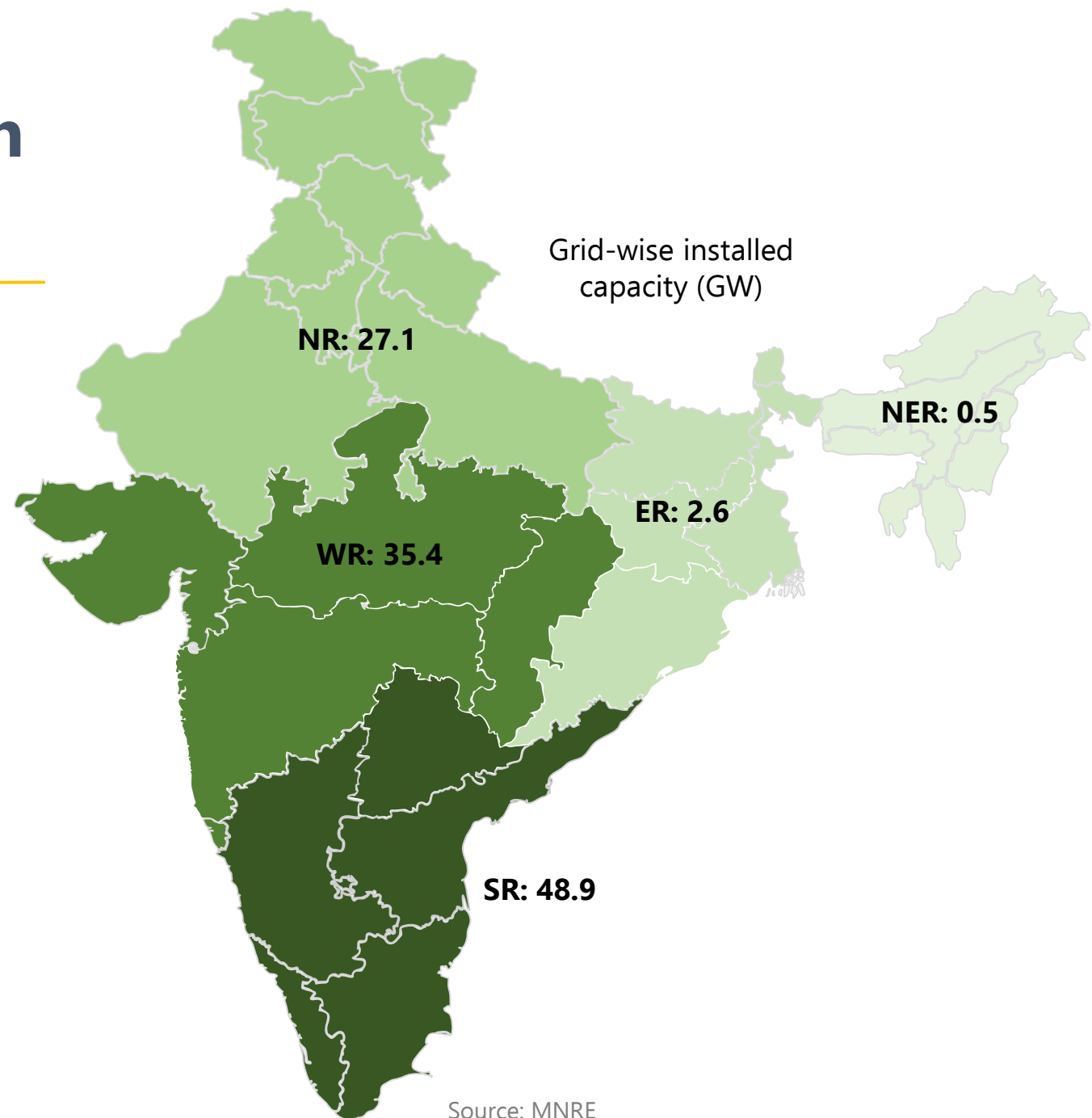
Source-wise current installed and future optimal installed capacity (MW)



Note: Base optimal scenario as per CEA 2023 study; includes BESS of 41,650 MW/208,250 MWh

Challenge – Disparity in RE growth and state capacity

- RE growth has so far been limited to six to seven states.
- Most REDAs struggle with limited capacity, experience and expertise.
- Significant scope for knowledge sharing, capacity building and deliberations on new strategies.



Growing attention on this issue

80% Of India's Solar Projects Planned In Only 5 States

By Saur News Bureau / Updated On Fri, Jul 28th, 2023



Highlights :

- MNRE Minister RK Singh shared the latest data before the Lok Sabha in response to a starred question on the issue.
- Around 10 states do not have any ongoing solar projects in hand, the report said.

Outlook

Decoding Regional Disparity In India's Renewable Energy Growth

Accounting for less than 2% of India's renewable energy capacity, states like West Bengal, Jharkhand and Odisha have other priorities.

Five Indian States Take 87% Of PM-KUSUM Benefits

By Saur News Bureau / Updated On Wed, Aug 2nd, 2023



Highlights :

- Rajasthan, Haryana, Uttar Pradesh, Punjab, and Madhya Pradesh account for 87.24 percent of the total benefits under the PM-KUSUM scheme.
- Northeastern states of Mizoram, Assam, Meghalaya, Nagaland and southern states still are behind in expanding the scheme.

FINANCIAL EXPRESS

India's renewables disparity

'Price-equalisation' policies, mirroring some pre-liberalisation schemes, are distorting spatial distribution of renewable energy generation

Future of REDAs



What will be the role of REDAs beyond traditional scope of work (MNRE and state scheme implementation)?



What needs to be done to strengthen REDAs of low-RE states?



What are the national and state policies needed for balanced RE growth?



What reforms are needed in the national and state policies to meet the massive RE growth targets?

Workshop objective & agenda

Objective: To develop a roadmap and reform agenda for REDAs, deliberate on institutional challenges, and identify strategies for the future.



Thank you, and Welcome!
