

Indo –German Energy Forum



GEC–I & II : Current Position



Power Grid Corporation of India Ltd.

19.05.16

Green Energy Corridor-I

- RE Capacity addition envisaged (12th Plan) – 33 GW

— *Tamil Nadu, Rajasthan, Karnataka, Andhra Pradesh, Maharashtra, Gujarat, Himachal Pradesh and Jammu & Kashmir.; Madhya Pradesh also included subsequently*

- Green Energy Corridor-I includes :

– Intra State Transmission System : Rs 13,331 Cr

– Inter State system : Rs 15,280 Cr

➤ Transmission Scheme : Rs 11,369 Cr (*Rs 7431 Cr scheme under KFW financing, Rs 3938 Cr scheme under ADB financing*)

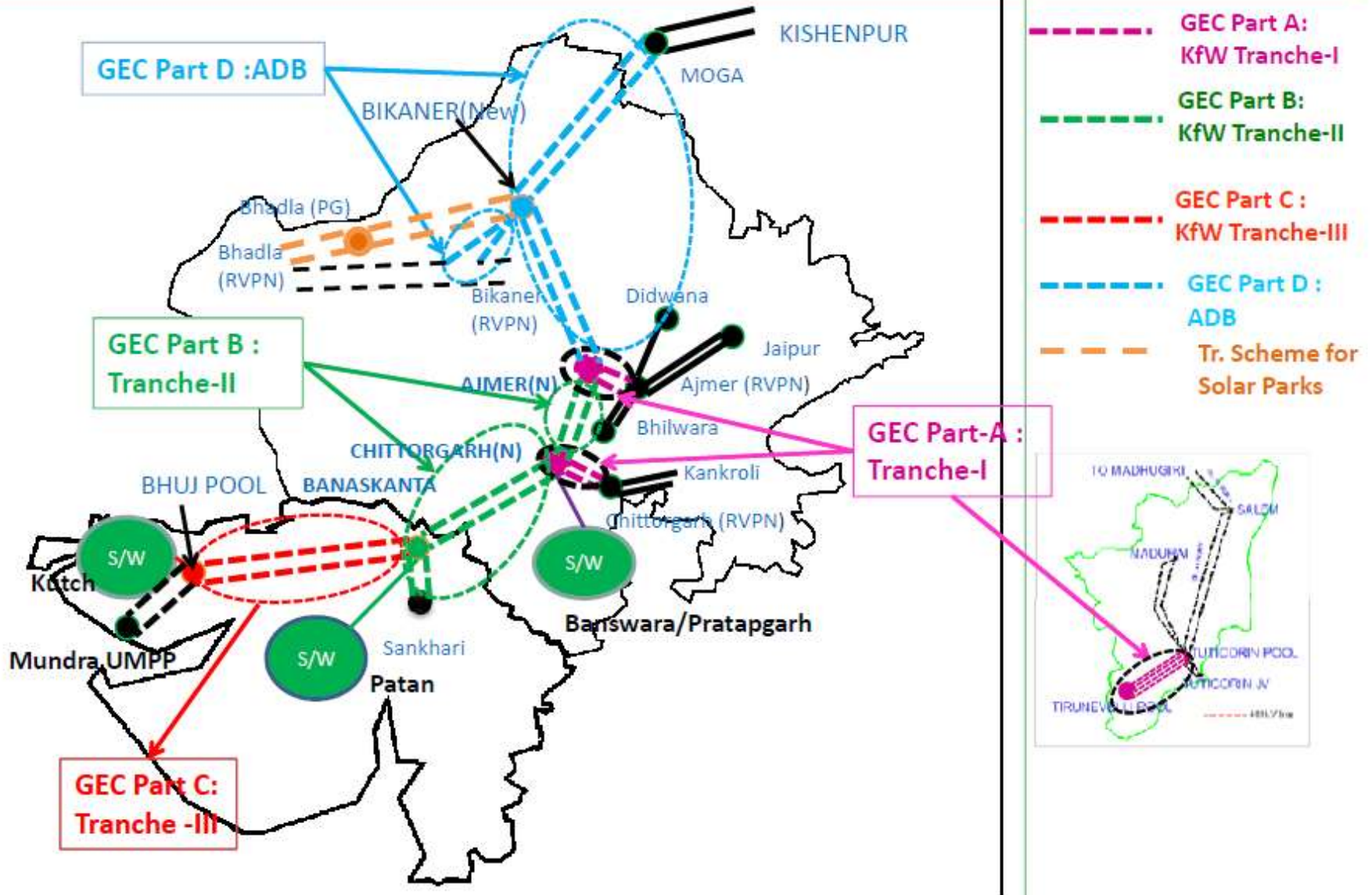
➤ Dynamic compensation : Rs 1204 Cr,

➤ Renewable Energy Management Centre : Rs 234 Cr

➤ Real time monitoring : Rs 473 Cr

➤ Energy Storage : Rs 2000 Cr

Green Energy Corridors-ISTS



Status : Green Energy Corridors-I

Major elements of **Inter state transmission scheme (ISTS)** are already awarded & are under various stages of implementation

S.No	Project	Status	Implementation Schedule
1	KFW Tranche-I	Under Implementation	Progressively from Apr'17
2	KFW Tranche-II	Under Implementation	Progressively from Apr'17
3	KFW Tranche-III	Major part under implementation	Progressively from Jul'18
4	ADB-GEC Part-D	Major packages Awarded	Progressively from Mar'18

Renewable Energy Management Center

- Establishment of Renewable Energy Management centers (REMC) envisaged as part of control infrastructure of Green Energy Corridors at RE resource rich states (7) and respective RLDCs (3) and NLDC
- All Renewable Energy Management Centers (REMCs) at State, Regional & National level were proposed to be co-located with respective Load dispatch centers
- REMC Functionalities
 - Forecasting of RE generation in area of jurisdiction on day-ahead, hour-ahead, week-ahead basis
 - Real time tracking of generation from RE sources and its geo-spatial visualization
 - Close coordination with respective LDC for RE generation and control for smooth grid operation
 - Single source information repository and coordination point for RE
- Estimated Cost of REMC under Green Energy Corridors- ₹ 234 Cr, which will be supported by the Grant from Government of India



Status of REMC- under GiZ TA

- German Govt. through GiZ, Germany is providing technical assistance (2 million Euro) for preparation of REMC DPR, forecasting, balancing, market design and network management
- Nine (9) Renewable Energy Management Center (REMC) DPRs for state/RLDC have been submitted by GIZ consultant (E&Y). WRLDC/NLDC DPRs are under preparation by the consultant.
- Technical Specification of Tender document has been submitted by PGCIL for stakeholders observations
- Southern Region package to be first taken up for tendering. Target- 4th week of June'16 (based on stakeholder approvals)

Green Energy Corridor-II

MNRE has identified 34 no. of solar parks of about 20,000MW capacity in various states

- **Intra State** : Twenty three (23) solar parks of about 11,380 MW capacity
- **Inter State** : Eleven (11) solar parks of about 8620 MW solar park capacity envisaged in seven states
 - Eight (8) solar parks (7200MW) [Ananthapur (1500 MW), Pavagada (2000 MW), Rewa (750 MW), Bhadla-III (500 MW), Bhadla-IV (250 MW), Essel (750 MW), Banaskantha (700MW) & Neemuch & Agar (750 MW)] is being implemented by POWERGRID



Green Energy Corridor-II : ISTS Status

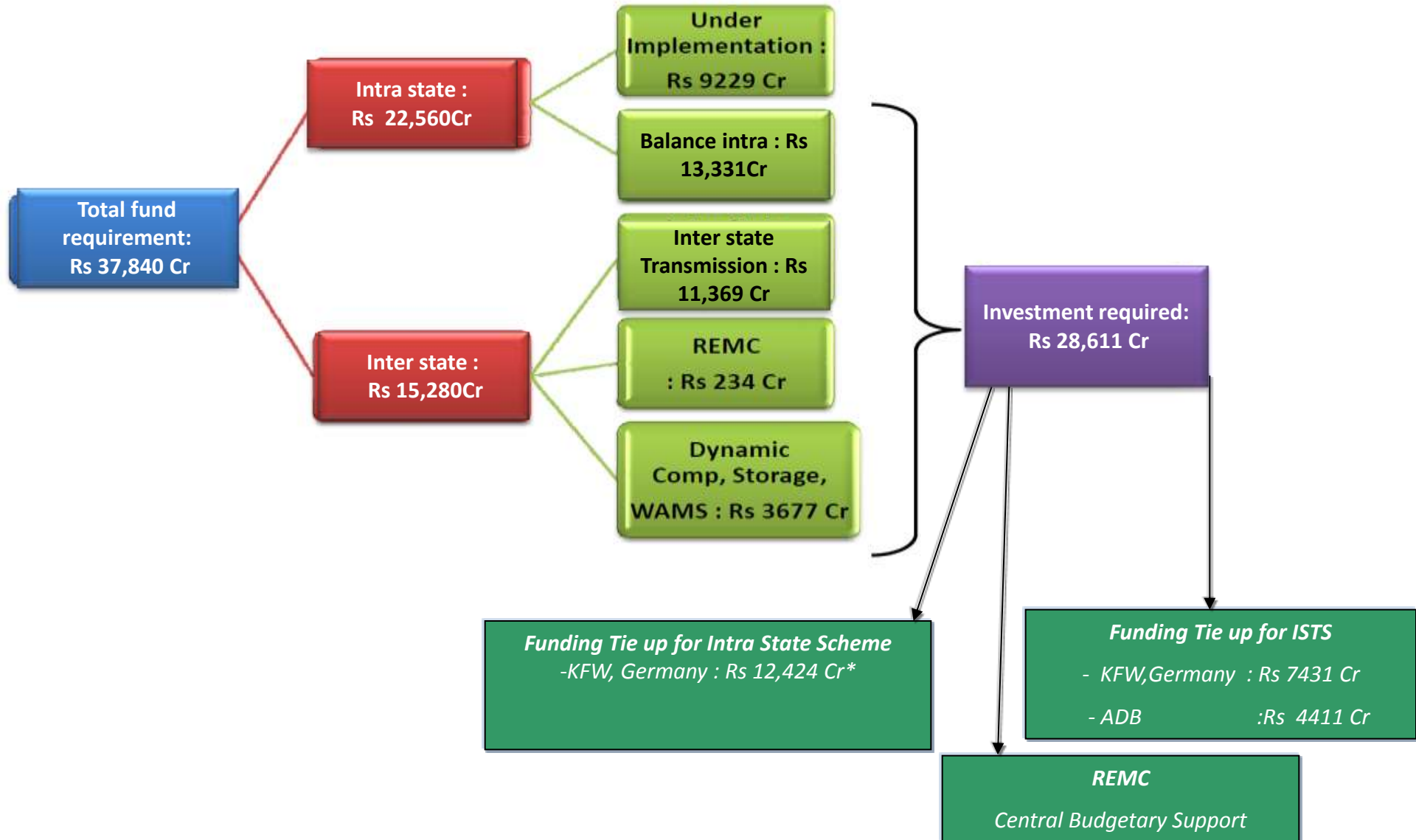
S.No	Solar Park	Capacity	Status	Implementation Schedule
1	NP Kunta , AP	Ph-I : 250MW Ph-II : 750 MW Ph-III : 500MW	Ph-I : Commissioned Ph-II & III : Under Implementation	Ph-II : Apr'17 Ph- III : Sep'17
2	Rewa , MP	750MW	Under Implementation	Jun'17
3	Tumkur, Karnataka	Ph-I : 1000MW Ph-II : 1000 MW	Ph-I : Under Implementation Ph-II : Tendering under process	Ph-I : Progressively from Jun'17 Ph-II : Progressively from Mar'18
4	Bhadla , Rajasthan	Ph-III : 500MW Ph-IV : 250 MW Essel : 750MW	NIT done, Award in Jun'16	Progressively from Dec'17
5	Banaskantha , Gujarat	700MW	Tendering under process	Dec'17

LTA application awaited for Neemuch & Agar solar park (750 MW) in MP

A bright blue sky with a diagonal streak of white, fluffy clouds. The clouds are concentrated in a diagonal line from the bottom-left towards the top-right. The rest of the sky is a clear, vibrant blue.

Thank you

Green Corridors- Fund Requirement



** Karnataka Intra TS-Rs 906 Cr not included