

»» Green Energy Corridors Current Status

Indo- German Energy Forum

Ramya Parijat

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Bank aus Verantwortung

KFW

»» Progress so far...

17 December 2014

KfW inks loan agreement worth EU 625 mln for financing GEC in India



India and Germany have taken a steps closer towards strengthening their relations as the German Government's Development Bank KfW on behalf of the Federal Ministry for Economic Cooperation and Development (BMZ) inked three loan agreements totaling 625 Million Euros for financing the Green Energy Corridors (GEC) in India.

In this regard, a Note of Exchange, signed by German Ambassador Michael Steiner, was presented to Rajiv Mehrishi, Finance Secretary.

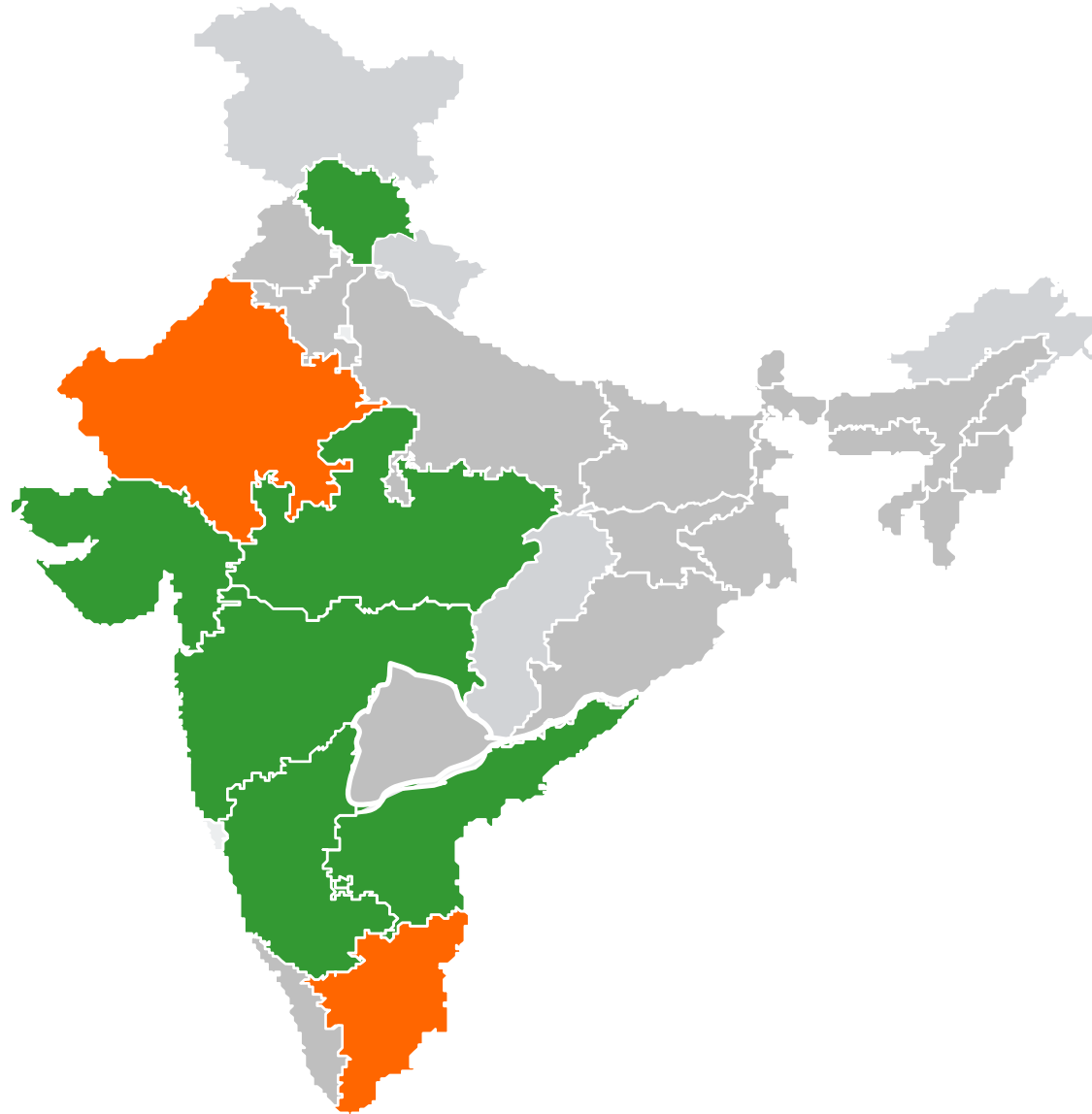
»» Signed Loan Agreements

Inter State/ POWERGRID	Equity (30%) (Rs Cr)	Debt (70%) (Rs Cr)	Total (Rs Cr)	Total (EUR Mio.)	KfW Loan (EUR Mio.)
Tranche I+II+III	2239	5224	7463	1066	500

*Loan
signed for
complete
Inter State
part of
GEC*

Intra State	Equity (20%) (Rs Cr)	Grant (NCEF) (40%) (Rs Cr)	Debt (40%) (Rs Cr)	KfW Loan (EUR Mio.)	Total (Rs Cr)	Total (EUR Mio.)
Tamil Nadu	319	637	637	76	1593	228
Rajasthan	204	407	407	49	1018	145
Sub Total	522	1044	1044	125	2611	373

»» Intra State Projects in GEC



»» GEC Planning: Tranche II

Intra State	Equity (20%) (Rs Cr)	Grant (NCEF) (40%) (Rs Cr)	Debt (40%) (Rs Cr)	Debt (EUR Mio.)	Total (Rs Cr)	Total (EUR Mio.)
Andhra Pradesh	258	516	516	74	1290	184
Gujarat	393	785	785	112	1963	280
Himachal Prd.	186	372	372	52	910	130
<i>Madhya Pradesh</i>	<i>200</i>	<i>400</i>	<i>400</i>	<i>57</i>	<i>1000</i>	<i>143</i>
Sub total	1037	2073	2073	295	5163	738

Based on information provided by CEA in December 2014

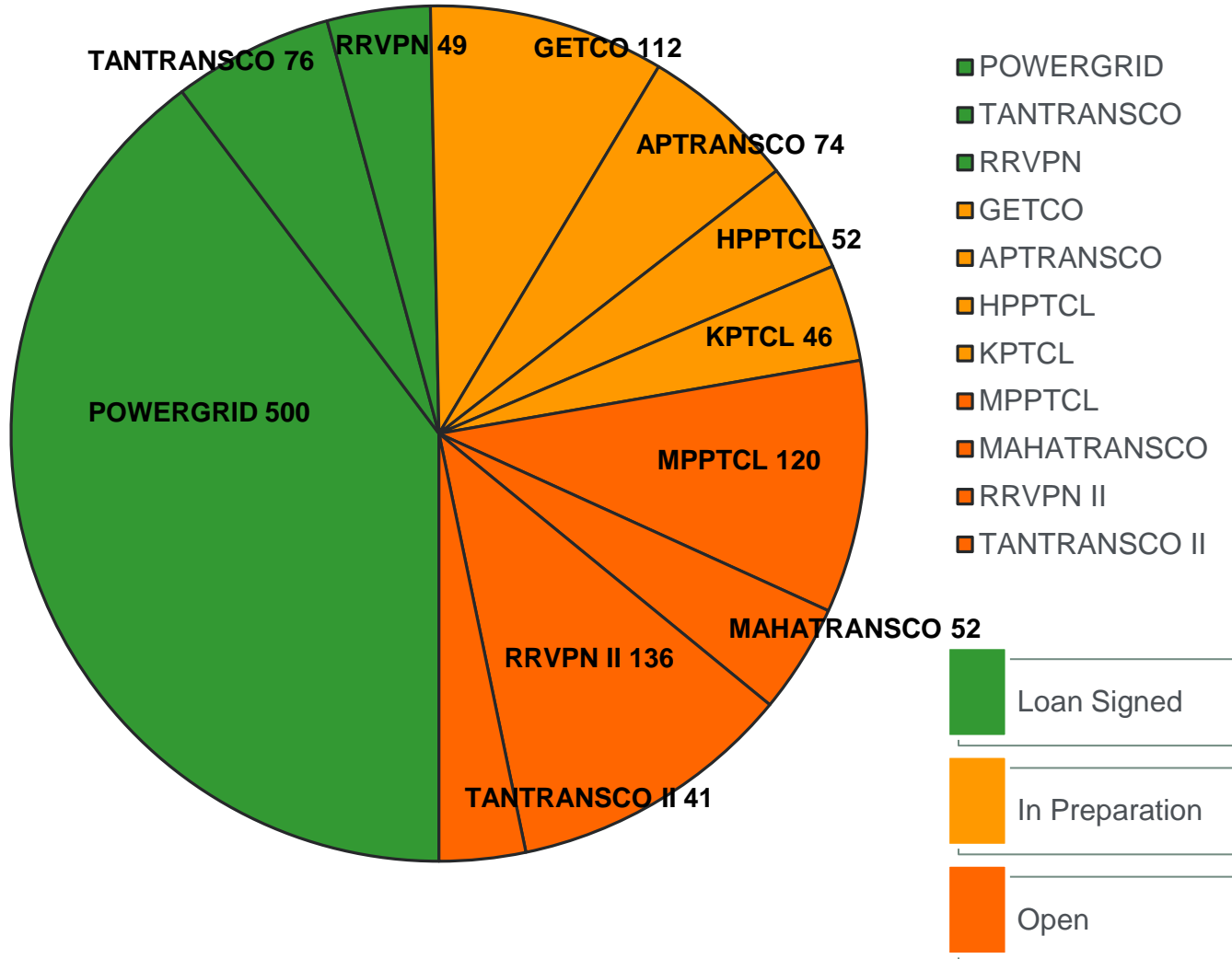
»» GEC Planning: Tranche III

Intra State	Equity (20%) (Rs Cr)	Grant (NCEF) (40%) (Rs Cr)	Debt (40%) (Rs Cr)	Debt (EUR Mio.)	Total (Rs Cr)	Total (EUR Mio.)
Karnataka	219	438	438	46	800	114
Maharashtra	183	366	366	52	916	131
Rajasthan	476	952	952	136	2381	340
Tamil Nadu	132	264	264	41	720	103
Madhya Pradesh	220	440	440	63	1100	157
Sub total	1230	2461	2461	338	5917	845

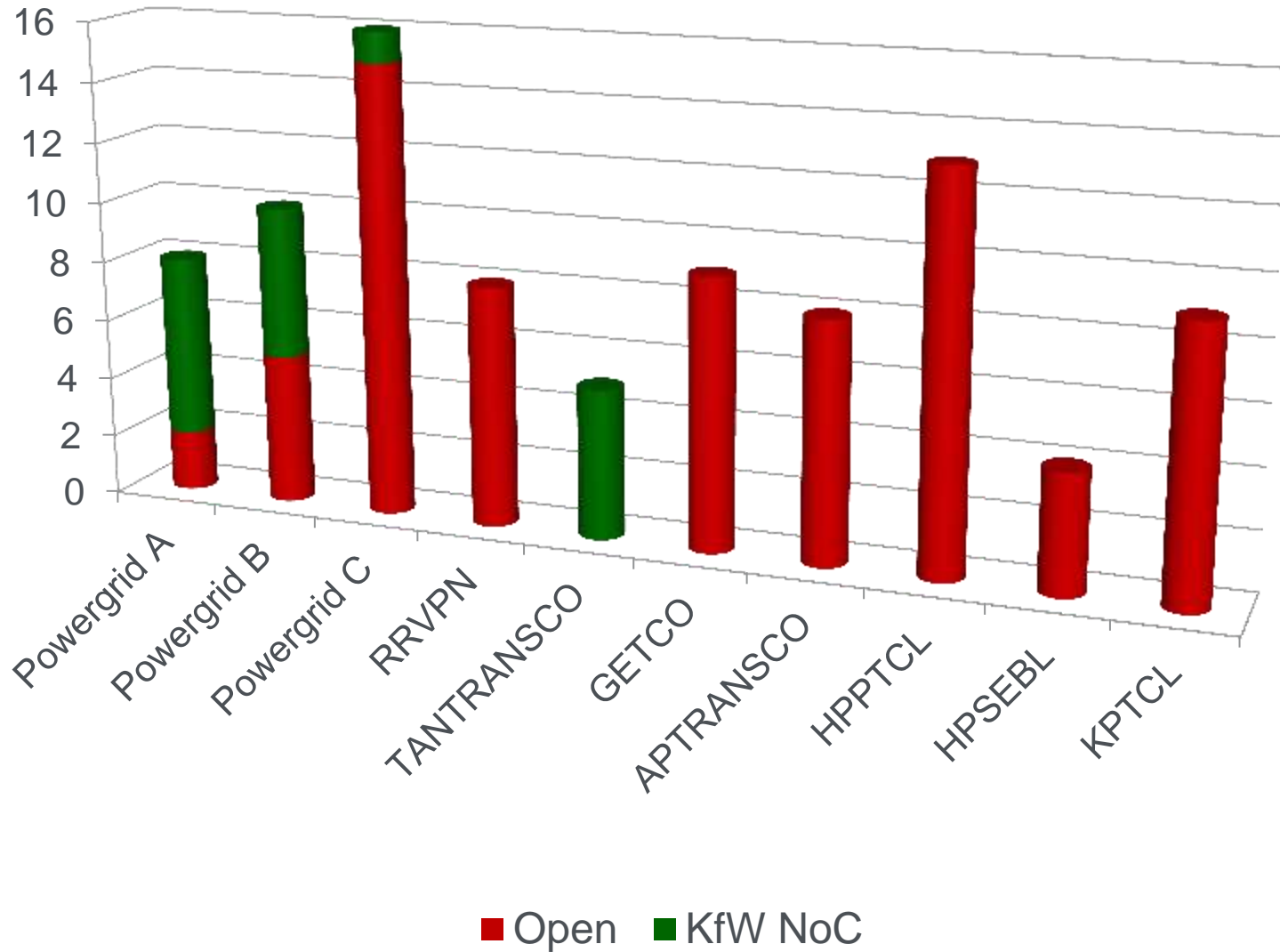
Based on information provided by CEA in December 2014

»» Debt Requirement : EUR 1258 Mio.

In Mio. Euro



»» Implementation





Components Financed under Signed Loan Agreements

PGCIL DPR-A

- P-A.1: 57 km 400 kV Ajmer New – Ajmer (RVPN) – TW01
- P-A.2: 25 km 400 kV Chittorgarh New – Chittorgarh (RVPN) – TW01
- P-A.3: Substation Chittorgarh 765/400 kV (SS01)
- P-A.4: Substation Ajmer 765/400 kV (SS02)

PGCIL DPR-B

- P-B.1: 199 km 756 kV Chittorgarh New – Ajmer New (TW01-TW03-765kV)
- P-B.2: 285 km 765 kV Banaskanta - Chittorgarh New (TW04-TW07)
- P-B.3: Extens. Substation Chittorgarh 765/400 kV (SS01)
- P-A.4: Substation Banaskanta 765/400 kV (SS02)

RVPN DPR-A

- R-A.1: 130 km 400 kV Jaisalmer 2 – Barmer
- R-A.2: 140 km 400 kV at Jaisalmer 2- Bhinmal
- R-A.3: 50 km 400 kV at Jaisalmer2-Akal
- R-A.4: 70 km 220 kV Undoo – Pokaran
- R-A.5: 15 km 220 kV Kolayat-Gajner + 10km -132 kV LILO Kolayat –Bajju
- Grid Substation JAISALMER2 400/220kV
- Grid Substation UNDOO 220/132 kV
- Grid Substation KOLAYAT 220/132 kV
- Grid Substation CHHATRIL 220/132 kV
- Grid Substation BAJJU 220/312 kV



PGCIL DPR-B

P-B.5: 100 km 400 kV
Banaskanta – Sankhari

PGCIL DPR-C

P-C.1: 310 km 765 kV
Bhuj Pool –
Banaskanta (TW01-
TW05)



PGCIL DPR-A

P-A.5: 54 km 400 kV Tirunelveli – Tuticorin;

Line 1

P-A.6: 56 km 400 kV Tirunelveli – Tuticorin;

Line 2

TANTR DPR-A

Thennampatty 400/230-110 kV GSS

T-A.1: 56 km 400 kV Thenampatty - Kayathar

T-A.3: 37 km 400 kV Kayathar - Kovilpatti

T-A.5: 180 km 400kV Rasipalayam - Singarapet

T-A.6.1: 55 km 230 kV Kayathar – Tuticorin

T-A.6.2: 55 km 230 kV Veeranam - Tirunelveli

T-A.6.3: 25km 230 kV Veeranam - Kodikurichi

T-A.6.4: 65 km 230 kV Ingur - Arasur

T-A.6.5: 95 km 230 kV Arasur - (PGCIL) Gobi

T-A.6.6: 180 km 230 kV Cuddalore - Neyveli

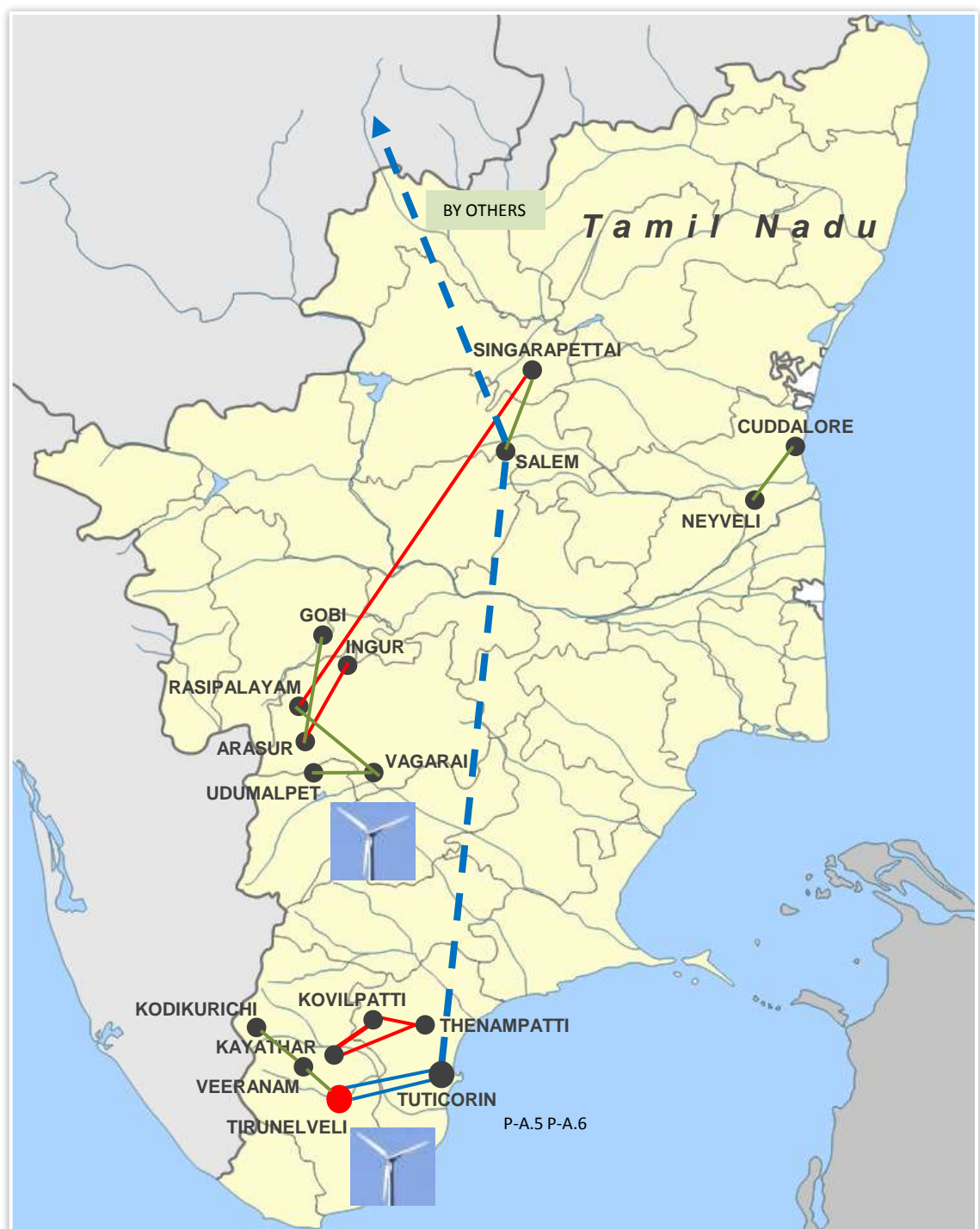
Various Bay extensions & augmentation of Transfo capacity

TANTR DPR-B

T-B.2.1: 100 km 400 kV Vagarai - Rasipalayam

T-B.2.2: 40 km 400 kV Vagarai - Udumalpet (PGCIL)

T-B.2.3: 90 km 400 kV Salem - Singarapet



»» Green Energy Corridors

Thank You

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