

Review of "24x7 Power For All"

State : Andhra Pradesh

Ministry of Power
Government of India

Roll out plan for PFA

Rollout Plan :

SI No	Plan	Existing Capacity	Rollout Plan					Total	Total of Existing Capacity and Target
			2014-15	2015-16	2016-17	2017-18	2018-19		
Generation									
1	State Hydro (MW)	1766	78.4	69.2	41.5	0	0	189.1	1955.1
2	State Thermal-Coal (MW)	2348	737.8	276.7	276.7	0	0	1291.2	3639.2
3	CGS	1615	122.1	263.8	157.5	294	95.8	933.2	2548.2
4	Others-Private	1181	239.8	470.3	484.2	0	0	1194.3	2375.3
	RES	1397							1397
	Total	8307	1178.1	1080	959.9	294	95.8	3607.8	11,914.8
Transmission (Inter-State)									
1	New Substation (Nos)	8	1	2	2	0	0	5	13
2	New Line (Ckt Km)	5,250	2,440	650	1,070	0	5,100	9,260	14,510
Transmission (Intra-State)									
1	New Substation (Nos)	245	15	35	44	15	12	121	366
2	New Line (Ckt Km)	18,907	345	1,460	2,132	520	270	4,727	23,634
3	Transformation Capacity (MVA)	28,467.50	879	0	0	0	0	879	29,346.50
4	Transmission line availability(%)	99.96	100	100	100	100	100	-	0
Green Energy Corridor									
1	Substation (Nos)	0	0	0	0	0	1	1	1.00
2	Line (Ckt Km)	0	0	0	0	0	870	870	870.00

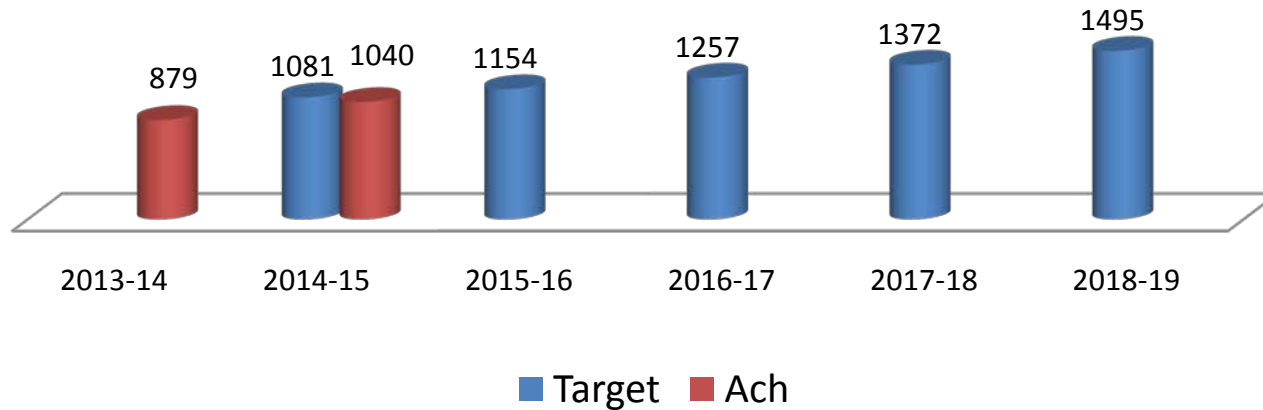
Rollout Plan :

SI No	Plan	Existing Capacity	Rollout Plan					Total	Total of Existing Capacity and Target
			2014-15	2015-16	2016-17	2017-18	2018-19		
Distribution									
1	AT & C Losses (%)	11.02	13.13	12.88	12.58	12.28	12	-	-
2	33/11 KV Substations (Nos)	2,524	249	213	203	178	195	1,038	3,562
3	Households to be electrified (Nos)	1,30,60,752	1,37,337	2,23,125	2,23,125	0	0	5,83,587	1,36,44,339
4	Financial Restructuring Plan (Nos)	6,854.15	1,011.54	1,011.54	1,292.34	1,292.34	280.80	4,888.56	11,742.71
5	Village Electrification (Nos)	16,355	0	0	0	0	0	0	16,355
6	24 X 7 supply to Towns (Nos)	0	18	36	18	0	0	72	72
Renewable Energy									
1	Solar Power (MW)	62.15	30	800	1,200	1,500	1,500	5,030	5,092.15
2	Wind Power (MW)	731.02	250	600	800	1,000	1,500	4,150	4,881.02
3	Solar Rooftop grid connected(MW)	0	10	10	10	10	10	50	50
4	Solar off grid (MW)	0.59	5	5	5	5	5	25	25.59
5	Solar Pumpsets (Nos)	0	10,000	10,000	10,000	10,000	10,000	50,000	50,000
Energy Efficiency									
1	LED Distribution-Households (Nos)	0	3,00,000	12,00,000	12,00,000	12,00,000	12,00,000	51,00,000	51,00,000
2	Agriculture Pumpsets (Nos)	0	14,000	1,00,000	1,40,000	1,80,000	1,80,000	6,14,000	6,14,000
3	Street Light Replacement (Nos)	0	85,000	1,50,000	1,50,000	1,28,000	0	5,13,000	5,13,000

Generation Plan

Per Capita Consumption

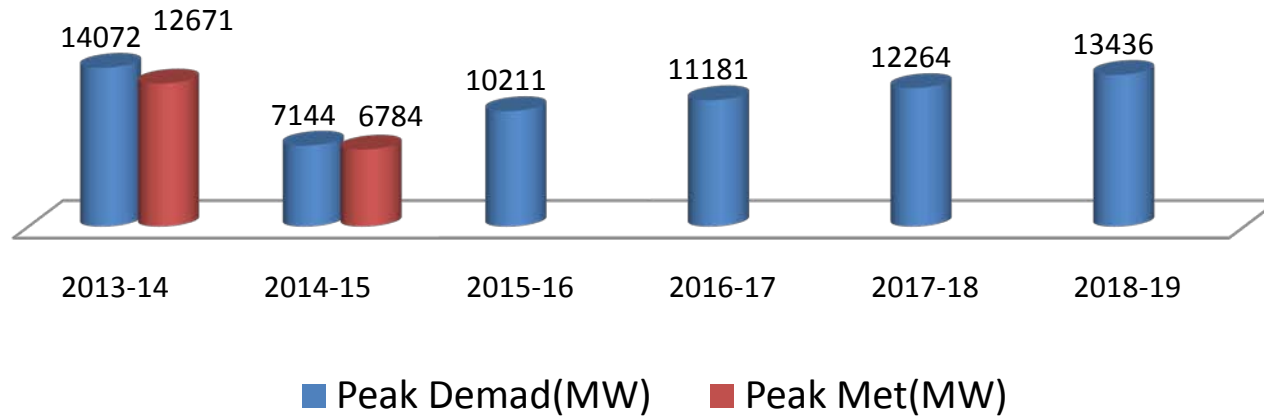
Per capita Consumption (Kwh)



SI No	Plan	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Target	879	1081	1154	1257	1372	1495
2	Achievement		1040 (as per CEA report)				

Power Supply:

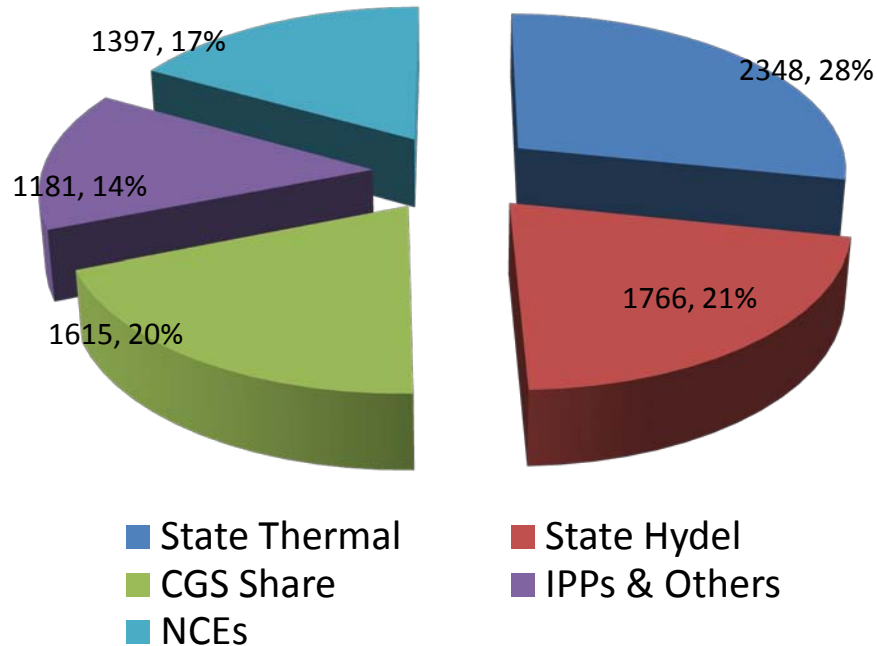
Peak Demand (MW)



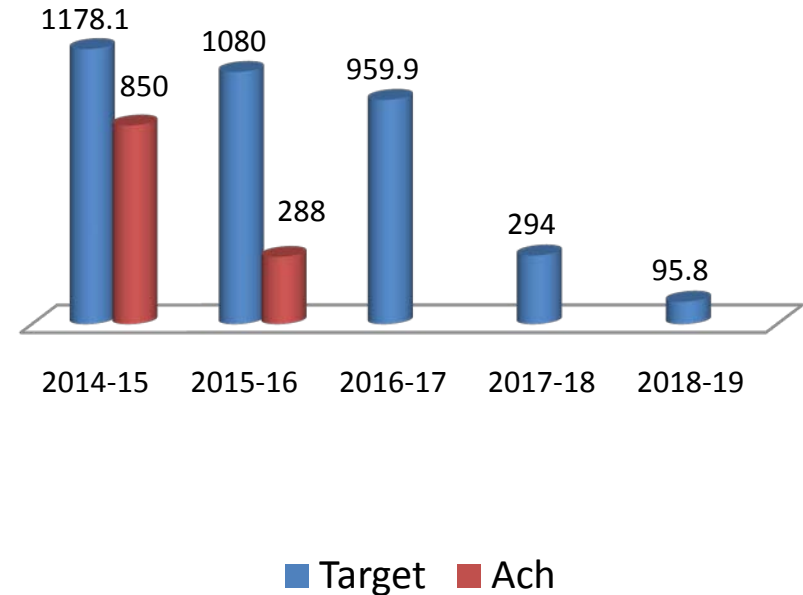
SI No	Plan	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Peak Demand(MW)	14072 (Incl. Telangana)	7144 (As per CEA report)	10211	11181	12264	13436
2	Peak Met(MW)	12671 (Incl. Telangana)	6784 (Shortage-5%) (As per CEA report)				

Generation Installed Capacity:

**Existing Generation capacity
(Total 8307 MW)**



**Plan for addition in Generation
capacity (MW)**



Generation :

SI No	Plan	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
		Target	Actual	Target	Actual	
State Sector						
1	Hydro (MW) (23.1MW – NS Tail Pond & 55.3 – Lower Jurala-I)	78.4	50	69.2	0	<ul style="list-style-type: none"> 50MW (100% share) of NS Tail pond belongs to A.P. Lower Jurala-I & II (55.3 MW each) projects transferred to Telangana state. Pulichintala- I Project (13.9 MW share) transferred to Telangana.
2	Thermal-Coal (MW)	737.8	800	276.7	0	<ul style="list-style-type: none"> 276.7 MW share of KTPP Stage-II is transferred to Telengana. 800 MW Krishanapatnam (stage-I) commissioned 800 MW Krishnapatnam (State-II) CoD got delayed due to technical problem in boiler and expected by 15th Aug,2015.
	Total	816.2	850	345.9	0	
Central Sector						
1	Thermal-Coal (MW)	122.1	0	200.6	58	<ul style="list-style-type: none"> Tuticorin-I: Commissioned on 18/06/2015. CoD is delayed due to Wild Life Clearance from Gol. Tuticorin-II is expected to commission by end of July. Kudigi Plant of 200 MW is expected to be commissioned in the month of Sep'15
2	Nuclear (MW)	0	0	63.2	0	63 MW of Kalapakkam project is expected to commission in the month of Oct'15
	Total	122.1	0	263.8	0	
Private Sector						
1	Thermal-Coal (MW)	239.8	0	470.3	230	<ul style="list-style-type: none"> Hinduja Unit-I – 520 MW, Delayed due to the seawater intake infrastructure of the plant damaged in the Hudhud cyclone. 230MW state share from Thermal Power Tech (500MW).
	G Total	1178.1	850	1080	288	

Generation : (Action plan for State):

S.No.	Issue	Present Status/Remarks
1	Coal Imports by APGENCO to meet shortfall of Coal from MCL.	<ul style="list-style-type: none"> The coal materialization from MCL has increased to 67% from 49% in the FY 2014-15 with a short fall of 2.32 MTs where 1.87 MTs were imported by APGENCO. Shortfall is being met from premium purchase from SSCL. Tenders floated for procurement of imported coal to meet the shortfall for the FY15-16 whereas the present tenders called for procurement of imported coal were cancelled due to high quoted price and re-tendering will be commenced shortly.
2	APGENCO to do Renovation & Modernization Plan for Dr. NTTPS, Vijayawada & RTPP, Muddunur units, which are more than 20 years old.	<ul style="list-style-type: none"> Proposals submitted to PFC on 16.04.2015 and PFC has requested to revise DPRs. APGENCO Called for tenders for the preparation of revised DPRs for RTPP and remaining process will be completed in a month. DPR proposals for Dr.NTTPS are under process

Generation – GOI Intervention

S.No.	Issue	Present Status/Remarks
1	Fast- Tracking of Coal Blocks allotted for new APGENCO units: Land acquisition and various clearances to fast-track the development of coal blocks for proposed 3X800 MW at Srikakulam, 1X800 MW at Vijayawada, 1X800 MW at Srikakulam.	<ol style="list-style-type: none"> 1) APGENCO has participated in the Govt. company coal block allocation process whereas no coal block was allocated to APGENCO. 2) Request submitted to allocate atleast Mahanadi coal block , Machchhakata.
2	Additional Gas Allocation for IPPs based in AP: Additional CGS allocation for 150 MW from Kudankulam - NPCIL NPP Stage-1, 150 MW from Vallur- NTPC-Tamil Nadu Energy JV. 75 MW from Neyvelli- NLC expansion, Stage-2, and 200 MW from Jhajjar – NTPC Indira Gandhi STPS.	<ol style="list-style-type: none"> 1) GoI has allocated 50 MW from Unit-I of Kundankulam. 2) AP is getting 304 MW from Jhajjar power plant till Oct, 2015. 3) GoAP has requested to allocate 75 MW from NLC expansion but allocation is yet to be received.

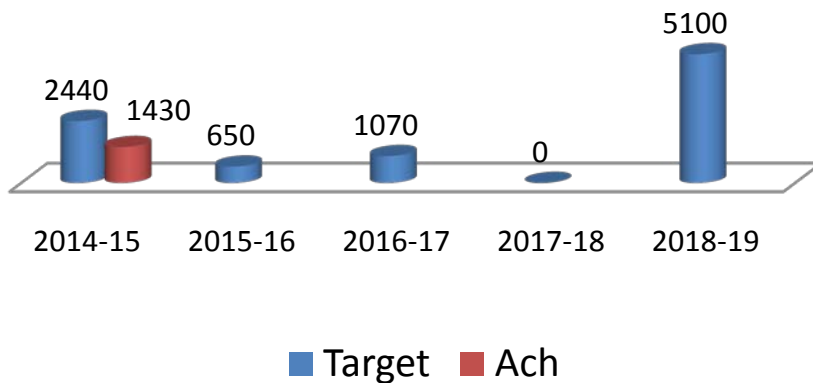
Inter-State Transmission Plan

Inter State Transmission System (ISTS) :

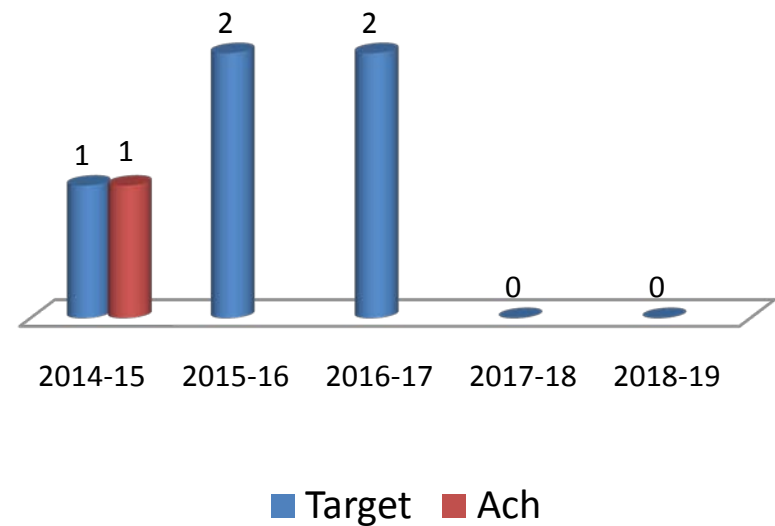
Inter State Transmission network (as on Mar,2014)

S.No.	Particular	
1	No. of Substation	8 No.
2	Total transformation capacity	8131 MVA

Plan of ISTS line (Ckt Km)



New Substation (No.)



Inter State Transmission :

SI No	Plan	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
		Target	Actual	Target	Actual	
Central Sector						
1	Substation (Nos)	1	1	2	0	<ul style="list-style-type: none"> 765/400 KV at Srikakulam-COD Dec-15 765/400 kV at Vemagiri – Expected COD Dec-16
2	New Line (Ckt Km)	2,440	1430	650	0	Line works are under implementation.

List of Completed Projects

SI No	Project Name	Expected Outcome	Actual Outcome	Timeline	Revised Timeline	Remarks
1	Substation (Nos) – 765 kV Kurnool	1	1	31/03/2015	0	Completed in the month of April'14.
2	New Line (Ckt Km) – Kurnool Raichur 765 kV S/c line	118	118	30/06/2014	0	
3	New Line (ckt Km) – Nellore Kurnool 765 kV D/c Line	602	602	31/10/2014	0	
4	New Line(ckt-Km) – Kurnool – Thiruvalem 765 kV D/c line	710	710	30/11/2014	0	

Inter State Transmission : GOI Intervention :

S.No.	Issue	Present Status/Remarks
1	POWERGRID/Implementing agency to ensure development of Inter State transmission system as indicated above progressively by FY 2018-19.	
2	State nodal agency to ensure that Renewable generation developer apply for connectivity/Long term access for its integration in the ISTS.	In compliance to CERC amended Regulations dated 15th May 2015 for including Solar Power Park Developer as an Applicant for Connectivity and Long Term Access in Inter-State Transmission System, MNRE declared APSPCL, vide Letter No.30/50/2014-15/NSM, dt.26.06.2015, as Solar Power Park Developer for Ananthapur Ultra Mega Solar Park (1500 MW) and Kurnool Ultra Mega Solar Park (1000 MW) to undertake infrastructural activities including arrangement of connectivity on behalf of solar power generator in the above Solar Parks.
3	GoI may identify implementing agency(ies) for development of ISTS (Rs 1000 Cr) for integration of renewables.	PGCIL has been identified for the development of ISTS (Rs 1000 Cr) for integration of renewables.

Intra-State Transmission Plan

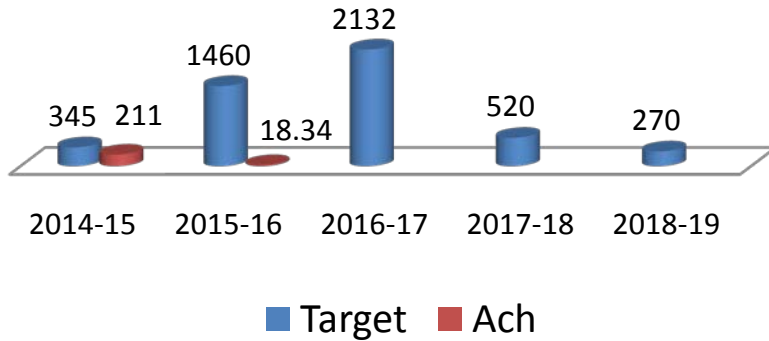
Intra State Transmission System :

Intra State Transmission network (as on Mar,2014)

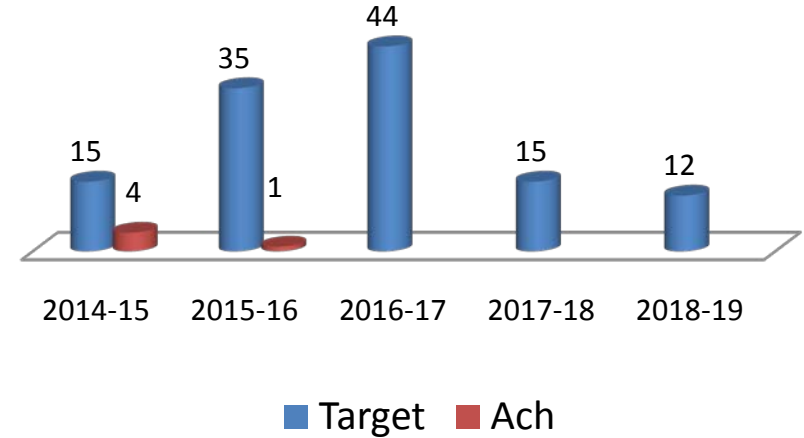
S.No.	Voltage	No of substation (Nos)	Transformer capacity (MVA)	Associated lines (Km)
1	400 KV	6	3780	1602
2	220 KV	72	15386	8152
3	132 KV	167	9319.50	8444

Intra State Transmission :

Transmission line (CKm)



New Substation (No.)



Sl No	Plan	Existing Capacity	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
			Target	Actual	Target	Actual	
State Sector							
1	Substation (Nos)	245	15	4	35	1	Delay on account of ROW. Reason for delay and expected completion dates are provided against individual project details.
2	New Line (Ckt Km)	18,907	345	210.59	1,460	18.34	
3	Transformation Capacity (MVA)	28,467.50	1354.5	879	3697	47.5	

Intra State Transmission : Action plan for State :

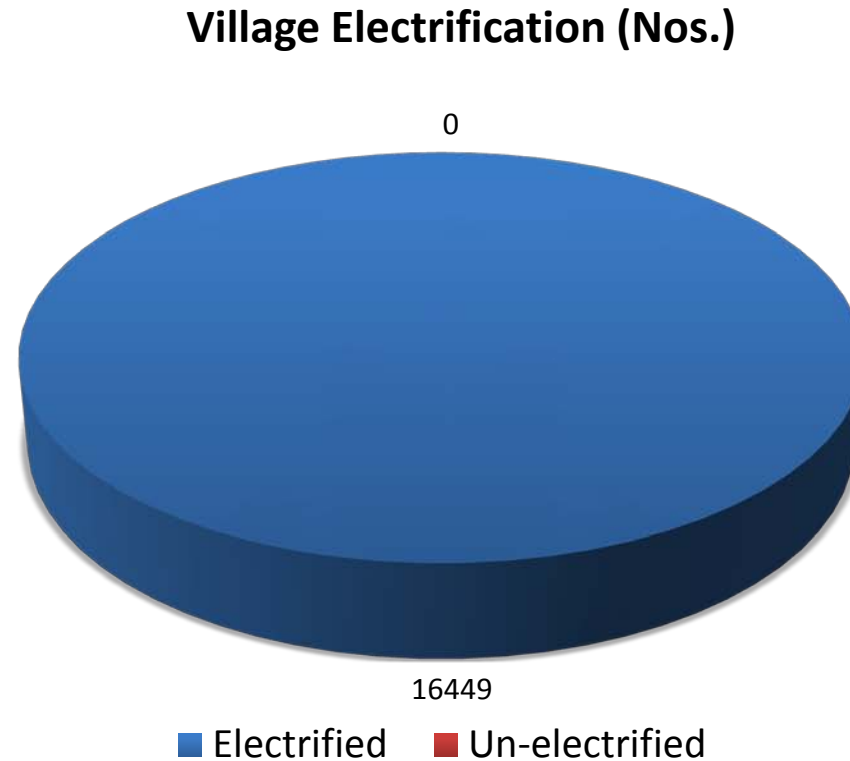
S.No.	Issue	Present Status/Remarks
1	Timely completion of spur lines network to PGCIL's upcoming ER-SR corridor.	Plan was approved by standing committee on 25.02.2015.

Intra State Transmission : GOI Intervention:

S.No.	Issue	Present Status/Remarks
1	Approval of proposal by MNRE for funding of Green Energy Corridor under NCEF.	<ul style="list-style-type: none"> NCEF grant of Rs. 516 Crs (40%) has been approved for Phase-2, the same was cleared by Inter Ministerial Group and cabinet approval is pending. However, in respect of Phase-1, where works are under execution. NCEF grant proposals (Rs. 800 Crs.) are pending with MNRE and CEA.

Distribution

Status of Village Electrification:

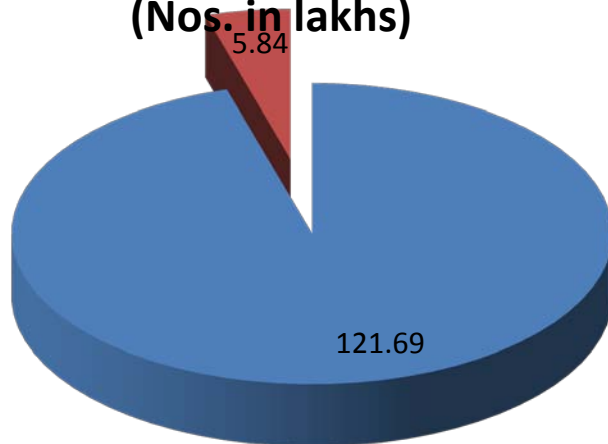


100% villages of Andhra Pradesh are electrified.

Status of Household Electrification:

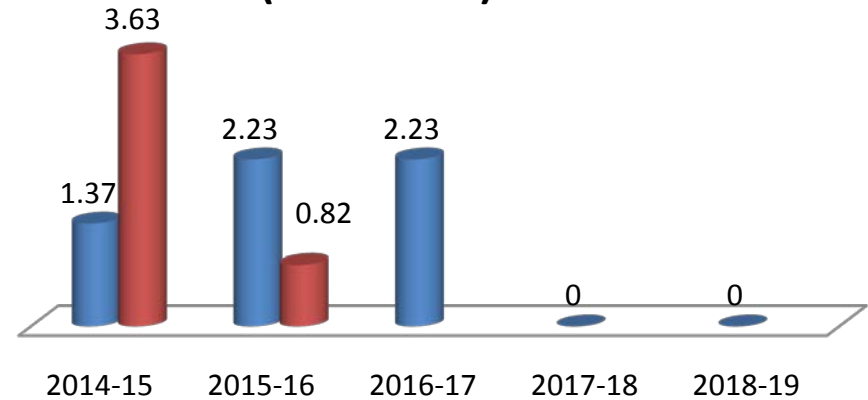
- Reliable 24X7 supply to the consumers (except agriculture) in a phased manner within a period of 3 years.
- All unconnected households to be provided access to electricity in a time bound manner by FY 2016-17.

**Status of Household Electrification
(Nos. in lakhs)**



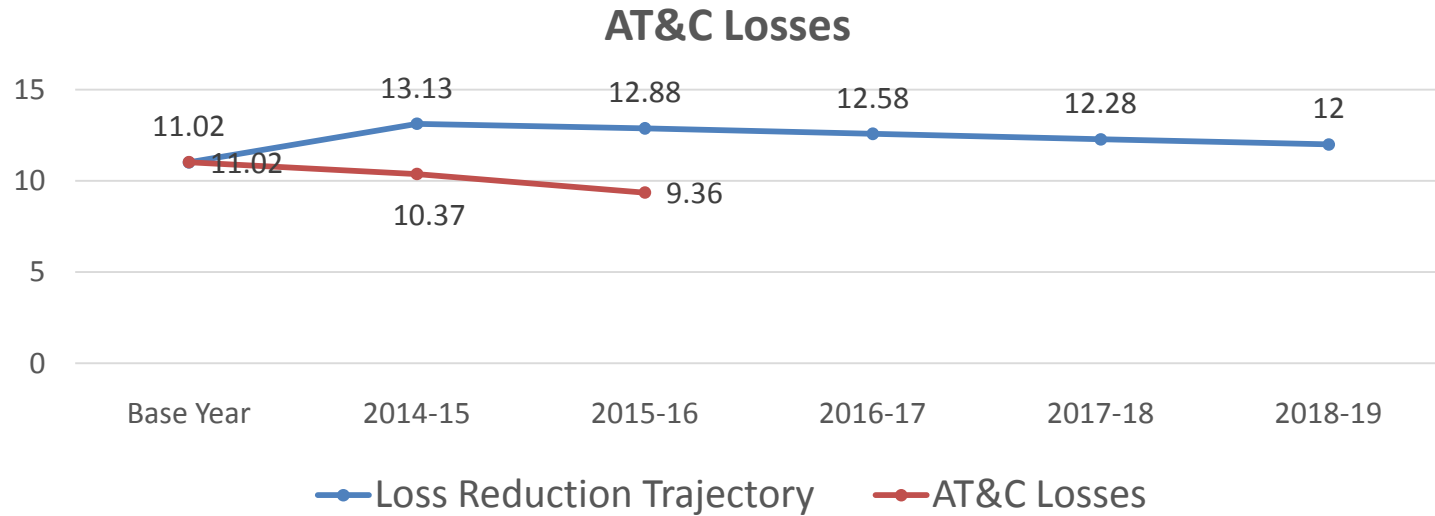
■ Electrified ■ Unelectrified

**Plan for HH electrification
(no.in Lakh)**



■ Target ■ Ach

AT&C Losses:



SI No	Plan	March 14	2014-15	2015-16	2016-17	2017-18	2018-19
1	Loss Reduction Trajectory (%)	11.02	13.13	12.88	12.58	12.28	12
2	AT&C Losses (%)	11.02	10.37	9.36 (till May'15)			

Distribution :

SI No	Plan	Existing Capacity	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
			Target	Actual	Target	Actual	
State Sector							
1	AT & C Losses (%)	11.02	13.13	10.37%	12.88	9.36	
2	33/11 KV Substations (Nos)	2,524	249	110	213	26	DDUGJY & IPDS Project costs are yet to be sanctioned/ disbursed.
3	Households to be electrified (Nos)	1,30,60,752	1,37,337	3,68,333	2,23,125	82,436	DDUGJY projects being award.

Distribution - Action plan for State :

S.No.	Issue	Present Status/Remarks
1	Release of committed subsidy to APDISCOMs against free agricultural supply as per GoAP policy.	GoAP is regularly releasing subsidy amount in advance monthly.

Distribution – GOI Intervention:

S.No.	Issue	Present Status/Remarks
1	Funding under DDUGJY and IPDS.	<p><u>DDUGJY</u> GoAp to submit revised DPRs</p> <p><u>IPDS</u> A.P. State Government submitted DPRs worth Rs. 704.15 Crs. for 13 Nos. districts. (Including the already sanctioned DPRs of Rs. 430.5 Crs. for 6 Nos. districts)</p>

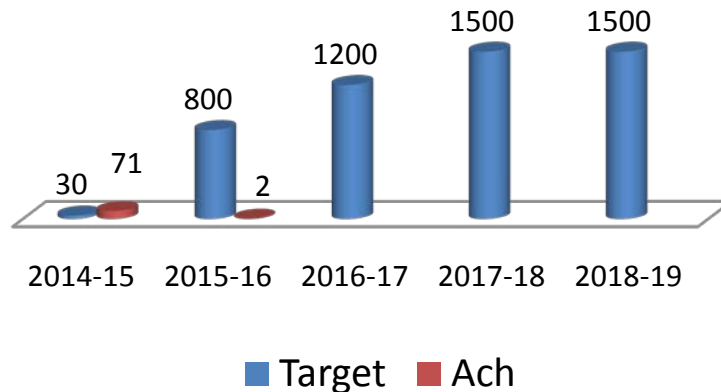
Renewable Energy

Renewable Energy :

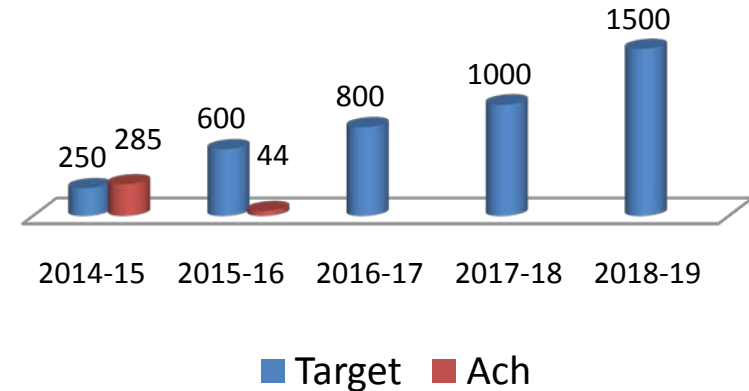
Renewable plan of Andhra Pradesh State

Particular	Wind (MW)	Solar (MW)	Total (MW)
Existing RE Capacity (MW) (As on Mar,14)	731	62	793
Plan for Capacity addition by Mar,19	4150	5030	9180
Total	4881	5092	9973

Plan for Solar Power (MW)



Plan for Wind Power (MW)



Renewable Energy :

SI No	Plan	Existing Capacity	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
			Target	Actual	Target	Actual	
State Sector							
1	Solar Power (MW)	62.15	0	0	0	0	
2	Solar off grid (MW)	0.59	5	0	5	0	Beneficiaries are not showing interest to invest due to the availability of 24Hrs supply in Andhra Pradesh.
3	Solar Pumpsets (Nos)	0	10,000	2	10,000	659	Implementation guidelines were finalized in Feb'15. 659 Nos. Pump sets installed.
Central Sector							
1	Solar Power (MW)	62.15	0	0	500	0	
Private Sector							
1	Solar Power (MW)	62.15	30	70.70	300	2.40	
2	Wind Power (MW)	731.02	250	285.20	600	43.70	
3	Solar Rooftop grid connected(MW)	0	10	0.53	10	1.81	<ul style="list-style-type: none"> New Guidelines were finalized in the month of May, 2015. Applications are received for only 9.9MW from 2013-14 to till now in which 8.7MW capacity applications are feasible for grid connected solar rooftop.

Renewable Energy: Action plan for State

S.No.	Issue	Present Status/Remarks
1	GoAP to draft new Solar & Wind policies that will attract renewable investments in the state, bridge the energy deficit & provide generation security.	New Solar & Wind Policies were released on 12 th Feb, 2015.
2	Second phase, projects worth Rs. 1,289 Crs to be taken up shortly.	The sale of tenders is commenced from 18.06.2015, for erection of 400kV Substation at Hindupur (3x315 VA and 1 No. 80 MVAR Bus Reactor) along with connected 400kV QMDC line from 400kV Hindupur SS - 400kV Urvakonda SS (130 km) and 2 Nos. 400kv Bays at 400kV Uravakonda SS with due date for bid opening as 01.08.2015.
3	APTRANSCO to plan Renewable Energy Evacuation' scheme, capable of evacuating 3000 MW of Solar and 1000 MW of Wind energy, with a capital outlay of Rs. 1,816 Crs	<ul style="list-style-type: none"> • 1000 MW Solar Network at Kurnool District: The LOI was issued on 17.06.2015, for erection of 400kV Substation at Gani (3x500 MW and 1 No. 125 MVAR Bus Reactor) along with 400kV QMDC line from 400kV Gani SS to the existing 400kV Kurnool Substation (30 km) and 2 Nos. 400kV Bay extensions at the existing 400kV Kurnool SS. • 4 Nos. 220kV Pooling Stations: Tenders yet to be called. • 220kV PS1: Work awarded on 28.04.2015. Works commenced. • 220kV PS2, PS3 & PS4: Tenders opened on 13.07.2015.
4	GoAP to develop Ananthapur as a Renewable Energy Hub. GoAP also to develop the area as a renewable manufacturing zone	One solar park of 1000 MW capacity is planned and under implementation in Ananthapur District. In addition to this, many private wind and solar projects are under implementation.
5	GoAP to facilitate the development of two solar parks at Anathapur, Kurnool & Kadapa districts.	Joint Venture Company between SECI, APGENCO and NREDCAP has been formed for the development of Ultra Mega Solar Parks.

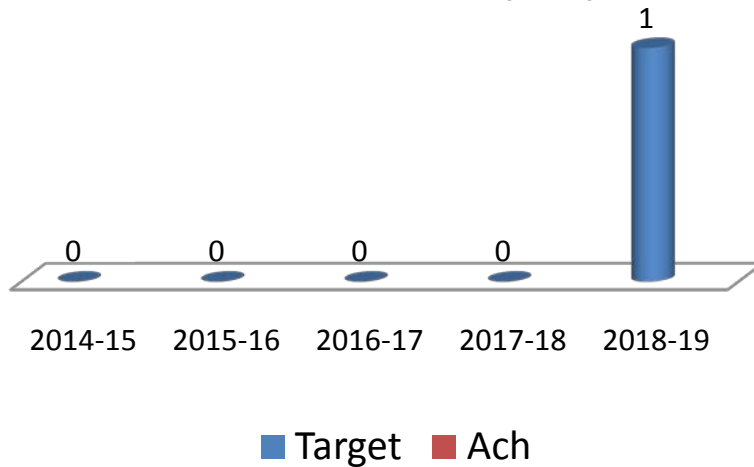
Renewable Energy: GOI Intervention

S.No.	Issue	Present Status/Remarks
1	Sanction of grants from MNRE for development of Solar Parks to the tune of Rs 20 lakhs/ MW (Total Rs. 500 Crs for 2,500 MW) through SECI.	An amount of Rs. 74 Crores were released for 1500 MW NP Kunta Solar Park in Ananthapuramu Dist and Rs. 48.585 Crores were released for Gani Solar Park totaling to Rs.122.585 Cr.
2	Allocation of 500 MW of thermal power for bundling with 1,000 MW of Solar Power through NVVN, in the ratio of 1:2 (Thermal : Solar)	As per the NSM Phase-II guidelines released by MNRE which is available in APSPCL website.
3	Sanction of 10,000 Solar pumps per year for next five year period 5,000 nos. under MNRE scheme and 5,000 nos. through NABARD.	MNRE has sanctioned 6725 Nos. of Pump sets in the FY 2014-15.
4	Sanction of Grid Connected Solar Rooftop systems of 10 MW capacity every year for next five years period.	New Guidelines are released in the month of May'15 and scheme is under implementation.
5	Sanction off-grid Solar Systems of 5 MW capacity annually for next five years for Govt. buildings, hospitals, Public Health Centres (PHCs) in rural and semi-urban areas	Beneficiaries are not showing interest to invest due to the availability of 24Hrs supply in Andhra Pradesh.
6	Sanction of funds under Remote Village Electrification Programme (RVEP) with 90% Central Financial Assistance, amounting to Rs. 10 Crs per annum to implement DDG schemes in Un-electrified remote hamlets in the next 3 years.	164 Nos. Tribal habitations for release of 2,960 Nos. households with an estimated cost of Rs.23.38 cores was proposed by APEPDCL for electrification under DDG Project. The scheme is yet to be sanctioned.

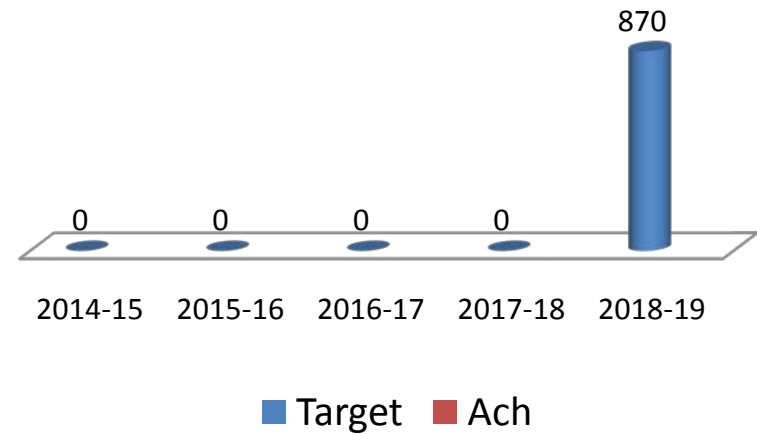
Green Energy Corridor

Green Energy Corridor :

New substation (No.)



Transmission Line (Km)



Sl No	Plan	Existing Capacity	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
			Target	Actual	Target	Actual	
State Sector							
1	Substation (Nos)	0	0	0	0	0	No target set for 2014-15 & 2015-16. Projected for 1 no. substation with 870 Ckm line for 2018-19 only.
2	Line (Ckt Km)	0	0	0	0	0	

Energy Efficiency

Energy Efficiency :

SI No	Plan	Existing Capacity	Capacity addition during 2014-15		Capacity addition during 2015-16		Remarks
			Target	Actual	Target	Actual	
State Sector							
1	LED Distribution-Households (Nos)	0	3,00,000	40,73,000	12,00,000	15,38,000	
2	Agriculture Pumpsets (Nos)	0	14,000	0	1,00,000	2	<ul style="list-style-type: none"> Petition filed before APERC for EE AGL pumpsets programme in Rajanagaram Mandal for 2496 Nos. pump sets has been approved on 06th June, 2015. Base line survey of existing pumpsets to ascertain output and efficiency of the pumpsets which are on ground is under progress. As on date, total 432 No. of Pre-Measurements were taken. Till date 35 nos. of farmers have given written consent for replacement of their pump sets and agreements have been signed with them. After completion of this pilot project based on the performance the project can be extended to remaining mandals where agricultural feeders segregation has taken place.
3	Street Light Replacement (Nos)	0	85,000	92,000	1,50,000	23,826	

Energy Efficiency : (Action plan for State):

S.No.	Issue	Present Status/Remarks
1	Distribution Companies / Utilities to file DSM petition with Andhra Pradesh Electricity Regulatory Commission for getting sanction of the proposed DSM plan	Petitions filed before APERC for DELP, Street lights and AGL Pump sets. APERE has approved the same on 06.06.2015.
2	To ensure establishment of a payment security mechanism so that the company making investments under the Energy Service Company (ESCO).	Payment mechanism is linked to savings in the project financial repayment modalities.
3	Effective enforcement of Energy Conservation Building Code (ECBC) compliance and mandating retrofitting in energy-audited buildings in commercial and Govt Buildings.	<p>The AP ECBC code has come into force in A.P. from 01.08.2014. This code is applicable to all commercial & non-residential bldgs which have a plot area of more than 1000Sq.mtrs or built up area of more than 2000Sq.mtrs and certain category of buildings.</p> <p>Accordingly till now,</p> <ul style="list-style-type: none"> • More than 140 officials from the state of Andhra Pradesh have been trained on APECBC through several workshops conducted at Visakhapatnam, Vijaywada, Tirupati and Hyderabad. • 42 nos of Architects & ECBC trainers have been empanelled to look into ECBC compliance as 3rd party agency. Administrative Staff College of India has been entrusted for institutional framework for ECBC compliance in the state.

Energy Efficiency : (Action plan for State):

S.No.	Issue	Present Status/Remarks
4	State Government to set up institutional framework for compliance of guidelines of BEE regarding energy efficient multi storey residential apartments including in the composite and hot & dry climatic zone.	<p>In order to encourage the adoption & promotion of Green Cities, for Sustainable Development of Built Environment in Cities, the AP govt has issued modification to Building guidelines, the gist of which is as below:</p> <ul style="list-style-type: none"> • For all new residential / commercial / institutional / industrial plots, 75% of the site exposed roof area to be developed with High Reflective Materials or Vegetation or combination. • All new residential / commercial / institutional / industrial buildings, should install solar water heating systems which cater to 50% of their domestic use. • All new buildings to provide rainwater harvesting system to capture atleast 'one-day rainfall' runoff volume from roof and non-roof areas • For residential plots of more than 200 Sq.mts and for non-residential plots of more than 2000 Sq.mts in size, the following provisions should be made: <ul style="list-style-type: none"> ➤ Use low flow water fixtures in minimizing water consumption. ➤ Have an on-site waste water recycling treatment system to handle 100% of waste water • New Residential / Commercial / Institutional / Industrial with built-up area more than 2000 sq.mts shall be developed as Green Buildings. • All new buildings with connected load of 100kW or contract demand of 120 kVA, should install on-site renewable system equivalent to meet 25% of their consumption. • All external lighting in Residential / Commercial / Institutional / Industrial buildings projects shall install LED powered lighting.

Energy Efficiency : GOI Intervention

S.No.	Issue	Present Status/Remarks
1	M/o Agriculture to amend the guidelines of various schemes and promote star rated energy efficient pumpsets (EEPS) under these schemes like Rashtriya Kisan Vikas Yojana (RKVY)	
2	Considering the usage of higher size pump-sets (>15 KW) in agriculture sector of AP, accordingly BEE may expand its star labeling programs to cover higher size pump-sets.	Yet to do.
3	BEE to formulate specification for LED Bulbs, introducing star label scheme for LED Bulbs.	Yet to do.
4	BEE to provide technical support for effective enforcement of ECBC and promotion of ESCO based retrofitting works in Government buildings.	

Financial Viability of DISCOM

Financial Viability of DISCOM : (Action plan for State):

S.No.	Issue	Present Status/Remarks
1	Increase APGENCO's PLF to 90% to increasing energy availability at lower prices.	APGENCO Plants actual PLF for the FY2014-15 is 84.95% and deemed PLF on average is around 90%. The generation Loss due to poor quality of coal and back down plays dominant role in pulling down the PLF below 90% . If there is no back down and good quality of coal is supplied by coal companies (SCCL and MCL), APGENCO plants will operate above 90% PLF. Hence, it is requested to instruct the coal supplying companies to supply good quality of coal to APGENCO plants.
2	To set stringent loss reduction targets for APDISCOMs & APTRANSCO for reducing the ARR-ACS gap.	AP Chief Minister has set single digit AT&C loss target by the current financial year.

Financial Viability of DISCOM : GOI Intervention

S.No.	Issue	Present Status/Remarks
1	To help AP utilities in getting access to cheaper credit within the country for working capital.	DEA has approved a loan assistance of \$ 400 million from World Bank and a meeting with World Bank Mission was held on 17 th July, 2015 at Hyderabad to discuss further road-map.

Monitoring Mechanism

MONITORING MECHANISM:

S.N.	Monitoring at the level of	Frequency of review (as per PFA document)	Date of First Meeting	Date of Last Meeting
1	Government of India (GOI) Level Committee: (headed by Secretary)	Quarterly	13.10.2014	20.01.2015
2	Government of India (GOI) Level Committee: (headed by Joint Secretary (Distribution))	Monthly	19.12.2014	22.4.2015
3	State Government Level Apex Committee (headed by the Hon'ble Chief Minister)	Quarterly	18.12.2015	27.04.2015
4	Executive Committee (headed by Chief Secretary)	Quarterly	18.12.2015	03.07.2015
5	Department Level Committee (headed by the Hon'ble Power Minister)	monthly	18.12.2015	27.04.2015
6	District Level Committee (headed by Minister in-charge of the district)	-		-
7	Project Monitoring Unit (PMU)	-	05.10.2014	20.07.2015



Generation (2014-15):

SI No	Project Name	Expected Outcome (MW)	Target Date of Completion	Status	Achievement (MW)	Remarks
1	Krishnapatnam: Stage-I, Unit-1 (800MW)	368.88	30/09/2014	Completed	800.00	100% share agreed for Andhra Pradesh.
2	Krishnapatnam: Stage-I, Unit-2 (800 MW)	368.88	31/12/2014	Under Implementation		<ul style="list-style-type: none"> 100% share agreed for Andhra Pradesh. CoD got delayed due to shortage of coal and expected COD is June,2015.
3	Nagarjunasagar: Tail Pond Power House (50 MW)	23.1	31/10/2014	Completed	50	<ul style="list-style-type: none"> 100% share agreed for Andhra Pradesh. Project commissioned. Machine trial run over but not generating power due to lack of adequate water.
4	Lower Jurala, Unit- I (120 MW)	55.3	31/10/2014	-	-	100% share agreed for Telangana.
5	Tuticorin, Unit-2 (255 MW)	122.1	31/10/2014	Completed	58	Tuticorin Unit I is commissioned on 18.06.2015 and CoD is delayed due to Wild Life Clearance from GOI. Tuticorin Unit II is expected to be commissioned in July, 2015.
6	Hinduja Vishakhapatnam: Unit-1 (520 MW)	239.8	31/12/2014	Under Implementation		Delayed due to the seawater intake infrastructure of the plant damaged in the Hudhud cyclone.
	Total:	1178.1			908	

Generation (2015-16): (cont..)

SI No	Project Name	Expected Outcome (MW)	Target Date of Completion	Achievement (MW)	Remarks
1	KTPP Stage-II (600 MW)	276.7	31/12/2015	-	100% share agreed for Telangana.
2	Lower Jurala Unit-II (120 MW)	55.3	30/04/2015	-	100% share agreed for Telangana.
3	Pulichintala, Unit-I (30 MW)	13.9	30/07/2015	-	100% share agreed for Telangana.
4	Kudigi: Unit-1, Share to United AP (419 MW)	200.6	30/06/2015		Revised timeline is 30.9.2015
5	Nuclear Power-Kalpakkam (500 MW)	63.2	30/04/2015		Under implementation, COD Oct, 2015.
6	Hinduja Vishakhapatnam: Unit-2 (520 MW)	239.8	30/04/2015		Delayed due to HudHud damages. Expected to be commissioned after 3 months of synchronization of the first unit.
7	Thermal Powertech: Unit-1 (500 MW)	230.5	30/04/2015	230.00	
8	Tuticorin, Unit-2 (255 MW)	122.1	31/10/2014		
	Total:	1080		230.00	

Inter-State Transmission (2014-15):

SI No	Project Name	Expected Outcome (Ckt-km)	Target Date of Completion	Achievement (Ckt-km)	Remarks
765KV Line					
1	Angul – Srikakulam 765KV D/C Line	552	Dec-15		Under execution (TE – 355, STC-25km)
2	Srikakulam – Vemagiri 765KV D/C Line under TBCB	668	Mar-16		Under execution (TE – 239, STC-0km)
3	Kurnool-Raichur 765KV S/C Line (120Km)	120	Mar-16		Under execution (TE – 20, STC-5km)
400KV Line					
1	Vijayawada – Nellore 400KV D/C Line	662	June/July-15		Under execution (TE – 868, STC-618km)
2	NCC Project - Nellore Pooling Stn. 400KV D/C Quad Line	66	Dec-15		Under execution (TE – 0, STC-0km)
3	Gooty – Madhugiri 400KV D/C Line	416	Jul-15		Under execution (TE – 562, STC-274km)
Total:		2484			

SI No	Project Name	Expected Outcome (MVA)	Achievement (MVA) as on July, 2015	Remarks
765KV				
1	Srikakulam	1500		Under execution (Dec-15)

Inter-State Transmission (2015-16):

SI No	Project Name	Expected Outcome (MVA)	Achievement (MVA) as on July, 2015	Remarks
	765KV			
1	Vemagiri	1500		Under execution (Dec-16)
	400KV			
1	NP Kunta	1500		Under execution (May-16)
	Total	3000		

Intra-State Transmission (2014-15):

SI No	Project Name	Expected Outcome (MVA)	Achievement (MVA) as on July, 2015	Remarks
	132KV GSSs			
1	Penugonda	32	32	
2	Lingasamudram	16	16	
3	Darsi	31.5	31.5	
4	Podili	100	100	
5	Duvvuru	47.5		Scheduled to be commissioned by 31.07.15
6	Narsipatnam	32		Scheduled to be commissioned by 31.12.15
7	Biccavolu	47.5		Scheduled to be commissioned by 31.12.15
8	Obulapuram	47.5		Scheduled to be commissioned by 31.10.15
9	Alipiri	47.5		Scheduled to be commissioned by 30.09.15
10	Rangannagudem	47.5		Scheduled to be commissioned by 31.03.16
11	Tadimarri	47.5		Scheduled to be commissioned by 31.12.15
12	Cherivi	47.5		Scheduled to be commissioned by 31.11.15
13	Kesinenipally	47.5		Scheduled to be commissioned by 30.06.15
14	Rajam	32		Scheduled to be commissioned by 31.08.15
15	Chakrayapalem	32		Scheduled to be commissioned by 31.09.15
	Total	655.5	179.5	

Intra-State Transmission (2015-16):

SI No	Project Name	Expected Outcome (MVA)	Achievement (MVA) as on July, 2015	Remarks
220KV GSSs				
1	Guntur	300		Scheduled to be commissioned by 31.03.16
2	Nuzivedu	300		Scheduled to be commissioned by 31.03.16
3	Kandukuru	300		Scheduled to be commissioned by 31.03.16
4	Rachagunneri	63		Scheduled to be commissioned by 31.03.16
5	koruprolu	300		Scheduled to be commissioned by 31.03.16
6	Kuppam	200		Scheduled to be commissioned by 31.03.16
7	ADR Palem			Scheduled to be commissioned by 31.03.16
8	Bobbilli	300		Scheduled to be commissioned by 31.03.16
9	Vajrakarur	100		Scheduled to be commissioned by 31.03.16
10	Tirumalaipally	320		Scheduled to be commissioned by 31.03.16
11	Chakrayapeta	200		Scheduled to be commissioned by 31.03.16
12	Borampalli	100		Scheduled to be commissioned by 31.03.16
13	Porumamilla	200		Scheduled to be commissioned by 31.03.16
	Total	2683		

Intra-State Transmission (2015-16):

SI No	Project Name	Expected Outcome (MVA)	Achievement (MVA) as on July, 2015	Remarks
	132KV GSSs			
1	Penukonda	47.5		Scheduled to be commissioned by 31.03.16
2	Rudravaram	32		Scheduled to be commissioned by 31.03.16
3	V.Kota	47.5		Scheduled to be commissioned by 31.03.16
4	Nunegundlapalli	63		Scheduled to be commissioned by 31.03.16
5	Rajampata	63		Scheduled to be commissioned by 31.03.16
6	Chigurukota	32		Scheduled to be commissioned by 31.03.16
7	Srikakulam	63.5		Scheduled to be commissioned by 31.03.16
8	Ponnuru	63		Scheduled to be commissioned by 31.03.16
9	Chodavaram	47.5		Scheduled to be commissioned by 31.03.16
10	C.Orampadu	63		Scheduled to be commissioned by 31.03.16
11	Taticherla	47.5		Scheduled to be commissioned by 31.03.16
12	Yedavalli	32		Scheduled to be commissioned by 31.03.16
13	Peddawaltair	63		Scheduled to be commissioned by 31.03.16
14	Malkapuram	32		Scheduled to be commissioned by 31.03.16
15	Narsingabilli	32		Scheduled to be commissioned by 31.03.16
16	Gannavaram	47.5		Scheduled to be commissioned by 31.03.16
17	Aluru	32		Scheduled to be commissioned by 31.03.16
18	Bavanipuram	63		Scheduled to be commissioned by 31.03.16
19		32		Scheduled to be commissioned by 31.03.16
20	RVK	63		Scheduled to be commissioned by 31.03.16
21	Inkollu	32		Scheduled to be commissioned by 31.03.16
22	Manthralayam	32		Scheduled to be commissioned by 31.03.16
	Total	1030		