



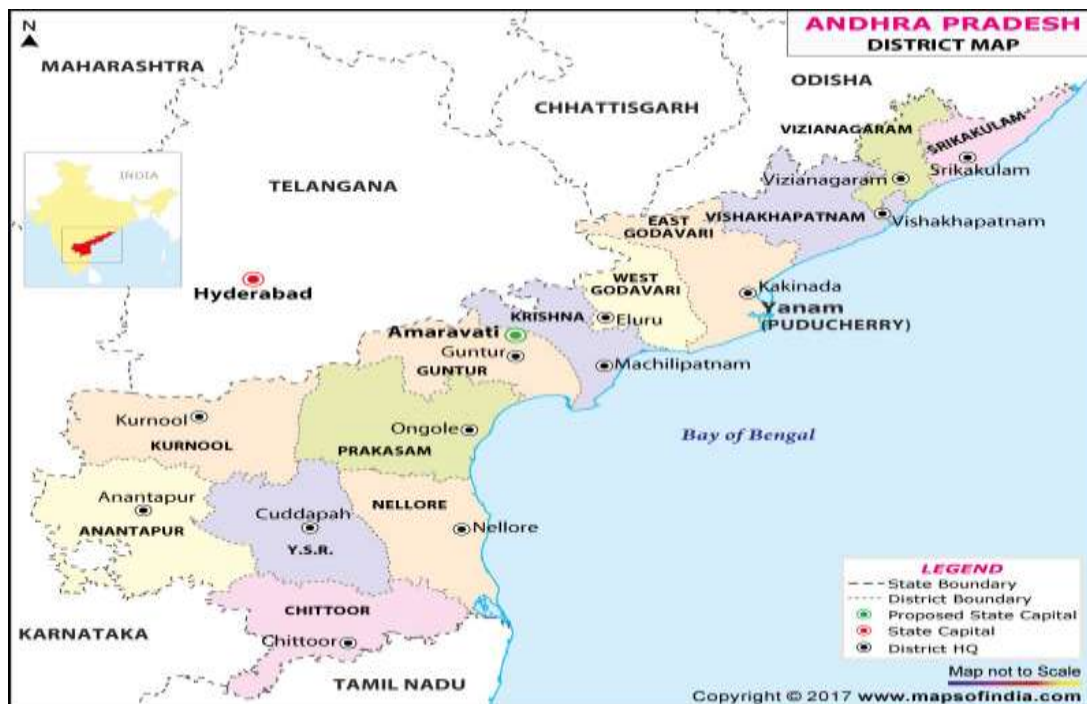
Wind Power Profile of Andhra Pradesh

Andhra Pradesh State Profile

Andhra Pradesh is situated in the south-east of the country covering an area of 162,970 km². On 2 June 2014, the north-western portion of Andhra Pradesh was separated to form the new state of Telangana; the long time capital of Andhra Pradesh, Hyderabad, was transferred to Telangana as part of the division. Hyderabad was to remain as the *de jure* capital of both Andhra Pradesh and Telangana states for a period of time not exceeding ten years.

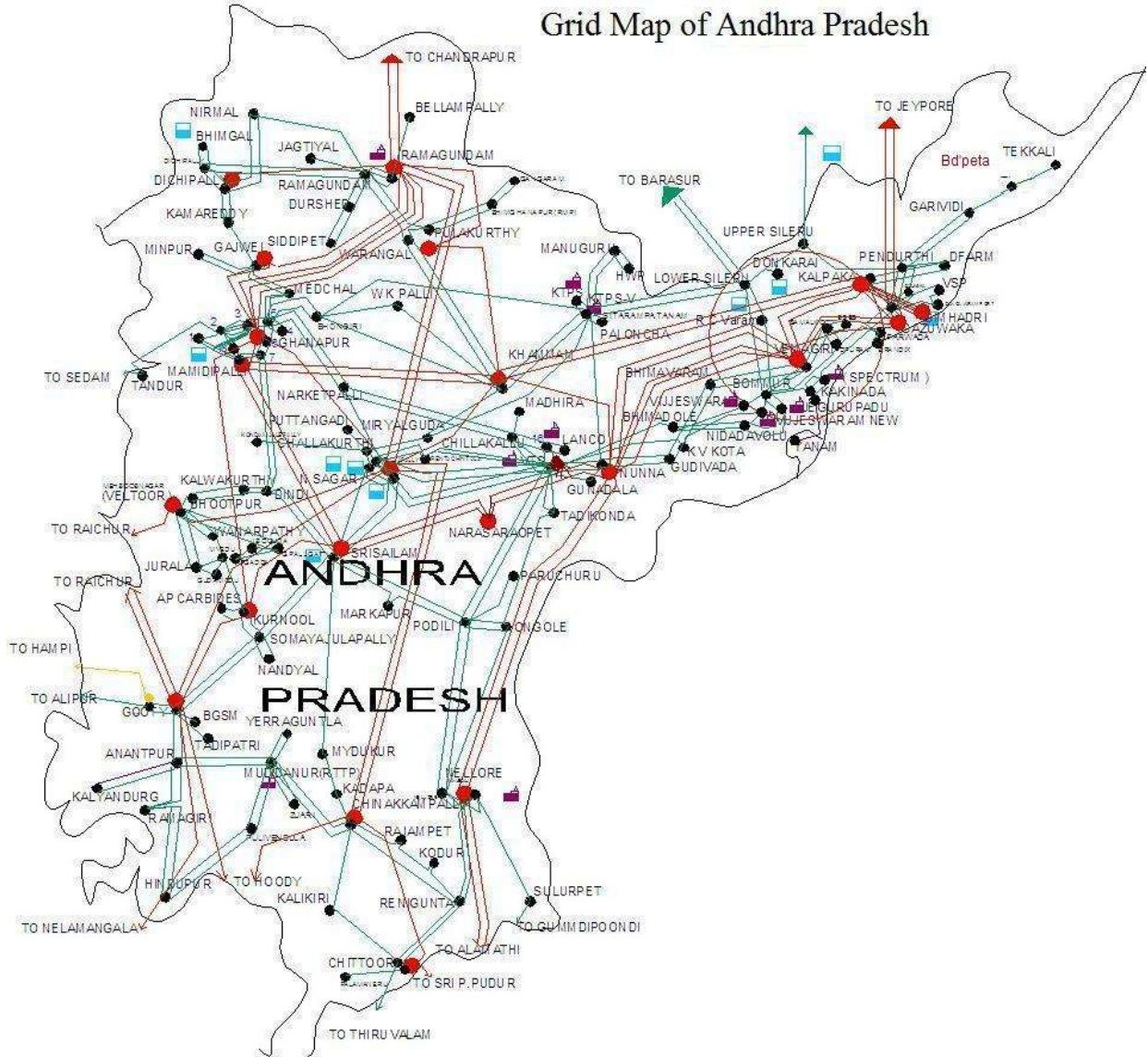
The new riverfront *de facto* capital, Amaravati, is under the jurisdiction of the Andhra Pradesh Capital Region Development Authority (APCRDA) is under construction. Andhra Pradesh has a coastline of 974 km. The state has varied topography ranging from the hills of Eastern Ghats and Nallamala Hills to the shores of Bay of Bengal that supports varied ecosystems, rich diversity of flora and fauna. There are two main rivers namely, Krishna and Godavari, which flow through the state. The Andhra Pradesh lies between 12°41' N and 22°N Latitude and 77° and 84°40' E. Longitude.

The state is bordered by Telangana in the north-west, Chhattisgarh and Odisha in the north-east, Karnataka in the west, Tamil Nadu in the south, and to the east lies the Bay of Bengal. The small enclave of Yanam, a district of Puducherry, lies to the south of Kakinada in the Godavari delta on the eastern side of the state. The state is made up of the two major regions of Rayalaseema, in the inland south-western part of the state, and Coastal Andhra to the east and northeast, bordering the Bay of Bengal.



District Map of Andhra Pradesh

Wind Power Profile of Andhra Pradesh



Installed Capacity of Various Sources in the State as on 31st October 2018

Sl.No.	Source	Installed Capacity in MW
1	Thermal	6050
2	Hydel	1901
3	Gas/Naphtha/Diesel	3036
4	Wind	3948
5	Solar	2153
6	Others	619
	Total	17707

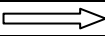
Andhra Pradesh Power Demand and Supply Position on 04-Nov-2018

Energy Required (MU)	Energy Met (MU)	Energy +/- (MU)	Genco Thermal	Genco Hydro	Genco Total	CGS and Purchases	IPPS (GAS)	NCEs & Others	AP Share of TGIST	Grand Total	Reversible Pump Consumption	Unrestricted Peak Demand (MW)	Deficit/Surplus
178.121	178.121	0.000	58.067	6.569	64.636	20.647	16.233	77.298	-0.693	178.121	0.000	*8460 (04-Nov-2018)	0

Renewable Energy Power Projects Commissioned as On 30.09.2018

Resource	Cumulative capacity commissioned up to 2017-18 (in MW)	Capacity Commissioned during 2018-19 (in MW)	Cumulative capacity commissioned (in MW)
Wind Power	3951.87	105.30	4057.17
Solar Power (GOI)	1346.426	400.00	1746.426
Solar Power (State Policy)	801.45	42.90	844.35
Small Hydro	103.098	-	103.098
Biomass Based	171.25	-	171.25
Biomass Energy Co-generation (Non-Bagasse) (Captive use)	65.45	-	65.45
Co-Generation with Bagasse	206.95	-	206.95
Municipal Solid Waste	6.15	-	6.15
Industrial waste	40.01	-	40.01
TOTAL	6692.654	548.20	7240.854
Solar Roof Top Systems	47.59	16.12	63.71
Solar P V Pump sets	113.88	38.40	152.28
GRAND TOTAL	6854.124	602.72	7456.844

Wind Power Installable Potential as per Wind Atlas 2015 by NIWE

Potential @100m Hub Height	Rank I	Rank II	Rank III	Total
Type of Land 	Waste Land	Cultivable Land	Forest Land	
Potential in MW	22526	20538	1165	44229

Rank I	Waste Land	NRSC Level –II Classification Values	12, 13, 15, 19
Rank II	Cultivable Land	NRSC Level –II Classification Values	2,3,4,5,6,10, 18
Rank III	Forest Land	NRSC Level –II Classification Values	7, 8, 9

Installable Potential assessed by NIWE earlier was 5394MW at 50m Hub Height and 14497MW at 80m Hub Height.

Wind Monitoring Stations Established in the State as on 31.03.2017: 71

Number of Stations having $WPD_{\geq 200} W/m^2$: 40

The highest WPD_{\geq} of $488 W/m^2$ is at Kakula Konda

Windy Districts: Anantapurulu, Chittor, Nellore, Kurnool, Cudappah

Demonstration Wind power Projects Funded by the Government in the State as on 31.03.2017

Number of Wind Turbines: 22

Capacity installed: 7.8MW

Some Wind Power Projects in Andhra Pradesh

Name of the Company	Location	District
NEDCAP WIND FARM	Kondamedapally	Ananthapuramu
A.P.S.Road Tpt Corprn. Ltd,	Ramagiri	Ananthapuramu
Sree Rayalaseema Alkalies & A C Ltd	Ramagiri	Ananthapuramu
Weizmann Ltd	Ramagiri	Ananthapuramu

Wind Power Profile of Andhra Pradesh

Mytrah Vayu (Pennar) Pvt. Ltd	Vajrakarur	Ananthapuramu
Enercon(India) Limited,	Kondamedapally	Kurnool
Tadas Wind Energy Ltd	Nallakonda etc.	Ananthapuramu
Vish Wind Infrastructure LLP	Nallakonda etc	Ananthapuramu
National Aluminum Co. Ltd (NALCO)	Gandikota	YSR Kadapa
Hetero Wind Power Ltd	Tirumalaipalli	YSR Kadapa
Indian Oil Corporation Ltd	Gandikota	YSR Kadapa
Kandke Wind Energy Pvt Ltd(Phase-II)	Nallakonda	Ananthapuramu
Rayala wind power company Pvt Ltd	Balavenkatapuram	Ananthapuramu
ITC Ltd (Paper Board & Sp Papers Div	Tagguparthi	Ananthapuramu
Energon Power Resources Pvt Ltd	Tagguparthi	Ananthapuramu
Blyth Wind Park Pvt ltd	Kalyandurg	Ananthapuramu
Orange Ananthapur Wind Power P Ltd	Honnura - Palturu	Ananthapuramu
KCT Renewable Energy Pvt Ltd	Molagavalli	Kurnool
Ostro Ananthapur Pvt Ltd	Nimbagal(Paltur),	Ananthapuramu
ReNew Wind Energy Pvt Ltd	Ellutla	Ananthapuramu
Axis Wind Farms (Rayalaseema) P. Ltd	Ipperu/MPR Dam	Ananthapuramu
Zemira Renewable Energy Ltd	Borampalli	Ananthapuramu
Green Infra Wind Solutions Ltd	Kunkanuru	Kurnool

Wind Power Policies of the state

Particulars	Andhra Pradesh
Tariff	Any PPA entered into by DISCOMs after 01-04-2017 shall be processed by the Commission on merits of each case, and the tariff will be determined as per the CERC Regulations, 2017 applicable for the period 01-04-2017 to 31-03-2020.
Intra-State Transmission charges	Exempted
Wheeling charges	
CSS Value (INR/unit)	APSPDCL: 1.77 (11 kV), 1.42 (33 kV) and 1.35 (132 kV) APEPDCL: 1.61 (11 kV), 1.44 (33 kV) and 1.41 (132 kV)
CSS provision for RE	Applicable for Wind (Not for Solar)
Additional Surcharge (INR/unit)	0
Additional Surcharge Provision for RE	0
Banking Charge (% of input Energy)	2% of energy drawl
Banking Period	1 year (No drawl in Apr-June, Feb-Mar and in peak hours)
Wind Tariff	

RPO Compliance Report of Andhra Pradesh for FY 2017-18

Total Energy Consumed, (MU)	Solar RPO Obligation, (%)	Solar RPO Obligation, (MU)	Non Solar RPO Obligation (%)	Non Solar RPO Obligation, (Mu)	Total Obligation, (%)	Total Obligation, (MU)
1	2	3	4	5	6	7
858219	4.75	2765.4	9.5	5530.8	14.25	8296.2

RPO Compliance Report of Andhra Pradesh for FY 2017-18 –Continued

Actual Compliance Of Solar RPO, (%)	Actual Compliance of Solar RPO, (MU)	Actual Compliance of Non Solar RPO (%)	Actual Compliance of Non Solar RPO, (MU)	Total Compliance, (%)	Total Compliance, (MU)	Category
8	9	10	11	12	13	14
6.28	3659	11.92	6938.5	18.2	10597.5	(above 100 %)

Electricity Supply Corporations in Andhra Pradesh

1. APGENCO: Andhra Pradesh Power Generation Corporation Limited

Vidyut Soudha, Khairatabad, Andhra Pradesh, India

Phone: 040-23499000/39839000, E-Mail: contactus@apgenco.gov.in

2. Transmission Corporation of Andhra Pradesh. (APTransco)

Vidyut Soudha, Gunadala, Eluru Road, Vijayawada, Andhra Pradesh 520004

3. AP Southern Power Distribution Company (APSPDCL)

Door NO:19-13-65/A, Srinivasapuram, Tiruchanoor Road, Tirupati – 517503, Chittoor District, Andhra Pradesh, <http://www.apspdcl.in>

4. Eastern Power Distribution Company of AP Ltd.

Corporate Office, P & T Colony, Seethammadhara, Visakhapatnam, Andhra Pradesh

Tel: 0891-2582392 (Control Room), <http://www.apeasternpower.com/>

State Energy Agencies and Addresses

Andhra Pradesh Electricity Regulatory Commission (APERC)

4th Floor, 11-4-660, Singareni Bhavan, Red Hills, Hyderabad - 500 004

Phone Numbers EPABX: 040-23397381

Energy Department, Government of Andhra Pradesh

The Principal Secretary (Energy)

Secretary (Energy, I&I Department, Government of Andhra Pradesh

Office Address: 10-2-1, FDC Complex, III rd floor, AC Guards, Hyderabad 500 028

New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.

Head Office: # 12-464/5/1, River Oaks Apartment,

CSR Kalyana Mandapam Road, Tadepalli, Guntur District 522 501

Tel: 0863-2347650/51/52/53, Email: info@nredcap.in

Southern Regional Load Despatch Centre

29, Race Course Cross Road, Bangalore-560009,

Telephone: 080-22254525, 22351146, 22352850

AP State Load Despatch Centre

Office address: Room No. 611, 6th Floor, A Block APTRANSCO, Vidyut Soudha,

Khairatabad, Hyderabad -500082

Andhra Pradesh Solar Power Corporation P. Ltd.

Corporate Address: 6-3-856/A3, Opp Green Park Hotel Lane, Near Neeraj Public School, Sadatmanzil compound, Ameerpet, Hyderabad 500 016

<http://www.apspcl.ap.gov.in/>
