

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.1115
ANSWERED ON 26.07.2022

CONTRIBUTION OF ODISHA TO THE POWER SECTOR

1115 DR. SASMIT PATRA:

Will the Minister of **POWER**
be pleased to state:

- (a) the details of the contribution of Odisha to the power sector in the country; and
- (b) the details of programmes/projects being undertaken in the power sector in Odisha to further develop the nation's power sector?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Odisha is bestowed with huge Coal Reserves and many Intra State Generation Projects (ISGPs) and Private Generation Projects are located in Odisha. The present generation installed capacity of Odisha is about 7650 MW (as on May 2022) comprising of about 4860 MW Thermal, 2160 MW Hydro and 630 MW Renewable generation. The source-wise renewable energy generation in respect of State of Odisha for the FY 2020-21, 2021-22 & 2022-23 (till May 2022) is as under:

Odisha RE Generation (In MU)			
Source Name	2020-21	2021-22	2022-23 (Up to May-22)
Wind	0.00	0.00	0.00
Solar	476.26	603.71	129.01
Biomass	42.71	100.08	13.89
Bagasse	0.00	0.00	0.00
Small Hydro	358.80	377.32	32.00
Other	0.00	0.00	0.00
Large Hydro	6859.97	5230.63	810.00
Total	7737.74	6311.73	984.90

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The power from these generation is utilized to meet the demand of Odisha (about 6313 MW by May 2022) and to transfer the balance to other parts of the country through huge network of Inter State Transmission System (ISTS) comprising of about 10,500 ckm Transmission line and about 19,200 MVA of Transformation capacity. Further, 2 nos. of STATCOMs at Rourkela (± 300 MVAr) and Jeypore (± 200 MVAr) in Odisha also provide dynamic compensation in the ISTS Grid. The details of transmission projects in Odisha are as under:

- I. To further augment the ISTS system to meet the growing demand of Odisha, various new ISTS system is under planning stage. The details of the same are given below:
 - a. Jeypore – Jagdalpur 400 kV D/c (Quad) line
 - b. Reconductoring of Jharsuguda – Rourkela 400kV 2xD/c line with HTLS conductor.These schemes are expected to be commissioned in 2024-25 timeframe.
- II. Presently, POWERGRID is implementing 5 projects related to Communication, SCADA Systems, Unified Network Management Systems etc. in Odisha at a cost of about ₹ 58 crore as given below:

Sl. No.	Name of the project	Approx. Cost for Odisha Portion (Rs. In Cr.)
1	Establishment of Reliable communication Scheme under Central Sector for Eastern Region	13.5
2	Communication System under Eastern region Fiber Optic Expansion Project (Additional Project)	11.31
3	Upgradation of SCADA/RTUs/SAS in Central Sector Stations and strengthening of OPGW network project in Eastern Region	11.14
4	Strengthening of OPGW network within ER Grid and connectivity with other regions	6.68
5	Establishment of Unified Network Management System (UNMS) project for Central Sector & State Sector Communication in Eastern Region (ER)	15.28

Under the Distribution Scheme, Integrated Power Development Scheme (IPDS), all the four Utilities of Odisha (CESU, NESCO, SOUTHCO & WESCO) were provided financial support for strengthening and augmentation of Power distribution network in 21 circles, IT enablement, ERP.

Work under the scheme has been declared complete and the Scheme stands closed within the sunset timeline of 31.03.2022. The major work undertaken based on the closure documents submitted by the State are:

- New 33/11 kV Sub-station: 14 Nos. (~164 MVA additional capacity)

- 33/11 kV additional Power Transformer/capacity enhancement: 92 Nos. (~375 MVA capacity)
- 33 kV and 11 kV New lines: ~745 Kms
- Reconductoring of 33 kV and 11 kV existing lines: ~1000 Kms
- Aerial Bunched Cable: ~3400 KM
- Underground Cables: ~20 KM
- New Distribution Transformers: ~1980 Nos. (~314 MVA additional capacity)
- Capacity Enhancement of DT: ~1000 Nos. (~215 MVA additional capacity)

In addition, work was also undertaken under in CESU under R-APDRP scheme [subsumed in IPDS]. Details are as under:

Completion of System Strengthening Projects under IPDS				
State	CESU	NESCO	SOUTHCO	WESCO
No. of Circles Sanctioned	05	05	06	05
No. of Circle Completed	05	05	06	05

R-APDRP Projects						
State	Part A		Part B		Closure Cost	GoI Amount Disb.
	No. of Towns	No. of town completed	No. of Towns	No. of towns completed		
Odisha	12	12	12	12	414	201

Achievements under Saubhagya & DDUGJY in Odisha:

I. Status of Village Electrification (Odisha)

As on 28.04.2018, State had reported electrification of all census villages in the State of Odisha.

II. Saubhagya (Odisha):

As per Saubhagya Portal, all the willing un-electrified rural and urban households in the State of **Odisha**, have been electrified.

III. The DDUGJY scheme outlay for State of Odisha is at Annexure.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 1115 ANSWERED IN THE RAJYA SABHA ON 26.07.2022

Physical progress of the works of DDUGJY scheme outlay for State of Odisha:

Para-meter	SAGY Villages (Nos)	Substation (Nos)		DTRs (Nos)	Lines (CKT KMs)				Energy Meters		
		New	Aug		LT line	(Feeder Separation)	11 (KV)	33 & 66 KV Line	Consumer	DTR	Feeder
Surveyed	30	12	164	3269	2883	1239.89	3384	1547.21	2271702	0	902
Ach (%)	30 (100%)	12 (100%)	164 (100%)	3269 (100%)	2883 (100%)	1239.89 (100%)	3384 (100%)	1547.21 (100%)	2271702 (100%)	0	902 (100%)

ADDITIONAL INFRA (Odisha):

Para-meter	SAGY Villages (Nos)	Substation (Nos)		DTRs (Nos)	Lines (CKT KMs)			
		New	Aug.		LT line	(Feeder Separation)	11 (KV)	33 & 66 KV Line
Surveyed	0	0	0	10943	8524.5	0	2206.88	0
Ach (%)	0	0	0	10943 (100%)	8524.5 (100%)	0	2206.88 (100%)	0

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RE Component:

Plan	Amount sanctioned Rs. crore	Amount Disbursed Rs. crore	Para-meter	Substation (Nos)		DTRs (Nos)	Lines (CKT KMs)			Remarks
				New	Aug.		LT line	11 (KV)	33 & 66 KV	
X Plan	443.93	344.38 (77%)	Surveyed	1	10	8798	8772.41	4312.87	13.48	Works completed
			Ach (%)	1 (100%)	10 (100%)	8798 (100%)	8772.41 (100%)	4312.87 (100%)	13.48 (100%)	
XI Plan	3491.72	2690.52 (77%)	Surveyed	34	238	62640	51740.78	33462.11	630.1	Works completed
			Ach (%)	34 (100%)	238 (100%)	62640 (100%)	51740.78 (100%)	33462.1 (100%)	630.1 (100%)	
XI-II plan	3552.31	3033.2 (85%)	Surveyed	8	175	43809	38433.44	15671.4	0	Works completed
			Ach (%)	8 (100%)	175 (100%)	4389 (100%)	38433.44 (100%)	15671.4 (100%)	0	
