

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3826
ANSWERED ON 05.04.2022

SAUBHAGYA SCHEME

3826 DR. AMEE YAJNIK:

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

- (a) the details of the works done in the State of Gujarat under SAUBHAGYA scheme;
- (b) the amount sanctioned and allotted and the amount spent for this work during the last three years, State-wise;
- (c) the number of households given electricity connections in Gujarat in the last five years;
and
- (d) how many villages of the country including Gujarat are to be supplied electricity at present?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : The Government of India launched Pradhan Mantri Sahaj Bijli Har Ghar Yojana– Saubhagya in October, 2017 with the objective to achieve universal household electrification by providing electricity connections to all willing un-electrified households in rural areas and all willing poor households in urban areas in the country including Gujarat. State Government of Gujarat has reported that most of the houses were already electrified in the State of Gujarat before the launch of Saubhagya scheme. As electrification of households is a dynamic process, the State of Gujarat has reported electrification of 41,317 households since the launch of Saubhagya, up to 31.03.2019. Year-wise details of households electrified under various schemes of State Government of Gujarat are as under :

Year	Number of Connections
2016-17	68680
2017-18	61515
2018-19	68939
2019-20	71307
2020-21	57095
2021-22 (Feb-22)	47236
Total	374772

There is no upfront allocation of funds for any State/District under Saubhagya scheme. Funds are released for sanctioned projects in instalments based on the utilization of the amount released in the previous instalments. The State/UT-wise details of funds allocated and funds spent under Saubhagya, during the last three years, are presented at **Annexure**.

(d) : As reported by the States, all the inhabited un-electrified census villages across the country stood electrified on 28th April, 2018.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3826 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

State/UT-wise Sanctioned Cost and Grant disbursed under Saubhagya Scheme during the financial year 2018-19 to 2020-21:

Rs. in crore

Sl. No.	Name of the States/UTs	Sanctioned cost	Project Closure Cost	Grant Released to the States/UTs under Saubhagya				
				2018-19	2019-20	2020-21	Total	Funds Utilized
1	Arunachal Pradesh	323		139	14	-	153	153
2	Assam	973	898	403	121	118	642	642
3	Bihar	926	816	199	136	17	352	352
4	Chhattisgarh	648	654	219	32	42	293	293
5	Haryana	18	14	-	3	-	3	3
6	Himachal Pradesh	6	2	1	3	-	4	4
7	J&K	128		45	-	-	45	45
8	Jharkhand	887	472	83	4	60	147	147
9	Karnataka	79	80	-	40	-	40	40
10	Kerala	90	88	-	26	13	39	39
11	Ladakh	5		6	-	-	6	6
12	Madhya Pradesh	873	738	147	-	6	153	153
13	Maharashtra	406	363	140	43	-	183	183
14	Manipur	121		35	33	12	80	80
15	Meghalaya	276	242	98	88	1	187	187
16	Mizoram	46	46	35	-	6	41	41
17	Nagaland	64	60	34	-	-	34	34
18	Odisha	525	430	168	-	-	168	149
19	Punjab	2	1	-	-	0	0	0
20	Rajasthan	663	502	103	76	101	280	260
21	Sikkim	2	2	-	1	1	2	2
22	Telangana	35	28	-	15	-	15	15
23	Tripura	418	307	237	8	0	245	242
24	Uttar Pradesh	6,188	2,924	523	26	52	601	571
25	Uttarakhand	149	52	22	7	1	30	28
26	West Bengal	259	226	73	20	16	109	106
	Total	14,109	8,945	2,709	696	448	3,853	3,775

Note: Saubhagya scheme was launched in October, 2017.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3827
ANSWERED ON 05.04.2022

LOSSES INCURRED BY DISCOMS

3827 **SHRI K.C. RAMAMURTHY:**

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

- (a) the details of losses incurred by DISCOMS since last bailout package given by the Ministry, State DISCOM-wise and year-wise;
- (b) whether it is a fact that the Ministry is going to give ₹ 90,000 crores to DISCOMS to take care of their technical and commercial losses;
- (c) the reasons that DISCOMS are incurring the above losses;
- (d) the details of conditions put by the Ministry to avail the above ₹ 90,000 crores financial help from the Ministry; and
- (e) the details of the States that have installed prepaid smart meters?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (d) : As per their latest 'Report on Performance of State Power Utilities' for the year 2019-20, published by Power Finance Corporation (PFC) Ltd., the annual Aggregate Technical & Commercial (AT&C) losses for the country was 20.93%. The State-wise and year-wise details of AT&C losses are given at **Annexure-I**.

High losses are primarily because of tariffs being non-reflective of costs; poor billing and collection efficiencies; non-payment of electricity dues by State Government Departments; and non-payment/short payment by the State Government against the subsidies announced by them. All these aspects are related to deficiencies in the governance of DISCOMs owned by the State Governments.

In order to tide over the liquidity problems of the power sector, exacerbated by the outbreak of COVID-19, the Government of India had announced a Liquidity Infusion Scheme as part of Atmanirbhar Bharat Abhiyan on 13th May, 2020. Under this intervention, Rural Electrification Corporation (REC) and Power Finance Corporation (PFC) are extending special long term transition loans up to 10 years to DISCOMs for liquidating outstanding dues (as on 30.06.2020) of CPSE Gencos & Transcos, IPPs and RE generators. So far, Loans to the extent Rs.1,12,087 Crore have been disbursed under this initiative. The disbursement under the long term transition loans has been linked with DISCOMs undertaking specified reform measures. The conditions imposed for availing this liquidity injection are attached as **Annexure-II**.

.....2.

Further, the Central Government have approved a “Revamped Distribution Sector Scheme - A Reforms based and Results linked Scheme” with the objective of improving the quality and reliability of power supply to consumers through a financially sustainable and operationally efficient distribution sector. The Scheme aims to reduce the AT&C losses to pan-India levels of 12-15% and Average Cost of Supply (ACS) - Average Revenue Realized (ARR) gap to zero by 2024-25. The Scheme has an outlay of Rs.3,03,758 Crore with GBS of 97,631 Crore from the Central Government. The Scheme has two major components: Part ‘A’ – Financial support for up gradation of the Distribution Infrastructure and support for prepaid smart metering systems and Part ‘B’ – Training & Capacity Building and other Enabling & Supporting Activities. Recognizing that various DISCOMs are at different performance levels – both operational and financial, instead of adopting a one size fits all approach, the scheme envisages customized action plans as per the needs of the individual DISCOMs.

The scheme envisages a Results Evaluation Framework incorporating performance against result parameters and trajectories for improvement. The Results Evaluation Framework has two components (i) Pre-qualifying criteria; and (ii) Result Evaluation Matrix, details of which are enclosed as **Annexure-III & IV** respectively. Funds for a particular year would be released upon DISCOMs meeting the pre-qualifying criteria and achievement of at least 60% marks on the evaluation matrix.

(e) : The details of smart meters, including prepaid smart meters already installed in the country are available as **Annexure-V**.

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED
QUESTION NO. 3827 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

States/UTs-wise and Year-wise details of AT&C Losses

	2019-20
State/UT Sector	21.73
Andaman & Nicobar Islands	22.71
Andaman & Nicobar PD	22.71
Andhra Pradesh	10.77
APEPDCL	6.64
APSPDCL	13.17
Arunachal Pradesh	45.71
Arunachal PD	45.71
Assam	23.37
APDCL	23.37
Bihar	40.38
NBPDCL	29.50
SBPDCL	48.64
Chandigarh (Non-Uday UT)	4.60
Chandigarh PD	4.60
Chhattisgarh	23.68
CSPDCL	23.68
Dadra & Nagar Haveli	3.56
DNHPDCL	3.56
Daman & Diu	4.07
Daman & Diu PD	4.07
Goa	13.99
Goa PD	13.99
Gujarat	11.95
DGVCL	6.22
MGVCL	11.31
PGVCL	19.22
UGVCL	6.88
Haryana	18.19
DHBVNL	16.37
UHBVNL	20.68
Himachal Pradesh	11.68
HPSEBL	11.68
Jammu & Kashmir	60.46
JKPDD	60.46
Jharkhand	36.96
JBVNL	36.96

Karnataka	17.59
BESCOM	17.91
CHESCOM	21.72
GESCOM	17.87
HESCOM	15.31
MESCOM	15.33
Kerala	14.47
KSEBL	14.47
Lakshadweep	14.28
Lakshadweep ED	14.28
Madhya Pradesh	30.38
MPMaKVVCL	37.17
MPPaKVVCL	20.93
MPPoKVVCL	33.89
Maharashtra	19.92
MSEDCL	19.92
Manipur	20.27
MSPDCL	20.27
Meghalaya	34.32
MePDCL	34.32
Mizoram	20.66
Mizoram PD	20.66
Nagaland	52.93
Nagaland PD	52.93
Odisha (Non-Uday State)	28.94
CESU	29.03
NESCO Utility	24.45
SOUTHCO Utility	36.05
WESCO Utility	28.81
Puducherry	18.45
Puducherry PD	18.45
Punjab	14.35
PSPCL	14.35
Rajasthan	29.85
AVVNL	22.08
JdVVNL	38.26
JVVNL	27.83
Sikkim	28.88
Sikkim PD	28.88
Tamil Nadu	15.00
TANGEDCO	15.00
Telangana	21.54
TSNPDCL	34.08
TSSPDCL	15.57

Tripura	37.85
TSECL	37.85
Uttar Pradesh	30.05
DVVNL	39.74
KESCO	15.49
MVVNL	34.14
PaVVNL	18.64
PuVVNL	34.24
Uttarakhand	20.35
UPCL	20.35
West Bengal (Non-Uday State)	20.40
WBSEDCL	20.40
Private Sector	8.00
Delhi	8.19
BRPL	8.15
BYPL	8.57
TPDDL	7.98
Gujarat	4.59
Torrent Power Ahmedabad	5.07
Torrent Power Surat	3.43
Maharashtra	9.52
AEML	9.52
Uttar Pradesh	9.76
NPCL	9.76
West Bengal	9.06
CESC	9.30
IPCL	6.06
Grand Total	20.93

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3827 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

Conditions for availing loans under Rs.90,000 Crore liquidity infusion package announced by the Government under Atmanirbhar Bharat

The funding under the liquidity infusion package would be done in 2 tranches of Rs.45,000 Crore each.

(i) For sanction and release of tranche 1 the following undertaking will be taken from respective entities:

(a) DISCOMs to enable digital payments of electricity bills.

(b) DISCOMs to enable self-assessment by consumers (make provision for the consumer to send meter reading by picture of the meter or SMS to facilitate provisional billing). The bills will be settled and accounted once the meter is read. The amounts paid by consumers will be set off.

(c) The respective State Governments to provide an undertaking to liquidate the payments due to DISCOMs on account of electricity dues of Government departments/attached offices in three annual installments, and also install smart prepaid or prepaid meters in Government Departments/attached offices etc. so that in future the electricity dues of DISCOMs are paid regularly. The State Governments will also undertake to clear the dues of subsidies and put in place a system such that bills for subsidies are raised by DISCOMs and paid upfront every quarter. The above undertaking will be required prior to the release of the first installment.

(ii) For availing of tranche 2 the DISCOMs will have to submit details of implementation of the undertakings given at the time of tranche 1 and will have to give the following:

(a) A plan, endorsed by the State Government to bring down their losses over the next three or four years. This will involve steps to reduce theft, and for bringing down the ACS-ARR gaps.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3827 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

Pre-qualifying Criteria to be mandatorily met by DISCOM for Further Evaluation:

- (i) DISCOMs would publish quarterly un-audited accounts within 60 days of the end of each quarter during first two years of operation of the scheme (i.e. for FY 2021-22 and FY 2022-23) and thereafter audited quarterly accounts within 45 days from 3rd year onwards.
- (ii) Further, DISCOMs would publish audited annual accounts by end of December of the following year during first two years of operation of the scheme (i.e. for FY 2021-22 and FY 2022-23) and thereafter audited annual accounts by end of September of the following year from 3rd year onwards.
- (iii) DISCOMs will have ensured that no new Regulatory Assets have been created in latest tariff determination cycle.
- (iv) State Government to ensure 100% payment of subsidy for the previous year and advance payment of subsidy up to current period in line with section 65 of EA2003 and wipe out the remaining subsidy amount by the end of the project period.
- (v) All Government Departments/ Attached Offices/ Local Bodies/ Autonomous Bodies/ Boards/Corporations have made 100% payment of current electricity dues for the year under evaluation.
- (vi) Progress commensurate to commitment in putting Govt. Offices on prepaid meters.
- (vii) No. of days Payables to Creditors including Gencos for the year under evaluation is equal to or less than the projected trajectory as per results evaluation framework.
- (viii) Tariff order for the current year in which evaluation is being done and true up of penultimate year has been issued and implemented w.e.f. 1st April of current FY.

ANNEXURE-IV

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION NO. 3827 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

Summary of Results Evaluation matrix for evaluation of DISCOM performance under RDSS

Sl. No.	Category	Weightage for Evaluation
1.	Financial Sustainability	60
2.	Outcome of infrastructure Works	20
3.	Infrastructure Works	10
4.	Policy & Structural Reforms, Capacity Building and IT/OT Enablement	10
	Total	100

ANNEXURE-V

ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 3827 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

State/UT-wise data of Smart metering (as on 25-03-2022)

Sl. No.	State	Utility	Nos. of Smart Meters Installed	
			3	4
	1	2	of Smart type	of Smart Prepaid type (already included in column 3)
1	Andaman	EDANI	36,500	0
2	Andaman	EDANI	38,400	0
3	Andhra Pradesh	EPDCL	2,000	0
4	Assam	APDCL	70,000	2,720
5		APDCL	1,09,348	4,317
6		APDCL	46,027	0
7		APDCL	0	0
8		APDCL	0	0
9		APDCL	14,259	0
10	Bihar	NBPDCL	2,50,587	2,49,801
11		SBPDCL	3,58,843	3,58,039
12		SBPDCL (Gram Power)	30,500	30,500
13		IPCL	17,100	17,100
14		BEDCPL/SP ML	1,000	1,000
15	Chandigarh	CED	23,764	0
16		CED	0	0
17	Delhi	NDMC	63,474	0
18		TPDDL	1,95,000	0
19	Gujarat	UGVCL	23,760	0
20	Haryana	UHBVN	10,188	0
21		SGKC Lab	10	0
22		DHBVN	1,74,472	7
23		UHBVN	2,34,921	579
24	Himachal Pradesh	HPSEB	1,335	0
25		HPSEB	75,712	0
26	Jammu	JPDCL & KPDCL	43,695	0
27	Jharkhand	JBVNL	0	
28	Karnataka	CESCOM	20,916	
29	Kerala	CPT	805	
30	Madhya Pradesh	MP-West	1,24,477	0

31		MP-West	1,18,836	0
32	Odisha	OPTCL	4,000	0
33		Paradip Port Trust	500	
34	Puducherry	PED	28,910	0
35		PED	1,658	0
36	Punjab	PSPCL	88,107	0
37	Rajasthan	AVVNL	68,673	0
38		AVVNL	1,000	0
39		JaVVNL	2,40,820	0
40		JaVVNL	1,07,652	0
41		JaVVNL	70,000	0
42		JdVVNL	56,027	0
43	Tamil Nadu	TANGEDC O	99,322	0
44	Tripura	TSECL	43,081	0
45	Telangana	TSSPDCL	8,882	0
46	Uttar Pradesh	IITK	28	0
47		MVVNL	3,78,862	3,337
48		PVVNL	1,98,726	20
49		DVVNL	1,47,991	127
50		PuVVNL	3,21,433	1,135
51		KESCO	1,07,318	60,266
52	West Bengal	WBSEDCL	5,164	0
53		CESC	10,000	0
	Grand Total		40,74,083	7,28,948

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3828
ANSWERED ON 05.04.2022

EFFORTS TO MEET THE RISE IN DEMAND FOR POWER

3828 DR. NARENDRA JADHAV:

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

- (a) whether Government has conducted any study on the expected surge in the demand for Power in the country by 2030, if so, the details thereof;
- (b) if not, the reasons therefor;
- (c) whether India's current installed capacity of wind and thermal energy are expected to meet the country's electricity demand by 2030;
- (d) whether new renewable energy Power projects are being developed so as to meet increasing clean energy power demand, if so, the details thereof; and
- (e) if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (e): Central Electricity Authority (CEA) conducts Electric Power Survey (EPS) of the country every five years for estimating the electricity demand of the country on medium and long term basis as obligated under Section 73(a) of the Electricity Act, 2003. The 19th Electric Power Survey (EPS) Report covers electricity demand projection for the year 2016-17 to 2026-27 as well as perspective electricity demand projection for the year 2031-32 and 2036-37 for each State/UT.

India is adding to its power generation capacity. As per the study carried out by Central Electricity Authority, the All India installed capacity is likely to increase from present installed capacity of 3,95,607.86 MW as on 28.02.2022 to 8,17,254 MW as on 31.03.2030, which will be adequate to meet the electricity demand by 2030.

As on 28.02.2022, a total of about 152.899 Gigawatt (GW) of renewable energy capacity (including large hydro) has been installed in the country. The non fossil fuel based generation capacity (including renewable energy) is expected to be around 500 GW by the year 2030.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3829
ANSWERED ON 05.04.2022

HEAVY CROSS-SUBSIDY IN THE POWER SECTOR

3829 PROF. MANOJ KUMAR JHA:

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

- (a) the current per unit price charged to industrial, commercial, domestic and agricultural customers, and comparable international prices of the same;
- (b) the quantum of cross-subsidy that is given out in the process;
- (c) whether Government is cognizant of the fact that due to high rate charged to industrial users, they have opted to run separate lines on their own, if so, the details thereof, including the number of industrial units that have stopped receiving power from State-run DISCOMS in the country; and
- (d) the steps that Government is taking to rationalise these rates and prevent the migration of such customers?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The tariff for retail supply of electricity to all consumers, including industrial, commercial, domestic and agriculture customers, is determined by the respective State Electricity Regulatory Commission.

As per the available data, the tariffs (including Govt. subsidy, if any) for domestic consumers range from 1.40 Rs./kWh to 12.65 Rs./kWh. The tariffs for Non-Domestic category range from 3.89 Rs./kWh to 14.51 Rs./kWh. The agricultural tariffs range from 0 Re./kWh to 6.28 Rs./kWh. The industrial tariffs range from 3.35 Rs./kWh to 10.0 Rs./kWh. In most of other countries, generally the tariffs for industrial consumers are lower than the tariffs for households.

(b) : The cross subsidy among States varies across different categories of consumers. Cross subsidy for LT Commercial category ranges between 28% to 172%, for LT industrial category it ranges between 28% to 163%, for HT Commercial Category it ranges between 100% to 178% and for HT Industrial Category it ranges between 34% to 160% .

(c) : The Electricity Act 2003 has enabling provisions for captive generation. Section 9(1) of the Act provides for setting up of a captive generating plant and dedicated transmission lines while Section 9 (2) provides the right to open access for the purposes of carrying electricity from such captive generating plant to the destination of use. Accordingly, Cross subsidy surcharge is not levied in case open access is provided to a person or entity who has established captive generating plant for carrying electricity to the destination for own use. Generally, industries having high demand establish their own captive power plants.

The captive power plant installed capacity in industries having demand of 1 MW and above has increased from 409.52 MW in 1948 to 76,239.36 MW in 2020 whilst the generation from captive power plants has grown from 1299.56 GWh in 1949 to 239,566.75 GWh by 2019-20.

(d) : The Electricity Act 2003 provides that the tariff should be cost reflective. As per National Tariff Policy, 2016, Appropriate Commission would notify a roadmap such that tariffs are brought within $\pm 20\%$ of the average cost of supply. Accordingly, the Central Government has been requesting the State Commissions to define a roadmap for cross-subsidy reduction and take steps to reduce such subsidy to $\pm 20\%$ of the Average Cost of Supply (ACoS) in compliance with the provisions of the Tariff Policy, 2016.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3830
ANSWERED ON 05.04.2022

POWER FOR ALL BY 2022

3830 DR. L. HANUMANTHAIAH:

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

- (a) whether Government is on track to meet its promise of providing 24x7 electricity supply to all by 2022;
- (b) if so, the details of progress made as on date, and if not, the reasons therefor, including setting up of a revised target and/or deadline; and
- (c) the average daily power supply in rural areas and urban areas in all States and Union Territories year-wise from 2014 till date?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : The primary responsibility of providing 24x7 power supply to all consumers lies with the concerned Power Distribution Companies (DISCOMs).

Government of India, Ministry of Power had taken up a joint initiative during 2014 to 2017 with all States/UTs and prepared State/UT specific action plan documents for providing 24x7 power supply to all households, industrial & commercial consumers, and adequate supply of power to agricultural consumers as per State policy. This initiative was aimed at ensuring uninterrupted supply of quality power to existing consumers and providing access to electricity to all unconnected consumers by 2019 in a phased manner.

Government of India has been helping the States through its various schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) and Integrated Power Development Scheme (IPDS) to achieve the objective of providing uninterrupted power supply to all households. Under the recently launched Revamped Distribution Sector Scheme (RDSS), the State Power Distribution Utilities are financially supported to strengthen Distribution infrastructure and the fund releases under the scheme are linked to initiation of reforms and achievement of results that also includes trajectories for improving electricity supply hours to urban and rural consumers.

As per the independent surveys, the availability of power in surveyed areas has gone up from an average of 12 hours in 2015 to 20.50 hours in the year 2020. As per information made available by States on National Power Portal (NPP), the supply hours in urban areas and rural areas as on 30.11.2021, were 23.68 (HH.hh) & 20.92 (HH.hh). As reported by the Discoms on NPP, the Average hours of Power Supply in a Day for Rural and Urban areas during the last Three Years and the current year till November 2021(HH.hh) are as below:

	2018-19		2019-20		2020-21		2021-22 (up to Nov 21)	
	RURAL Supply	URBAN Supply	RURAL Supply	URBAN Supply	RURAL Supply	URBAN Supply	RURAL Supply	URBAN Supply
All India Level	20.7	23.8	20.8	23.7	21.2	23.7	20.9	23.7

State-wise Average hours of Power Supply in a Day for last Three Years and the current year till November 2021 (HH.hh) are given at **Annexure**.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) TO (c) OF UNSTARRED QUESTION NO. 3830 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

State-wise Average hours of Power Supply in a Day for last Three Years and the current year till November 2021 (HH.hh)

Sl. No.	Name of the State/UT	2018-19		2019-20		2020-21		2021-22 (upto Nov. 21)	
		RURAL	URBAN	RURAL	URBAN	RURAL	URBAN	RURAL	URBAN
		Supply	Supply	Supply	Supply	Supply	Supply	Supply	Supply
1	Andhra Pradesh	22.12	23.97	23.63	23.92	23.67	23.90	23.65	23.88
2	Arunachal Pradesh#*	0.00	0.00	0.00	0.00	0.00	22.73		22.73
3	Assam#*	0.00	23.73	0.00	23.80	0.00	0.00		23.52
4	Bihar	21.22	0.00	21.85	23.13	21.88	23.38	20.36	23.57
5	Chhattisgarh	0.00	23.77	0.00	23.98	0.00	23.98	21.54	23.78
6	Delhi**	0.00	0.00	0.00	0.00	0.00	0.00		23.99
7	Goa*	0.00	0.00	0.00	22.75	0.00	23.73		23.64
8	Gujarat	23.78	23.95	23.12	23.95	23.73	23.95	23.80	23.94
9	Haryana	19.62	23.28	19.23	23.27	19.95	23.40	19.34	23.60
10	Himachal Pradesh	15.82	0.00	15.65	23.85	15.83	23.85	12.37	23.90
11	Jammu and Kashmir	0.00	0.00	0.00	0.00	0.00	21.98		22.56
12	Karnataka	17.63	23.93	17.22	23.83	19.18	23.85	19.03	23.83
13	Kerala	21.22	0.00	21.97	23.98	21.00	23.92	19.62	23.92
14	Madhya Pradesh	23.33	23.70	23.03	23.85	22.65	23.93	23.06	23.89
15	Maharashtra	0.00	23.95	20.45	23.97	20.97	23.98	22.86	23.98
16	Meghalaya#	0.00	23.95	0.00	23.98	0.00	23.93		23.91
17	Manipur#*	0.00	0.00	0.00	0.00	0.00	0.00		23.65
18	Mizoram#	0.00	23.73	0.00	23.67	0.00	23.80		23.86
19	Nagaland#*	0.00	0.00	0.00	23.50	0.00	22.73		23.40
20	Odisha*	20.13	0.00	20.02	23.65	21.27	23.85	23.02	23.61
21	Puducherry*	22.10	0.00	20.45	0.00	23.15	0.00	20.31	
22	Punjab*	23.27	23.78	23.17	23.72	22.60	23.77	22.34	23.66
23	Rajasthan	21.30	23.92	21.30	23.88	21.37	23.98	21.86	23.90
24	Tamil Nadu*	20.77	0.00	20.97	23.97	21.52	0.00	22.14	
25	Telangana	22.05	0.00	22.22	23.92	22.15	23.92	21.85	23.93
26	Tripura*	19.68	0.00	19.55	0.00	19.55	23.98	20.34	23.91
27	Uttar Pradesh*	19.10	23.15	17.03	23.57	16.43	23.75	15.93	23.48
28	Uttarakhand	21.40	23.47	21.67	23.40	21.97	23.65	21.44	23.56
29	West Bengal*	18.18	23.97	23.07	23.97	23.07	23.98	23.49	23.80
	All India	20.7	23.8	20.8	23.7	21.2	23.7	20.9	23.7
Note 1	# Only Urban data is Available								
Note2	*States have not submitted data till Nov 2021 in FY 2021-22.								
Note3	States/UTs not present in the list are not mapped on NPP.								
Note4	**Delhi has been on boarded on NPP in April 2021. So data for previous FYs is not available on NPP.								

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3831
ANSWERED ON 05.04.2022

**FINANCIAL ASSISTANCE FOR REVERSE PUMPED STORAGE PROJECT IN
UPPER SILERU, VISAKHAPATNAM**

3831 SHRI SUBHAS CHANDRA BOSE PILLI:

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

- (a) whether Government has taken steps to offer 30 per cent financial assistance in Reverse Pumped Storage Project in Upper Sileru, Visakhapatnam; and
- (b) if so, the details thereof and if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : The project is presently at planning stage. Project proponent can avail financial assistance under Viability Gap Funding Scheme of Ministry of Finance according to applicable guidelines.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3832
ANSWERED ON 05.04.2022

KUDGI AND VALLUR THERMAL POWER PLANTS

3832 SHRI SUBHAS CHANDRA BOSE PILLI:

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

- (a) whether Government has considered the request of the State Government of Andhra Pradesh to surrender the thermal power allocation to Kudgi and Vallur Thermal Power Plants;
- (b) if so, the details thereof; and
- (c) if not, the reasons therefor?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY
(SHRI R.K. SINGH)

(a) to (c): The State Government of Andhra Pradesh have requested to exit from the long term Power Purchase Agreements pertaining to allocation of 244 MW from Kudgi Thermal Power Plant and 86.15 MW from NTECL Vallur Thermal Power Plant. The exit from the Power Purchase Agreements will be possible only if some other State is willing to take this power on long term basis. However, on 29.03.2022, Andhra Pradesh have again indicated that they need this power to meet the rise in demand in the State.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3833
ANSWERED ON 05.04.2022

COAL-FIRED POWER PLANTS

3833 SHRI SYED NASIR HUSSAIN:

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

- (a) the total number of coal-fired power plants in the country, State-wise;
- (b) whether Government is planning to establish more coal powered plants;
- (c) if so, whether any location has been identified for the same;
- (d) whether Government is planning to cut down the usage of coal in relation to 2030 goal set by Government with regard to climate change; and
- (e) if so, the results thereof?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : As on 28.02.2022, there are 181 Coal based power plants with capacity of 2,03,899.5 MW in the country. The State-wise list of these plants is given at **Annexure**.

(b) & (c) : As per Section 7 of the Electricity Act, 2003, any generating company may establish, operate and maintain a generating station without obtaining a license/permission under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of thermal power projects.

(d) & (e) : Coal & Lignite based generation capacity is 2,10,039.5 MW out of the total capacity of 3,95,145.86 MW i.e. about 53% as on 28.03.2022. As per Optimal Generation Capacity Mix for 2029-30 prepared by Central Electricity Authority (CEA), capacity for coal & Lignite based thermal projects would be 32% of total capacity in 2030.

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED
QUESTION NO. 3833 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

List of Coal/ Lignite based Stations as on 28.02.2022

State	No. of Plants
Haryana	5
Punjab	5
Rajasthan	8
Uttar Pradesh	19
Chhattisgarh	26
Gujarat	9
Madhya Pradesh	14
Maharashtra	23
Andhra Pradesh	9
Karnataka	7
Telangana	7
Tamil Nadu	10
Bihar	7
Jharkhand	7
Odisha	7
West Bengal	17
Assam	1
Total	181

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3834
ANSWERED ON 05.04.2022

TRANSMISSION SECTOR IN THE COUNTRY

3834 SHRI SUJEET KUMAR:

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

- (a) the State-wise details of investments, both national and international, that have gone into the transmission sector, and whether there is an under-investment;
- (b) the share of private sector enterprises that operate in the transmission sector, including the details of those enterprises that operate in the inter-State transmission of power;
- (c) the details of delayed transmission projects in the country including cost and time overruns estimated for each; and
2
- (d) the reforms that have been carried out in the transmission sector, and the proposed amendments pertaining to the sector that have been dropped from the Electricity (Amendment) Bill, 2021?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The investment in the inter-State transmission sector in the country has been adequate to meet the requirement. All regional grids are synchronously connected and the power transmission capacity in Inter State Transmission Systems (ISTS) is adequate for smooth flow of power resulting in “One Nation – One Grid – One Frequency”. At present, the inter-regional transmission capacity of the National Grid is about 1,12,250 MW (76,300 MW added since April, 2014). Considering the anticipated growth in generation and demand, sufficient transmission capacity has been planned in the country for evacuation of power from generating stations to the load centres including strengthening of existing transmission system.

During the period 2017-18 to 2021-22 (upto 25th March 2022), an investment of Rs. 1,58,844 Crore has been made by Central & State Transmission Utilities. State-wise details of the investment are at **Annexure-I**. In addition to the above, Private transmission developers have also invested an estimated Rs. 20,946 Crore during the period 2017-18 to 2021-22 (upto 28th Feb.,2022).

(b) : Out of 4,54,540 ckm of transmission lines (220 kV& above) commissioned in the country as on 28.02.2022, 34,843 ckm (7.66% share) of line have been commissioned by Joint Ventures / Private Sector Enterprises.

ISTS lines developed by private sector enterprises are given below:

Sl. No.	Name of Private Enterprises	Transmission line (in ckm)
1	Sterlite Power Transmission Ltd.	7555
2	Adani Transmission Ltd.	4992
3	Essel Infraprojects Ltd.	707
4	Kalpataru Power Transmission Ltd.	948
5	Larsen and Toubro Infra	979
6	Raichur Sholapur Transmission Company Ltd (RSTCL)	208
Total		15389

(c) : Presently 25 numbers of transmission projects being implemented by POWERGRID and Private TSPs (Transmission Service Providers) in the Inter State Transmission System are delayed as per the details given in **Annexure-II**. Based on approved revised cost estimate, the cost overrun for 17 numbers of PGCIL projects is Nil. Further, 8 numbers of delayed Private Transmission Projects are implemented on fixed tariff basis under Tariff Based Competitive Bidding.

(d) : During the year 2021-22, the Central Government has carried out following major reforms in the Transmission Sector :-

(i) Electricity (Transmission Planning, Development and Recovery of ISTS Transmission Charges) Rules, 2021 was issued on 01.10.2021. These Rules enable introduction of General Network Access, so that power sector utilities can have easier access to electricity transmission network across the country.

(ii) Planning and approval process of ISTS was simplified. Dual consultation for ISTS planning at regional level has been done away with and powers to approve ISTS system upto Rs. 500 crore have been delegated to Central Transmission Utility and National Committee on Transmission.

(iii) Central Transmission Utility (CTU) function has been separated from POWERGRID and Central Transmission Utility of India Ltd started function as CTU w.e.f. 1st April 2022.

(iv) Standard Bidding Documents for selection of developers for ISTS project have been revised to promote ease of doing business for private developers in transmission sector, address concerns of developers on risk sharing, encourage competition in transmission, and facilitate timely completion of transmission lines. All these provisions would bring in more private investment in transmission sector.

There is no proposal to amend the Electricity Act 2003 with respect to provisions pertaining to transmission sector.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3834 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

Details of Expenditure for Transmission Schemes (220kV & above) during the 13th plan (2017-22) in Central and State sector (Rs. Crore)

Sl. No.	Name of the Utility	States	Transmission Works					2021-22 (Exp. taken from NIP Transmission Projects up to 25.03.22)	Total
			2017-18	2018-19	2019-20	2020-21			
I	Central Sector								
	PGCIL	-	25,791	25,807	15,940	10,850	8,202	86,590	
	DVC	-	47	58	179	195	NA	479	
	Total CS	-	25,838	25,865	16,119	11,045	8,202	87,069	
II	State Sector								
a.	Northern Region								
1	DTL	Delhi	311	NF	NF	250	203	765	
2	HPPTCL	H.P	317	464	366	382	253	1,782	
3	HVPNL	Haryana	219	NF	405	505	29	1,157	
4	PDD, J&K	J&K	55	NF	NF	80	30	165	
5	PSTCL	Punjab	315	154	89	69	72	698	
6	RVPNL	Rajasthan	1,773	1,315	NF	NF	306	3,394	
7	UPPTCL	U.P.	3,201	NF	1,885	NF	3,209	8,295	
8	PTCUL	Uttarakhand	108	121	154	186	80	649	
	Total N.R.		6,299	2,053	2,899	1,472	4,184	16,906	
b.	Western Region								
1	CSPTCL	Chhattisgarh	169	NF	NF	NF	61	230	
2	GETCO	Gujarat	1,102	1,082	1,182	1,419	1,018	5,803	
3	GOA	Goa	0	NF	NF	22	11	34	
4	MPPTCL	M.P.	991	1,603	845	1,535	406	5,381	
5	MSETCL	Maharashtra	464	NF	596	767	406	2,234	
	Total W.R.		2,727	2,685	2,623	3,744	1,903	13,683	
c.	Southern Region								
1	APTRANSCO	A.P.	499	790	588	588	192	2,657	
2	KPTCL	Karnataka	696	1,180	1,294	NF	877	4,047	
3	KSEB	Kerala	16	152	568	982	413	2,130	
4	TANTRANSCO	Tamil Nadu	2,782	3,392	4,168	2,685	1,429	14,457	
5	TSTRANSCO	Telangana	2,475	2,913	NF	1,474	3,120	9,982	
6	Puducherry	Puducherry	11	NF	6	2	0	19	
	Total S.R.		6,479	8,427	6,624	5,732	6,031	33,293	
d.	Eastern Region								
1	BSPTCL	Bihar	0	NF	NF	NF	131	131	
2	OPTCL	Odisha	358	322	626	607	2	1,915	
3	JUSNL	Jharkhand	630	NF	NF	NF	778	1,408	
4	WBSETCL	W.B.	291	286	242	472	610	1,901	
5	Sikkim	Sikkim	0	NF	NF	NF	542	542	
	Total E.R.		1,279	608	868	1,078	2,063	5,897	
e.	North Eastern Region								
1	Arunachal Pradesh	Ar. Pradesh	0	0	Nil	NF	614	614	
2	AEGCL	Assam	49	24	7	34	218	332	
3	Manipur	Manipur	0	NF	NF	83	56	139	
4	MePTCL	Meghalaya	218	NF	Nil	NF	114	332	
5	Mizoram	Mizoram	9	25	Nil	NF	53	87	
6	Nagaland	Nagaland	14	47	Nil	NF	142	204	
7	Tripura	Tripura	0	0	Nil	7	282	290	
	Total N-E Region		290	97	7	124	1,480	1,997	
	Total State Sector		17,073	13,870	13,021	12,150	15,661	71,775	
	Total All India		42,912	39,735	29,140	23,194	23,863	1,58,844	
NF: Not furnished/ updated information for subsequent years not received.									
Note: The expenditure indicated above does not includes funds allocated by Central Government.									

**ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 3834 ANSWERED
IN THE RAJYA SABHA ON 05.04.2022**

Details of ongoing delayed ISTS Transmission Projects

Sl. No.	Name of Project	Executing Agency	Latest Approved Schedule	Anticipated date	Approved cost in Rs. Cr.	Delay in Months
1	North East / Northern Western Interconnector-I Project Part-C : Transmission System for immediate evacuation of Power from Lower Subhansiri HEP	Power Grid	Nov'22	Mar'23	1520	4
2	POWERGRID Bhuj Transmission Limited	Power Grid	Aug'21	Apr'22	1031	8
3	Transmission System for Solar Energy Zones in Rajasthan	Power Grid	Aug'21	Mar'22	2578.47	7
4	Creation of 400/220 kV Substations in NCT of Delhi during 12th Plan Period (Part-A)	Power Grid	Dec'21	Mar'22	1394.52	3
5	Transmission system for evacuation of power from 2x500 MW Neyveli Lignite Corp. Ltd. TS-I (Replacement) (NNTPS) in Neyveli, Tamil Nadu	Power Grid	July'21	Aug'22	219.66	13
6	Eastern Region Strengthening Scheme - XXIII	Power Grid	Sep'21	Mar'22	239.89	6
7	Eastern Region strengthening Scheme – XVIII SPV Name: Powergrid Medinipur Jeerat Transmission Limited	Power Grid	Dec'20	Apr'22	3500	16
8	Transmission System for providing connectivity to RE Projects at Bhuj-II (2000 MW) in Gujarat	Power Grid	Aug'21	Apr'22	1108	8
9	Implementation of 500 MVAR Thyristor Controlled Reactor at Kurukshetra	Power Grid	Mar'22	June'22	267.33	3
10	Northern Region System Strengthening - XL	Power Grid	Aug'21	Mar'22	572.98	7
11	Scheme to control fault level in Northern Region (Phase-II)	Power Grid	Feb'22	Apr'22	124.21	2
12	Northern Region System Strengthening - XLI	Power Grid	Jan'22	Mar'22	25.57	2
13	Transmission System for Providing connectivity to RE projects at Bikaner (PG), Fatehgarh-II & Bhadla-II	Power Grid	Sep'21	June'22	562.86	9
14	2 nos. of 220 kV Line Bays at Saharanpur (PG)	Power Grid	Feb'22	Mar'22	5	1
15	Transmission system for controlling high Short Circuit Current level at 400 kV Thiruvalem S/S	Power Grid	Nov'21	Mar'22	88.39	4
16	Eastern Region Strengthening Scheme - XXIII	Power Grid	Sep'21	Mar'22	239.89	6
17	Eastern Region Strengthening Scheme- XXIV (ERSSXXIV)	Power Grid	Mar'22	Apr'22	3	1
18	Additional 400 kV Feed to Goa and Additional System for Power Evacuation from Generation Projects pooled at Raigarh (Tamnar) Pool	Goa-Tamnar Transmission Project Limited (A Subsidiary of Sterlite Power TL)	Jul'22	Mar'23	1,531	8

19	WRSS – 21 Part – B – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS	Lakadia – Vadodara Transmission Project Limited; (A Subsidiary of Sterlite Power TL)	Aug'21	Jun'22	1,865	9
20	Additional inter regional AC link for import into southern region i.e Warora-Warangal and Chilakaluripeta – Hyderabad – Kurnool 765 kV link.	Warora Kurnool Transmission Ltd. (A Subsidiary of Adani TL)	Apr'20	Jan'23	4,805	32
21	System strengthening in northern region (NRSS XXXVI) along with LILO of Sikar-Neemrana 400 kV D/C line at Babai (RVPNL).	NRSS XXXVI Transmission Ltd. (A Subsidiary of Essel Infrapower TL)	May'20	Mar'23	255	33
22	Immediate evacuation for North Karanpura (3x660MW) generation project of NTPC (ERSS-XXIX).	North Karanpura Transco Ltd (ASubsidiary of Adani TL)	Feb'20	Dec'22	472	33
23	Transmission System for Western Region Strengthening Scheme – 21 (WRSS – 21) Part – A – Transmission System Strengthening for Relieving Over Loadings Observed in Gujarat Intra-State System Due to Re-injections in Bhuj PS	WRSS XXI(A) Transco Limited (A Subsidiary of Adani TL)	Aug'21	Jun'22	1,090	9
24	Transmission System for Transmission System Associated with RE Generations at Bhuj-II, Dwarka & Lakadia	Lakadia Banaskantha Transco Limited (A Subsidiary of Adani TL)	Feb'22	Jun'22	1,052	4
25	Transmission System for Jam Khambaliya Pooling Station and Interconnection of Jam Khambaliya Pooling Station for Providing Connectivity to RE Projects (1500 MW) in Dwarka (Gujarat) and Installation of 400/220 kV ICT along with Associated Bays at CGPL Switchyard	Jam Khambaliya Transco Limited (A Subsidiary of Adani TL)	Nov'21	Jun'22	394	7

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3835
ANSWERED ON 05.04.2022

PERMISSIONS TO NEW COAL BASED POWER PLANTS IN THE COUNTRY

3835 DR. ANBUMANI RAMADOSS:

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

- (a) whether Government has any policy proposal to stop issuing new permissions to coal based power plants in the country, if so, the details thereof; and
- (b) whether Government has any policy proposal for time bound closure of already existing coal based power plants to honour its commitment to UN to contain global climate change, if so, the details of timeline thereof?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : As per Section 7 of the Electricity Act, 2003, any generating company may establish, operate and maintain a generating station without obtaining a license/permission, if it complies with the technical standards relating to connectivity with the grid. Accordingly, sanction of the Government is not required for setting up of thermal power projects. Similarly, phasing out/retirement of units is decided by Power generating companies based on their own techno-economic and environmental reasons.

The present Coal & Lignite based generation capacity is 2,10,039.5 MW out of total capacity of 3,95,145.86 MW i.e. about 53% (as on 28.03.2022). As per Optimal Generation Capacity Mix for 2029-30 prepared by Central Electricity Authority (CEA), capacity for coal based thermal power projects would be 267 GW in 2030 out of total capacity of 817 GW i.e. about 32%.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3836
ANSWERED ON 05.04.2022

INSTALLATION OF HYDROELECTRIC POWER PLANTS ACROSS THE COUNTRY

3836 DR. KANIMOZHI NVN SOMU:

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

- (a) the details of plans proposed by Government for the installation of hydroelectric power plants across the country with the objective of reducing pollution, State-wise;
- (b) the details of hydroelectric and thermal power plants installed in Tamil Nadu during the last three years, district-wise; and
- (c) the details of progress of such projects undertaken in Tamil Nadu and the estimated time frame within which these are likely to be completed?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : As per Section 8 (1) of Electricity Act, 2003, any generating company intending to set-up a hydro generating station involving capital expenditure of more than 1000 Cr. is required to get its project cleared by the Central Electricity Authority.

As per information available in CEA, 98 HEPs with aggregate installed capacity of 58,196.5 MW are in pipeline in the country at various stages. The present status of these HEPs is as under:

- 31 HEPs with aggregate installed capacity of 21,065 MW are at Survey and Investigation stage. Details are given at **Annexure-I**.
 - Detailed Project Reports (DPRs) of 2 HEPs with aggregate installed capacity of 1,700 MW are at examination stage in CEA for concurrence. Details are given at **Annexure-II**.
 - DPRs of 29 HEPs with aggregate installed capacity of 22,768 MW have been concurred by CEA and yet to be taken up for construction for various reasons. Details are given at **Annexure-III**.
 - 36 HEPs (above 25 MW) with aggregate installed capacity of 12,663.5 MW are under construction in the country. Details are given at **Annexure-IV**.
- (b) :** No HEP was installed during last three years in the State of Tamil Nadu. However, 3 Thermal Power Projects (TPPs) with aggregate installed capacity of 1,525 MW have been commissioned during last three years in the State. Details are given at **Annexure-V**.
- (c) :** The details of under construction power projects in the State of Tamil Nadu alongwith their expected date of commissioning are given at **Annexure-VI**.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

As on 30.03.2022

Hydro Electric Projects under Survey and Investigation, being coordinated by Central Electricity Authority

Sl. No.	Name of Project	State	Developer	Type	Sector	Installed Capacity (MW)
1	Uri-I (Stage-II)	Jammu & Kashmir	NHPC Ltd.	ROR	Central	240
2	Dulhasti Stage-II	Jammu & Kashmir	NHPC Ltd.	ROR	Central	260
3	Luhri Stage-II	Himachal Pradesh	SJVN Ltd.	ROR	Central	172
4	Jangi Thopan Powari	Himachal Pradesh	SJVN Ltd.	ROR	Central	804
5	Purthi	Himachal Pradesh	SJVN Ltd.	ROR	Central	232
6	Bardang	Himachal Pradesh	SJVN Ltd.	ROR	Central	175
7	Sachkhas	Himachal Pradesh	SJVN Ltd.	ROR	Central	288
8	Sirkari Bhyol Rupsiabagar	Uttarakhand	UJVNL	ROR	State	120
9	Bokang Bailing	Uttarakhand	THDC India Ltd.	ROR	Central	200
10	Devsari	Uttarakhand	SJVN Ltd.	ROR	Central	194
11	Anjaw	Arunachal Pradesh	Lohit Urja Pvt. Ltd.	ROR	Private	270
12	Demwe Upper St-I	Arunachal Pradesh	Lohit Urja Pvt. Ltd.	ROR	Private	270
13	Niare	Arunachal Pradesh	Andra Power Private Limited	ROR	Private	860
14	Myntdu Leshka Stage-II	Meghalaya	MePGCL	ROR	State	210
15	Upper Indravati	Odisha	OHPCL	PSP	State	600
16	Balimela	Odisha	OHPCL	PSP	State	500
17	Upper Kolab	Odisha	OHPCL	PSP	State	320
18	Sharavathy	Karnataka	KPCL	PSP	State	2000
19	Saundatti	Karnataka	Greenko	PSP	Private	1260
20	MP 30 Gandhi Sagar	Madhya Pradesh	Greenko	PSP	Private	1440
21	Kodayar	Tamil Nadu	TANGEDCO	PSP	State	500
22	Sillahalla St-I	Tamil Nadu	TANGEDCO	PSP	State	1000
23	Upper Sileru	Andhra Pradesh	APGENCO	PSP	State	1350
24	Kurukutti	Andhra Pradesh	NREDCAP	PSP	State	1200
25	Karrivalasa	Andhra Pradesh	NREDCAP	PSP	State	1000
26	Gandikota	Andhra Pradesh	NREDCAP	PSP	State	1000
27	Owk	Andhra Pradesh	NREDCAP	PSP	State	800
28	Somasila	Andhra Pradesh	NREDCAP	PSP	State	900
29	Chitravathi	Andhra Pradesh	NREDCAP	PSP	State	500
30	Yerravaram	Andhra Pradesh	NREDCAP	PSP	State	1200
31	Warasagaon	Maharashtra	WRD, Maharashtra	PSP	State	1200
	Total					21065

Note: ROR- Run of River

PSP- Pumped Storage Project

ANNEXURE-II

**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION
NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

As on 30.03.2022

**Hydro Electric Schemes under Examination in Central Electricity Authority
for concurrence**

Sl. No.	Name of the Project	State	Sector	Developer	Installed Capacity (MW)
1.	Dugar HE Project	Himachal Pradesh	Central	NHPC	500
2.	Pinnapuram Standalone PSP	Andhra Pradesh	Private	Private	1200
	Total				1700

ANNEXURE-III

**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION
NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

As on 30.03.2022

**Hydro Electric Schemes concurred by Central Electricity Authority
and yet to be taken up for construction due to various reasons**

Sl. No	Name of Scheme	State/UT	Sector	Developer	Installed Capacity (MW)	Date of CEA concurrence	Remarks
1.	Teesta St-IV	Sikkim	Central	NHPC	520	13.05.10	EC accorded on 09.01.14. FC-I accorded on 26.02.13. FC-II yet to be obtained.
2.	Tawang St-I	Arunachal Pradesh	Central	NHPC	600	10.10.11	EC accorded on 10.6.11. FC-I & FC-II yet to be obtained.
3.	Tawang St-II	Arunachal Pradesh	Central	NHPC	800	22.09.11	EC accorded on 10.06.11 (valid till 09.06.2024). FC-I accorded on 08.01.14. FC-II yet to be obtained.
4.	TalongLonda	Arunachal Pradesh	Private	GMR	225	16.08.13	EC accorded on 07.08.15. FC-I & FC-II yet to be obtained.
5.	Etalin	Arunachal Pradesh	Private	EHEPCL	3097	12.07.13	EC recommended by EAC on 31.01.17. Formal letter will be issued after FC-I. FC-I & FC-II yet to be obtained.
6.	Sunni Dam	Himachal Pradesh	Central	SJVNL	382	11.02.21	EC accorded by MoEF&CC on 04.02.2022. FC-I accorded on 22.12.2021. FC-II yet to be obtained.
7.	Wah-Umiam Stage-III	Meghalaya	Central	NEEPCO	85	26.07.21	EC recommended by EAC on 26.02.2018. FC-I and FC-II yet to be obtained.
8.	Thana Plaun	Himachal Pradesh	State	HPPCL	191	07.09.2021	EC recommended by EAC subject to condition of Stage-I FC. FC-I and FC-II yet to be obtained.
9.	Kirthai-II	J&K	JV	CVPPL	930	14.06.19	EC recommended by MoEF&CC on 15.04.2021 and FC yet to be obtained.
10.	Turga Pumped Storage Project	West Bengal	State	WBSPCL	1000	05.10.16	EC accorded on 02.07.2018. FC-I accorded on 12.04.18. FC-II yet to be obtained.

11.	Sawalkot	J&K	Central	NHPC	1856	18.04.18	EC recommended by EAC on 31.01.2017 (MoEF&CC delisted EC for the project on 04.08.2017 and further relisted on 24.01.2022). FC yet to be obtained.
12.	Dikhu	Nagaland	Private	NMPPL	186	31.03.14	EC yet to be obtained by developer. FC not applicable as forest land is not involved.
13.	Attunli	Arunachal Pradesh	Private	AHEPCL	680	02.07.18	Both EC and FC are yet to be obtained.
14.	Kotlibhel Stage -IA	Uttarakhand	Central	NHPC	195	03.10.06	EC accorded on 09.05.2007. EC expired in May'2012. FC-I accorded on 13.10.2011 FC-I expired on Oct'2016 The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
15.	Kotlibhel Stage-IB	Uttarakhand	Central	NHPC	320	31.10.06	EC accorded earlier on 14.08.07 is withdrawn on 22.11.10. MoEF&CC declined FC-I on 07.07.11. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
16.	Alaknanda	Uttarakhand	Private	GMRL	300	08.08.08	EC accorded on 12.3.2008, FC-I accorded on 08.11.2011. FC-II accorded on 09.11.2012. The project is included in the list of 24 projects under review by Hon'ble Supreme Court.
17.	Kwar	J&K	Joint Venture	CVPPL	540	23.02.17	EC accorded on 10.04.17. FC accorded on 08.08.14. Investment approval under process.
18.	Loktak Downstream	Manipur	JV	LDHCL	66	05.05.17	EC accorded on 16.01.13. FC-I accorded on 03.03.11 & FC-II accorded on 22.12.2014. Investment approval under process.
19.	Dibang	Arunachal Pradesh	Central	NHPC	2880	18.09.17	EC accorded on 19.05.15. FC-I accorded on 15.04.15. FC-II accorded on 12.03.20. Investment approval under process.

20.	New Ganderwal	J&K	State	JKSPDC	93	10.06.14	EC restored on 9.10.15. FC accorded on 02.04.2012.
21.	Chhatru	Himachal Pradesh	Private	DSIL	126	15.01.15	EC recommended by EAC on 24.02.15, Letter will be issued after FC-I. FC-I & FC-II yet to be obtained. Govt. of Himachal Pradesh vide its letter dated 3.10.2019 has cancelled allotment of Chhatru HEP which was allotted on 28.7.2007 to M/S DCM Shriram Infrastructure limited, and terminated the Pre-Implementation Agreement (PIA) signed on 15.2.2008.
22.	Hirong	Arunachal Pradesh	Private	JAPL	500	10.04.13	EC & FC yet to be obtained by developer. Government of Arunachal Pradesh vide letter dated 21.04.2021 withdrawn/cancelled allotment of Hirong HEP to M/s. JAPL.
23.	Naying	Arunachal Pradesh	Private	NDSCPL	1000	11.09.13	EC & FC yet to be obtained by developer. Government of Arunachal Pradesh vide letter dated 27.04.2021 cancelled allotment of Naying HEP to M/s. NDSCPL.
24.	Lower Siang	Arunachal Pradesh	Private	JAVL	2700	16.02.10	EC & FC yet to be obtained by developer.
25.	Demwe Lower	Arunachal Pradesh	Private	ADPL	1750	20.11.09	EC accorded on 12.02.10. EC extended till 11.02.2023. FC-I accorded on 01.03.2012. FC-II accorded on 03.05.2013. Presently, Project is under NCLT.
26.	Kalai-II	Arunachal Pradesh	Private	Kalai PPL	1200	27.03.15	EC accorded 20.5.15. Final order will be issued after obtaining FC-I. FC-I and FC-II yet to be obtained.
27.	Heo	Arunachal Pradesh	Private	HHPPL	240	28.07.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II yet to be obtained.
28.	Tato-I	Arunachal Pradesh	Private	SHPPL	186	28.10.15	EC accorded on 10.11.15. FC-I accorded on 27.10.15. FC-II yet to be obtained.
29.	Miyar	Himachal Pradesh	Central	NTPC	120	07.02.13	EC accorded on 30.07.12. FC-I accorded on 27.07.12. FC-II yet to be obtained.
Grand Total					22768		

Abbreviations:

EC : Environment Clearance
FC : Forest Clearance
EAC : Environment Appraisal Committee

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

As on 30.03.2022

Hydro Electric Project (above 25 MW) under construction in the Country

Sl. No.	Name of Project	State	Sector	Developer	Installed Capacity (MW)	Anticipated commissioning Date
1	Polavaram	Andhra Pradesh	State	(APGENCO/ Irrigation Dept., A.P.)	960.00	2024-26
2	Subansiri Lower #	Arunachal Pradesh	Central	NHPC	2000.00	2022-24 (Aug'23)**
3	Lower Kopli	Assam	State	APGCL	120.00	2024-25 (Jun'24)
4	Parbati St. II	Himachal Pradesh	Central	NHPC	800.00	2022-23 (Mar'23)
5	Luhri-I	Himachal Pradesh	Central	SJVN	210.00	2025-26 (Jan'26)
6	Dhulasidh	Himachal Pradesh	Central	SJVN	66.00	2025-26 (May'25)
7	Uhl-III	Himachal Pradesh	State	BVPCL	100.00	2023-24 (Dec'23)
8	Shongtong Karcham	Himachal Pradesh	State	HPPCL	450.00	2024-25 (Mar'25)
9	Bajoli Holi	Himachal Pradesh	Private	GMR	180.00	2021-22 (Mar'22)
10	Tidong-I	Himachal Pradesh	Private	Statkraft IPL	100.00	2022-23 (Oct'22)
11	Kutehr	Himachal Pradesh	Private	JSW Energy Ltd	240.00	2025-26 (Nov'25)
12	Tangnu Romai	Himachal Pradesh	Private	TRPG	44.00	2024-25 *
13	Pakal Dul	UT of Jammu & Kashmir	Central	CVPPL	1000.00	2025-26 (July'25)
14	Parnai	UT of Jammu & Kashmir	State	JKSPDC	37.50	2023-24 (Dec'23)
15	Kiru	UT of Jammu & Kashmir	Central	CVPPL	624.00	2024-25 (Aug.'24)
16	Lower Kalnai	UT of Jammu & Kashmir	State	JKSPDC	48.00	2025-26 *
17	Ratle	UT of Jammu & Kashmir	Central	RHEPPL / NHPC	850.00	2025-26 (Feb'26)
18	Pallivasal	Kerala	State	KSEB	60.00	2022-23 (Sept'22)
19	Thottiyar	Kerala	State	KSEB	40.00	2022-23 (Dec'22)

20	Maheshwar	Madhya Pradesh	Private	SMHPCL	400.00	2023-24 *
21	Koyna Left Bank	Maharashtra	State	WRD, Maharashtra	80.00	2025-26 *
22	Shahpurkandi	Punjab	State	PSPCL/ Irrigation Deptt., Punjab.	206.00	2024-25 (Aug'24)
23	Teesta St. VI	Sikkim	Central	NHPC	500.00	2023-24 (Mar'24)
24	Rangit-IV	Sikkim	Central	NHPC	120.00	2024-25 (May'24)
25	Bhasmey	Sikkim	Private	Gati Infrastructure	51.00	2024-25*
26	Rangit-II	Sikkim	Private	Sikkim Hydro	66.00	2024-25 *
27	Panan	Sikkim	Private	Himagiri	300.00	2025-26 *
28	Kundah Pumped Storage Phase-I, II & III)	Tamil Nadu	State	TANGEDCO	500.00	2023-24 (Mar'24)
29	Vishnugad Pipalkoti	Uttarakhand	Central	THDC	444.00	2024-25 (Jun'24)
30	Naitwar Mori	Uttarakhand	Central	SJVNL	60.00	2022-23 (Dec'22)
31	Tapovan Vishnugad	Uttarakhand	Central	NTPC	520.00	2024-25 (Jun'24)
32	Vyasi	Uttarakhand	State	UJVNL	120.00	2021-22 (Mar'22)
33	Tehri PSS	Uttarakhand	Central	THDC	1000.00	2022-24*** (Jun'23)
34	Lata Tapovan	Uttarakhand	Central	NTPC	171.00	2025-26*
35	Phata Byung	Uttarakhand	Private	LANCO	76.00	2024-25 *
36	Rammam-III	West Bengal	Central	NTPC	120.00	2024-25 (Dec'24)
	Total:				12663.50	
* The Project is presently stalled. Commissioning is subject to immediate restart of works						
** 2 units (500 MW) likely during 2022-23 & 6 units (1500 MW) during 2023-24						
*** 2 units (500 MW) likely during 2022-23 & 2 units (500 MW) during 2023-24						
# Part of the project lies in Dhemaji district of Assam.						

ANNEXURE-V**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

As on 30.03.2022**Details of Thermal Power Plants commissioned during last three years in State of Tami Nadu**

Sl. No.	Project Name	District	Developer	LOA Date	Fuel	Unit No.	Installed Capacity (MW)	Date of capacity Addition
FY 2018-19								
NIL								
FY 2019-20								
1	Neyveli New TPP	Neyveli	NLC	Jun-11	Lignite	1	500	20.12.2019
FY 2020-21								
2	Neyveli New TPP	Neyveli	NLC	Jun-11	Lignite	2	500	03.02.2021
FY 2021-22								
3	Tuticorin TPP, St-IV	Thoothukudi	SEPC	Jan-14	Coal	1	525	30.11.2021
Total							1525	

ANNEXURE-VI

**ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION
NO. 3836 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

Power Projects under Construction in the State of Tamil Nadu

Sl. No.	Project	Capacity	Type	Physical Progress	Expected Commissioning
1	NCTPS Stage-III	800 MW	Thermal	89.10%	September 2022
2	Ennore SEZ	1320 MW	Thermal	51.80%	2023-2024
3	Udangudi Stage-I	1320 MW	Thermal	57.50%	2023-2024
4	Kundah	500 MW	Pumped Storage	27%	2024
5	Kollimalai	20 MW	Hydro	44.50%	2023

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3837
ANSWERED ON 05.04.2022

RISE IN THE DEMAND FOR ELECTRICITY

3837 # DR. KIRODI LAL MEENA:

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

- (a) the steps proposed to be taken by Government to fulfill the demand of electricity keeping in view that the demand of electricity is likely to increase three times between the year 2018 to 2040; and
- (b) whether the less investment in inefficient transmission system in Government power plants, lower price of electricity, extreme loss to distribution companies, declining water level in addition to cheap rate electricity are major challenges of power production sector in the country, if so, the steps taken/proposed to be taken by Government in this regard?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b): The steps taken by the Central Government to fulfill the demand of electricity are given at **Annexure**. As per the study by Central Electricity Authority, the installed generation capacity is likely to be around 817 GW by 2030 which will be adequate to meet the electricity demand by 2030.

The robust national grid is facilitating transfer of power from surplus regions to deficit regions without any transmission constraints. The inter-regional transmission capacity has been increased from 35,950 MW as on 31.03.2014 to 1,12,250 MW as on 28th February, 2022. The capacity of the electricity Grid is being expanded on a continuous basis matching with the growth in electricity generation and electricity demand.

The transmission system are mostly built through tariff based competitive bidding route. However, the Central Government is also funding Transmission schemes worth around Rs.16,000 crore in UT of J&K, UT of Ladakh and North Eastern States. The intra-State transmission lines are built by the State transmission companies.

In order to meet the growing demand of the electricity consumers, the distribution network also requires upgradation and augmentation on continuous basis, which are undertaken by the distribution companies. The Central Government is also assisting the States for creation/argumentation of distribution infrastructure through its various schemes including Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS), and Revamped Distribution Sector Scheme (RDSS) to enable them to achieve the objective of providing uninterrupted power supply to all consumers. The new scheme RDSS has an outlay of Rs.3,03,785 crore and an estimated gross budgetary support of Rs.97,631 crore from Central Government. RDSS aims at bringing down losses of distribution utilities.

ANNEXURE

**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED
QUESTION NO. 3837 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

The following steps are taken to increase the power generation:

- i. Thermal Projects totaling to 28460 MW are under construction in the country.
- ii. Presently, there are 36 Large Hydro Projects (above 25 MW) totaling to 12663.5 MW which are under implementation in the country.
- iii. Nuclear capacity amounting to 8700 MW are under construction and 7000 MW nuclear power projects have been accorded Administrative Approval and Financial Sanction.
- iv. Hon'ble Prime Minister at Glasgow COP26 Summit has set a target to achieve 500 GW installed capacity from non-fossil fuel based capacity (Hydro, Nuclear, Solar PV, Wind, Biomass etc.) by 2030.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3838
ANSWERED ON 05.04.2022

OUTSTANDING DEBT OF POWER DISTRIBUTION COMPANIES

3838 SHRI BINOY VISWAM:

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

- (a) whether it is a fact that there are large outstanding dues of power distribution companies towards Central and State power generation stations, IPPs and renewable energy generators;
- (b) if so, the details thereof, along with details of the outstanding debt and total amount recovered till date, of the top ten power DISCOMS;
- (c) the main reasons for the large outstanding dues and the steps being taken to recover the same; and
- (d) the impact, short and long term, of this surmounting debt, both on the power sector and on the common consumer?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : As per data provided by the power sector Generating companies, on the PRAAPTI Portal, details of total overdues of DISCOMS towards Central power generation stations, Independent Power Producers (IPPs) and Renewable Energy (RE) generators as on 31.12.2021, as on 31.01.2022 and as on 28.02.2022 are Rs. 95,717 Cr., Rs. 98,545 Cr. and Rs. 1,00,987 Cr. respectively. The State-wise details are placed at **Annexure-I**. The outstanding debt of top 10 DISCOMS, as on 31st March, 2020 along with the net decrease and increase in debt levels in comparison to 31st March, 2019 is placed at **Annexure-II**.

(c) : Main reasons for the increase in outstanding dues payable to GENCOs and poor financial performance of DISCOMS are: tariffs are not reflective of costs; poor billing and collection efficiencies; non-payment of electricity dues by State Government Departments; non-payment/short payment by the State Government against the subsidies announced by them. All these aspects are related to deficiencies in the governance of DISCOMS.

The Government of India has made several interventions to improve financial and operational efficiencies of DISCOMS linked to reform measures including Liquidity Infusion Scheme (LIS); Additional Borrowing of 0.5% of GSDP to States linked to power sector reforms; introducing additional prudential norms for lending by Power Finance Corporation (PFC) Limited and REC Limited; and Revamped Distribution Sector Scheme (RDSS). Fund admissibility to States and DISCOMS in all these measures will be conditional on their taking steps to improve their operational and financial efficiencies.

Further, the Government had also issued an order dated 28th June, 2019 enforcing opening and maintaining of adequate Letter of Credit (LC) as payment security mechanism under Power Purchase Agreements (PPAs) by Distribution Licensees. The order mandates NLDC & RLDC to dispatch power only after confirming opening of LC. These reform measures will improve the financial health of DISCOMs which will improve the liquidity situation leading to reduction in outstanding dues to Power Generating companies (GENCOS).

Furthermore, all the Distribution Companies are continuously pursued by the Generating Companies and Inter State Transmission licensee for payment of outstanding dues. In case of default, notices for regulation of power supply are served and Tripartite Agreement between Reserve Bank of India (RBI) and State Government is also invoked for recovery of dues.

(d) : Poor liquidity arising out of the adverse financial position of DISCOMs not only causes problems to consumers in terms of poor power supply; but also causes problems upstream in the power sector value chain. Cash strapped DISCOMs find it difficult to pay their creditors, including Generating Companies, who in turn are not able to pay for Coal supplies and Railways freight, as well as salaries to their Staff and repayment of Bank Loans taken for the construction of the plant.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3838 ANSWERED IN THE RAJYA SABHA ON 05.04.2022

Overdues of State DISCOMs towards Gencos (CPSEs, IPPs, REs) excluding State Gencos (As per PRAAPTI Portal as on 16.03.22) (Overdue figures do not include disputed amount) (All amount in Rs. Cr.)													
Sl. No.	States/UTs	As on 31.12.2021				As on 31.01.2022				As on 28.02.2022			
		CPSEs	IPPs	REs	Total	CPSEs	IPPs	REs	Total	CPSEs	IPPs	REs	Total
1	Andaman And Nicobar Islands	10	-	-	10	7	-	-	7	8	-	-	8
2	Andhra Pradesh	322	408	6,581	7,312	502	401	6,630	7,534	386	461	6,691	7,538
3	Arunachal Pradesh	-	-	-	-	-	-	-	-	-	-	-	-
4	Assam	1	-	2	2	1	-	2	2	1	-	4	5
5	Bihar	0	530	109	638	0	593	98	691	0	589	94	683
6	Chandigarh	75	-	-	75	75	-	-	75	78	-	-	78
7	Chhattisgarh	11	64	24	99	11	79	27	117	11	85	24	120
8	Dadra & Nagar Haveli and Daman & Diu	4	402	-	406	4	402	-	406	4	402	-	406
9	Delhi	616	5	-	620	606	5	-	611	553	5	-	557
10	Goa	9	-	-	9	9	-	-	9	9	-	-	9
11	Gujarat	19	11	238	268	19	11	237	268	19	81	238	338
12	Haryana	53	1,327	-	1,381	29	1,269	-	1,298	66	688	-	754
13	Himachal Pradesh	4	1	-	5	4	1	-	5	13	1	-	15
14	Jammu And Kashmir	6,081	6	-	6,088	6,538	7	-	6,544	6,857	7	-	6,864
15	Jharkhand	3,064	-	-	3,064	3,134	-	-	3,134	3,567	-	-	3,567
16	Karnataka	1,689	1,070	2,372	5,131	1,659	1,051	2,351	5,061	1,670	1,077	2,399	5,146
17	Kerala	64	397	-	461	63	409	-	472	65	417	-	482
18	Lakshadweep	-	-	-	-	-	-	-	-	-	-	-	-
19	Madhya Pradesh	897	2,640	1,769	5,306	396	2,856	1,784	5,036	396	2,991	1,782	5,169
20	Maharashtra	411	16,505	1,623	18,539	413	17,262	1,686	19,361	413	17,135	1,735	19,282
21	Manipur	51	-	-	51	43	-	-	43	45	-	-	45

22	Meghalaya	514	-	-	514	532	-	-	532	548	-	-	548
23	Mizoram	25	-	-	25	3	-	-	3	12	-	-	12
24	Nagaland	-	-	-	-	0	-	-	0	0	-	-	0
25	Odisha	0	245	3	247	0	248	3	250	0	248	3	250
26	Puducherry	19	-	-	19	22	-	-	22	24	-	-	24
27	Punjab	47	1,075	130	1,252	76	1,075	157	1,307	83	1,075	168	1,326
28	Rajasthan	436	9,195	1,287	10,917	371	8,889	1,479	10,739	509	8,846	1,497	10,852
29	Sikkim	39	-	-	39	47	-	-	47	48	-	-	48
30	Tamil Nadu	6,083	8,189	3,255	17,527	6,874	8,710	3,242	18,826	6,967	9,385	3,307	19,658
31	Telangana	836	2,951	2,445	6,233	892	3,171	2,515	6,578	914	3,418	2,560	6,891
32	Tripura	162	-	-	162	156	-	-	156	146	-	-	146
33	Uttar Pradesh	629	8,091	15	8,735	750	8,104	15	8,868	1,147	8,462	15	9,624
34	Uttarakhand	2	-	-	2	6	-	-	6	6	-	-	6
35	West Bengal	66	512	1	579	3	533	1	537	2	533	1	536
	Total	22,239	53,624	19,853	95,717	23,244	55,075	20,226	98,545	24,567	55,903	20,517	1,00,987

ANNEXURE-II**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3838 ANSWERED IN THE RAJYA SABHA ON 05.04.2022**

Total Borrowings - Top 10 Discoms

Sl. No.	Name of Utility	Total Borrowings as on March 31, 2020	Total Borrowings as on March 31, 2019	Increase in Total Borrowings from 2018-19 to 2019-20
1	TANGEDCO	1,24,413	1,13,438	10,975
2	MSEDCL	39,086	35,197	3,889
3	APSPDCL	20,436	13,601	6,836
4	KSEBL	20,310	19,471	839
5	MPMaKVVCL	18,178	16,913	1,265
6	MPPoKVVCL	17,535	16,030	1,505
7	JVVNL	17,185	19,391	-2,206
8	DVVNL	17,001	17,999	-998
9	PSPCL	16,258	30,473	-14,215
10	JdVVNL	16,184	16,513	-329

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3839
ANSWERED ON 05.04.2022

COAL STOCK IN THERMAL POWER PLANTS

3839 SHRI PRABHAKAR REDDY VEMIREDDY:

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

- (a) whether it is a fact that Government's guidelines mandate thermal power projects to stock coal for 14 days to avoid any crisis;
- (b) if so, the reasons that many thermal power plants are not abiding by this and keeping stocks only for 2-3 days;
- (c) the reasons that there is coal shortage and the thermal power plants and States are running helter-skelter for coal; and
- (d) the present status of coal production, supply and imports?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) to (c) : To maintain adequate coal stock by thermal power plants, the Government on 06.12.2021 has issued the revised coal stocking norms which mandate the power plants to maintain coal stock at a daily requirement of 85% PLF for 12 to 17 days in case of pithead plants and 20 to 26 days in case of non-pithead plants, with seasonal variation based on despatch/consumption pattern during the year.

The coal stock on 28th March, 2022 was 25.5 MT, which is sufficient for an average of about 9 days at a requirement of 85% PLF.

(d) : During April, 2021 to February, 2022, the production of coal from CIL, SCCL and Captive mines allotted to power sector and coal despatched to power sector were as under:

(in MT)

April, 2021 to February, 2022	CIL	SCCL	Captive Mines allocated to power sector	Total
Coal Production	542.4	58.6	73.4	674.4
Coal Despatch to Power Sector	487.9	48.9	64.1	600.9

Further, the coal imported by power sector during April, 2021 to February, 2022 was about 24.2 MT.

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO.3840
ANSWERED ON 05.04.2022

POLICY ADVOCACY ARM

3840 # SMT. GEETA ALIAS CHANDRAPRABHA:

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

- (a) the objective of the Policy Advocacy Arm; and
- (b) the benefits that it would accrue to the common man, the details thereof?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY
(SHRI R.K. SINGH)

(a) : Power Foundation, a registered Society under the Societies Registration Act, 1860 has been established by the Central Public Sector Undertakings with the objectives to carry out/sponsor research on power and allied sectors providing authoritative analysis, data, policy recommendations and real-world solutions to help draw up smooth pathways for India's energy transition, identifying and resolving challenges therein, promotion of renewable energy in various sectors of the economy & leading to electrification of the economy, e-mobility, switch to electric cooking using Renewables and also to provide specialized training and consultancy services.

(b) : The Power Foundation will work towards sustainability and viability of the power and allied sectors in the new energy paradigm which would benefit to the common man by way of ensuring reliable and affordable power with reduced emissions.
