

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:1892
ANSWERED ON:14.03.2002
T AND D LOSSES OF ELECTRICITY
SATYAVRAT CHATURVEDI;SUNDER LAL TIWARI

Will the Minister of POWER be pleased to state:

- (a) whether the Government have fixed a target to bring down the distribution and transmission losses of electricity in the country to an average of 15 per cent at the national level;
- (b) if so, the details thereof;
- (c) the time by which the Government have decided to achieve the said target;
- (d) the percentage of such losses in developed and developing countries of the world; and
- (e) the time by which the target is likely to be achieved?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRIMATI JAYAWANTI MEHTA)

(a) to (e) : Central Electricity Authority have issued guidelines to States for reduction of transmission & distribution losses to between 10-15%. 20 States have signed Memoranda of Understanding (MOUs) with the Ministry of Power for reform of the power sectors. The release of assistance under the Accelerated Power Development Programme (APDP) to the States would be linked to achievement of reform milestones. Reduction of transmission & distribution losses through metering, energy audit, control of theft etc. is one of the important milestones included in the MOUs.

A Statement indicating the transmission & distribution losses in developed and developing countries of the world is enclosed at Annexure-I & II respectively.

Annexure I

Annexure referred to in reply to Parts (a) to (e) of Lok Sabha Unstarred Question No.1892 for 14.3.2002 regarding T&D Losses of Electricity.

PERCENTAGE TRANSMISSION AND DISTRIBUTION LOSSES IN DEVELOPED COUNTRIES VIS A VIS INDIA.

Country	1989	1990	1991	1992	1993
Austria	7.19	7.34	7.44	7.15	7.59
Belgium	5.64	5.82	5.59	5.51	5.60
Canada	9.45	8.44	8.74	8.46	8.25
Czechoslovakia	7.91	7.86	-	8.50	10.34
Denmark	5.65	5.20	6.92	6.70	6.93
Finland	5.64	5.10	5.04	5.48	5.01
France	8.25	8.19	8.28	7.64	8.02
Germany	-	5.45	5.17	4.87	5.08
Greece	8.12	9.05	8.88	7.92	8.66
Hungary	11.11	11.09	11.06	9.43	13.66
Iceland	8.58	8.88	8.74	7.65	6.72
Ireland	9.70	9.78	10.00	9.71	9.61
Israel	5.06	5.22	5.43	5.06	4.65
Italy	8.54	7.83	8.15	7.84	8.31
Netherlands	4.53	4.58	4.52	4.59	4.94
Norway	8.53	7.49	7.40	7.51	8.13
Poland	10.58	9.15	12.43	13.85	15.19
Portugal	12.31	12.31	12.27	12.32	12.46
Romania	6.16	8.96	10.16	10.85	11.25
Spain	9.10	9.85	10.01	10.05	10.10
Sweden	7.20	6.98	6.57	7.25	7.72
Switzerland	8.03	7.97	7.97	8.03	7.98
U S S R	9.45	9.32	-	-	-
Russian Fed	-	8.84	8.98	9.53	9.26

Ukraine	-	9.03	9.53	10.21	10.85
Ukraineian SSR	8.50	-	-	-	-
U.K.	8.53	8.39	8.80	7.49	7.85
U.S..A.	5.70	9.93	7.93	8.40	8.66
Uzbekistan	-	10.40	9.43	10.09	9.72
Yugoslavia	9.89	-	10.25	-	-
India@	23.28	22.89	22.83	21.80	21.41

Note/Source

1. From Annual Bulletin of Electric Energy Statistics for Europe, U.N. Publication
2. General Review published by Central Electricity Authority
3. NA - Data not available/Not applicable
- 4 @ For Financial Years

Annexure II

Annexure referred to in reply to Parts (a) to (e) of Lok Sabha Unstarred Question No. 1892 for 14.3.2002 regarding T&D Losses of Electricity.

PERCENTAGE TRANSMISSION AND DISTRIBUTION LOSSES IN DEVELOPING COUNTRIES

COUNTRY	1989	1990	1991	1992	1993	1994
ALGERIA	18.51	15.07	16.32	13.31	17.10	17.50
BANGLA DESH	30.10	35.57	38.95	39.10	33.98	33.30
BARBADOS	9.73	9.55	7.86	7.27	8.56	8.24
BELIZE	11.11	9.80	9.80	9.35	9.35	9.35
BOLIVIA	14.83	16.71	15.91	15.91	14.00	13.67
BRAZIL	13.70	13.62	14.67	14.13	14.43	15.26
BULGARIA	11.79	11.41	15.78	15.67	15.47	15.31
CHILE	15.41	12.38	12.87	11.93	-	-
CHINA	7.54	7.44	7.68	7.75	7.16	6.44
COLOUMBIA	24.25	23.70	22.94	20.48	22.74	23.29
COASTA RICA	11.03	14.33	11.45	11.46	11.04	8.00
CUBA	18.05	18.44	16.82	15.99	16.10	16.10
DOMINICAN REPUBLIC	34.01	41.04	42.87	42.48	38.81	38.80
EL- SALVADOR	18.05	19.02	16.10	16.42	13.75	13.75
FIJI	9.76	9.88	12.32	13.58	14.63	14.94
FRENCH GUYANA	12.37	12.17	11.87	12.41	12.67	14.98
GUATEMALA	16.08	16.67	15.65	15.36	18.01	16.43
HONDURAS	24.83	25.48	26.53	27.56	28.25	28.14
INDONESIA	21.93	22.47	20.95	17.97	17.18	16.75
JAMAICA	19.35	17.90	18.71	20.66	25.17	24.28
JORDAN	10.99	10.07	10.51	11.00	10.43	9.94
KENYA	15.46	15.45	15.41	15.07	15.73	15.01
REPUBLIC OF KOREA	5.93	5.49	5.50	5.66	5.48	5.51
KUWAIT INCL. PART OF						
NEUTRAL ZONE	9.02	8.40	NA	NA	NA	NA
MALAYSIA	11.05	8.71	12.13	7.89	-	9.55
MYANMAR	35.20	-	37.39	38.44	37.71	36.13
NEPAL	28.39	28.28	28.38	24.66	24.94	25.83
NICARAGUA	21.62	19.38	24.06	24.04	25.88	25.22
PAKISTAN	20.64	21.35	20.55	22.94	22.89	23.60
PERU	-	-	2.75	2.58	3.25	5.81
PHILIPPINES	16.10	13.79	13.54	17.23	17.70	17.29
SRI LANKA	17.26	16.78	18.25	16.89	17.28	17.82
THAILAND	10.20	10.85	11.08	10.67	8.41	9.90
TRINIDAD & TOBAGO	11.77	9.09	13.43	9.55	8.87	9.31
TUNISIA	13.40	12.77	12.40	11.76	11.32	11.26
URUGUAY	19.12	21.64	19.96	22.37	19.80	20.44
VENEZUELA	17.80	21.73	17.70	17.10	NA	NA
ZIMBABWE	6.76	9.74	12.81	9.87	14.57	15.49
INDIA @	23.28	22.89	22.83	21.80	21.41	21.13

Note/ Source:

1. ENERGY BALANCES AND ELECTRICITY PROFILES -UN PUBLICATION
2. GENERAL REVIEW PUBLISHED BY CEA
3. N.A. - DATA NOT AVAILABLE/ NOT APPLICABLE
4. @ - FOR FINANCIAL YEARS