

INDIA'S POWER CONSUMPTION BACK TO NORMAL

*Prepared by K Asokan (Director, InSDES, Shoranur
&
P Subhash (InSDES, Shoranur)*

Power consumption in India reached the level prior to the lock down during the 4th stage of lock down. Despite this the consumption in May 2020 is 15% lower than the consumption in May last year. 33.5% increase in power consumption in the Northern Region due to the heat wave and ease of lock down conditions had resulted in the overall increase in power consumption in the country. The consumption in all other 4 regions of the country are lower than that during the pre-lock down period. Consumption details are given in the table below.

Table-1

REGION WISE COMPARISON OF DAILY AVERAGE CONSUMPTION						
REGIONS	NORTHERN REGION	WESTERN REGION	SOUTHERN REGION	EASTERN REGION	NORTH-EASTERN REGION	ALL INDIA
Daily Average Consumption BEFORE LOCK DOWN	830.29	1156.57	1125.00	368.41	41.79	3522.14
Daily Average Consumption During 4 th Stage lock Down	1108.07	1093.86	923.00	360.07	39.79	3524.71
Daily Average Consumption for May 2020	982.42	1046.71	898.10	356.77	39.55	3323.52
Daily Average Consumption for May 2019	1180.00	1229.00	1017.00	453.00	42.00	3921.00
Difference in % (Between 4 th Stage & Pre-Lock down)	33.46	-5.42	-17.96	-2.26	-4.79	0.07
Difference in % (Between May 2020 & 2019)	-16.74	-14.83	-11.69	-21.24	-5.84	-15.24

In the Northern Region, Power consumption in Punjab increased by 57%. Increase in consumption in Uttar Pradesh is 54% and that in Rajasthan is 12% (Refer Table-2 below).

The consumption in Southern Region fell 18% during the 4th stage lock down compared to pre-lock down period. Telengana experienced 31% decrease in consumption followed by Karnataka (25%), Kerala (14%) and Tamil Nadu (11%). The wide spread rains received in May in this region is one of the reasons for decrease in consumption. The consumption in Eastern Region was adversely affected due to the cyclone “ Amphan” during the 3rd week of May 2020. Consumption in this region fell 2.26% during 4th stage compared to 1% during the 3rd stage. A comparison of daily average consumption of 10 top consuming states in India is given below.

Table-2

COMPARISON OF DAILY AVERAGE CONSUMPTION (in MU) OF 10 TOP CONSUMING STATES										
STATES	MAHARASHTRA	GUJRATH	UTTAR PRADESH	TAMIL NADU	RAJASTHAN	MADHYA PRADES	KARNATAKA	TELENGANA	ANDHRA PRADES	PUNJAB
Daily Average Consumption BEFORE LOCK DOWN	480.2	349.9	244.8	339.5	210.0	199.8	251.7	242.9	199.9	99.8
Daily Average Consumption During 4 th Stage lock Down	445.6	316.8	377.0	301.1	235.4	210.6	188.2	167.5	187.3	157.0
Daily Average Consumption for May 2020	428.8	307.8	330.1	289.9	217.4	199.8	195.1	155.5	179.5	133.2
Daily Average Consumption for May 2019	498	379	409	342	230	226	216	172	195	154
Difference in % (Between 4 th Stage & Pre-Lock down)	-7.20	-9.46	54.02	-11.31	12.14	5.41	-25.23	-31.05	-6.30	57.30
Difference in % (Between May 2020 & 2019)	-13.89	-18.79	-19.29	-15.22	-5.50	-11.61	-9.66	-9.62	-7.94	-13.49

Consumption in 4 states (Punjab, Uttar Pradesh, Rajasthan and Madhya Pradesh) during 4th stage lock down are higher than that before lock down. But the consumption during May 2020 in all the states are lower than that of May last year.

Power consumption in Kerala in May 2020 is 14.65% lower than that of May 2019. Kerala’s consumption during 4th stage of lock down is almost the same as that during 3rd

stage due to the wide spread rain received in the state . A comparison of consumption in Kerala is given below.

Table-3

COMPARISON OF DAILY AVERAGE CONSUMPTION (in MU) OF KERALA STATE					
Daily Average Consumption BEFORE LOCK DOWN	Daily Average Consumption During 4 th Stage lock Down	Daily Average Consumption for May 2020	Daily Average Consumption for May 2019	Difference in % (Between 4 th Stage & Pre-Lock down)	Difference in % (Between May 2020 & 2019)
82.5	70.96	70.5	82.6	-13.99	-14.65

Peak Demand met

Peak demand met in May 2020 was 166424 MW (on 26/05/2020 – during 4th stage lock down). This is 8.9% lower than 182610 MW, the peak demand met in May last year on 30/05/2019 (All time peak demand). The demand met during 4th stage lock down is 2.7% less compared to 171063 MW , the demand met prior to lock down. The month wise all India peak demand met during 2019 & 2020 and during various stages of lock down are given below.

Table-4

ALL INDIA PEAK DEMAND MET - MONTH-WISE				
MONTH	2019		2020	
	MW	DATE& TIME	MW	DATE& TIME
Jan	162434	18.01.19 (09:26)	171063	28.01.20 (09:27)
Feb	161673	05.02.19 (09:27)	176579	18.02.20 (07:56)
Mar	168745	29.03.19 (19:25)	170170	03.03.20 (09:24)
Apr	176810	29.04.19 (22:35)	132779	30.04.20 (22:16)
May	182610	30.05.19 (14:58)	166424	26.05.20 (15:33)
Jun	182591	14.06.19 (22:37)		
Jul	175162	03.07.19 (21:31)		
Aug	177801	29.08.19 (19:33)		
Sep	173158	09.09.19 (19:30)		
Oct	164259	14.10.19 (19:00)		
Nov	155581	19.11.19 (18:27)		
Dec	170493	26.12.19 (11:50)		
PEAK DEMAND - PRIOR TO LOCK DOWN & DURING VARIOUS STAGES OF LOCK DOWN				
			MW	DATE& TIME
PRIOR TO LOCK DOWN IN MARCH			170170	03.03.20 (09:24)
DURING LOCK DOWN 1 st STAGE			164440	25.03.20 (09:56)
DURING LOCK DOWN 2 nd STAGE			134700	02.05.20 (22:31)
DURING LOCK DOWN 3 rd STAGE			150343	15.05.20 (15:15)
DURING LOCK DOWN 4 th STAGE			166424	26.05.20 (15:33)

Generation from Fossil Fuels

The electricity generation from fossil fuels during May 2020 is 2410.6 MU. This is 14% lower compared to the pre-lock down generation of 2806.14 MU and 13.6% higher than that during April 2020 (2122.67 MU). The source wise share of electricity generation in India before lock down and during the months of April & May 2020 are shown in the Annexure (Pie Charts).

Source : InSDES compilation of data available at <https://www.posoco.in/Reports/Daily reports & :http:// www.sldckerala.com/System Statitics/Generation>

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Table – 5

REGION WISE DAILY AVERAGE ELECTRICITY CONSUMPTION IN INDIA BEFORE LOCK DOWN & DURING VARIOUS STAGES OF LOCK DOWN (in MU)									
REGIONS	BEFORE LOCK DOWN	1 st STAGE LOCK DOWN	2 nd STAGE LOCK DOWN	3 rd STAGE LOCK DOWN	4 th STAGE LOCK DOWN	% DIFFERENCE IN EACH STAGE			
	15/03/2020 to 21/03/2020	25/03/2020 to 14/04/2020	15/04/2020 to 03/05/2020	04/05/2020 to 17/05/2020	18/05/2020 to 31/05/2020	1 st STAGE	2 nd STAGE	3 rd STAGE	4 th STAGE
NORTHERN REGION	830.3	658.1	773.9	888.9	1108.07	-20.7	-6.8	7.1	33.45
WESTERN REGION	1156.6	849.0	956.9	1012.2	1093.86	-26.6	-17.3	-12.5	-5.42
SOUTHERN REGION	1125	865.9	827.6	894.1	923.00	-23.0	-26.4	-20.5	-17.96
EASTERN REGION	368.4	337.0	302.8	364.6	360.07	-8.5	-17.8	-1.0	-2.26
NORTH-EAST REGION	41.8	34.6	32.0	39.9	39.79	-17.3	-23.4	-4.6	-4.81
ALL INDIA	3522.1	2744.6	2892.9	3199.8	3524.71	-22.1	-17.9	-9.2	0.07

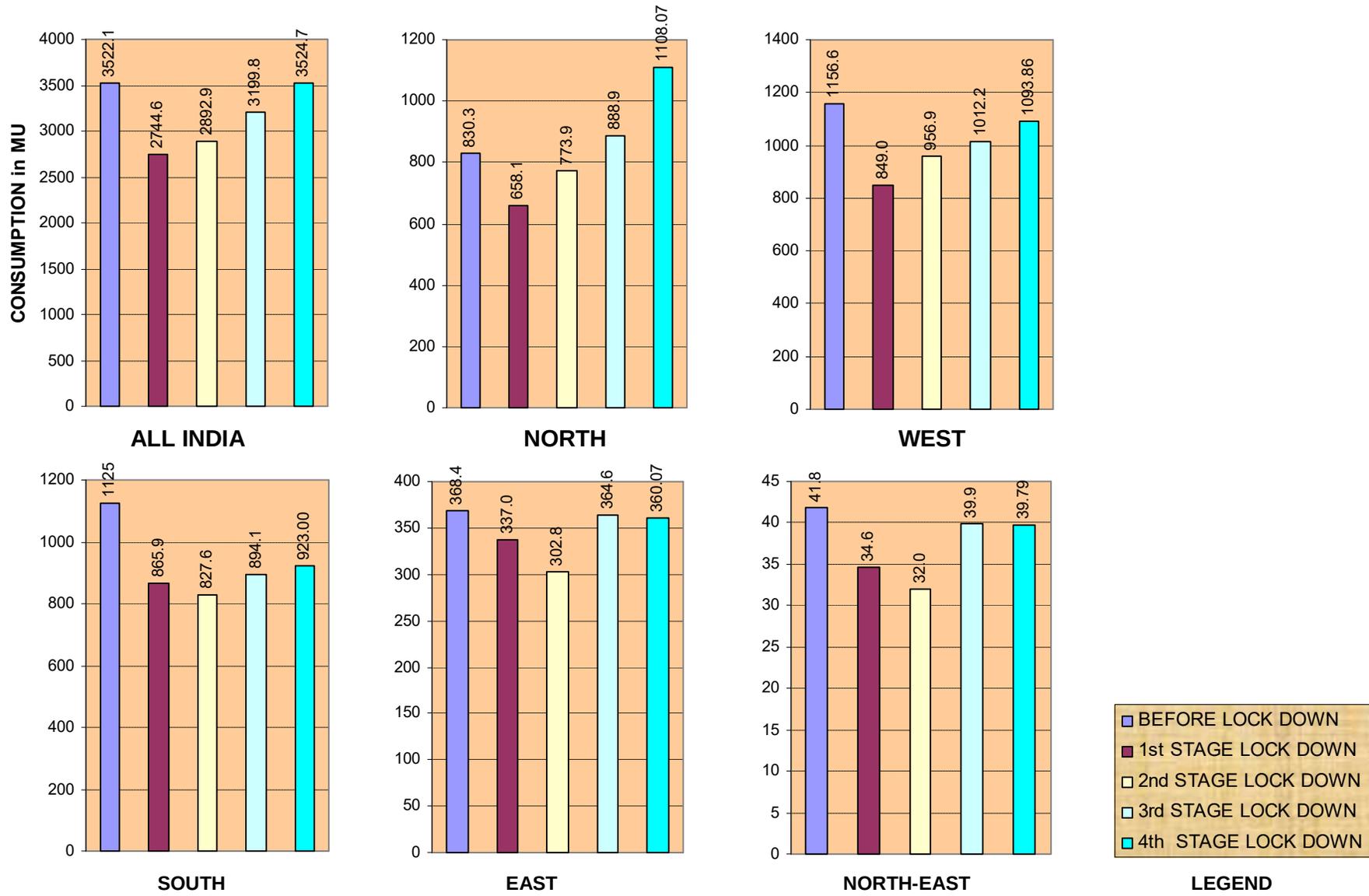
Table – 6

DAILY AVERAGE ELECTRICITY CONSUMPTION OF 10 TOP CONSUMING STATES IN INDIA BEFORE LOCK DOWN & DURING VARIOUS STAGES OF LOCK DOWN (in MU)									
STATE	BEFORE LOCK DOWN	1 st STAGE LOCK DOWN	2 nd STAGE LOCK DOWN	3 rd STAGE LOCK DOWN	4 th STAGE LOCK DOWN	% DIFFERENCE IN EACH STAGE			
	15/03/2020 to 21/03/2020	25/03/2020 to 14/04/2020	15/04/2020 to 03/05/2020	04/05/2020 to 17/05/2020	18/05/2020 to 31/05/2020	1 st STAGE	2 nd STAGE	3 rd STAGE	4 th STAGE
MAHARASHTRA	480.2	368.7	403.0	416.5	445.6	-23.2	-16.1	-13.3	-7.2
GUJRATH	349.9	230.8	278.3	302.0	316.8	-34.1	-20.5	-13.7	-9.5
UTTAR PRADESH	244.8	245.6	275.1	294.1	377.0	0.4	12.4	20.1	54.0
TAMIL NADU	339.5	240.3	247.2	288.8	301.1	-29.2	-27.2	-14.9	-11.3
RAJASTHAN	210.0	146.3	175.1	203.5	235.4	-30.3	-16.6	-3.1	12.1
MADHYA PRADESH	199.8	163.7	184.2	190.9	210.6	-18.1	-7.8	-4.5	5.4
KARNATAKA	251.7	208.7	200.9	203.8	188.2	-17.1	-20.2	-19.1	-25.2
TELENGANA	242.9	186.7	143.5	147.3	167.5	-23.1	-40.9	-39.3	-31.0
ANDHRA PRADESH	199.9	158.3	161.4	176.3	187.3	-20.8	-19.3	-11.8	-6.3
PUNJAB	99.8	70.1	87.1	116.1	157.0	-29.8	-12.7	16.4	57.3

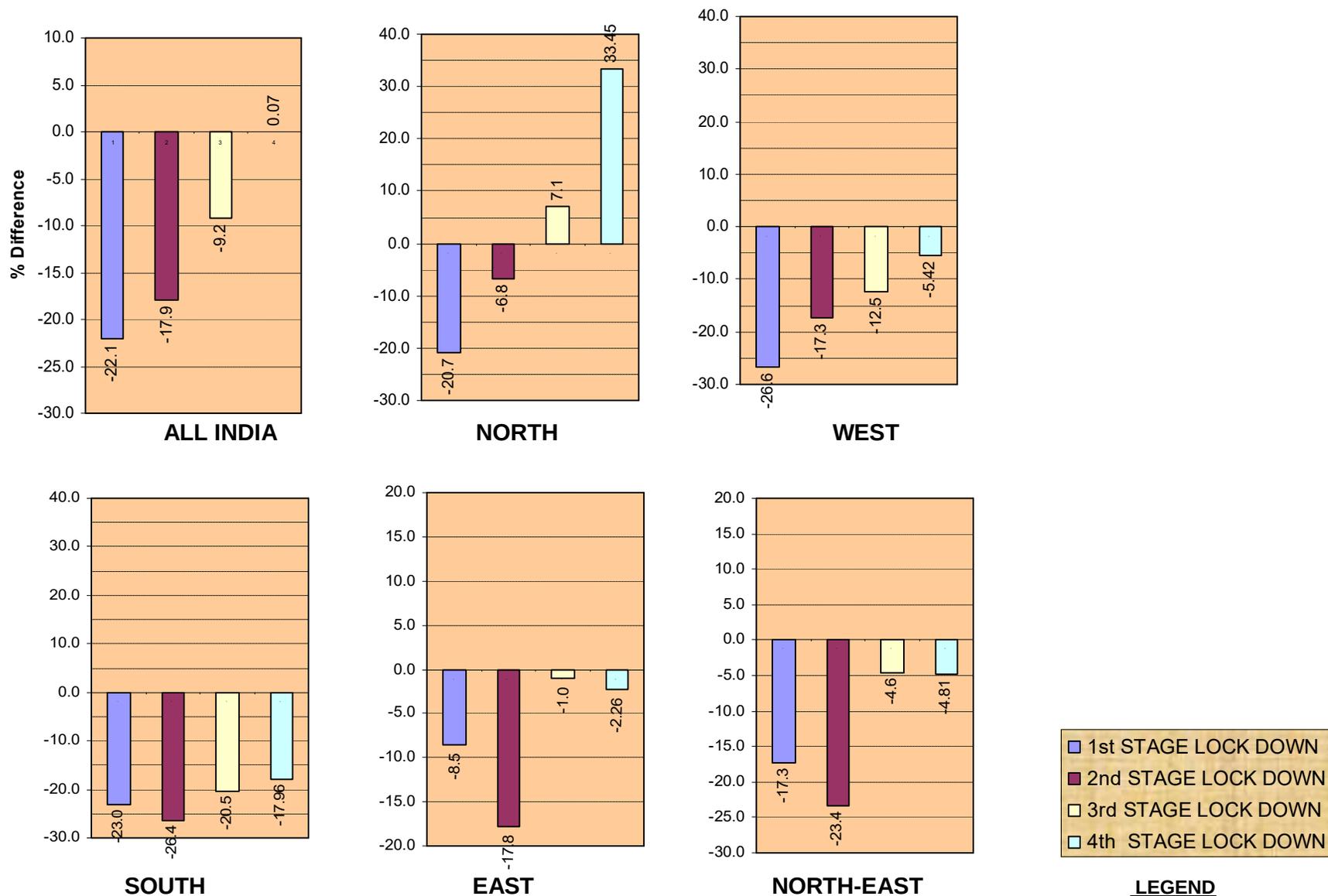
Table - 7

DAILY AVERAGE ELECTRICITY CONSUMPTION OF KERALA STATE BEFORE LOCK DOWN & DURING VARIOUS STAGES OF LOCK DOWN (in MU)									
STATE	BEFORE LOCK DOWN	1 st STAGE LOCK DOWN	2 nd STAGE LOCK DOWN	3 rd STAGE LOCK DOWN	4 th STAGE LOCK DOWN	% DIFFERENCE IN EACH STAGE			
	15/03/2020 to 21/03/2020	25/03/2020 to 14/04/2020	15/04/2020 to 03/05/2020	04/05/2020 to 17/05/2020	18/05/2020 to 31/05/2020	1 st STAGE	2 nd STAGE	3 rd STAGE	4 th STAGE
KERALA	82.5	67.4	69.1	70.9	70.957	-18.3	-16.3	-14.1	-14.0

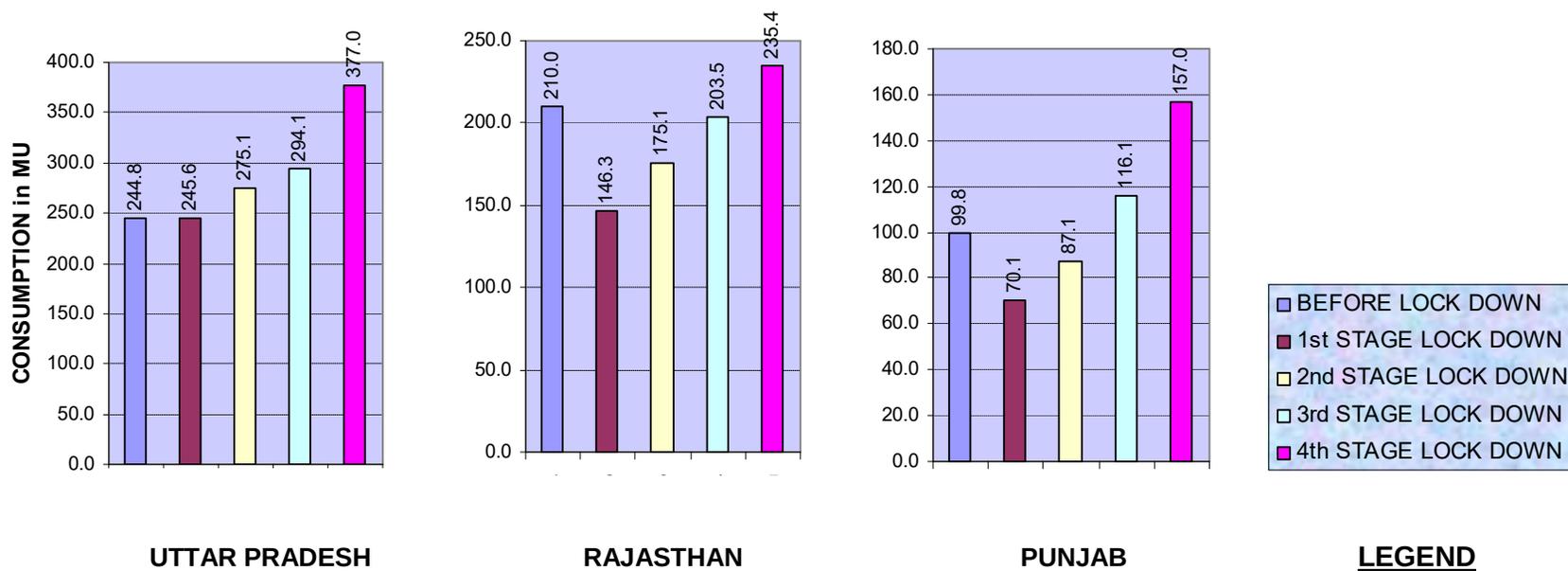
REGION WISE DAILY AVERAGE ELECTRICITY CONSUMPTION (in MU) BEFORE & DURING VARIOUS STAGES OF LOCK DOWN IN INDIA



REGION WISE DIFFERENCE IN CONSUMPTION AS % OF PRE LOCK DOWN CONSUMPTION

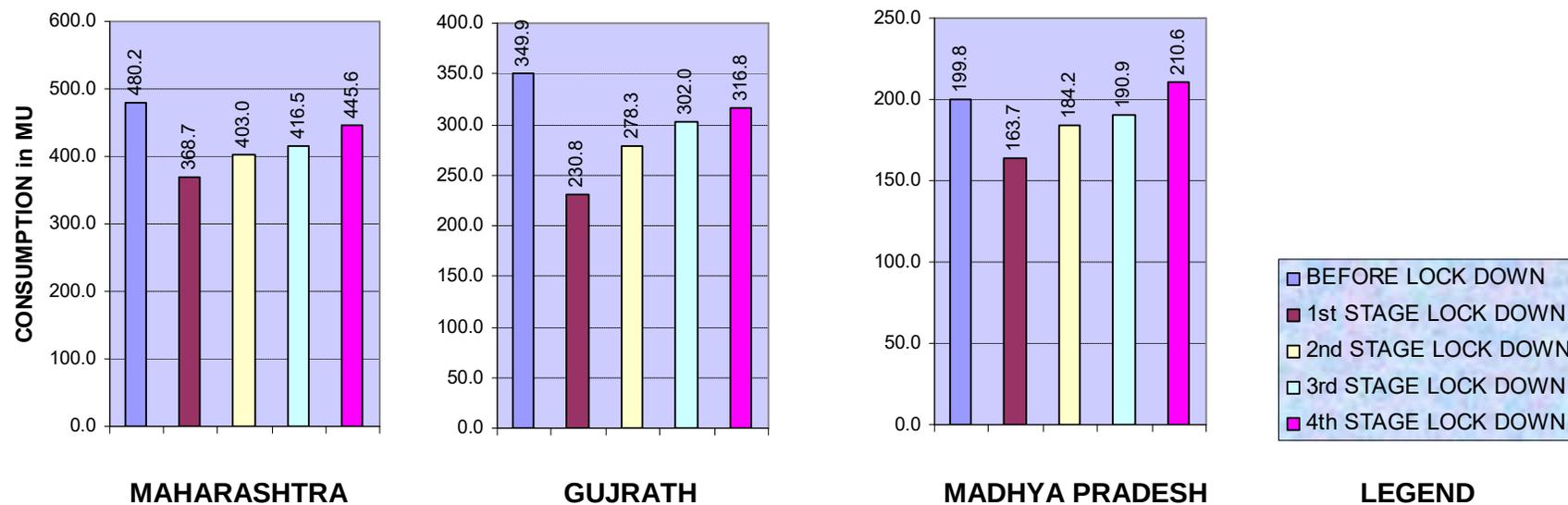


DAILY AVERAGE CONSUMPTION OF 10 TOP CONSUMING STATES & KERALA BEFORE LOCK DOWN AND DURING VARIOUS STAGES OF LOCK DOWN



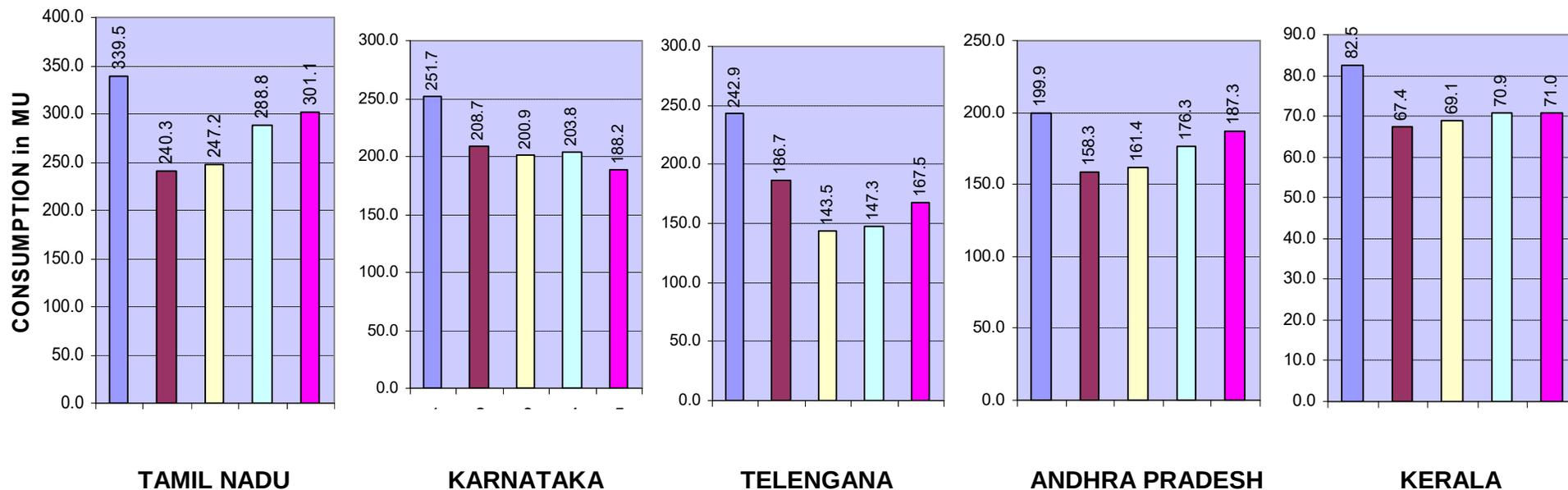
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DAILY AVERAGE CONSUMPTION OF 10 TOP CONSUMING STATES & KERALA BEFORE LOCK DOWN AND DURING VARIOUS STAGES OF LOCK DOWN

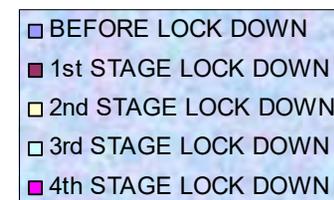


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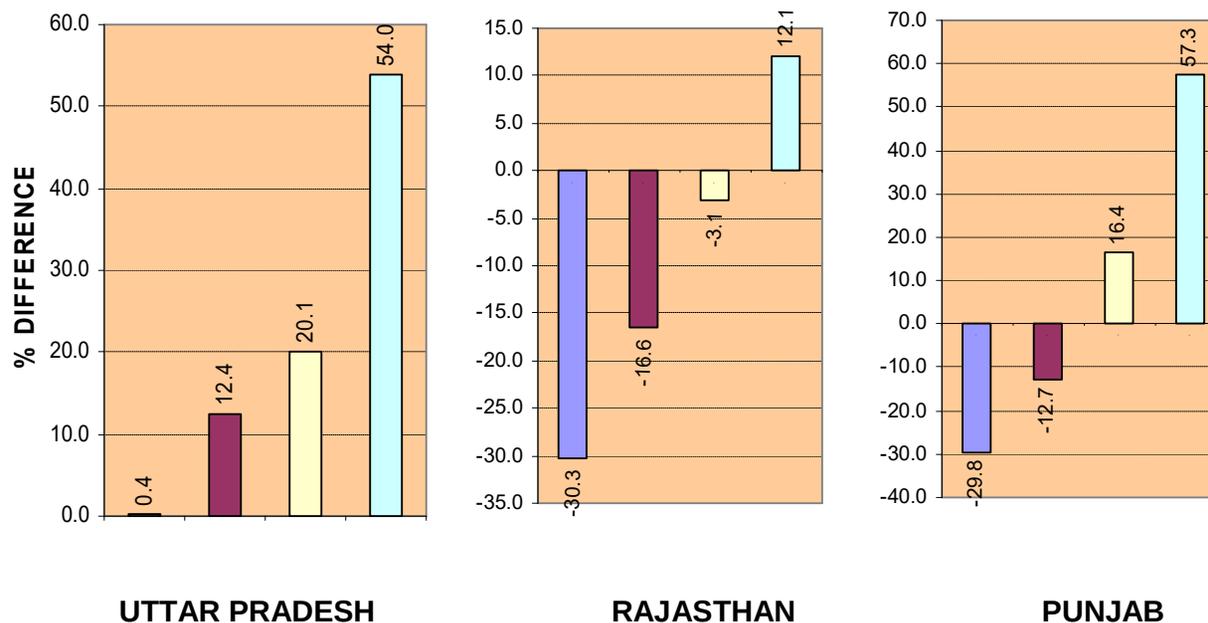
DAILY AVERAGE CONSUMPTION OF 10 TOP CONSUMING STATES & KERALA BEFORE LOCK DOWN AND DURING VARIOUS STAGES OF LOCK DOWN



LEGEND

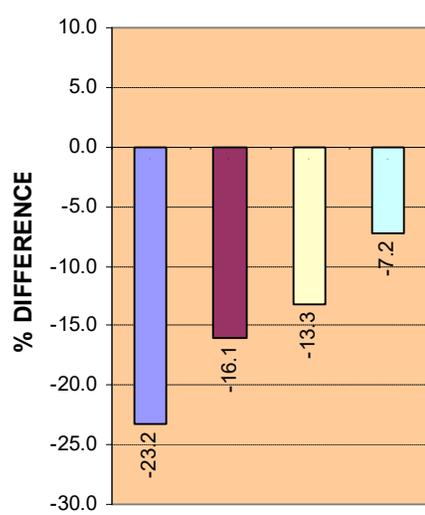


**% DIFFERENCE IN DAILY AVERAGE CONSUMPTION
(COMPARED TO DAILY AVERAGE CONSUMPTION BEFORE LOCK DOWN) OF
10 TOP CONSUMING STATES & KERALA DURING VARIOUS STAGES OF LOCK DOWN**

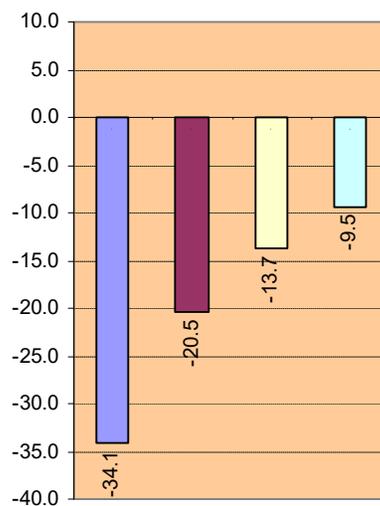


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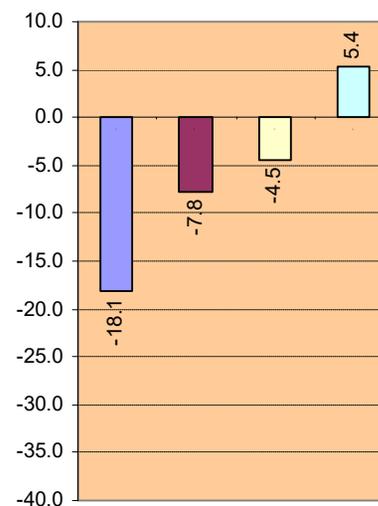
**% DIFFERENCE IN DAILY AVERAGE CONSUMPTION
(COMPARED TO DAILY AVERAGE CONSUMPTION BEFORE LOCK DOWN) OF
10 TOP CONSUMING STATES & KERALA DURING VARIOUS STAGES OF LOCK DOWN**



MAHARASHTRA



GUJRATH



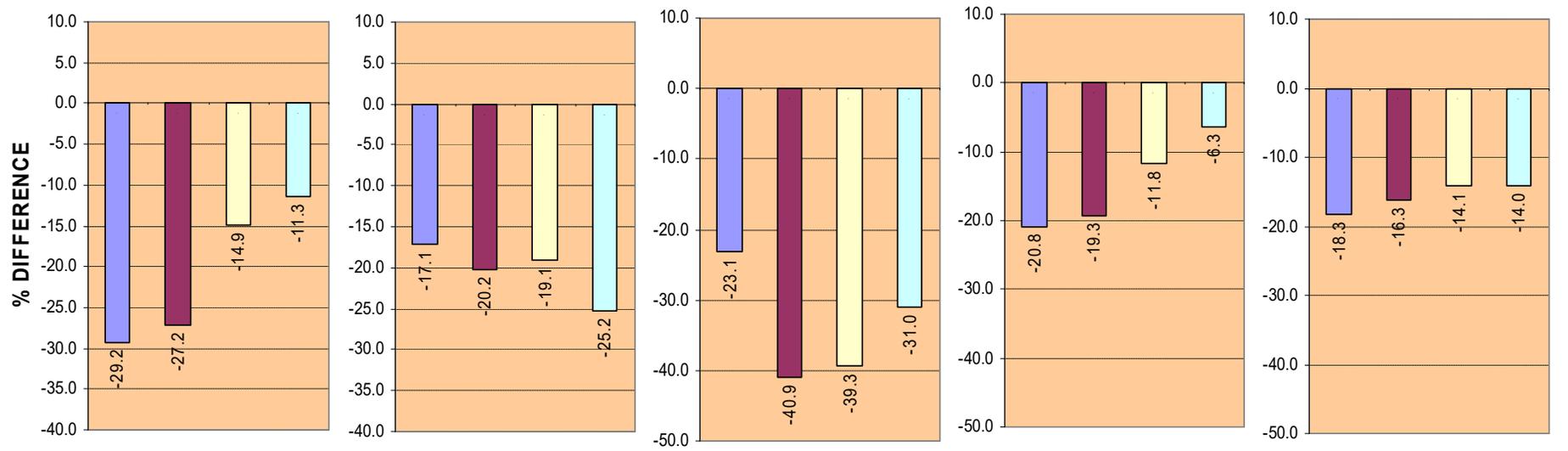
MADHYA PRADESH

LEGEND

- 1st STAGE LOCK DOWN
- 2nd STAGE LOCK DOWN
- 3rd STAGE LOCK DOWN
- 4th STAGE LOCK DOWN

Contd....

**% DIFFERENCE IN DAILY AVERAGE CONSUMPTION
(COMPARED TO DAILY AVERAGE CONSUMPTION BEFORE LOCK DOWN) OF
10 TOP CONSUMING STATES & KERALA DURING VARIOUS STAGES OF LOCK DOWN**



TAMIL NADU

KARNATAKA

TELENGANA

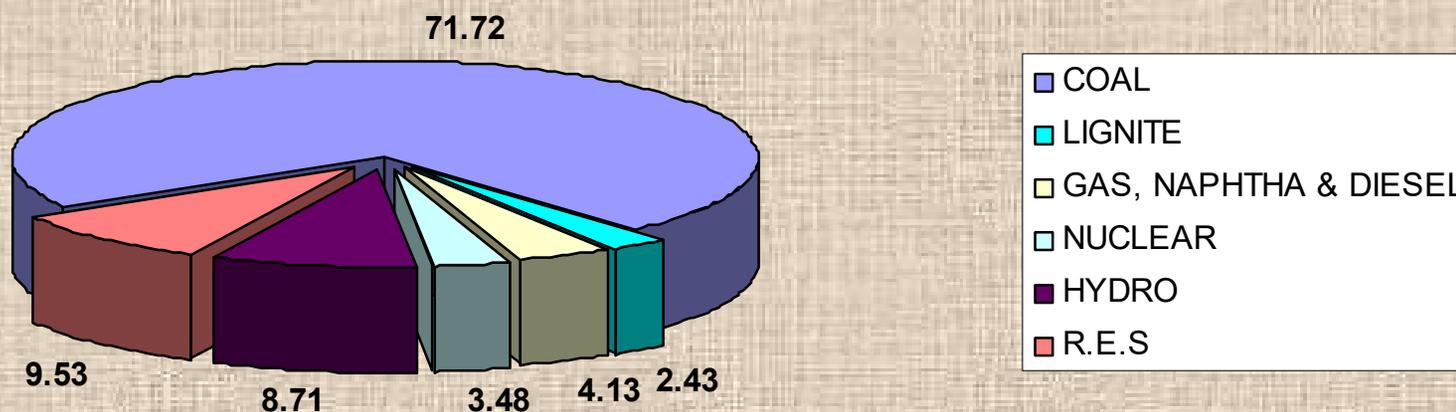
ANDHRA PRADESH

KERALA

LEGEND

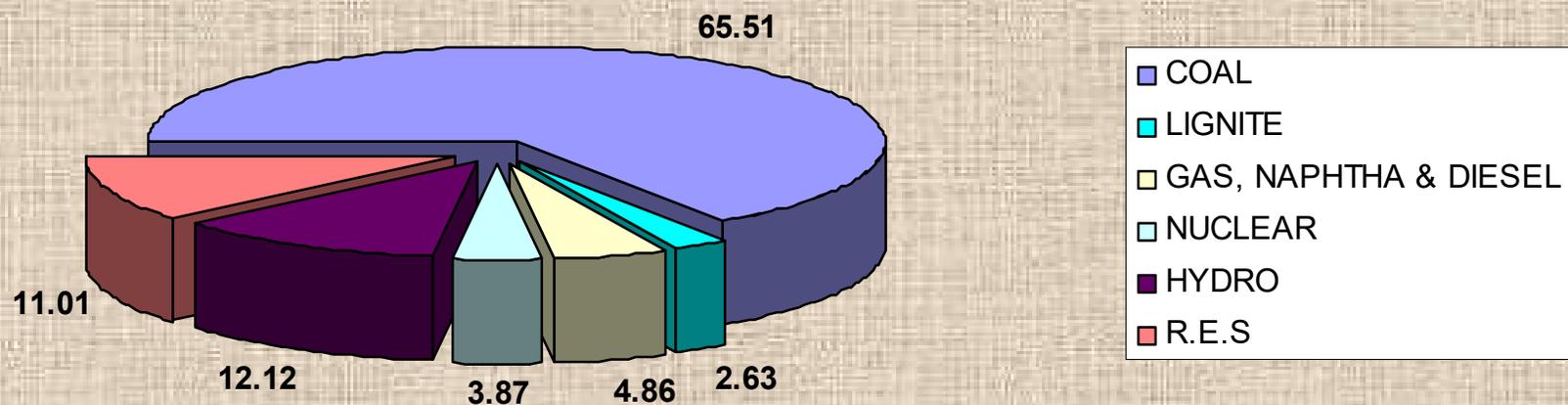


ALL INDIA SOURCE WISE GENERATION in % - BEFORE LOCK DOWN



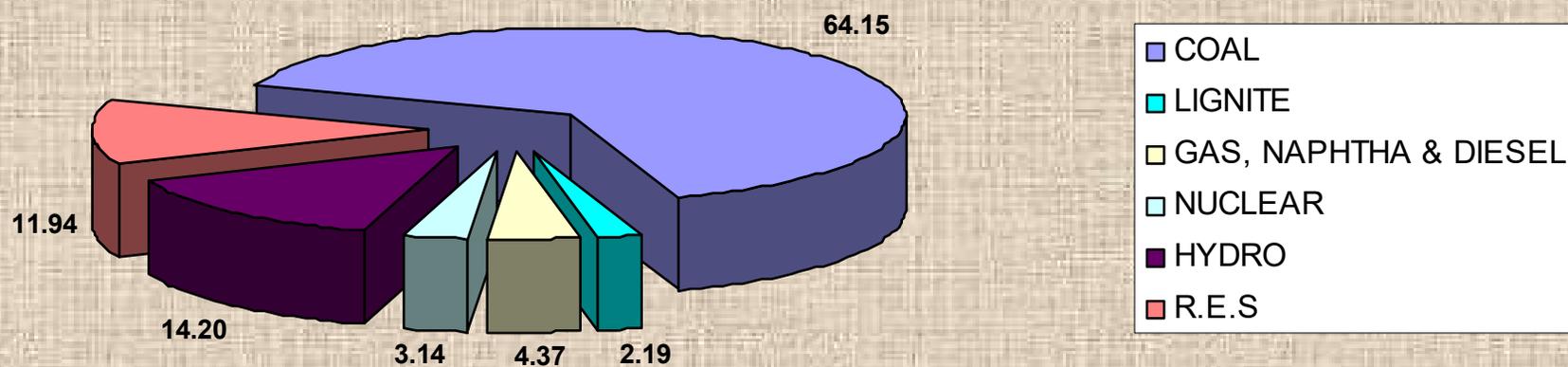
FOSSIL FUELS TOTAL : 78.28%

ALL INDIA SOURCE WISE GENERATION in % - DURING LOCK DOWN APRIL-2020



FOSSIL FUELS TOTAL : 73.00%

ALL INDIA SOURCE WISE GENERATION in % - DURING LOCK DOWN MAY-2020



FOSSIL FUELS TOTAL : 70.71%