

COVID-19 : POWER CONSUMPTION IN APRIL DECLINES TO FIVE YEAR LOW IN KERALA

Prepared by : Asokan K (Director, InSDES)

The average daily electricity consumption in Kerala from 1st to 11th April 2020 is 66.7193 MU according to the System Statistics details available in Kerala State Electricity Board State Load Dispatch Centre web site. Peak demand and Morning MD during this period are 3787 MW and 2869 MW respectively.

On comparing these figures with the average consumption / MD details of the month of April for the past 10 years, it is found that Daily Average Consumption, Maximum demand and Morning MD experienced so far in April this year are the lowest after 2015. This is due to the lock-down prevailing in the state in view of COVID-19 pandemic.

The details for the period from 2010 to 2020 are shown in the Table below.

TABLE

YEAR	DAILY AVERAGE CONSUMPTION MU	MAXIMUM DEMAND MW	MORNING MD MW
2010	49.28	2837	2171
2011	52.41	3032	--
2012	55.88	3071	2533
2013	59.08	3065	2674
2014	63.82	3512	2863
2015	62.38	3517	2731
2016	76.26	4004	3151
2017	73.89	3868	3032
2018	75.10	3950	3066
2019	80.997	4316	3404
2020 (up to 11 th)	66.7193	3787	2869
CAGR 10-19	5.68%	4.77%	5.12%

Source : InSDES compilation from details collected from web site of
KSEB State Load Dispatch Centre – System Statistics

The Compounded Annual Growth Rate of the daily average consumption for the month of April for the period from 2010 to 2019 is 5.68%. The daily average consumption for April 2019 was 80.997 MU. Considering the growth rate of 5.68%, the projected consumption for April 2020 is 85.60MU. The actual consumption for the period from 1st to 11th April 2020 is 66.72MU only, which is 22% lower than the projected value. The reduction in daily consumption is 18.88 MU. The average sale rate of electricity as per KSERC Tariff order 2019 is Rs. 6.17 per unit. Accordingly, the reduction of 18.88 MU in daily consumption amounts to Rs. 11.65 Crores reduction in daily revenue income of KSEB Ltd.

The All time MD of 4316MW had occurred on 13th April 2019. The Maximum demand in April 2020 so far is 3787 MW (on 03-04-2020) only. The Morning MD during April 2019 was 3404 MW (on 14-04-2019). The Morning MD so far in April this year is 2869 MW (on 05-04-2020) only. The All time Morning MD of 3465 MW had occurred on 23-05-2019, the day of counting of votes of Loksabha Election 2019.
