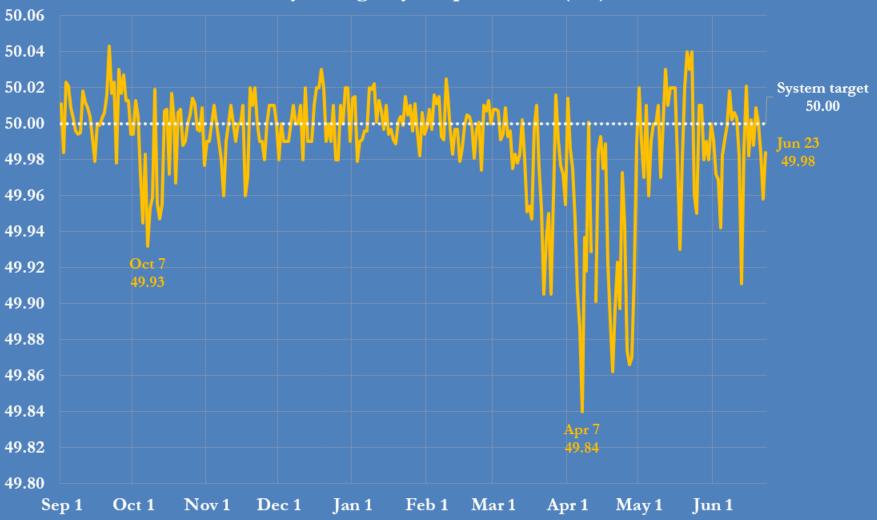
India electricity and coal situation Selected indicators

JOHN KEMP REUTERS 24 June 2022

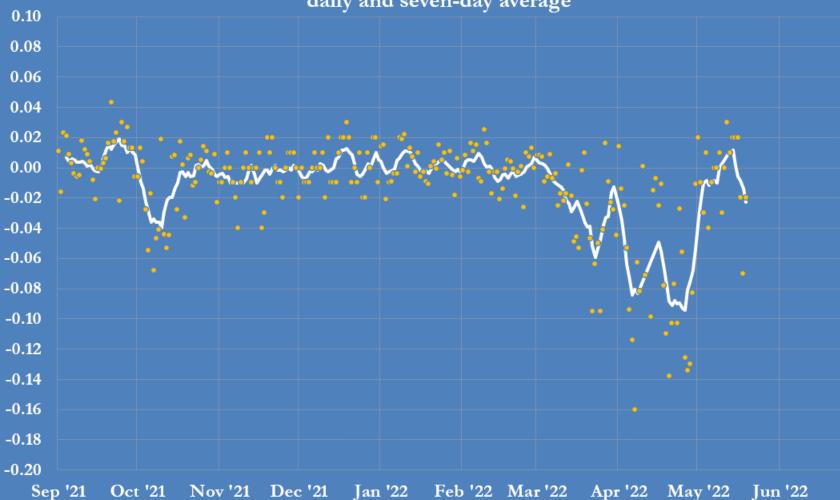
India electricity summary		May 2021	Mar 2022	Apr 2022	May 2022	% Change from May 2021 to May 2022
Peak demand (met)	MW	168,781	199,298	207,111	204,456	21.1
Average frequency	Hz	50.00	49.98	49.93	50.00	
Time below target (<49.90)		6.6	14.5	32.0	9.8	
Total demand (met)	million kWh	110,484	130,260	132,953	136,051	23.1
Hydro	million kWh	12,609	11,138	12,270	13,621	8.0
Wind	million kWh	6,697	3,989	4,214	10,118	51.1
Solar	million kWh	5,802	7,840	7,829	7,999	37.9
Other	million kWh	85,376	107,293	108,640	104,313	22.2
Total demand met by all		100.0	100.0	100.0	100.0	
Hydro		11.4	8.6	9.2	10.0	
Wind		6.1	3.1	3.2	7.4	
Solar		5.3	6.0	5.9	5.9	
Other		77.3	82.4	81.7	76.7	
Total installed capacity	MW	383,374	399,497	401,010	402,817	5.1
Coal	MW	202,675	204,080	204,080	204,080	0.7
Lignite	MW	6,620	6,620	6,620	6,620	0.0
Gas	MW	24,924	24,900	24,900	24,879	-0.2
Diesel	MW	510	510	510	510	0.0
Nuclear	MW	6,780	6,780	6,780	6,780	0.0
Hydro	MW	46,209	46,723	46,723	46,723	1.1
Renewables	MW	95,656	109,885	111.399	113,226	18.4

India power grid frequency, 2021/21 daily average, cycles per second (Hz)

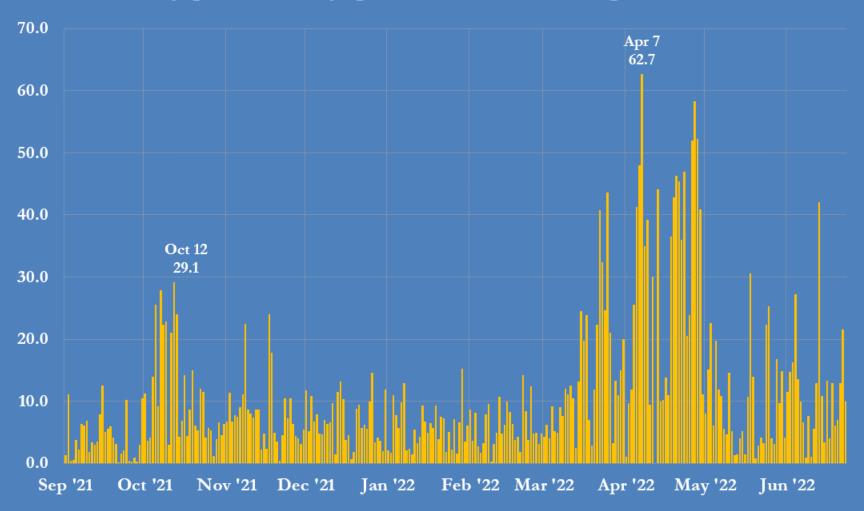


India power grid frequency, 2021/22

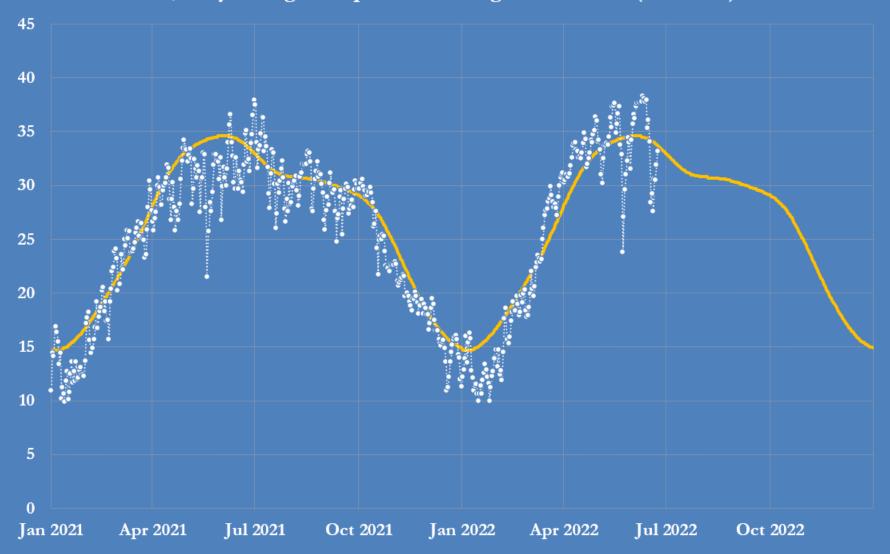
deviation from target (50) in cycles per second (Hz) daily and seven-day average



India power grid frequency, 2021/22 daily, percent of day spent below minimum target of 49.9 Hz

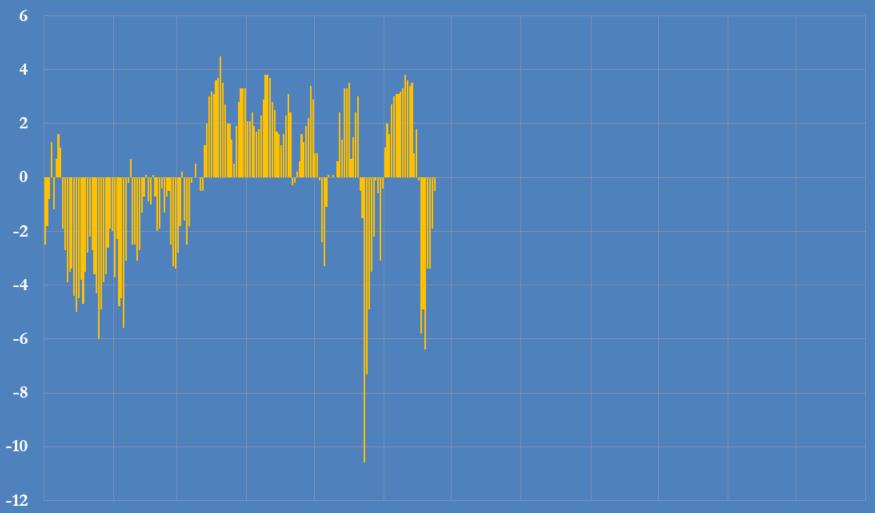


New Delhi (Palam) temperatures, 2021-2022 °C, daily average compared with long-term normal (1981-2010)



Source: U.S. Climate Assessment Database

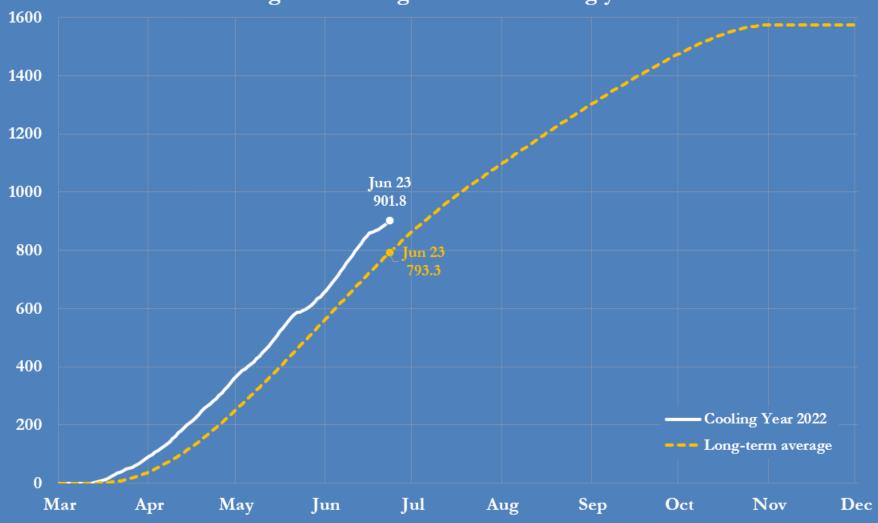
New Delhi (Palam) temperatures, 2021-2022 °C, daily average, deviation from long-term normal (1981-2010)



Jan '22 Feb '22 Mar '22 Apr '22 May '22 Jun '22 Jul '22 Aug '22 Sep '22 Oct '22 Nov '22 Dec '22

Source: U.S. Climate Assessment Database

India annual cooling demand, 2022 New Delhi-Palam, cooling degree days, cumulative long-term average and 2022 cooling year



Source: U.S. Climate Assessment Database

India daily peak electricity demand met, 2021/22 megawatts, daily and seven-day centred average

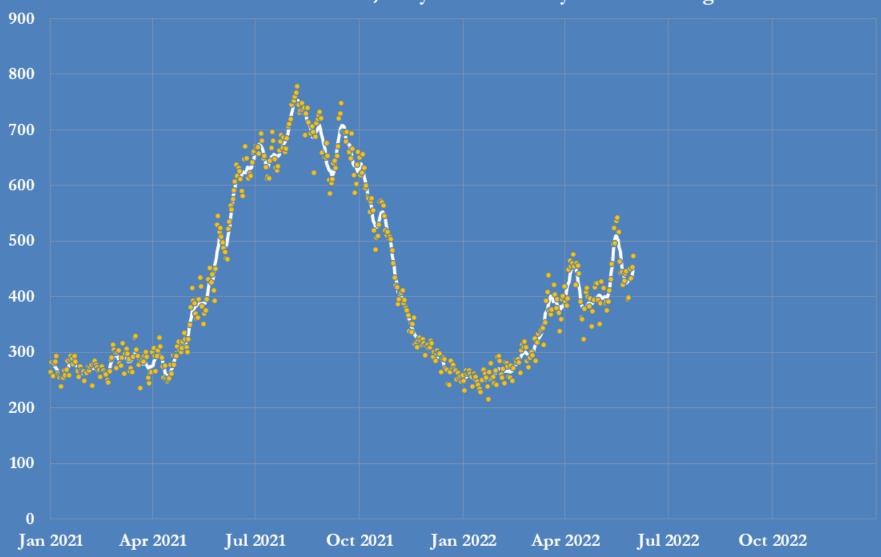


Source: National Load Despatch Centre, Power System Operation Corporation

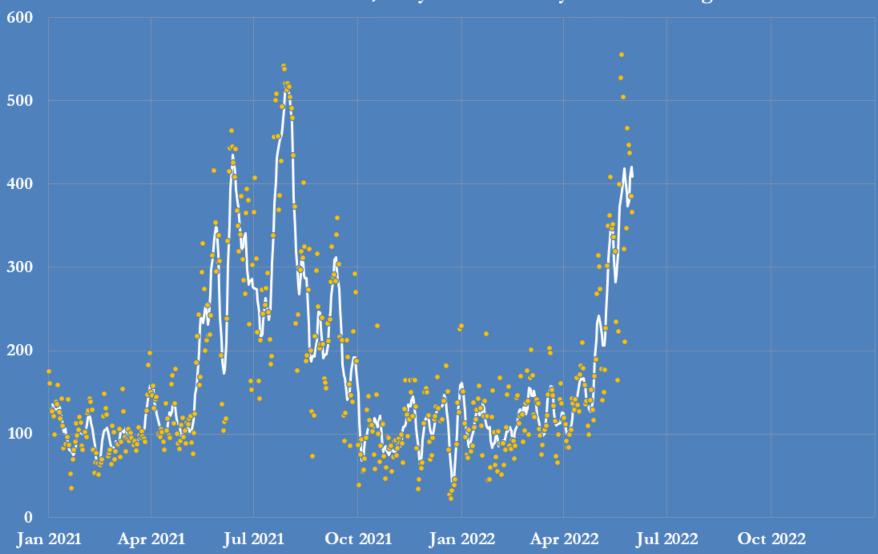
India electricity grid - energy demand met, 2021/22 million kilowatt-hours, daily and seven-day centred average



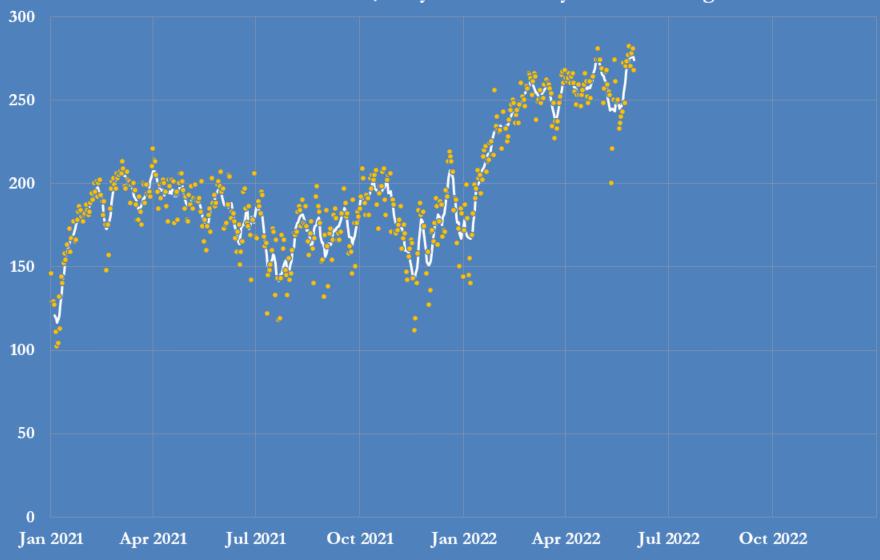
India hydroelectric generation, 2021-2022 million kilowatt-hours, daily and seven-day centred average



India wind turbine generation, 2021-2022 million kilowatt-hours, daily and seven-day centred average



India solar generation, 2021-2022 million kilowatt-hours, daily and seven-day centred average



India renewables generation, 2021-2022 million kilowatt-hours, hydro plus wind plus solar daily and seven-day centred average



India renewables generation, 2021-2022 percent of all demand met by hydro plus wind plus solar daily and seven-day centred average



India coal stocks at power plants, 2019-2022 stocks in days of consumption, month-end except most recent month

