



सत्यमेव जयते

भारत सरकार
Government of India

विद्युत मंत्रालय
Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee

No: NRPC/OPR/102/01/2020/2614-52

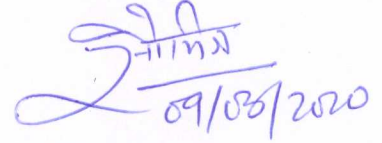
Dated: 09.03.2020

विषय: उत्तर क्षेत्र की कुछ तापीय इकाइयों की उच्च मांग वाले महीनो के दौरान योजनाबद्ध
आउटेज के संबंध में बैठक का कार्यवृत्त

Subject: Minutes of the meeting regarding planned outages of some thermal plants of
NR during peak load months.

उक्त विषय पर दिनांक 06.03.2020 को उ.क्षे.वि.स. सचिवालय में बैठक का आयोजन किया गया। उक्त बैठक का कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाईट <http://www.nrpc.gov.in> पर उपलब्ध है।

संलग्नक: योथोपरि



(सौमित्र मजुमदार)

अधीक्षण अभियंता (प्रचालन)

सेवा में: संलग्न सूची के अनुसार
To: As per the List attached.

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To: As per the List attached.

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उत्तर क्षेत्र की कुछ तापीय इकाइयों की उच्च मांग वाले महीनो के दौरान योजनाबद्ध आउटेज के संबंध में बैठक का कार्यवृत्त

A meeting was held on 06.03.2020 to discuss the feasibility of planned outages of some thermal units of Northern Region during high demand months. Apart from state representatives of Delhi, Haryana, HP, Punjab, UP and Rajasthan who joined the meeting through Video Conferencing, the list of participants in the meeting is enclosed at **Annexure-I**.

2. MS, NRPC welcomed all participants and mentioned that this meeting has been called on the request of NTPC to reschedule some of the planned outages of its units to high demand months as the new tariff regulations stipulates plant availability of at least 85% during both low demand and high demand seasons for enabling full recovery of capacity charges of thermal plants.

3. SE (Operation), NRPC informed the participants that work related to preparation of LGBR 2020-21 is in the final stage and the planned outage programme would be issued in the next week. Based on the deliberation in 18th and 19th LGBR meeting, anticipated power supply position of NR for 2020-21 has been prepared as per the summary enclosed in **Annexure-II**. It was highlighted that energy/power availability figures of Annexure-II are not inclusive of short-term arrangements / power from exchange / banking arrangements of the states.

4. It was mentioned that revised demand data, submitted by Uttar Pradesh and Punjab, are being considered for LGBR 2020-21. Request was also received from Haryana to update the anticipated energy demand for September 2020 as 5850MU.

5. Delhi representative mentioned that they have verified their demand figures and Delhi's demand values shown in the 19th LGBR meeting may be updated. It was decided that demand data submitted by Delhi may be considered for LGBR 2020-21.

6. It was also mentioned that availability of the units of CGPL during 2020-21 is doubtful as per the recent communication from WRLDC. In the event of non-availability of power from CGPL, Punjab, Haryana and Rajasthan would require alternate arrangement. It was highlighted that non-availability of CGPL units may cause inadequate surplus margin for NR during June, July and September 2020.

7. SE (Operation), NRPC informed that apart from the request of NTPC, following two revised outages for **LGBR 2020-21** have been submitted:

Station	Unit	Capacity (MW)	Revised outage from	Revised outage to	No. of Days	Remarks
IGSTPP Jhajjar (APCPL)	2	500	1-Apr-20	28-Apr-20	28	Boiler OH + LP Turbine OH + Boiler modification for environmental (NOx & SOx) norms

Station	Unit	Capacity (MW)	Revised outage from	Revised outage to	No. of Days	Remarks
MAHATMA GANDHI TPS (CLP JHAJJAR)	1	660	1-Apr-20	6-May-20	36	Capital overhauling (commence from 18.03.2020)

8. Representative from Delhi mentioned that CLP Jhajjar should ensure that Unit#1 of MGTPS is brought back by 06.05.2020. In view of the mandatory compliance of environmental norms, the aforementioned outage of APCPL was agreed by the forum.

9. As regards the revised planned outages of NTPC plants, following schedule was agreed after deliberations:

Station	Unit	Capacity (MW)	Outage from	Outage to	No. of Days	Remarks
Singrauli STPS	2	200	8-Nov-20	23-Dec-20	46	Capital Overhaul + DDCMIS
Singrauli STPS	3	200	2-Sep-20	7-Oct-20	36	Boiler overhaul + DDCMIS
Singrauli STPS	6	500	15-Mar-20	13-Apr-20	30	Boiler overhaul
Singrauli STPS	7	500	14-Apr-20	23-Apr-20	10	Boiler license renewal
Singrauli STPS	7	500	8-Oct-20	7-Nov-20	31	Boiler overhaul
Rihand-II STPS	3	500	23-May-20	29-May-20	7	Boiler license renewal, turbine over speed governor mechanism checking
Rihand-II STPS	3	500	8-Nov-20	7-Dec-20	30	Overhauling of boiler & its auxiliaries, Furnace modification for NOx control. FGD Dampers installation, COLTCS Commissioning. Overhauling of LP Turbine.
Rihand-III STPS	5	500	18-Sep-20	17-Oct-20	30	Overhauling of Boiler & its auxiliaries. furnace modification for NOx control, FGD Dampers installation overhauling of LP turbine NFT & MPI of LP Turbine Free Standing Blades,

Station	Unit	Capacity (MW)	Outage from	Outage to	No. of Days	Remarks
						COLTCS commissioning
Rihand-III STPS	6	500	18-Aug-20	17-Sep-20	31	Boiler & its auxiliaries O/H, O/H LPT, NFT & MPI of LP Turbine Free Standing Blades, DPT of LP Casing, Turbine CVs/SVs servicing COLTCS Commissioning, Overhauling of generator Furnace modification for NOx control, Pressure grouting of bearing foundations. FGD Dampers installation
Unchahar-I TPS	2	210	6-Sep-20	10-Oct-20	35	Capital O/H of turbine (HP+IP+LP), Cond. tube replacement, Boiler O/H, Combustion Optimisation, LPH's replacement
Unchahar-II TPS	4	210	30-Nov-20	29-Dec-20	30	Boiler OH with acid cleaning, ESP PG test post R&M, Combustion Optimisation
Unchahar-III TPS	5	210	4-May-20	8-Jun-20	36	Capital O/H of turbine (HP+IP+LP), Boiler O/H, Combustion Optimisation
Unchahar-IV TPS	6	500	25-Mar-20	23-Apr-20	30	1 st Inspection of Generator and associated Turbine works, Boiler OH, Inspection / replacement of APH Support bearings, Installation of isolating FGD bypass damper
Tanda TPS	3	110	6-Sep-20	15-Oct-20	40	Capital O/H of turbine (HP+IP+LP) and Boiler O/H
Tanda TPS	4	110	15-Apr-20	4-May-20	20	Boiler over haul
Tanda Stage-2 TPS	5	660	15-Mar-20	24-Mar-20	10	PG test preparation

The meeting ended with vote of thanks to the chair.

Energy Availability & Demand (MU)

State		APR-2020	MAY-2020	JUN-2020	JUL-2020	AUG-2020	SEP-2020	OCT-2020	NOV-2020	DEC-2020	JAN-2021	FEB-2021	MAR-2021
CHANDIGARH	Availability	100	150	160	180	190	140	120	90	90	90	80	100
	Requirement	120	180	210	210	170	150	110	100	120	130	120	110
	Surplus/Shortfall (MU)	-20	-30	-50	-30	20	-10	10	-10	-30	-40	-40	-10
	Surplus/Shortfall (%)	-16.7%	-16.7%	-23.8%	-14.3%	11.8%	-6.7%	9.1%	-10.0%	-25.0%	-30.8%	-33.3%	-9.1%
DELHI	Availability	3160	3680	3730	3790	3470	3220	2920	2890	3010	3330	2940	3080
	Requirement	2800	3480	4040	3900	3720	3650	2760	1920	2110	2220	1920	2000
	Surplus/Shortfall (MU)	360	200	-310	-110	-250	-430	160	970	900	1110	1020	1080
	Surplus/Shortfall (%)	12.9%	5.7%	-7.7%	-2.8%	-6.7%	-11.8%	5.8%	50.5%	42.7%	50.0%	53.1%	54.0%
HARYANA	Availability	4390	5390	5640	5810	5660	5100	4740	4170	4770	4810	4410	5020
	Requirement	3970	5120	6180	6610	6260	5850	4440	3550	4090	4060	3760	3910
	Surplus/Shortfall (MU)	420	270	-540	-800	-600	-750	300	620	680	750	650	1110
	Surplus/Shortfall (%)	10.6%	5.3%	-8.7%	-12.1%	-9.6%	-12.8%	6.8%	17.5%	16.6%	18.5%	17.3%	28.4%
HIMACHAL PRADESH	Availability	1140	1800	2150	2470	2480	1800	1150	760	650	600	570	880
	Requirement	810	880	990	1010	930	910	810	860	950	950	870	880
	Surplus/Shortfall (MU)	330	920	1160	1460	1550	890	340	-100	-300	-350	-300	0
	Surplus/Shortfall (%)	40.7%	104.5%	117.2%	144.6%	166.7%	97.8%	42.0%	-11.6%	-31.6%	-36.8%	-34.5%	0.0%
UTs of J&K and LADAKH	Availability	1350	1820	1960	2040	2010	1800	1190	1170	1100	1060	1010	1350
	Requirement	1670	1840	1810	1680	1590	1540	1560	1590	1960	2000	1670	1880
	Surplus/Shortfall (MU)	-320	-20	150	360	420	260	-370	-420	-860	-940	-660	-530
	Surplus/Shortfall (%)	-19.2%	-1.1%	8.3%	21.4%	26.4%	16.9%	-23.7%	-26.4%	-43.9%	-47.0%	-39.5%	-28.2%
PUNJAB	Availability	5210	6620	6830	6990	6890	6210	5450	4480	4880	5330	3810	5820
	Requirement	3810	4990	7050	7570	7360	6920	4690	3500	4040	3820	3210	4020
	Surplus/Shortfall (MU)	1400	1630	-220	-580	-470	-710	760	980	840	1510	600	1800
	Surplus/Shortfall (%)	36.7%	32.7%	-3.1%	-7.7%	-6.4%	-10.3%	16.2%	28.0%	20.8%	39.5%	18.7%	44.8%
RAJASTHAN	Availability	8510	9700	9880	9320	9600	8850	8760	8890	9310	9270	8350	9500
	Requirement	6630	7640	8260	7880	6700	6560	7720	7410	8060	8100	7320	7490
	Surplus/Shortfall (MU)	1880	2060	1620	1440	2900	2290	1040	1480	1250	1170	1030	2010
	Surplus/Shortfall (%)	28.4%	27.0%	19.6%	18.3%	43.3%	34.9%	13.5%	20.0%	15.5%	14.4%	14.1%	26.8%
UTTAR PRADESH	Availability	10980	13130	13160	13180	13530	12410	11620	10190	10690	11310	9450	12080
	Requirement	11100	13950	14250	13020	13640	12600	9920	8250	8680	9300	8260	9460
	Surplus/Shortfall (MU)	-120	-820	-1090	160	-110	-190	1700	1940	2010	2010	1190	2620
	Surplus/Shortfall (%)	-1.1%	-5.9%	-7.6%	1.2%	-0.8%	-1.5%	17.1%	23.5%	23.2%	21.6%	14.4%	27.7%
UTTARAKHAND	Availability	960	1240	1370	1360	1390	1310	940	740	790	740	670	880
	Requirement	1160	1470	1510	1490	1310	1370	1040	1030	1060	1200	1090	1120
	Surplus/Shortfall (MU)	-200	-230	-140	-130	80	-60	-100	-290	-270	-460	-420	-240
	Surplus/Shortfall (%)	-17.2%	-15.6%	-9.3%	-8.7%	6.1%	-4.4%	-9.6%	-28.2%	-25.5%	-38.3%	-38.5%	-21.4%
Total NR	Availability	35800	43530	44880	45140	45220	40840	36890	33380	35290	36540	31290	428800
	Requirement	32070	39550	44300	43370	41680	39550	33050	28210	31070	31780	28220	392850
	Surplus/Shortfall (MU)	3730	3980	580	1770	3540	1290	3840	5170	4220	4760	3070	35950
	Surplus/Shortfall (%)	11.6%	10.1%	1.3%	4.1%	8.5%	3.3%	11.6%	18.3%	13.6%	15.0%	10.9%	9.2%

Peak Availability & Demand (MW)

State		APR-2020	MAY-2020	JUN-2020	JUL-2020	AUG-2020	SEP-2020	OCT-2020	NOV-2020	DEC-2020	JAN-2021	FEB-2021	MAR-2021
CHANDIGARH	Availability	300	340	360	370	370	360	330	300	280	270	290	300
	Requirement	260	390	430	450	340	390	220	210	270	280	240	240
	Surplus/Shortfall (MW)	40	-50	-70	-80	30	-30	110	90	10	-10	50	60
	Surplus/Shortfall (%)	15.4%	-12.8%	-16.3%	-17.8%	8.8%	-7.7%	50.0%	42.9%	3.7%	-3.6%	20.8%	25.0%
DELHI	Availability	6140	6910	7080	7090	6970	6730	6540	6860	6810	6760	6570	6730
	Requirement	5880	6640	7120	7650	6700	6970	4700	3890	4620	4600	4470	4240
	Surplus/Shortfall (MW)	260	270	-40	-560	270	-240	1840	2970	-2190	2160	2100	2490
	Surplus/Shortfall (%)	4.4%	4.1%	-0.6%	-7.3%	4.0%	-3.4%	39.1%	76.3%	47.4%	47.0%	47.0%	58.7%
HARYANA	Availability	9240	10290	10450	11170	11170	11160	9880	9630	10070	9940	9750	9950
	Requirement	8540	9380	10890	11630	10630	11190	8020	6530	7140	7270	7250	6900
	Surplus/Shortfall (MW)	700	910	-440	-460	540	-30	1860	3100	2930	2670	2500	3050
	Surplus/Shortfall (%)	8.2%	9.7%	-4.0%	-4.0%	5.1%	-0.3%	23.2%	47.5%	41.0%	36.7%	34.5%	44.2%
HIMACHAL PRADESH	Availability	3830	3970	4090	4110	4100	4010	3830	3650	3620	2260	3510	3360
	Requirement	1380	1470	1560	1560	1600	1540	1570	1670	1860	1750	1630	1620
	Surplus/Shortfall (MW)	2450	2500	2530	2550	2500	2470	2260	1980	1760	510	1880	1740
	Surplus/Shortfall (%)	177.5%	170.1%	162.2%	163.5%	156.3%	160.4%	143.9%	118.6%	94.6%	29.1%	115.3%	107.4%
UTs of J&K and LADAKH	Availability	3270	3480	3540	3540	3570	3480	3320	3940	3810	3600	3970	4000
	Requirement	3010	3190	2380	3010	2810	3040	3180	2980	3370	3370	3340	3310
	Surplus/Shortfall (MW)	260	290	1160	530	760	440	140	960	440	230	630	690
	Surplus/Shortfall (%)	8.6%	9.1%	48.7%	17.6%	27.0%	14.5%	4.4%	32.2%	13.1%	6.8%	18.9%	20.8%
PUNJAB	Availability	11090	11870	11990	12030	11990	11860	10760	11570	11480	11110	10260	11600
	Requirement	7300	9120	13540	14010	12370	12180	7570	5670	6970	6520	6060	7010
	Surplus/Shortfall (MW)	3790	2750	-1550	-1980	-380	-320	3190	5900	4510	4590	4200	4590
	Surplus/Shortfall (%)	51.9%	30.2%	-11.4%	-14.1%	-3.1%	-2.6%	42.1%	104.1%	64.7%	70.4%	69.3%	65.5%
RAJASTHAN	Availability	20630	21630	18850	21530	21130	21910	14490	19720	22560	22390	22450	22440
	Requirement	11170	12580	13550	13200	11360	12300	11070	12670	14180	13830	13470	12500
	Surplus/Shortfall (MW)	9460	9050	5300	8330	9770	9610	3420	7050	8380	8560	8980	9940
	Surplus/Shortfall (%)	84.7%	71.9%	39.1%	63.1%	86.0%	78.1%	30.9%	55.6%	59.1%	61.9%	66.7%	79.5%
UTTAR PRADESH	Availability	21550	22740	22990	23860	22910	23720	22080	22980	22650	23240	21450	22870
	Requirement	21000	23000	23500	22400	22800	22700	18500	16500	18000	18000	17000	18000
	Surplus/Shortfall (MW)	550	-260	-510	1460	110	1020	3580	6480	4650	5240	4450	4870
	Surplus/Shortfall (%)	2.6%	-1.1%	-2.2%	6.5%	0.5%	4.5%	19.4%	39.3%	25.8%	29.1%	26.2%	27.1%
UTTARAKHAND	Availability	2740	2930	3020	2890	2840	2920	2480	2310	2690	2360	2620	2820
	Requirement	2000	2230	2230	2220	2150	2110	1820	1950	2330	2250	2310	2070
	Surplus/Shortfall (MW)	740	700	790	670	690	810	660	360	360	110	310	750
	Surplus/Shortfall (%)	37.0%	31.4%	35.4%	30.2%	32.1%	38.4%	36.3%	18.5%	15.5%	4.9%	13.4%	36.2%
Total NR	Availability	72560	77718	75669	78047	78808	79129	69201	75385	76564	76770	75415	79166
	Requirement	55800	62800	69100	68600	65600	66500	53200	48500	53600	54200	52000	52600
	Surplus/Shortfall (MW)	16760	14918	6569	9447	13208	12629	16001	26885	22964	22570	23415	26566
	Surplus/Shortfall (%)	30.0%	23.8%	9.5%	13.8%	20.1%	19.0%	30.1%	55.4%	42.8%	41.6%	45.0%	50.5%