



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th Jul 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 04.07.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 04th July 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 05-Jul-2020

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	60198	41860	34904	21630	2665	161257
Peak Shortage (MW)	338	0	0	0	178	516
Energy Met (MU)	1436	1003	796	450	51	3736
Hydro Gen (MU)	360	45	59	142	27	633
Wind Gen (MU)	40	67	182	-	-	289
Solar Gen (MU)*	40.91	21.90	56.49	4.86	0.04	124
Energy Shortage (MU)	9.3	0.0	0.0	0.0	2.7	12.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66282	43407	35781	21450	2702	160830
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	14:40	12:25	21:02	19:35	15:25

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.030	0.00	0.00	3.39	3.39	71.50	25.11

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	12825	0	271.9	148.1	-8.2	214	0.0
	Haryana	10559	0	232.5	166.1	0.1	295	0.0
	Rajasthan	12608	0	267.1	97.0	-2.0	465	0.0
	Delhi	5953	0	118.5	98.5	-1.3	267	0.0
	UP	21734	0	434.8	208.6	1.7	501	0.0
	Uttarakhand	1813	0	40.2	18.5	0.8	207	0.1
	HP	1302	65	26.3	-2.7	-2.1	86	0.0
	J&K(UT) & Ladakh(UT)	1813	453	38.0	15.3	0.6	279	9.3
	Chandigarh	326	0	6.4	6.6	-0.2	16	0.0
	Chhattisgarh	3853	0	87.1	43.8	-4.9	391	0.0
WR	Gujarat	14849	0	312.8	92.5	3.4	716	0.0
	MP	8812	0	193.4	102.1	4.6	662	0.0
	Maharashtra	16656	0	365.3	130.8	1.4	654	0.0
	Goa	386	0	8.1	8.0	-0.4	58	0.0
	DD	240	0	5.2	5.2	0.0	17	0.0
	DNH	584	0	13.2	13.2	0.0	30	0.0
	AMNSIL	781	0	17.5	7.4	-0.1	275	0.0
SR	Andhra Pradesh	6675	0	151.8	35.1	1.1	400	0.0
	Telangana	8024	0	161.8	77.1	0.7	631	0.0
	Karnataka	8159	0	157.6	33.3	-0.2	565	0.0
	Kerala	2947	0	61.5	46.3	1.0	369	0.0
	Tamil Nadu	11817	0	256.4	105.2	-1.6	603	0.0
	Puducherry	346	0	7.3	7.6	-0.4	38	0.0
ER	Bihar	5536	0	98.7	95.7	-0.5	424	0.0
	DVC	2875	0	62.0	-45.0	0.3	281	0.0
	Jharkhand	1428	0	27.8	20.4	-1.3	175	0.0
	Odisha	4188	0	88.7	6.4	0.3	623	0.0
	West Bengal	8143	0	171.3	65.2	0.3	583	0.0
Sikkim	92	0	1.2	1.3	-0.1	30	0.0	
NER	Arunachal Pradesh	114	0	2.1	1.7	0.4	40	0.0
	Assam	1713	117	31.9	26.9	0.1	163	2.6
	Manipur	170	2	2.7	2.3	0.3	71	0.0
	Meghalaya	320	0	5.5	-0.8	-0.3	46	0.0
	Mizoram	92	0	1.7	1.0	0.3	10	0.0
	Nagaland	123	0	2.5	2.3	-0.1	55	0.0
	Tripura	271	3	4.9	5.1	0.4	68	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.0	-0.6	-24.4
Day Peak (MW)	2289.0	-174.9	-1101.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	349.0	-300.1	65.8	-109.3	-5.4	0.0
Actual(MU)	346.6	-290.8	47.9	-105.8	-1.9	-4.0
O/D/U/D(MU)	-2.3	9.3	-17.9	3.5	3.5	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4985	14303	12172	1570	296	33327
State Sector	7269	24468	15023	5392	47	52199
Total	12254	38771	27195	6962	343	85525

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	574	1045	331	445	9	2405
Lignite	27	11	13	0	0	52
Hvdro	360	45	59	142	27	633
Nuclear	24	32	47	0	0	102
Gas, Naptha & Diesel	27	86	19	0	22	155
RES (Wind, Solar, Biomass & Others)	101	96	288	5	0	489
Total	1113	1315	758	592	59	3836
Share of RES in total generation (%)	9.05	7.29	38.00	0.84	0.07	12.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.51	13.11	52.03	24.81	46.20	31.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.055
Based on State Max Demands	1.108

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 05-Jul-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	-	0	1001	0.0	21.3	-21.3	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	10.1	-10.1	
3	765 kV	GAYA-VARANASI	D/C	0	945	0.0	15.3	-15.3	
4	765 kV	SASARAM-FATEHPUR	S/C	159	117	1.0	0.0	1.0	
5	765 kV	GAYA-BALIA	S/C	0	554	0.0	5.8	-5.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	254	0.0	5.5	-5.5	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	210	0.0	4.2	-4.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	994	0.0	17.2	-17.2	
9	400 kV	PATNA-BALIA	O/C	0	970	0.0	19.8	-19.8	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	457	0.0	8.4	-8.4	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	314	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIF-VARANASI	D/C	0	315	0.0	3.8	-3.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	110	0.0	2.1	-2.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.3	118.5	-117.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	918	0	10.0	0.0	10.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1255	0	17.2	0.0	17.2	
3	765 kV	JHARSUGUDA-DURG	D/C	345	79	2.5	0.0	2.5	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	76	321	0.0	3.1	-3.1	
5	400 kV	RANCHI-SIPAT	D/C	402	0	5.7	0.0	5.7	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	131	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	119	38	1.1	0.0	1.1	
						ER-WR	36.4	5.0	31.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	316	0.0	7.2	-7.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1082	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2123	0.0	31.3	-31.3	
4	400 kV	TALCHER-J/C	D/C	917	0	20.1	0.0	20.1	
5	220 kV	BALMELA-UPPER-SILERU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	62.7	-62.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	340	0.0	3.4	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	475	0.0	4.5	-4.5	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	119	0.0	1.6	-1.6	
						ER-NER	0.0	9.5	-9.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	13.4	-13.4	
						NER-NR	0.0	13.4	-13.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1754	0.0	57.5	-57.5	
2	HVDC	V'CHAL B/B	D/C	183	483	1.9	4.7	-2.8	
3	HVDC	APL -MHG	D/C	0	1916	0.0	40.9	-40.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2756	0.0	47.0	-47.0	
5	765 kV	PHAGI-GWALIOR	D/C	0	1227	0.0	23.3	-23.3	
6	765 kV	JABALPUR-ORAI	D/C	0	1084	0.0	35.7	-35.7	
7	765 kV	GWALIOR-ORAI	S/C	497	0	9.3	0.0	9.3	
8	765 kV	SATNA-ORAI	S/C	0	1507	0.0	29.5	-29.5	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	930	0.0	11.4	-11.4	
10	400 kV	ZERDA-KANKROLI	S/C	73	133	0.0	0.2	-0.2	
11	400 kV	ZERDA -BHINMAL	S/C	274	102	2.0	0.0	2.0	
12	400 kV	V'CHAL -RIHAND	S/C	695	0	15.3	0.0	15.3	
13	400 kV	RAPP-SHUJALPUR	D/C	0	519	0.0	6.3	-6.3	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	S/C	0	101	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	61	15	0.4	0.1	0.4	
17	220 kV	MALANPUR-AURAIYA	S/C	26	44	0.3	0.1	0.2	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0	
						WR-NR	29.2	259.3	-230.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.4	-12.4	
2	HVDC	BARSUR-L-SILERU	-	0	0	0.0	0.0	0.0	
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
4	765 kV	SOLAPUR-RAICHUR	D/C	462	1455	2.0	10.2	-8.2	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1900	0.0	23.3	-23.3	
6	400 kV	KOLHAPUR-KUDGI	D/C	891	0	13.1	0.0	13.1	
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
9	220 kV	XELDEM-AMBEWADI	S/C	0	78	1.4	0.0	1.4	
						WR-SR	16.6	45.9	-29.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	333	314	278	6.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	782	764	701	16.8
	ER	TALA (6 * 170) BINAGURI RECEIPT	1061	1054	1058	25.4
	NER	132KV-SALAKATI - GELEPHU	51	0	40	1.0
NEPAL	NER	132KV-RANGIA - DEOTHANG	62	0	50	1.2
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-17	0	-5	-0.1
	ER	132KV-BIHAR - NEPAL	-2	0	0	0.0
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-156	-2	-21	-0.5
	ER	Bheramara HVDC(Bangladesh)	-935	-730	-873	-21.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	83	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-71	-1.7