



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: 03rd 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 02.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 02nd 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: 03-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)	63328	42765	35398	21879	2624	165994
Peak Shortage (MW)	815	0	0	0	11	826
Energy Met (MU)	1512	1021	847	471	48	3900
Hydro Gen (MU)	366	47	57	132	29	632
Wind Gen (MU)	42	74	165	-	-	281
Solar Gen (MU)*	40.87	25.66	68.93	4.75	0.02	140
Energy Shortage (MU)	13.8	0.0	0.0	0.0	0.0	13.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68605	44539	39417	22546	2679	170545
Time Of Maximum Demand Met (From NLDC SCADA)	22:25	15:01	10:35	23:21	19:19	22:21

B. Frequency Profile (%)

Region	FV1	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.029	0.00	0.38	5.96	6.34	83.50	10.16

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	13087	0	301.8	149.1	-1.1	132	0.0
	Haryana	10607	135	236.1	169.3	1.5	281	0.0
	Rajasthan	12423	0	272.0	96.8	2.2	561	0.0
	Delhi	6164	0	125.9	103.7	-0.6	225	0.0
	UP	21904	610	454.9	206.6	2.7	637	3.2
	Uttarakhand	1910	0	40.9	18.7	0.0	170	0.1
	HP	1471	0	29.3	-1.5	-0.4	98	0.0
	J&K(UT) & Ladakh(UT)	2188	547	44.1	19.9	1.2	284	10.5
	Chandigarh	357	0	6.7	6.6	0.2	36	0.0
	Chhattisgarh	4097	0	95.6	34.6	0.7	317	0.0
WR	Gujarat	15237	0	315.8	84.6	0.1	414	0.0
	MP	8574	0	191.2	107.0	-1.2	267	0.0
	Maharashtra	16625	0	374.5	147.6	-0.8	543	0.0
	Goa	413	0	8.9	8.6	-0.2	54	0.0
	DD	234	0	5.1	5.1	0.0	20	0.0
	DNH	583	0	13.2	13.1	0.2	48	0.0
	AMNSIL	767	0	16.8	5.6	0.9	318	0.0
	Andhra Pradesh	7342	0	155.8	37.5	-0.6	557	0.0
SR	Telangana	8156	0	168.7	87.4	0.3	599	0.0
	Karnataka	9241	0	171.3	51.1	-2.1	488	0.0
	Kerala	3072	0	64.1	50.2	0.6	180	0.0
	Tamil Nadu	12502	0	280.4	120.5	-3.5	589	0.0
	Puducherry	338	0	7.1	7.4	-0.3	41	0.0
ER	Bihar	5726	0	111.0	108.5	-0.9	400	0.0
	DVC	2937	0	62.8	-44.0	0.6	200	0.0
	Jharkhand	1334	0	27.6	20.0	-2.0	150	0.0
	Odisha	4629	0	92.7	6.7	0.9	400	0.0
	West Bengal	8457	0	175.8	52.9	1.5	360	0.0
	Sikkim	93	0	1.1	1.3	-0.2	10	0.0
NER	Arunachal Pradesh	114	1	1.9	1.8	0.1	52	0.0
	Assam	1640	10	29.4	24.3	0.3	162	0.0
	Manipur	186	2	2.8	2.4	0.4	28	0.0
	Meghalaya	310	0	5.4	-0.3	-0.5	42	0.0
	Mizoram	93	2	1.6	1.2	0.1	19	0.0
	Nagaland	123	2	2.2	2.3	-0.4	19	0.0
	Tripura	295	3	5.1	3.8	0.9	96	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.3	-1.5	-23.7
Day Peak (MW)	2185.0	-251.0	-1095.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	336.1	-317.0	88.1	-104.0	-3.2	0.0
Actual(MU)	344.6	-319.3	66.8	-92.9	-2.1	-2.9
O/D/U/D(MU)	8.6	-2.3	-21.4	11.1	1.1	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4543	15294	12232	3440	578	36087
State Sector	6424	22504	14133	4292	11	47364
Total	10967	37798	26365	7732	590	83451

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	643	1061	373	468	11	2556
Lignite	23	12	15	9	0	51
Hydro	366	47	57	132	29	632
Nuclear	26	31	47	9	0	104
Gas, Naptha & Diesel	28	90	20	0	16	154
RES (Wind, Solar, Biomass & Others)	103	110	277	5	0	494
Total	1189	1352	790	605	56	3992
Share of RES in total generation (%)	8.63	8.10	35.07	0.80	0.04	12.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.61	13.91	48.29	22.65	52.49	30.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.074

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: 03-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	19.2	-19.2
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	D/C	0	701	0.0	10.6	-10.6
4	765 kV	SASARAM-FATEHPUR	S/C	0	0	4.2	0.0	4.2
5	765 kV	GAYA-BALIA	S/C	0	0	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	S/C	0	0	0.0	6.4	-6.4
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	0	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	818	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	Q/C	0	987	0.0	17.6	-17.6
10	400 kV	BIHARSHARIF-BALIA	D/C	0	463	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	319	0.0	5.2	-5.2
12	400 kV	BIHARSHARIF-VARANASI	D/C	76	190	0.0	1.3	-1.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	0	0.0	2.3	-2.3
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	0	0	0.4	0.0	0.4
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	0.1	-0.1
ER-NR						4.7	104.9	-100.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1075	0	12.4	0.0	12.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1095	0	20.1	0.0	20.1
3	765 kV	JHARSUGUDA-DURG	D/C	295	36	0.7	0.0	0.7
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	180	73	1.2	0.0	1.2
5	400 kV	RANCHI-SIPAT	D/C	401	0	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	D/C	186	0	3.4	0.0	3.4
ER-WR						44.2	1.4	42.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	319	0.0	7.2	-7.2
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1843	0.0	42.1	-42.1
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2091	0.0	32.2	-32.2
4	400 kV	TALCHER-I/C	D/C	896	462	0.0	0.6	-0.6
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0
ER-SR						0.0	81.6	-81.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	336	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	30	461	0.0	5.4	-5.4
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	109	0.0	1.7	-1.7
ER-NER						0.0	10.7	-10.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	14.1	-14.1
NER-NR						0.0	14.1	-14.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2510	0.0	64.6	-64.6
2	HVDC	V'CHAL B/B	D/C	184	247	1.7	3.7	-2.0
3	HVDC	APL -MHG	D/C	0	1916	0.0	44.7	-44.7
4	765 kV	GWALIOR-AGRA	D/C	0	2899	0.0	51.0	-51.0
5	765 kV	PHAGI-GWALIOR	D/C	0	1372	0.0	23.2	-23.2
6	765 kV	JABALPUR-ORAI	D/C	0	1043	0.0	30.6	-30.6
7	765 kV	GWALIOR-ORAI	S/C	382	0	4.7	0.0	4.7
8	765 kV	SATNA-ORAI	S/C	0	1797	0.0	34.5	-34.5
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	985	0.0	13.5	-13.5
10	400 kV	ZERDA-KANKROLI	S/C	55	121	0.0	0.6	-0.6
11	400 kV	ZERDA -BHINMAL	S/C	291	108	0.0	1.1	-1.1
12	400 kV	V'CHAL -RIHAND	S/C	962	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	D/C	0	462	0.0	6.1	-6.1
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	S/C	0	125	0.0	2.0	-2.0
16	220 kV	MEHGAON-AURAIYA	S/C	52	21	0.0	0.5	-0.5
17	220 kV	MALANPUR-AURAIYA	S/C	20	43	0.2	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						28.9	278.2	-249.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	525	0.0	12.2	-12.2
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	1005	1585	0.0	7.5	-7.5
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1908	0.0	21.5	-21.5
6	400 kV	KOLHAPUR-KUDGI	D/C	960	0	13.2	0.0	13.2
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	82	1.5	0.0	1.5
WR-SR						14.6	41.3	-26.6

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	286	268	247	5.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	768	740	749	18.0
	ER	TALA (6 * 170) BINAGURI RECEIPT	1072	1049	1063	25.5
	NER	132KV-SALAKATI - GELEPHU	0	0	35	0.8
NEPAL	NER	132KV-Tanakpur(NH) - Mahendranagar(PG)	-40	0	-13	-0.3
	ER	132KV-BIHAR - NEPAL	-54	-1	-22	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-157	0	-28	-0.7
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-942	-544	-856	-20.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	76	0	-65	-1.6