



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: 07th 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., डोंगतेह, 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 06.07.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंके 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 06th 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: 07-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)	54780	39444	35423	19801	2745	152193
Peak Shortage (MW)	495	0	0	0	11	506
Energy Met (MU)	1281	931	809	428	49	3498
Hydro Gen (MU)	361	37	62	144	27	631
Wind Gen (MU)	10	108	184	-	-	303
Solar Gen (MU)*	32.66	14.73	55.11	4.60	0.03	107
Energy Shortage (MU)	10.6	0.0	0.0	0.0	0.0	10.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59986	39468	39033	20384	2703	154489
Time Of Maximum Demand Met (From NLDC SCADA)	22:11	11:20	09:41	22:47	19:29	21:36

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	0.032	0.00	0.00	5.05	5.05	73.30	21.65

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	11299	0	252.3	153.6	-0.9	122	0.0
	Haryana	8599	0	183.3	151.4	2.3	339	0.6
	Rajasthan	11236	0	234.2	96.1	-1.9	419	0.0
	Delhi	5079	0	104.7	90.6	-1.8	198	0.1
	UP	20344	0	391.3	195.4	-1.3	437	0.3
	Uttarakhand	1880	0	40.8	18.1	0.9	144	0.0
	HP	1312	0	27.1	-2.5	-1.6	55	0.0
	J&K(UT) & Ladakh(UT)	2168	542	40.7	18.7	-1.0	210	9.7
WR	Chandigarh	306	0	6.0	6.5	-0.5	20	0.0
	Chhattisgarh	3404	0	83.3	23.9	0.3	162	0.0
	Gujarat	12445	0	269.0	65.8	1.9	557	0.0
	MP	8099	0	182.3	121.3	0.8	364	0.0
	Maharashtra	16182	0	353.3	124.7	0.2	702	0.0
	Goa	433	0	8.7	8.4	-0.2	47	0.0
	DD	224	0	4.7	4.7	0.0	19	0.0
	DNH	861	0	12.6	12.4	0.2	67	0.0
SR	AMNSIL	755	0	16.9	8.0	-0.5	209	0.0
	Andhra Pradesh	6986	0	148.5	38.7	0.9	697	0.0
	Telangana	7665	0	154.9	74.8	1.0	708	0.0
	Karnataka	9095	0	166.9	46.7	-0.1	544	0.0
	Kerala	3031	0	62.4	47.7	0.7	216	0.0
	Tamil Nadu	12561	0	268.8	97.8	-3.8	360	0.0
	Puducherry	363	0	7.6	7.8	-0.3	27	0.0
	ER	Bihar	5363	0	102.9	103.2	-0.7	452
DVC		2763	0	62.8	-36.5	0.9	351	0.0
Jharkhand		1344	0	24.3	18.6	-2.6	105	0.0
Odisha		3870	0	80.7	9.9	-0.4	345	0.0
West Bengal		7451	0	156.4	47.9	1.9	362	0.0
NER	Sikkim	91	0	1.3	1.3	0.0	36	0.0
	Arunachal Pradesh	107	1	1.9	1.8	0.1	24	0.0
	Assam	1777	30	30.9	26.3	-0.2	166	0.0
	Manipur	193	2	2.4	2.3	0.0	25	0.0
	Meghalaya	313	0	5.6	-0.5	-0.2	39	0.0
	Mizoram	100	2	1.6	1.2	0.1	12	0.0
	Nagaland	128	2	2.2	2.4	-0.5	28	0.0
Tripura	272	2	4.6	5.8	0.0	45	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.9	-1.6	-25.8
Day Peak (MW)	2335.0	-219.9	-1115.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.2	-306.5	88.3	-104.6	-7.4	0.0
Actual(MU)	327.2	-317.3	92.2	-94.3	-8.7	-0.9
O/D/U/D(MU)	-3.1	-10.7	3.9	10.3	-1.3	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6050	14693	13332	2310	296	36682
State Sector	10564	25819	14633	4892	47	55955
Total	16614	40512	27965	7202	343	92636

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	488	945	295	415	9	2151
Lignite	24	11	12	0	0	47
Hydro	361	37	62	144	27	631
Nuclear	26	32	47	0	0	105
Gas, Naptha & Diesel	24	73	20	0	27	143
RES (Wind, Solar, Biomass & Others)	62	131	291	5	0	489
Total	985	1228	727	564	64	3566

Share of RES in total generation (%)	6.33	10.67	40.01	0.82	0.05	13.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.66	16.26	55.01	26.41	42.62	34.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.088

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: 07-Jul-2020

SI 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	D/C	0	1401	0.0	24.4	-24.4	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	0	715	0.0	11.1	-11.1	
4	765 kV	SASARAM-FATEHPUR	S/C	159	177	1.2	0.0	1.2	
5	765 kV	GAYA-BALIA	S/C	0	473	0.0	4.5	-4.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	290	0.0	6.1	-6.1	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	175	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	903	0.0	14.9	-14.9	
9	400 kV	PATNA-BALIA	Q/C	0	924	0.0	13.5	-13.5	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	423	0.0	6.7	-6.7	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	291	0.0	4.5	-4.5	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	7	248	0.0	1.9	-1.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	34	91	0.0	1.5	-1.5	
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-CHANDAUJI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	1.5	102.1	-100.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1078	0	18.2	0.0	18.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1179	0	14.4	0.0	14.4	
3	765 kV	JHARSUGUDA-DURG	D/C	169	36	2.0	0.0	2.0	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	195	105	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	D/C	410	0	6.2	0.0	6.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	80	0.0	0.9	-0.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	176	0	3.3	0.0	3.3	
						ER-WR	45.8	0.9	44.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	343	0.0	7.5	-7.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1549	0.0	36.5	-36.5	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2083	0.0	36.1	-36.1	
4	400 kV	TALCHER-I/C	D/C	525	616	0.1	0.0	0.1	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	80.1	-80.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	113	390	0.0	1.9	-1.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	133	217	0.0	0.4	-0.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	119	0.0	1.1	-1.1	
						ER-NER	0.0	3.4	-3.4
Import/Export of ER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	608	0.0	14.3	-14.3	
						NER-NR	0.0	14.3	-14.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2502	0.0	51.4	-51.4	
2	HVDC	VINDHYACHAL B/B	-	229	101	1.5	0.0	1.5	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	2366	0.0	44.8	-44.8	
4	765 kV	GWALIOR-AGRA	D/C	0	2569	0.0	46.7	-46.7	
5	765 kV	PHAGI-GWALIOR	D/C	0	1149	0.0	22.0	-22.0	
6	765 kV	JABALPUR-ORAI	D/C	0	1038	0.0	37.6	-37.6	
7	765 kV	GWALIOR-ORAI	S/C	481	0	7.4	0.0	7.4	
8	765 kV	SATNA-ORAI	S/C	0	1415	0.0	29.3	-29.3	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1088	0.0	13.5	-13.5	
10	400 kV	ZERDA-KANKROLI	S/C	65	180	0.0	1.2	-1.2	
11	400 kV	ZERDA-BHINMAL	S/C	149	249	0.0	1.6	-1.6	
12	400 kV	VINDHYACHAL -RIHAND	S/C	957	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	D/C	0	392	0.0	2.5	-2.5	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.5	-1.5	
15	220 kV	BHANPURA-MORAK	S/C	0	93	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	S/C	74	4	0.1	0.0	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	37	36	0.5	0.0	0.5	
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	31.7	253.7	-222.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	10.9	-10.9	
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	409	1673	0.2	17.9	-17.7	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2224	0.0	31.8	-31.8	
6	400 kV	KOLHAPUR-KUDGI	D/C	872	0	9.6	0.0	9.6	
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	84	1.6	0.0	1.6	
						WR-SR	11.4	60.5	-49.2
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	351	307	296	7.1			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	780	769	764	18.3			
	ER	TALA (6 * 170) BINAGURI RECEIPT	1067	1059	1083	26.0			
	NER	132KV-SALAKATI - GELEPHU	75	0	7	0.2			
	NER	132KV-RANGIA - DEOTHANG	62	0	54	1.3			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-30	0	-12	-0.3			
	ER	132KV-BIHAR - NEPAL	-54	0	-20	-0.5			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-136	-2	-35	-0.8			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-958	-930	-937	-22.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-69	-1.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-69	-1.7			