



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: 06th 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 05.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	53319	37901	31961	21026	2604	146811
Peak Shortage (MW)	447	0	0	0	9	456
Energy Met (MU)	1137	937	744	437	49	3304
Hydro Gen (MU)	351	30	51	137	28	597
Wind Gen (MU)	14	78	154	-	-	246
Solar Gen (MU)*	33.12	14.80	47.66	4.77	0.03	100
Energy Shortage (MU)	9.0	0.0	0.0	0.0	0.1	9.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58713	40082	34107	21041	2638	148872
Time Of Maximum Demand Met (From NLDC SCADA)	22:26	00:01	09:18	21:32	19:51	22:25

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	0.113	0.00	0.00	2.57	2.57	46.95	50.48

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	10734	0	185.4	125.7	-23.9	96	0.0
	Haryana	8796	0	131.1	116.5	-12.3	321	0.0
	Rajasthan	11176	0	239.3	91.6	7.3	1061	0.0
	Delhi	5811	0	95.9	82.4	-3.7	253	0.1
	UP	21486	0	387.5	194.1	0.1	573	0.0
	Uttarakhand	1721	0	33.6	13.7	-1.3	174	0.0
	HP	1046	0	21.8	-4.2	-3.8	64	0.0
	J&K(UT) & Ladakh(UT)	1838	459	37.1	14.8	-0.7	159	8.9
WR	Chandigarh	266	0	4.8	6.1	-1.3	0	0.0
	Chhattisgarh	3518	0	88.6	27.5	5.6	320	0.0
	Gujarat	12415	0	280.3	100.0	2.1	671	0.0
	MP	8492	0	183.4	122.3	-1.9	585	0.0
	Maharashtra	15585	0	343.1	124.2	-0.1	565	0.0
	Goa	373	0	7.6	7.2	0.0	53	0.0
	DD	201	0	4.4	4.4	0.0	24	0.0
	DNH	541	0	12.2	12.4	-0.2	40	0.0
SR	AMNSIL	770	0	17.6	7.8	0.0	218	0.0
	Andhra Pradesh	6433	0	141.1	42.2	2.3	674	0.0
	Telangana	7928	0	154.3	79.2	2.2	788	0.0
	Karnataka	7700	0	149.5	35.8	1.2	923	0.0
	Kerala	2867	0	57.5	45.0	1.1	191	0.0
	Tamil Nadu	10678	0	234.8	98.8	-2.1	743	0.0
	Puducherry	328	0	6.8	7.2	-0.4	25	0.0
	ER	Bihar	5559	0	107.8	105.3	2.0	538
DVC		2818	0	62.5	-32.3	1.8	298	0.0
Jharkhand		1392	0	27.2	19.9	-1.8	245	0.0
Odisha		3929	0	83.4	10.3	1.2	435	0.0
West Bengal		7939	0	155.1	52.6	4.0	608	0.0
NER	Sikkim	81	0	1.0	1.1	-0.1	34	0.0
	Arunachal Pradesh	108	1	2.0	1.8	0.1	29	0.0
	Assam	1690	23	31.4	26.0	0.6	108	0.1
	Manipur	166	2	2.4	2.4	0.0	30	0.0
	Meghalaya	322	1	5.7	-0.4	-0.2	40	0.0
	Mizoram	54	2	1.5	1.2	0.0	7	0.0
	Nagaland	120	2	2.2	2.2	-0.3	12	0.0
Tripura	261	9	4.3	5.6	-0.1	70	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.6	-1.3	-25.8
Day Peak (MW)	2290.0	-101.0	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	255.9	-241.2	82.9	-90.7	-6.9	0.0
Actual(MU)	215.8	-227.2	90.5	-68.8	-8.8	1.6
O/D/U/D(MU)	-40.1	14.0	7.7	21.9	-1.9	1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5885	13343	12172	1245	296	32942
State Sector	11684	23255	14633	4892	47	54511
Total	17569	36598	26805	6137	343	87452

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	456	910	283	391	10	2050
Lignite	26	9	12	0	0	47
Hydro	351	30	51	137	28	597
Nuclear	26	32	47	0	0	105
Gas, Naptha & Diesel	24	74	16	0	26	141
RES (Wind, Solar, Biomass & Others)	65	100	252	5	0	422
Total	948	1155	661	533	64	3361

Share of RES in total generation (%)	6.85	8.69	38.03	0.90	0.05	12.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.64	14.04	52.92	26.60	43.37	33.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.109

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: 06-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	-	0	801	0.0	15.6	-15.6	
2	HVDC	PUSAULI B/B	S/C	0	398	0.0	9.7	-9.7	
3	765 kV	GAYA-VARANASI	D/C	54	724	0.0	8.4	-8.4	
4	765 kV	SASARAM-FATEHPUR	S/C	258	18	3.0	0.0	3.0	
5	765 kV	GAYA-BALIA	S/C	0	536	0.0	3.7	-3.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	282	0.0	5.9	-5.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	180	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	788	0.0	12.3	-12.3	
9	400 kV	PATNA-BALIA	Q/C	0	834	0.0	15.0	-15.0	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	376	0.0	5.1	-5.1	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	304	0.0	4.8	-4.8	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	86	188	0.0	1.2	-1.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	103	0.0	1.8	-1.8	
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	3.3	87.0	-83.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1585	0	22.0	0.0	22.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1237	0	15.1	0.0	15.1	
3	765 kV	JHARSUGUDA-DURG	D/C	221	74	2.3	0.0	2.3	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	144	219	0.0	0.5	-0.5	
5	400 kV	RANCHI-SIPAT	D/C	427	0	5.8	0.0	5.8	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	95	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	159	0	2.3	0.0	2.3	
						ER-WR	47.6	1.8	45.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	405	0.0	7.3	-7.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1294	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2515	0.0	38.2	-38.2	
4	400 kV	TALCHER-I/C	D/C	887	31	9.5	0.0	9.5	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	69.6	-69.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	D/C	106	213	0.0	0.2	-0.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	126	354	0.0	1.3	-1.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	4	93	0.0	0.9	-0.9	
						ER-NER	0.0	2.3	-2.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	13.1	-13.1	
						NER-NR	0.0	13.1	-13.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2508	27.3	0.0	27.3	
2	HVDC	V'CHAL B/B	D/C	229	199	3.6	0.0	3.6	
3	HVDC	APL -MHG	D/C	0	1914	0.0	30.7	-30.7	
4	765 kV	GWALIOR-AGRA	D/C	265	2777	0.0	28.8	-28.8	
5	765 kV	PHAGI-GWALIOR	D/C	239	1268	0.0	13.9	-13.9	
6	765 kV	JABALPUR-ORAI	D/C	21	1134	0.0	26.5	-26.5	
7	765 kV	GWALIOR-ORAI	S/C	468	0	3.7	0.0	3.7	
8	765 kV	SATNA-ORAI	S/C	0	1492	0.0	23.6	-23.6	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	584	1066	0.0	1.2	-1.2	
10	400 kV	ZERDA-KANKROLI	S/C	185	150	1.2	0.0	1.2	
11	400 kV	ZERDA -BHINMAL	S/C	217	150	1.0	0.0	1.0	
12	400 kV	V'CHAL -RIHAND	S/C	961	0	18.5	0.0	18.5	
13	400 kV	RAPP-SHUJALPUR	D/C	264	459	0.0	1.3	-1.3	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.1	0.9	-0.8	
15	220 kV	BHANPURA-MORAK	S/C	10	100	0.0	1.1	-1.1	
16	220 kV	MEHGAON-AURAIYA	S/C	92	24	0.3	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	57	51	0.8	0.0	0.8	
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	56.5	128.1	-71.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	10.5	-10.5	
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	325	2584	0.3	22.0	-21.7	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2659	0.0	32.4	-32.4	
6	400 kV	KOLHAPUR-KUDGI	D/C	817	47	9.2	0.0	9.2	
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	87	1.4	0.0	1.4	
						WR-SR	10.8	64.9	-54.1
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	338	321	298	7.2			
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	781	777	771	18.5			
	ER	TALA (6 * 170) BINAGURI RECEIPT	1066	1055	1073	25.8			
	NER	132KV-SALAKATI - GELEPHU	44	0	40	1.0			
	NER	132KV-RANGIA - DEOTHANG	61	0	50	1.2			
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-24	0	-10	-0.2			
	ER	132KV-BIHAR - NEPAL	-63	-1	-13	-0.3			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	140	8	-33	-0.8			
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-942	-928	-933	-22.4			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-71	-1.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	79	0	-71	-1.7			