



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: 04th July 2021

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 03.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-जुलाई-2021 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 03rd July 2021, 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: 04-Jul-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	60890	50477	41692	21354	2750	177163
Peak Shortage (MW)	200	0	0	0	6	206
Energy Met (MU)	1466	1217	1010	476	51	4220
Hydro Gen (MU)	351	40	117	132	28	668
Wind Gen (MU)	49	179	82	-	-	310
Solar Gen (MU)*	50.96	35.76	97.00	5.04	0.09	189
Energy Shortage (MU)	5.06	0.00	0.00	0.00	0.04	5.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68508	53560	46264	22355	2950	187209
Time Of Maximum Demand Met (From NLDC SCADA)	23:11	15:26	09:52	20:32	19:14	14:40

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	0.065	0.00	2.41	8.85	11.26	63.45	25.29

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	12979	88	267.9	160.5	-9.0	194	0.59
	Haryana	11130	0	221.4	182.5	-7.7	304	0.00
	Rajasthan	13199	0	281.9	63.5	-1.0	517	0.52
	Delhi	6103	0	119.1	108.3	-1.8	257	0.01
	UP	22659	350	451.7	225.1	-2.3	383	0.28
	Uttarakhand	2115	0	46.0	18.3	0.5	152	0.00
	HP	1476	0	29.4	-1.1	-2.7	0	0.21
	J&K(UT) & Ladakh(UT)	2274	250	42.5	12.6	5.2	590	3.45
Chandigarh	330	0	6.6	7.0	-0.5	29	0.00	
WR	Chhattisgarh	3735	0	89.4	49.3	-0.5	227	0.00
	Gujarat	17261	0	371.7	114.1	3.1	1258	0.00
	MP	9706	0	220.3	113.1	-0.3	785	0.00
	Maharashtra	21850	0	480.3	154.5	-1.4	707	0.00
	Goa	550	0	12.2	9.5	2.0	45	0.00
	DD	311	0	7.2	6.8	0.4	32	0.00
	DNH	811	0	18.9	18.8	0.1	43	0.00
	AMNSIL	868	0	17.0	4.0	0.4	323	0.00
SR	Andhra Pradesh	8291	0	176.0	52.5	1.2	862	0.00
	Telangana	10511	0	226.9	91.9	0.8	531	0.00
	Karnataka	11172	0	210.5	58.9	1.4	694	0.00
	Kerala	3325	0	69.2	42.9	0.1	357	0.00
	Tamil Nadu	14291	0	319.9	162.5	-0.7	717	0.00
	Puducherry	392	0	7.9	8.1	-0.1	56	0.00
ER	Bihar	5859	0	106.6	98.5	-1.1	496	0.00
	DVC	2863	0	62.8	-44.1	-0.9	176	0.00
	Jharkhand	1443	0	27.7	24.9	-2.3	375	0.00
	Odisha	5804	0	117.6	46.6	1.3	451	0.00
	West Bengal	7677	0	159.5	41.9	0.6	488	0.00
Sikkim	114	0	1.8	1.5	0.4	51	0.00	
NER	Arunachal Pradesh	119	0	2.2	2.2	-0.2	17	0.01
	Assam	1826	3	31.6	24.1	0.5	151	0.00
	Manipur	184	0	2.6	2.6	-0.1	22	0.01
	Meghalaya	303	0	5.7	1.8	-0.1	54	0.00
	Mizoram	107	1	1.7	1.6	0.0	17	0.01
	Nagaland	128	1	2.4	2.4	0.0	19	0.01
	Tripura	268	2	4.4	3.5	-0.2	27	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.1	-2.8	-19.0
Day Peak (MW)	2067.0	-325.8	-953.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.5	-267.8	60.2	-137.5	-8.4	0.0
Actual(MU)	329.2	-261.8	69.6	-134.3	-8.5	-5.8
O/D/U/D(MU)	-24.3	6.0	9.4	3.3	-0.1	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4760	17406	7272	1155	588	31181	47
State Sector	7335	17381	6485	3485	11	34697	53
Total	12095	34787	13757	4640	600	65879	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	600	1154	531	500	11	2796	65
Lignite	27	12	43	0	0	82	2
Hydro	351	40	117	132	28	668	16
Nuclear	30	33	46	0	0	109	3
Gas, Naptha & Diesel	35	39	12	0	25	111	3
RES (Wind, Solar, Biomass & Others)	117	215	203	5	0	540	13
Total	1161	1491	952	637	64	4306	100

Share of RES in total generation (%)	10.11	14.39	21.30	0.79	0.14	12.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.94	19.24	38.51	21.58	43.59	30.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.079

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: 04-Jul-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1202	0.0	29.1	-29.1	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	768	0.0	10.2	-10.2	
4	765 kV	SASARAM-FATEHPUR	1	243	238	0.0	0.3	-0.3	
5	765 kV	GAYA-BALIA	1	0	606	0.0	11.2	-11.2	
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	95	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	788	0.0	13.1	-13.1	
9	400 kV	PATNA-BALIA	4	0	1091	0.0	19.7	-19.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	490	0.0	7.8	-7.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	413	0.0	6.9	-6.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	318	0.0	4.4	-4.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	137	0.0	1.8	-1.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	116.4	-116.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	539	520	2.3	0.0	2.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1404	0	20.1	0.0	20.1	
3	765 kV	JHARSUGUDA-DURG	2	187	132	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	287	65	2.2	0.0	2.2	
5	400 kV	RANCHI-SIPAT	2	414	0	5.7	0.0	5.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	3	96	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	176	0	3.2	0.0	3.2	
						ER-WR	33.4	1.3	32.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1633	0.0	39.5	-39.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1978	0.0	32.1	-32.1	
4	400 kV	TALCHER-I/C	2	631	0	4.3	0.0	4.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	83.9	-83.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	404	0.0	6.6	-6.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	393	0.0	5.8	-5.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	123	0.0	2.2	-2.2	
						ER-NER	0.0	14.6	-14.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	24.3	-24.3	
						NER-NR	0.0	24.3	-24.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3534	0.0	53.0	-53.0	
2	HVDC	VINDHYACHAL B/B	-	195	202	1.2	2.9	-1.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	48.4	-48.4	
4	765 kV	GWALIOR-AGRA	2	0	2719	0.0	49.0	-49.0	
5	765 kV	PHAGI-GWALIOR	2	0	1622	0.0	24.4	-24.4	
6	765 kV	JABALPUR-ORAI	2	0	947	0.0	33.4	-33.4	
7	765 kV	GWALIOR-ORAI	1	611	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	1	0	1420	0.0	30.1	-30.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	885	442	1.5	0.0	1.5	
10	400 kV	ZERDA-KANKROLI	1	258	0	3.2	0.0	3.2	
11	400 kV	ZERDA-BHINMAL	1	440	0	7.5	0.0	7.5	
12	400 kV	VINDHYACHAL-RIHAND	1	957	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	2	2	424	0.0	3.5	-3.5	
14	220 kV	BHANPURA-RANPUR	1	0	94	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.5	-0.3	
16	220 kV	MEHGAON-AURAIYA	1	94	0	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	1	62	22	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	48.4	246.4	-198.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	304	0	7.4	0.0	7.4	
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	29.4	-29.4	
3	765 kV	SOLAPUR-RAICHUR	2	1627	937	4.1	0.0	4.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2149	0.0	31.9	-31.9	
5	400 kV	KOLHAPUR-KUDGI	2	1217	0	17.7	0.0	17.7	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	72	1.4	0.0	1.4	
						WR-SR	30.5	61.3	-30.8
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	662	0	607	14.6			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1022	1011	1022	24.5			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	293	0	265	6.4			
	NER	132kV GELEPHU-SALAKATI	32	27	27	0.7			
	NER	132kV MOTANGA-RANGIA	58	35	43	1.0			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-48	-1.2			
	ER	NEPAL IMPORT (FROM BIHAR)	-162	-1	-47	-1.1			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-90	2	-24	-0.6			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-820	-577	-683	-16.4			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-108	-2.6			