



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: 16th 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 15.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	64187	50875	37955	23775	2939	179731
Peak Shortage (MW)	200	0	0	181	0	381
Energy Met (MU)	1433	1180	833	523	55	4024
Hydro Gen (MU)	366	31	97	141	32	667
Wind Gen (MU)	12	54	147	-	-	213
Solar Gen (MU)*	55.16	34.42	65.01	4.90	0.20	160
Energy Shortage (MU)	3.45	0.08	0.00	0.54	0.04	4.11
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67917	51308	39086	24205	2998	181642
Time Of Maximum Demand Met (From NLDC SCADA)	21:24	14:41	19:26	23:42	20:32	19:56

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	0.028	0.00	0.00	4.71	4.71	80.16	15.13

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	12089	0	276.0	177.4	-1.0	115	0.00
	Haryana	8625	0	182.5	147.0	0.2	234	0.00
	Rajasthan	11455	0	249.7	75.2	1.2	477	0.00
	Delhi	5667	0	111.9	103.2	-1.6	344	0.00
	UP	24494	0	485.8	228.8	-1.0	353	0.00
	Uttarakhand	1991	0	44.7	14.0	0.4	135	0.00
	HP	1482	0	29.6	-4.2	-3.8	0	0.00
	J&K(UT) & Ladakh(UT)	2368	250	46.7	20.5	0.7	231	3.45
	Chandigarh	300	0	6.2	6.1	0.0	28	0.00
WR	Chhattisgarh	4534	39	109.0	50.6	1.2	242	0.08
	Gujarat	16170	0	345.2	178.0	4.4	523	0.00
	MP	10603	0	240.7	154.5	1.0	1043	0.00
	Maharashtra	19629	0	428.3	132.2	-1.5	648	0.00
	Goa	534	0	11.3	10.4	0.4	58	0.00
	DD	350	0	7.7	7.5	0.2	22	0.00
	DNH	841	0	19.2	19.3	-0.1	62	0.00
	AMNSIL	877	0	18.5	4.6	0.5	322	0.00
	Andhra Pradesh	7589	0	154.1	36.4	-0.2	514	0.00
SR	Telangana	7474	0	155.1	56.3	-1.5	426	0.00
	Karnataka	7798	0	153.1	-4.8	-2.8	665	0.00
	Kerala	3123	0	65.1	35.3	-0.3	260	0.00
	Tamil Nadu	13628	0	297.4	142.4	0.2	641	0.00
	Puducherry	390	0	8.2	8.4	-0.2	27	0.00
ER	Bihar	6789	0	132.2	123.7	0.1	255	0.00
	DVC	3156	0	67.7	-39.8	-0.4	323	0.00
	Jharkhand	1434	0	29.6	24.0	-2.1	128	0.54
	Odisha	5644	0	114.1	39.3	-0.3	421	0.00
	West Bengal	8890	0	177.9	52.0	0.0	508	0.00
	Sikkim	93	0	1.5	1.4	0.1	26	0.00
	Assam	1865	0	35.1	28.0	0.1	121	0.00
NER	Manipur	203	0	2.7	2.5	0.2	31	0.01
	Meghalaya	317	0	5.9	1.8	-0.1	41	0.00
	Mizoram	102	0	1.7	1.5	0.0	21	0.01
	Nagaland	140	0	2.5	2.3	0.1	10	0.01
	Tripura	296	1	5.3	5.2	0.4	66	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.3	-7.1	-22.6
Day Peak (MW)	2090.0	-435.3	-959.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	321.3	-179.2	-50.4	-87.1	-4.6	0.0
Actual(MU)	317.8	-156.0	-57.9	-101.3	-5.6	-3.1
OD/UD(MU)	-3.5	23.2	-7.5	-14.3	-1.0	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4817	15693	8482	1820	622	31434	44
State Sector	8260	19367	9108	4065	11	40811	56
Total	13077	35060	17590	5885	633	72245	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	612	1161	467	512	11	2763	67
Lignite	25	9	43	0	0	76	2
Hydro	366	31	97	141	32	667	16
Nuclear	26	32	42	0	0	100	2
Gas, Naptha & Diesel	25	30	11	0	23	89	2
RES (Wind, Solar, Biomass & Others)	88	88	241	5	0	422	10
Total	1141	1351	900	658	66	4117	100

Share of RES in total generation (%)	7.67	6.53	26.82	0.75	0.31	10.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.02	11.21	42.20	22.19	48.77	28.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.052

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: 16-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	1501	0.0	26.8	-26.8	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	607	0.0	9.4	-9.4	
4	765 kV	SASARAM-FATEHPUR	1	201	58	1.5	0.0	1.5	
5	765 kV	GAYA-BALIA	1	0	626	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	5.1	-5.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	83	0.0	0.8	-0.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	553	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1064	0.0	18.5	-18.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	322	0.0	5.8	-5.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	350	0.0	5.0	-5.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	33	173	0.0	2.6	-2.6	
13	220 kV	PUSAULI-SAHUPURI	1	0	131	0.0	2.0	-2.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
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	2.1	102.1	-100.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	25	1154	0.0	10.2	-10.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1756	0	31.2	0.0	31.2	
3	765 kV	JHARSUGUDA-DURG	2	60	137	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	368	0.0	5.0	-5.0	
5	400 kV	RANCHI-SIPAT	2	435	0	7.5	0.0	7.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	147	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	106	0	1.2	0.0	1.2	
						ER-WR	39.8	18.7	21.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	246	0	6.1	0.0	6.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	33.6	-33.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1906	0.0	28.5	-28.5	
4	400 kV	TALCHER-I/C	2	786	298	6.2	0.0	6.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	6.1	62.1	-55.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	285	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	128	334	0.0	4.0	-4.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	2.3	-2.3	
						ER-NER	0.0	10.7	-10.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	707	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4019	0.0	74.1	-74.1	
2	HVDC	VINDHYACHAL B/B	-	195	253	2.6	1.0	1.6	
3	HVDC	MUNDRAMOHINDERGARH	2	0	1914	0.0	34.5	-34.5	
4	765 kV	GWALIOR-AGRA	2	0	2795	0.0	50.4	-50.4	
5	765 kV	GWALIOR-PHAGI	2	0	1741	0.0	32.9	-32.9	
6	765 kV	JABALPUR-ORAI	2	0	1207	0.0	45.2	-45.2	
7	765 kV	GWALIOR-ORAI	1	729	0	13.5	0.0	13.5	
8	765 kV	SATNA-ORAI	1	0	1467	0.0	31.1	-31.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1216	0	17.1	0.0	17.1	
10	400 kV	ZERDA-KANKROLI	1	271	0	4.7	0.0	4.7	
11	400 kV	ZERDA-BHINMAL	1	519	0	7.7	0.0	7.7	
12	400 kV	VINDHYACHAL-RIHAND	1	979	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUALPUR	2	0	521	0.0	7.9	-7.9	
14	220 kV	BHANPURA-RANPUR	1	5	89	0.0	1.1	-1.1	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3	
16	220 kV	MEHGAON-AURAIYA	1	103	1	0.2	0.2	0.0	
17	220 kV	MALANPUR-AURAIYA	1	61	32	0.9	0.0	0.9	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	69.1	278.9	-209.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	493	0	11.7	0.0	11.7	
2	HVDC	RAIGARH-PUGALUR	2	1444	0	18.4	0.0	18.4	
3	765 kV	SOLAPUR-RAICHUR	2	1970	43	26.0	0.0	26.0	
4	765 kV	WARDHA-NIZAMABAD	2	714	1077	1.7	7.0	-5.3	
5	400 kV	KOLHAPUR-KUDGI	2	1414	0	22.9	0.0	22.9	
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	1	77	0.4	0.0	0.4	
						WR-SR	81.1	7.0	74.1
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)	664	641	664	16.4			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1023	0	982	23.6			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	313	0	277	6.7			
	NER	132KV GELEPHU-SALAKATI	38	0	28	0.7			
	NER	132KV MOTANGA-RANGIA	52	37	42	1.0			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-56	-1.4			
	ER	NEPAL IMPORT (FROM BIHAR)	-107	-1	-49	-1.2			
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-254	-98	-190	-4.6			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-832	-808	-822	-19.7			
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-118	-2.8			