National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 30th 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., डोंगतिएह, 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 29.07.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जुलाई-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 29th 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: 30-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)	53608	45672	40933	21826	2827	164866
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1141	1061	1004	465	54	3725
Hydro Gen (MU)	352	25	152	127	27	684
Wind Gen (MU)	23	268	229	-	-	520
Solar Gen (MU)*	32.76	12.54	83.59	3.96	0.23	133
Energy Shortage (MU)	3.65	0.00	0.00	0.00	0.04	3.69
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54885	47108	48277	22406	2832	166921
Time Of Maximum Demand Met (From NLDC SCADA)	20:39	09:36	09:41	00:01	20:01	10:36

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	0.021	0.00	0.00	2.78	2.78	81.85	15.37

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	8277	0	169.0	144.2	-13.7	277	0.00
	Haryana	7405	0	152.4	134.2	-2.3	131	0.00
	Rajasthan	9853	0	221.1	79.3	0.6	454	0.00
	Delhi	4894	0	101.4	90.1	-2.5	85	0.00
	UP	18914	0	376.3	190.5	-1.5	271	0.20
	Uttarakhand	1977	0	43.0	18.8	-0.2	189	0.00
	HP	1392	0	29.0	-8.9	-3.7	0	0.00
	J&K(UT) & Ladakh(UT)	2307	250	43.4	17.2	0.8	420	3.45
	Chandigarh	264	0	5.5	6.0	-0.5	3	0.00
WR	Chhattisgarh	3393	0	77.6	32.5	-0.8	290	0.00
	Gujarat	14286	0	311.6	111.4	-0.7	684	0.00
	MP	8689	0	187.2	83.2	-2.7	373	0.00
	Maharashtra	19904	0	426.9	132.0	-2.1	745	0.00
	Goa	582	0	12.2	11.3	0.3	29	0.00
	DD	332	0	7.4	7.1	0.3	27	0.00
	DNH	853	0	19.7	19.5	0.2	65	0.00
	AMNSIL	849	0	18.0	6.3	-0.2	324	0.00
SR	Andhra Pradesh	9435	0	194.6	37.3	0.6	583	0.00
	Telangana	11376	0	218.0	96.0	-0.3	661	0.00
	Karnataka	9598	0	175.5	13.7	0.1	805	0.00
	Kerala	3306	0	69.6	29.4	-1.6	171	0.00
	Tamil Nadu	14972	0	337.7	135.2	0.1	477	0.00
	Puducherry	445	0	8.9	9.1	-0.2	36	0.00
ER	Bihar	5983	0	120.3	117.9	2.1	505	0.00
	DVC	3169	0	65.3	-26.9	-0.2	287	0.00
	Jharkhand	1542	0	27.9	25.6	-3.4	111	0.00
	Odisha	5241	0	106.2	38.3	0.7	697	0.00
	West Bengal	7648	0	143.9	45.4	-0.3	360	0.00
	Sikkim	89	0	1.3	1.6	-0.3	14	0.00
NER	Arunachal Pradesh	147	0	2.2	2.3	-0.2	59	0.01
	Assam	1812	0	35.1	28.4	0.3	139	0.00
	Manipur	189	0	2.8	2.6	0.2	21	0.01
	Meghalaya	325	0	5.7	1.9	0.3	54	0.00
	Mizoram	101	0	1.6	1.5	0.1	13	0.01
	Nagaland	138	0	2.8	2.3	0.1	23	0.01
	Tripura	260	0	4.4	4.5	-0.5	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.4	-6.8	-19.3
Day Peak (MW)	1782.0	-457.4	-1092.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	302.7	-254.1	27.2	-70.7	-5.1	0.0
Actual(MU)	281.7	-259.4	36.0	-56.6	-6.8	-5.1
O/D/U/D(MU)	-21.1	-5.2	8.8	14.1	-1.7	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8402	18455	10552	1220	409	39037	43
State Sector	14585	21650	10498	5905	47	52684	57
Total	22987	40104	21050	7125	455	91721	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	397	959	398	422	10	2186	57
Lignite	25	11	35	0	0	72	2
Hydro	352	25	152	127	27	684	18
Nuclear	27	33	42	0	0	101	3
Gas, Naptha & Diesel	21	33	11	0	28	93	2
RES (Wind, Solar, Biomass & Others)	78	281	343	4	0	705	18
Total	901	1342	980	553	65	3841	100

Share of RES in total generation (%)	8.63	20.93	34.97	0.71	0.35	18.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	50.71	25.22	54.71	23.77	41.76	38.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.051
Based on State Max Demands	1.078

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: 30-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	1002	0.0	23.8	-23.8
2	HVDC	PUSAULI B/B	-	0	245	0.0	5.7	-5.7
3	765 kV	GAYA-VARANASI	2	46	580	0.0	5.3	-5.3
4	765 kV	SASARAM-FATEHPUR	1	290	0	4.1	0.0	4.1
5	765 kV	GAYA-BALIA	1	0	480	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	253	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	69	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	609	0.0	7.3	-7.3
9	400 kV	PATNA-BALIA	4	0	747	0.0	12.0	-12.0
10	400 kV	BIHARSHARIFF-BALIA	2	12	210	0.0	1.8	-1.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	423	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	142	175	0.5	0.0	0.5
13	220 kV	PUSAULI-SAHUPURI	1	0	123	0.0	2.4	-2.4
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	5.1	76.9	-71.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1353	0	21.0	0.0	21.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1868	0	33.5	0.0	33.5
3	765 kV	JHARSUGUDA-DURG	2	307	0	5.2	0.0	5.2
4	400 kV	JHARSUGUDA-RAIGARH	4	256	112	2.1	0.0	2.1
5	400 kV	RANCHI-SIPAT	2	498	0	8.6	0.0	8.6
6	220 kV	BUDHIPADAR-RAIGARH	1	20	68	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	179	0	3.1	0.0	3.1
					ER-WR	73.6	0.6	73.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	518	0.0	10.2	-10.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	33.4	-33.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2410	0.0	38.3	-38.3
4	400 kV	TALCHER-I/C	2	361	860	0.0	4.7	-4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	81.9	-81.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	276	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	66	302	0.0	3.1	-3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.5	-1.5
					ER-NER	0.0	8.6	-8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3019	0.0	43.2	-43.2
2	HVDC	VINDHYACHAL B/B	-	48	254	0.5	3.4	-2.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	35.7	-35.7
4	765 kV	GWALIOR-AGRA	2	0	2795	0.0	50.2	-50.2
5	765 kV	GWALIOR-PHAGI	2	0	1276	0.0	21.3	-21.3
6	765 kV	JABALPUR-ORAI	2	0	947	0.0	32.3	-32.3
7	765 kV	GWALIOR-ORAI	1	667	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	1249	0.0	25.7	-25.7
9	765 kV	BANASKANTHA-CHITORGARH	2	0	903	0.0	12.1	-12.1
10	400 kV	ZERDA-KANKROLI	1	46	138	0.0	0.5	-0.5
11	400 kV	ZERDA -BHINMAL	1	121	244	0.0	0.1	-0.1
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	474	0.0	6.3	-6.3
14	220 kV	BHANPURA-RANPUR	1	0	152	0.0	2.7	-2.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	62	29	0.1	0.5	-0.4
17	220 kV	MALANPUR-AURAIYA	1	42	48	0.3	0.2	0.0
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	35.4	236.7	-201.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	594	0	9.3	0.0	9.3
2	HVDC	RAIGARH-PUGALUR	2	967	0	20.5	0.0	20.5
3	765 kV	SOLAPUR-RAICHUR	2	1449	1476	2.2	0.0	2.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2628	0.0	35.0	-35.0
5	400 kV	KOLHAPUR-KUDGI	2	1211	0	16.6	0.0	16.6
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	82	1.5	0.0	1.5
					WR-SR	50.1	35.0	15.1

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	654	0	595	14.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	749	540	594	14.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	295	0	259	6.2
	NER	132kV GELEPHU-SALAKATI	27	19	23	0.6
	NER	132kV MOTANGA-RANGIA	57	30	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-57	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-132	-11	-32	-0.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-245	-64	-193	-4.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-976	-698	-709	-17.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	116	0	-94	-2.3