



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: 29th June 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 28.06.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-जून-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 28th June 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: 29-Jun-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)	63894	48553	41374	22001	2839	178661
Peak Shortage (MW)	920	0	0	0	2	922
Energy Met (MU)	1509	1127	959	487	52	4134
Hydro Gen (MU)	337	53	103	125	23	641
Wind Gen (MU)	17	78	68	-	-	163
Solar Gen (MU)*	50.62	30.57	91.03	5.27	0.19	178
Energy Shortage (MU)	4.47	0.09	0.00	0.00	0.04	4.60
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68439	49383	44912	22932	3057	181820
Time Of Maximum Demand Met (From NLDC SCADA)	23:31	14:30	09:46	21:46	19:33	11:52

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	0.068	0.02	5.07	8.44	13.53	72.72	13.75

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	12636	0	293.0	166.6	-0.7	124	0.00
	Haryana	11013	0	238.5	169.2	1.6	244	0.20
	Rajasthan	11933	0	257.3	84.4	2.1	713	0.68
	Delhi	6403	0	128.9	115.1	-0.7	271	0.00
	UP	22778	0	458.5	193.6	0.2	994	0.00
	Uttarakhand	2129	0	45.7	21.1	0.9	107	0.14
	HP	1470	0	32.5	0.6	1.1	213	0.00
	J&K(UT) & Ladakh(UT)	2362	250	47.5	22.1	0.7	377	3.45
	Chandigarh	350	0	6.8	6.6	0.2	45	0.00
	Chhattisgarh	3868	29	91.1	42.9	1.2	386	0.09
WR	Gujarat	16177	0	356.7	138.6	11.0	857	0.00
	MP	8834	0	200.1	111.2	1.3	907	0.00
	Maharashtra	19333	0	424.0	131.6	0.5	962	0.00
	Goa	556	0	11.5	10.6	0.3	41	0.00
	DD	318	0	7.0	6.6	0.3	30	0.00
	DNH	816	0	18.6	18.5	0.1	47	0.00
	AMNSIL	823	0	18.3	3.8	0.9	310	0.00
SR	Andhra Pradesh	9030	0	179.7	72.3	2.7	929	0.00
	Telangana	9594	0	203.0	72.9	-0.9	416	0.00
	Karnataka	10093	0	184.2	54.0	-1.0	608	0.00
	Kerala	3304	0	69.7	40.1	-0.4	217	0.00
	Tamil Nadu	14792	0	314.3	157.7	5.3	1698	0.00
	Puducherry	390	0	8.3	8.5	-0.2	29	0.00
ER	Bihar	5991	0	118.1	106.7	1.3	400	0.00
	DVC	3234	0	68.0	-43.5	-0.3	259	0.00
	Jharkhand	1534	0	29.2	24.6	-2.0	181	0.00
	Odisha	4985	0	104.7	43.0	-0.3	271	0.00
	West Bengal	8517	0	165.8	28.7	0.7	380	0.00
NER	Sikkim	86	0	1.3	1.5	-0.2	7	0.00
	Arunachal Pradesh	120	1	2.2	2.0	0.0	32	0.01
	Assam	1842	0	32.6	27.8	0.4	123	0.00
	Manipur	183	1	2.7	2.6	0.1	21	0.01
	Meghalaya	310	0	5.5	2.1	-0.4	59	0.00
	Mizoram	102	1	1.6	1.6	-0.1	13	0.01
	Nagaland	135	1	2.6	2.6	0.0	29	0.01
	Tripura	286	0	4.8	4.3	0.0	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.8	-7.7	-24.8
Day Peak (MW)	1546.0	-448.5	-1053.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	342.3	-240.4	35.3	-136.6	-0.7	0.0
Actual(MU)	328.7	-231.7	37.3	-135.3	-2.5	-3.6
O/D/U/D(MU)	-13.6	8.7	2.0	1.2	-1.8	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4123	19908	8072	600	888	33591	47
State Sector	7440	18512	8995	3553	11	38511	53
Total	11563	38420	17067	4153	900	72102	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	695	1135	542	536	13	2921	69
Lignite	30	7	51	0	0	88	2
Hvdro	337	53	103	125	23	642	15
Nuclear	30	32	43	0	0	106	3
Gas, Naptha & Diesel	23	36	11	0	24	95	2
RES (Wind, Solar, Biomass & Others)	85	109	184	5	0	383	9
Total	1201	1372	934	666	60	4234	100
Share of RES in total generation (%)	7.06	7.94	19.66	0.79	0.32	9.04	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.68	14.15	35.34	19.50	38.95	26.69	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.080

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: 29-Jun-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	857	0.0	19.9	-19.9	
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	766	0.0	14.3	-14.3	
4	765 kV	SASARAM-FATEHPUR	1	0	350	0.0	4.7	-4.7	
5	765 kV	GAYABALLIA	1	0	612	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	221	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	99	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	821	0.0	15.4	-15.4	
9	400 kV	PATNA-BALLIA	4	0	912	0.0	17.8	-17.8	
10	400 kV	BIHARSHARIFF-BALLIA	2	0	590	0.0	9.8	-9.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	435	0.0	7.9	-7.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	281	0.0	4.9	-4.9	
13	220 kV	PUSAULI-SAHUPURI	1	0	123	0.0	1.7	-1.7	
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	118.8	-118.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	445	733	1.0	0.0	1.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1012	0	13.5	0.0	13.5	
3	765 kV	JHARSUGUDA-DURG	2	92	165	0.0	0.6	-0.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	232	122	1.0	0.0	1.0	
5	400 kV	RANCHI-SIPAT	2	275	10	3.4	0.0	3.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	94	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	133	0	2.0	0.0	2.0	
						ER-WR	20.8	2.0	18.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1629	0.0	32.2	-32.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1915	0.0	31.8	-31.8	
4	400 kV	TALCHER-I/C	2	677	0	11.1	0.0	11.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	74.0	-74.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	0	305	0.0	4.1	-4.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	80	362	0.0	3.7	-3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	111	0.0	1.7	-1.7	
						ER-NER	0.0	9.5	-9.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	607	0.0	14.5	-14.5	
						NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2527	0.0	50.5	-50.5	
2	HVDC	VINDHYACHAL B/B	-	244	253	2.5	2.3	0.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1453	0.0	36.3	-36.3	
4	765 kV	GWALIOR-AGRA	2	0	2567	0.0	46.3	-46.3	
5	765 kV	PHAGI-GWALIOR	2	0	1848	0.0	38.6	-38.6	
6	765 kV	JABALPUR-ORAI	2	746	1096	0.0	41.8	-41.8	
7	765 kV	GWALIOR-ORAI	1	627	0	14.0	0.0	14.0	
8	765 kV	SAINA-ORAI	1	0	1390	0.0	29.8	-29.8	
9	765 kV	CHITORGARH-BANASKANTHA	2	623	287	5.2	0.0	5.2	
10	400 kV	ZERDA-KANKROLI	1	185	14	2.6	0.0	2.6	
11	400 kV	ZERDA -BHINMAL	1	349	39	5.3	0.0	5.3	
12	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUALPUR	2	0	513	0.0	8.7	-8.7	
14	220 kV	BHANPURA-RANPUR	1	0	92	0.0	1.4	-1.4	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
16	220 kV	MEHGAON-AURAIYA	1	107	0	0.5	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	70	12	1.2	0.0	1.2	
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	53.4	256.5	-203.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	300	0	7.3	0.0	7.3	
2	HVDC	BAIGARH-PUGALUR	2	0	4321	0.0	22.4	-22.4	
3	765 kV	SOLAPUR-RAICHUR	2	2117	922	7.5	0.0	7.5	
4	765 kV	WARDHA-NIZAMABAD	2	145	1802	0.0	22.7	-22.7	
5	400 kV	KOLHAPUR-KUDGI	2	1356	0	19.4	0.0	19.4	
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	1.3	0.0	1.3	
						WR-SR	35.5	45.1	-9.6
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)	607	0	554	13.3			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	740	690	691	16.6			
	ER	230kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	278	0	224	5.4			
	NER	132kV GELEPHU-SALAKATI	28	16	22	0.5			
	NER	132kV MOTANGA-RANGIA	50	32	43	1.0			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-43	-1.0			
	ER	NEPAL IMPORT (FROM BIHAR)	-152	-63	-94	-2.3			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-227	-80	-184	-4.4			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	0	-913	-21.9			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-121	-2.9			