



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: 21st 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 20.06.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जून-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 20th 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: 21-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)	53467	42483	37722	18528	2747	154947
Peak Shortage (MW)	200	0	0	0	1	201
Energy Met (MU)	1205	995	920	413	53	3585
Hydro Gen (MU)	287	54	85	129	25	580
Wind Gen (MU)	31	167	188	-	-	385
Solar Gen (MU)*	50.13	28.40	111.09	5.09	0.19	195
Energy Shortage (MU)	3.81	0.00	0.00	0.00	0.00	3.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55957	41747	41694	19809	2908	158583
Time Of Maximum Demand Met (From NLDC SCADA)	00:03	06:47	10:15	20:24	19:20	22:22

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	0.035	0.05	0.53	2.12	2.70	70.86	26.44

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	11439	0	263.3	166.9	-1.6	180	0.00
	Haryana	8839	0	185.5	140.6	0.9	226	0.00
	Rajasthan	10323	0	223.9	73.9	0.4	459	0.00
	Delhi	4922	0	97.3	84.3	-1.1	171	0.00
	UP	18260	0	326.5	156.4	1.4	397	0.00
	Uttarakhand	1522	0	31.7	12.1	-0.1	277	0.36
	HP	1291	0	27.4	-4.2	1.8	217	0.00
	J&K(UT) & Ladakh(UT)	2165	250	44.2	19.7	-0.2	166	3.45
WR	Chandigarh	256	0	4.9	5.1	-0.2	22	0.00
	Chhattisgarh	3418	0	80.3	31.4	0.1	301	0.00
	Gujarat	11877	0	273.6	108.9	-3.4	778	0.00
	MP	8393	0	181.1	92.8	-1.5	465	0.00
	Maharashtra	18112	0	406.1	122.3	-1.2	693	0.00
	Goa	497	0	10.1	8.2	1.6	39	0.00
	DD	290	0	6.3	6.1	0.2	29	0.00
	DNH	763	0	17.8	17.7	0.1	52	0.00
SR	AMNSIL	872	0	19.7	2.5	0.1	276	0.00
	Andhra Pradesh	9021	0	187.7	62.3	0.7	554	0.00
	Telangana	8693	0	187.4	74.5	0.1	607	0.00
	Karnataka	8089	0	156.5	46.5	-2.5	1068	0.00
	Kerala	3077	0	62.0	33.1	-0.4	281	0.00
	Tamil Nadu	13913	0	318.2	120.2	1.2	829	0.00
	Puducherry	384	0	7.8	7.7	0.1	35	0.00
	Bihar	4948	0	88.5	84.7	-0.8	333	0.00
ER	DVC	2985	0	64.6	-31.8	0.7	296	0.00
	Jharkhand	1350	0	24.0	22.5	-3.0	177	0.00
	Odisha	5154	0	106.5	35.5	0.5	354	0.00
	West Bengal	6317	0	128.6	30.3	-1.0	312	0.00
	Sikkim	79	0	1.2	1.2	0.0	33	0.00
	NER	Assam	1774	0	32.8	25.3	0.8	149
Manipur		187	1	2.6	2.5	0.1	19	0.00
Meghalaya		307	0	5.8	2.0	0.0	31	0.00
Mizoram		94	0	1.6	1.6	0.0	20	0.00
Nagaland		136	0	2.5	2.6	-0.1	25	0.00
Tripura		245	0	4.7	3.3	0.0	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.2	-5.8	-24.0
Day Peak (MW)	2069.0	-432.1	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	314.5	-236.0	51.4	-129.3	-0.6	0.0
Actual(MU)	297.6	-229.7	64.0	-132.5	-1.4	-2.0
OD/UD(MU)	-17.0	6.4	12.6	-3.2	-0.8	-2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7517	19358	10282	680	988	38825	42
State Sector	13140	22366	11728	5747	11	52992	58
Total	20657	41723	22010	6427	1000	91817	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	453	908	368	449	7	2184	60
Lignite	24	9	40	0	0	73	2
Hydro	287	54	85	129	25	580	16
Nuclear	31	31	45	0	0	107	3
Gas, Naptha & Diesel	23	27	13	0	26	89	2
RES (Wind, Solar, Biomass & Others)	100	195	322	5	0	623	17
Total	918	1223	873	583	58	3655	100

Share of RES in total generation (%)	10.89	15.98	36.90	0.88	0.33	17.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.50	22.86	51.87	23.08	42.94	35.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.073

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: 21-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	853	0.0	19.9	-19.9
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	814	0.0	10.3	-10.3
4	765 kV	SASARAM-FATEHPUR	1	3	282	0.0	3.6	-3.6
5	765 kV	GAYA-BALIA	1	0	558	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	112	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	853	0.0	13.8	-13.8
9	400 kV	PATNA-BALIA	4	0	1180	0.0	14.7	-14.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	555	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	473	0.0	7.2	-7.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	357	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	1	18	94	0.0	1.0	-1.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	101.8	-101.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	720	334	5.0	0.0	5.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1212	0	18.9	0.0	18.9
3	765 kV	JHARSUGUDA-DURG	2	183	166	0.0	0.1	-0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	307	0	3.8	0.0	3.8
5	400 kV	RANCHI-SIPAT	2	353	0	5.5	0.0	5.5
6	220 kV	BUDHIPADAR-RAIGARH	1	10	90	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	145	0	2.2	0.0	2.2
						ER-WR	35.4	1.0
						WR-WR	1.0	34.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2715	0.0	45.7	-45.7
4	400 kV	TALCHER-I/C	2	157	658	0.0	5.3	-5.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	95.2
						SR-SR	0.0	-95.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	304	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	14	348	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.7	-1.7
						ER-NER	0.0	8.8
						NER-NR	0.0	-8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	0	502	0.0	12.3	-12.3
						NER-NR	0.0	12.3
						NR-NR	0.0	-12.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2013	0.0	43.5	-43.5
2	HVDC	VINDHYACHAL B/B	-	0	0	0.0	0.0	0.0
3	HVDC	MUNDA-MOHENDERGARH	2	0	1452	0.0	25.5	-25.5
4	765 kV	GWALIOR-AGRA	2	0	2567	0.0	46.5	-46.5
5	765 kV	PHAGI-GWALIOR	2	0	1911	0.0	32.1	-32.1
6	765 kV	JABALPUR-ORAI	2	968	1067	0.0	37.5	-37.5
7	765 kV	GWALIOR-ORAI	1	560	0	10.0	0.0	10.0
8	765 kV	SATNA-ORAI	1	0	1448	0.0	29.2	-29.2
9	765 kV	CHITORGARH-BANASKANTHA	2	403	676	0.0	2.6	-2.6
10	400 kV	ZERDA-KANKROLI	1	123	60	0.9	0.0	0.9
11	400 kV	ZERDA -BHINMAL	1	326	0	4.2	0.0	4.2
12	400 kV	VINDHYACHAL -RIHAND	1	951	0	21.4	0.0	21.4
13	400 kV	RAMP-SHILAPUR	2	0	500	0.0	7.6	-7.6
14	220 kV	BHANPURA-RANPUR	1	0	96	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	77	9	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	46	28	0.6	0.0	0.5
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	37.2	227.5
						NR-NR	0.0	-190.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	304	312	1.2	6.1	-5.0
2	HVDC	RAIGARH-PUGAUR	2	942	302	14.3	0.0	14.3
3	765 kV	SOLAPUR-RAICHUR	2	1521	1483	0.0	3.2	-3.2
4	765 kV	WARDHA-NIZAMABAD	2	125	2148	0.0	26.0	-26.0
5	400 kV	KOLHAPUR-KUDGI	2	1189	0	15.3	0.0	15.3
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	74	1.4	0.0	1.4
						WR-SR	32.2	35.3
						SR-SR	0.0	-3.1

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 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	626	0	599	14.4
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1033	1019	1033	24.9
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	311	293	311	8.0
	NER	132KV-GEYLEGPHU - SALAKATI	36	27	-32	-0.8
NEPAL	NER	132KV Motanga-Rangia	63	34	-46	-1.1
	ER	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-74	0	-35	-0.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-299	-80	-196	-4.7
BANGLADESH	ER	132KV-BIHAR - NEPAL	-59	0	-12	-0.3
	ER	BHERAMARA HVDC(BANGLADESH)	-903	0	-895	-21.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-59	0	-52	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-59	0	-52	-1.2