



**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: 21<sup>st</sup> June 2022

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 20.06.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जून-2022 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 20<sup>th</sup> June 2022, 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-2022

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)	59387	52916	42351	23096	2620	180370
Peak Shortage (MW)	8	0	0	78	23	109
Energy Met (MU)	1344	1267	953	503	46	4113
Hydro Gen (MU)	252	27	41	109	35	463
Wind Gen (MU)	44	188	140	-	-	372
Solar Gen (MU)*	93.13	45.64	100.55	5.20	0.55	245
Energy Shortage (MU)	2.24	0.00	0.00	0.82	0.17	3.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62523	55277	44367	23371	2650	183850
Time Of Maximum Demand Met (From NLDC SCADA)	22:41	11:48	11:52	19:51	19:25	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	0.049	0.00	0.56	6.50	7.06	70.26	22.68

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	12102	0	257.8	158.3	-1.6	70	0.00
	Haryana	9089	0	181.9	116.5	1.3	440	0.02
	Rajasthan	10119	0	224.2	36.3	-6.6	333	0.00
	Delhi	5010	0	105.0	94.2	-1.3	109	0.00
	UP	22630	0	442.0	205.9	1.0	489	0.00
	Uttarakhand	2124	0	43.4	25.4	0.8	180	1.07
	HP	1602	0	32.2	10.6	0.8	161	0.70
	J&K(UT) & Ladakh(UT)	2323	140	52.6	31.1	0.3	168	0.45
	Chandigarh	271	0	5.0	5.5	-0.5	11	0.00
	WR	Chhattisgarh	3724	0	86.4	40.5	-1.4	238
Gujarat		19372	0	410.5	186.3	-5.3	620	0.00
MP		8423	0	192.4	80.5	0.0	463	0.00
Maharashtra		23474	0	517.7	173.8	-2.7	796	0.00
Goa		591	0	12.1	12.2	-0.5	30	0.00
DNHDDPDCL		1203	0	27.7	27.6	0.1	30	0.00
AMNSIL		905	0	20.2	11.0	0.1	266	0.00
SR	Andhra Pradesh	8820	0	190.3	70.0	-1.0	685	0.00
	Telangana	8493	0	168.0	55.8	1.1	621	0.00
	Karnataka	9908	0	195.2	56.7	-3.7	878	0.00
	Kerala	3703	0	76.0	57.9	0.4	222	0.00
	Tamil Nadu	14914	0	314.4	154.9	-4.5	771	0.00
	Puducherry	426	0	9.6	9.2	-0.3	20	0.00
	ER	Bihar	5453	0	109.6	100.3	-1.5	405
DVC		3450	0	73.7	-39.1	-0.4	617	0.00
Jharkhand		1535	0	28.6	22.2	-2.0	157	0.29
Odisha		5746	0	126.7	68.7	-1.5	418	0.00
West Bengal		8214	0	162.8	41.3	0.9	571	0.00
NER	Sikkim	99	0	1.5	1.6	-0.2	24	0.00
	Arunachal Pradesh	139	0	2.3	2.2	0.1	37	0.00
	Assam	1659	0	28.3	19.2	0.5	98	0.00
	Manipur	173	0	2.6	2.4	0.2	22	0.00
	Meghalaya	295	23	5.2	-0.4	0.5	72	0.17
	Mizoram	101	0	1.6	1.7	-0.3	3	0.00
	Nagaland	147	0	2.4	2.1	-0.2	20	0.00
	Tripura	232	0	3.6	3.1	-0.5	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.9	5.2	-25.0
Day Peak (MW)	1897.0	280.3	-1052.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	251.6	-147.1	59.3	-145.2	-18.7	0.0
Actual(MU)	249.2	-142.8	45.7	-134.7	-20.3	-2.8
O/D/U/D(MU)	-2.4	4.3	-13.6	10.5	-1.6	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3023	15606	6758	2570	822	28778	47
State Sector	7215	13599	9040	2660	160	32673	53
Total	10238	29204	15798	5230	982	61451	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	684	1127	486	562	12	2871	68
Lignite	28	14	62	0	0	105	2
Hydro	253	27	41	109	35	465	11
Nuclear	20	33	63	0	0	115	3
Gas, Naptha & Diesel	17	4	9	0	23	52	1
RES (Wind, Solar, Biomass & Others)	151	234	285	5	1	676	15
Total	1154	1438	946	675	71	4284	100

Share of RES in total generation (%)	8.45	16.27	30.17	0.78	0.77	14.62
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.41	20.43	41.08	16.85	50.12	28.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.069

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting:		NET (MU)	
						Import (MU)	Export (MU)		
Date of Reporting: 21-Jun-2022									
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1754	0.0	43.5	-43.5	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.3	-1.3	
3	765 kV	GAYALYANASI	2	525	403	0.0	0.7	-0.7	
4	765 kV	SASARAM-FATEHPUR	1	0	375	0.0	5.6	-5.6	
5	765 kV	GAYA-BALIA	1	0	517	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	1	26	49	0.0	0.1	-0.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	85	0.0	1.0	-1.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	997	0.0	16.1	-16.1	
9	400 kV	PATNA-BALIA	2	0	566	0.0	9.7	-9.7	
10	400 kV	NAUBATPUR-BALIA	2	0	608	0.0	10.6	-10.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	475	0.0	6.3	-6.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	509	0.0	9.1	-9.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	144	246	0.0	2.2	-2.2	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	149	0.0	1.9	-1.9	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6	
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	116.6	-116.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	13.1	0.0	13.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	673	824	0.4	0.0	0.4	
3	765 kV	JHARSUGUDA-DURG	2	0	314	2.0	0.0	2.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	0.7	-0.7	
5	400 kV	RANCHI-SIPAT	2	262	253	1.2	0.0	1.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	69	46	0.4	0.0	0.4	
7	220 kV	BUDHIPADAR-KORBA	2	179	0	3.1	0.0	3.1	
						ER-WR	20.0	0.7	19.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	505	0.0	10.7	-10.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1826	0.0	39.3	-39.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2406	0.0	37.3	-37.3	
4	400 kV	TALCHER-I/C	2	411	85	5.3	0.0	5.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	87.4	-87.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	141	316	0.4	2.9	-2.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	582	77	6.5	0.0	6.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	64	70	0.1	0.0	0.1	
						ER-NER	7.0	2.9	4.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	730	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	1521	0.0	27.3	-27.3	
2	HVDC	VINDHYACHAL B/B	2	444	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	512	0.0	12.2	-12.2	
4	765 kV	GWALIOR-AGRA	2	0	1494	0.0	24.6	-24.6	
5	765 kV	GWALIOR-PHAGI	2	233	1275	0.2	15.7	-15.5	
6	765 kV	JABALPUR-ORAI	2	0	688	0.0	22.0	-22.0	
7	765 kV	GWALIOR-ORAI	1	454	0	6.7	0.0	6.7	
8	765 kV	SATNA-ORAI	1	0	954	0.0	20.5	-20.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	1193	380	6.1	0.0	6.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2920	0.0	54.5	-54.5	
11	400 kV	ZERDA-KANKROLI	1	330	0	4.2	0.0	4.2	
12	400 kV	ZERDA-JBHINMAL	1	482	0	8.4	0.0	8.4	
13	400 kV	VINDHYACHAL-RIHAND	1	959	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	273	300	1.2	2.0	-0.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
17	220 kV	MEHGAON-AURAIYA	1	96	0	0.4	0.0	0.4	
18	220 kV	MALANPUR-AURAIYA	1	64	15	1.0	0.0	1.0	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	62.3	180.7	-118.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	17.6	0.0	17.6	
2	HVDC	RAIGARH-PUGALUR	2	0	1403	0.0	25.1	-25.1	
3	765 kV	SOLAPUR-RAICHUR	2	1404	1135	10.0	4.2	5.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2199	0.0	30.4	-30.4	
5	400 kV	KOLHAPUR-KUDCI	2	1406	0	25.4	0.0	25.4	
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	98	1.8	0.0	1.8	
						WR-SR	54.7	59.7	-5.0
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)	600	0	583	14.0			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1096	0	819	19.7			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	182	0	165	4.0			
	NER	132KV GELEPHU-SALAKATI	16	0	10	0.2			
	NER	132KV MOTANGA-RANGIA	28	10	18	0.4			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.6			
	ER	NEPAL IMPORT (FROM BIHAR)	-41	0	-10	-0.2			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	399	219	291	7.0			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-944	-940	-942	-22.6			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-108	0	-98	-2.4			