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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th 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., 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 29.06.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जून-2022 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 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:** **30-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)	67099	54698	43581	24135	2825	192338
Peak Shortage (MW)	0	0	0	310	48	358
Energy Met (MU)	1672	1295	1033	510	53	4562
Hydro Gen (MU)	342	29	53	117	36	576
Wind Gen (MU)	76	155	179	-	-	410
Solar Gen (MU)*	102.42	40.05	103.00	5.14	0.32	251
Energy Shortage (MU)	1.90	0.00	0.00	3.42	0.60	5.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74698	55794	48414	24618	2859	200395
Time Of Maximum Demand Met (From NLDC SCADA)	00:04	14:53	11:53	23:18	19:17	14:54

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	0.024	0.00	0.00	1.49	1.49	77.07	21.43

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	14189	0	334.5	206.5	-1.0	142	0.00
	Haryana	12094	0	261.9	184.3	-0.4	253	0.00
	Rajasthan	14968	0	309.1	61.0	-3.9	233	0.00
	Delhi	7770	0	152.8	133.2	-1.0	201	0.00
	UP	23471	0	470.5	234.5	-1.3	658	0.00
	Uttarakhand	2240	0	47.9	30.4	-0.3	238	1.84
	HP	1574	0	33.9	1.8	-1.0	133	0.06
	J&K(UT) & Ladakh(UT)	2026	0	54.0	29.3	-0.1	218	0.00
	Chandigarh	345	0	7.4	7.7	-0.3	32	0.00
WR	Chhattisgarh	4641	0	106.9	56.3	-0.5	188	0.00
	Gujarat	18629	0	410.8	174.0	0.0	585	0.00
	MP	9676	0	217.4	98.9	0.0	489	0.00
	Maharashtra	22103	0	499.8	163.0	1.2	753	0.00
	Goa	584	0	11.7	11.9	-0.3	37	0.00
	DNHDDPDCL	1214	0	28.1	28.3	-0.2	111	0.00
	AMNSIL	913	0	20.2	10.4	0.6	267	0.00
SR	Andhra Pradesh	9425	0	194.8	45.1	1.9	1012	0.00
	Telangana	8837	0	175.9	82.7	0.8	814	0.00
	Karnataka	11407	0	213.2	67.4	-1.6	699	0.00
	Kerala	3492	0	70.8	53.2	0.5	214	0.00
	Tamil Nadu	16700	0	367.8	168.9	-1.8	622	0.00
	Puducherry	485	0	10.1	9.2	0.2	90	0.00
ER	Bihar	5313	303	90.3	81.2	-0.1	506	1.51
	DVC	3531	0	73.1	-29.9	1.1	465	0.00
	Jharkhand	1679	0	36.1	24.9	1.5	158	1.92
	Odisha	5833	0	121.9	62.0	-1.8	390	0.00
	West Bengal	9503	0	187.0	66.1	-0.6	319	0.00
	Sikkim	91	0	1.5	0.8	0.7	44	0.00
NER	Arunachal Pradesh	125	0	2.3	2.4	-0.5	14	0.00
	Assam	1817	0	33.0	25.8	-0.3	69	0.00
	Manipur	195	0	2.7	2.6	0.1	22	0.00
	Meghalaya	277	48	5.6	1.0	0.1	72	0.60
	Mizoram	100	0	1.9	1.4	0.0	19	0.00
	Nagaland	140	0	2.8	2.4	0.0	15	0.00
	Tripura	265	0	4.3	4.6	-0.7	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.1	8.0	-24.3
Day Peak (MW)	1945.0	303.6	-1073.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	390.7	-246.2	8.0	-140.5	-12.1	0.0
Actual(MU)	364.7	-234.3	19.0	-138.9	-15.3	-4.8
O/D/U/D(MU)	-26.1	11.9	11.1	1.6	-3.2	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2852	11436	5498	2305	822	22913	43
State Sector	5580	14196	8200	2542	160	30677	57
Total	8432	25631	13698	4847	982	53590	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1269	529	562	16	3130	66
Lignite	30	14	101	0	0	144	3
Hydro	344	29	53	117	36	578	12
Nuclear	28	33	67	0	0	128	3
Gas, Naptha & Diesel	31	7	10	0	23	71	1
RES (Wind, Solar, Biomass & Others)	193	195	330	5	0	723	15
Total	1381	1546	1089	684	75	4775	100

Share of RES in total generation (%)	13.97	12.62	30.27	0.75	0.43	15.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.96	16.63	41.27	17.83	47.89	29.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.076

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-Jun-2022

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	1500	0.0	27.8	-27.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	169	358	0.0	2.2	-2.2
4	765 kV	SASARAM-FATEHPUR	1	0	522	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	639	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	35	15	0.2	0.0	0.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	94	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	897	0.0	18.0	-18.0
9	400 kV	PATNA-BALIA	2	0	679	0.0	12.1	-12.1
10	400 kV	NAUBATPUR-BALIA	2	0	730	0.0	12.9	-12.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	641	0.0	10.2	-10.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	532	0.0	9.8	-9.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	244	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	174	0.0	3.3	-3.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	51	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	120.3	-119.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	15.7	0.0	15.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1244	262	17.0	0.0	17.0
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	213	145	1.9	0.0	1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	135	25	1.5	0.0	1.5
					ER-WR	36.1	8.3	27.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	587	0	10.2	0.0	10.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	41.4	-41.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3053	0.0	49.0	-49.0
4	400 kV	TALCHER-I/C	2	710	200	3.8	0.0	3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	10.2	90.4	-80.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	491	0.0	6.3	-6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	96	461	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	136	0.0	1.7	-1.7
					ER-NER	0.0	12.0	-12.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1509	0.0	28.5	-28.5
					NER-NR	0.0	28.5	-28.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5038	0.0	81.0	-81.0
2	HVDC	VINDHYACHAL B/B	-	444	0	9.2	0.0	9.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2524	0.0	27.0	-27.0
4	765 kV	GWALIOR-AGRA	2	0	1757	0.0	31.4	-31.4
5	765 kV	GWALIOR-PHAGI	2	0	1448	0.0	22.5	-22.5
6	765 kV	JABALPUR-ORAI	2	0	927	0.0	31.2	-31.2
7	765 kV	GWALIOR-ORAI	1	514	0	8.0	0.0	8.0
8	765 kV	SATNA-ORAI	1	0	1086	0.0	24.0	-24.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1157	363	5.4	0.0	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3354	0.0	58.9	-58.9
11	400 kV	ZERDA-KANKROLI	1	296	8	3.5	0.0	3.5
12	400 kV	ZERDA -BHINMAL	1	622	0	9.8	0.0	9.8
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	0	0	0.0	0.0	0.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	100	0	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	64	15	1.0	0.0	1.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	58.8	278.3	-219.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	11.7	0.0	11.7
2	HVDC	RAIGARH-PUGALUR	2	2398	0	21.3	0.0	21.3
3	765 kV	SOLAPUR-RAICHUR	2	828	1998	0.0	6.2	-6.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3052	0.0	39.7	-39.7
5	400 kV	KOLHAPUR-KUDGI	2	1453	0	24.5	0.0	24.5
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	111	2.0	0.0	2.0
					WR-SR	59.5	45.9	13.6

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)	601	0	570	13.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1102	0	1032	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	193	0	73	1.8
	NER	132kV GELEPHU-SALAKATI	-21	-9	-15	-0.4
	NER	132kV MOTANGA-RANGIA	-46	-12	-32	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-27	-0.6
	ER	NEPAL IMPORT (FROM BIHAR)	-29	0	-6	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	400	232	365	8.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-924	-781	-872	-20.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-149	0	-139	-3.3