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: 01st October 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 30.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-सितंबर-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 30th Sep 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:** **01-Oct-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)	61973	55951	42509	26837	3308	190578
Peak Shortage (MW)	480	35	0	172	0	687
Energy Met (MU)	1312	1300	985	556	65	4218
Hydro Gen (MU)	286	98	139	132	29	684
Wind Gen (MU)	20	48	152	-	-	220
Solar Gen (MU)*	118.40	54.01	63.71	4.99	0.89	242
Energy Shortage (MU)	2.12	0.13	0.00	0.59	0.00	2.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62495	57808	46486	26900	3372	190685
Time Of Maximum Demand Met (From NLDC SCADA)	19:30	18:55	09:49	19:03	18:15	19:11

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	0.014	0.00	0.00	0.02	0.02	84.94	15.03

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	8939	0	191.4	121.7	-1.3	135	0.00
	Haryana	8058	0	167.6	112.3	-0.3	242	0.00
	Rajasthan	13002	0	280.7	95.2	1.0	434	0.00
	Delhi	5062	0	106.2	98.6	-1.0	157	0.00
	UP	22523	0	431.2	176.0	-0.5	344	0.00
	Uttarakhand	2047	40	42.8	16.5	0.5	158	0.23
	HP	1658	15	32.5	2.4	0.1	243	0.17
	J&K(UT) & Ladakh(UT)	2964	170	54.4	35.2	5.3	442	1.72
	Chandigarh	261	0	5.1	5.0	0.1	34	0.00
WR	Chhattisgarh	4453	0	102.4	47.1	-0.6	173	0.00
	Gujarat	20341	0	424.0	260.4	-1.4	529	0.00
	MP	10818	0	237.6	116.8	-2.1	814	0.00
	Maharashtra	21389	0	481.3	180.3	-1.8	685	0.00
	Goa	605	35	12.9	12.8	-0.2	59	0.13
	DNHDDPDCL	1204	0	28.0	27.6	0.4	50	0.00
	AMNSIL	609	0	13.5	7.1	0.2	285	0.00
SR	Andhra Pradesh	8440	0	187.2	49.1	-0.1	392	0.00
	Telangana	10153	0	188.4	35.5	-0.5	508	0.00
	Karnataka	10449	0	190.1	74.1	-0.9	415	0.00
	Kerala	3830	0	79.1	49.8	0.4	189	0.00
	Tamil Nadu	15295	0	330.9	130.5	-2.5	522	0.00
	Puducherry	394	0	8.9	8.7	-0.5	48	0.00
ER	Bihar	6563	110	128.5	123.1	-0.3	262	0.18
	DVC	3385	0	73.0	-23.9	0.4	310	0.00
	Jharkhand	1674	0	33.0	24.3	-0.9	185	0.41
	Odisha	6230	0	125.4	46.4	0.1	458	0.00
	West Bengal	9497	0	195.0	45.1	-1.3	254	0.00
	Sikkim	93	0	1.6	1.7	-0.1	14	0.00
NER	Arunachal Pradesh	100	0	1.9	2.0	-0.3	6	0.00
	Assam	2266	0	44.6	37.4	0.3	126	0.00
	Manipur	206	0	2.8	2.7	0.1	51	0.00
	Meghalaya	345	0	6.0	2.1	0.1	57	0.00
	Mizoram	86	0	1.6	0.5	-0.1	11	0.00
	Nagaland	151	0	2.7	2.3	-0.2	6	0.00
	Tripura	322	0	5.7	5.2	0.1	76	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.0	9.4	-25.5
Day Peak (MW)	1625.0	366.0	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	206.1	-55.0	-13.6	-137.4	-0.2	0.0
Actual(MU)	199.8	-54.8	-16.8	-136.8	0.9	-7.7
O/D/U/D(MU)	-6.3	0.2	-3.2	0.6	1.1	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4153	16391	5798	600	309	27250	45
State Sector	8845	14946	7047	2760	141	33738	55
Total	12998	31337	12845	3360	449	60988	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	692	1132	512	584	13	2932	67
Lignite	25	9	60	0	0	93	2
Hydro	288	98	139	132	29	686	16
Nuclear	25	40	63	0	0	128	3
Gas, Naptha & Diesel	14	3	9	0	29	54	1
RES (Wind, Solar, Biomass & Others)	144	104	250	5	1	503	11
Total	1187	1386	1032	721	71	4397	100

Share of RES in total generation (%)	12.13	7.48	24.22	0.70	1.25	11.45
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.49	17.43	43.77	19.02	41.67	29.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.067

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: 01-Oct-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	701	0.0	16.3	-16.3
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.2	-8.2
3	765 kV	GAYA-VARANASI	2	253	589	0.0	4.1	-4.1
4	765 kV	SASARAM-FATEHPUR	1	101	329	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	572	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	0	250	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	182	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	796	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	505	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	583	0.0	10.0	-10.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	381	0.0	6.1	-6.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	487	0.0	8.7	-8.7
13	400 kV	BIHARSHARIFF-VARANASI	2	129	238	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNASA	1	12	126	0.0	1.8	-1.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	53	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	100.6	-100.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	647	212	4.9	0.0	4.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	701	264	13.8	0.0	13.8
3	765 kV	JHARSUGUDA-DURG	2	9	330	0.0	4.2	-4.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	428	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	223	216	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	122	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	112	14	1.3	0.0	1.3
					ER-WR	21.4	10.0	11.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	317	0.0	7.2	-7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2610	0.0	39.2	-39.2
4	400 kV	TALCHER-I/C	2	241	3	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	86.0	-86.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	321	0.0	5.0	-5.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	123	403	0.0	5.2	-5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	60	0.0	1.0	-1.0
					ER-NER	0.0	11.2	-11.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2029	0.0	37.9	-37.9
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	261	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1437	0.1	20.3	-20.2
5	765 kV	GWALIOR-PHAGI	2	0	1978	0.0	28.4	-28.4
6	765 kV	JABALPUR-ORAI	2	0	942	0.0	28.6	-28.6
7	765 kV	GWALIOR-ORAI	1	708	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	967	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1904	0	30.4	0.0	30.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2681	0.0	45.3	-45.3
11	400 kV	ZERDA-KANKROLI	1	394	0	7.2	0.0	7.2
12	400 kV	ZERDA -BHINMAL	1	654	5	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	360	538	1.4	5.1	-3.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	104	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	71	8	1.4	0.0	1.4
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	93.1	193.3	-100.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	0	12.9	0.0	12.9
2	HVDC	RAIGARH-PUGALUR	2	1919	0	26.4	0.0	26.4
3	765 kV	SOLAPUR-RAICHUR	2	1547	1044	13.6	1.9	11.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2523	0.0	23.9	-23.9
5	400 kV	KOLHAPUR-KUDGI	2	1655	0	28.7	0.0	28.7
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	1	107	1.5	0.0	1.5
					WR-SR	83.0	25.8	57.2

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)	531	450	453	10.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	816	0	728	17.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	257	184	186	4.5
	NER	132kV GELEPHU-SALAKATI	33	15	24	0.6
	NER	132kV MOTANGA-RANGIA	62	32	52	1.3
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-17	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	431	254	410	9.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-924	-927	-22.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-135	-3.2