



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: 24thSeptember 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 23.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-सितंबर-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 23rdSep 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: 24-Sep-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)	53037	48818	44675	26033	3137	175700
Peak Shortage (MW)	0	0	0	195	0	195
Energy Met (MU)	1178	1186	1078	567	61	4070
Hydro Gen (MU)	345	107	179	140	32	803
Wind Gen (MU)	22	159	156	-	-	336
Solar Gen (MU)*	107.15	39.15	115.23	4.74	0.65	267
Energy Shortage (MU)	1.27	0.00	0.00	2.45	0.00	3.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55594	54063	51157	26142	3278	182658
Time Of Maximum Demand Met (From NLDC SCADA)	19:11	18:58	11:55	21:38	18:55	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	0.032	0.05	0.98	2.53	3.56	78.81	17.63

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	9165	0	209.2	147.6	-0.9	130	0.00
	Haryana	6314	0	131.5	91.9	-2.0	215	0.00
	Rajasthan	11641	0	259.1	87.4	-1.4	362	0.00
	Delhi	4573	0	92.3	83.7	-2.6	41	0.06
	UP	18500	0	359.4	161.8	0.0	655	0.00
	Uttarakhand	1968	0	41.2	16.8	-1.0	89	0.00
	HP	1536	0	29.6	-4.5	-0.6	40	0.73
	J&K(UT) & Ladakh(UT)	2580	0	50.0	27.9	1.7	322	0.48
	Chandigarh	253	0	5.2	5.7	-0.5	50	0.00
	WR	Chhattisgarh	4344	0	98.3	45.9	0.2	476
Gujarat		18770	0	396.9	227.4	-5.3	491	0.00
MP		9171	0	192.6	55.4	-0.1	358	0.00
Maharashtra		20777	0	444.6	162.8	-7.2	744	0.00
Goa		608	0	12.5	12.3	-0.3	67	0.00
DNHDDPDCL		362	0	28.0	27.9	0.1	47	0.00
AMNSIL		612	0	13.4	7.3	0.0	220	0.00
SR		Andhra Pradesh	10384	0	212.3	54.5	-0.6	889
	Telangana	11761	0	214.7	68.7	0.4	893	0.00
	Karnataka	11714	0	212.7	62.0	1.0	647	0.00
	Kerala	3694	0	75.7	40.2	0.6	220	0.00
	Tamil Nadu	16174	0	352.3	144.5	-0.6	509	0.00
	Puducherry	434	0	9.8	9.5	-0.3	39	0.00
	ER	Bihar	6484	329	129.9	119.7	-1.0	338
DVC		3379	0	75.1	-13.4	1.4	293	0.00
Jharkhand		1788	0	33.6	24.6	0.6	309	1.74
Odisha		6139	0	137.3	57.8	-2.0	437	0.00
West Bengal		9137	0	189.1	52.1	0.0	347	0.00
Sikkim		105	0	1.8	1.7	0.1	25	0.00
NER	Arunachal Pradesh	121	0	2.3	2.6	-0.6	4	0.00
	Assam	2177	0	40.4	34.6	-1.1	157	0.00
	Manipur	199	0	2.8	2.8	-0.1	20	0.00
	Meghalaya	337	0	6.1	2.0	0.0	43	0.00
	Mizoram	83	0	1.6	0.9	-0.2	5	0.00
	Nagaland	150	0	2.8	2.4	-0.1	39	0.00
	Tripura	284	0	5.3	5.4	-0.4	49	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.2	7.6	-25.1
Day Peak (MW)	2057.0	420.0	-1079.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.4	-127.6	46.1	-74.3	-4.6	0.0
Actual(MU)	137.4	-142.8	72.6	-62.3	-3.8	1.2
O/D/U/D(MU)	-23.0	-15.2	26.5	12.0	0.8	1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4272	17126	7778	1060	309	30544	44
State Sector	10365	16616	7812	3460	183	38435	56
Total	14637	33742	15590	4520	491	68979	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	579	988	469	518	11	2565	60
Lignite	22	9	40	0	0	71	2
Hydro	349	107	179	140	32	806	19
Nuclear	30	40	51	0	0	120	3
Gas, Naptha & Diesel	15	2	8	0	29	53	1
RES (Wind, Solar, Biomass & Others)	135	200	320	5	1	660	15
Total	1129	1345	1066	663	72	4276	100

Share of RES in total generation (%)	11.88	14.85	30.05	0.71	0.90	15.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.39	25.77	51.55	21.89	44.70	37.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.071

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: 24-Sep-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	17.0	-17.0	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.2	-8.2	
3	765 kV	GAYA-VARANASI	2	668	126	8.6	0.0	8.6	
4	765 kV	SASARAM-FATEHPUR	1	226	121	2.1	0.0	2.1	
5	765 kV	GAYA-BALIA	1	0	428	0.0	5.2	-5.2	
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.4	-5.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	165	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	670	0.0	9.0	-9.0	
9	400 kV	PATNA-BALIA	2	0	393	0.0	5.6	-5.6	
10	400 kV	NAUBATPUR-BALIA	2	0	410	0.0	5.6	-5.6	
11	400 kV	BIHARSHARIF-BALIA	2	0	246	0.0	2.9	-2.9	
12	400 kV	MOTHARI-GORAKHPUR	2	0	74	0.0	5.3	-5.3	
13	400 kV	BIHARSHARIF-VARANASI	2	238	58	2.6	0.0	2.6	
14	220 kV	SAHUPURI-KARAMNANA	1	10	182	0.0	1.7	-1.7	
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	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	13.9	68.8	-54.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1355	67	17.0	0.0	17.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1008	795	10.4	0.0	10.4	
3	765 kV	JHARSUGUDA-DURG	2	0	351	0.0	3.6	-3.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	255	258	0.8	0.0	0.8	
5	400 kV	RANCHI-SIPAT	2	271	174	2.7	0.0	2.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	32	63	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	201	0	3.4	0.0	3.4	
						ER-WR	34.2	4.0	30.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	294	703	0.0	5.4	-5.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	16	1987	0.0	25.6	-25.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2936	0.0	39.2	-39.2	
4	400 kV	TALCHER-I/C	2	1866	250	13.0	0.0	13.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	70.1	-70.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	367	0.0	4.9	-4.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	479	0.0	6.8	-6.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	77	0.0	1.2	-1.2	
						ER-NER	0.0	12.8	-12.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.7	-16.7	
						NER-NR	0.0	16.7	-16.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	36.0	-36.0	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	330	923	0.4	10.2	-9.8	
5	765 kV	GWALIOR-PHAGI	2	721	1452	3.0	17.1	-14.2	
6	765 kV	JABALPUR-ORAI	2	120	564	0.0	9.0	-9.0	
7	765 kV	GWALIOR-ORAI	1	699	0	10.6	0.0	10.6	
8	765 kV	SATNA-ORAI	1	0	716	0.0	13.9	-13.9	
9	765 kV	BANASKANTHA-CHITTOGARH	2	1340	0	20.5	0.0	20.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2961	0.0	50.5	-50.5	
11	400 kV	ZERDA-KANKROLI	1	303	0	4.8	0.0	4.8	
12	400 kV	ZERDA-BHINMAL	1	455	0	0.5	0.0	0.5	
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	20.9	0.0	20.9	
14	400 kV	RAPP-SHUJALPUR	2	425	405	2.4	3.7	-1.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	123	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	92	3	1.3	0.0	1.3	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	77.2	148.8	-71.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	980	1009	6.2	8.7	-2.5	
2	HVDC	RAIGARH-PUGALUR	2	0	3006	0.0	37.9	-37.9	
3	765 kV	SOLAPUR-RAICHUR	2	1189	1764	7.1	4.5	2.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2989	0.0	30.6	-30.6	
5	400 kV	KOLHAPUR-KUDGI	2	1540	0	25.4	0.0	25.4	
6	220 kV	KOLHAPUR-CHIKODI	1	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	100	1.9	0.0	1.9	
						WR-SR	40.5	81.7	-41.1

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	619	548	556	13.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (5*700MW)	1133	0	958	23.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	282	205	220	5.3
	NER	132kV GELEPHU-SALAKATI	31	23	25	0.6
	NER	132kV MOTANGA-RANGIA	57	-12	33	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	420	158	318	7.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-916	-917	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-131	-3.1