



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: 14th September 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 13.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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: 14-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)	67945	49438	42541	23271	3019	186214
Peak Shortage (MW)	150	0	0	139	0	289
Energy Met (MU)	1547	1154	931	500	56	4188
Hydro Gen (MU)	364	110	180	150	30	833
Wind Gen (MU)	16	70	180	-	-	266
Solar Gen (MU)*	106.16	34.89	91.22	4.13	0.57	237
Energy Shortage (MU)	0.57	0.00	0.00	0.78	0.03	1.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69824	51996	43086	23848	3171	190571
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	18:55	19:01	18:50	18:20	19:18

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	0.00	0.00	3.56	3.56	75.92	20.52

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	13458	0	293.8	175.6	-0.4	143	0.00
	Haryana	10724	0	230.9	168.5	-0.7	276	0.00
	Rajasthan	14115	0	305.9	106.5	-1.8	203	0.00
	Delli	6282	0	127.5	117.1	-1.9	163	0.00
	UP	22889	0	452.5	212.5	-2.9	518	0.00
	Uttarakhand	2232	0	46.0	23.1	-0.7	143	0.18
	HP	1667	0	35.1	1.1	0.8	112	0.14
	J&K(UT) & Ladakh(UT)	2607	150	48.5	23.1	0.6	297	0.25
	Chandigarh	322	0	6.6	6.7	-0.1	28	0.00
	WR	Chhattisgarh	4335	0	98.6	56.1	0.0	281
Gujarat		15044	0	335.3	204.7	-0.8	479	0.00
MP		9874	0	213.6	111.4	-4.2	623	0.00
Maharashtra		20974	0	452.2	152.9	-5.2	563	0.00
Goa		597	0	12.0	11.9	-0.4	75	0.00
DNHDDPDCL		1221	0	28.5	28.4	0.1	59	0.00
AMNSIL		619	0	13.4	7.5	-0.1	243	0.00
SR	Andhra Pradesh	8251	0	190.0	38.9	1.0	940	0.00
	Telangana	8767	0	168.4	25.9	1.5	850	0.00
	Karnataka	8180	0	161.0	26.3	-1.0	687	0.00
	Kerala	3604	0	73.7	31.8	-1.0	312	0.00
	Tamil Nadu	15727	0	329.2	133.7	-1.8	438	0.00
	Puducherry	420	0	8.9	8.8	-0.6	63	0.00
ER	Bihar	5376	0	109.0	97.8	1.4	174	0.39
	DVC	3358	0	72.8	-19.0	1.4	296	0.00
	Jharkhand	1507	139	29.1	19.3	-1.5	151	0.38
	Odisha	6235	0	131.9	48.0	-0.9	434	0.00
	West Bengal	7801	0	155.5	30.9	0.8	315	0.00
	Sikkim	102	0	1.7	1.7	0.0	21	0.00
NER	Arunachal Pradesh	134	0	2.4	2.4	0.1	44	0.00
	Assam	2075	0	37.4	31.2	0.1	118	0.00
	Manipur	197	0	2.6	2.5	0.1	59	0.03
	Meghalaya	311	0	5.6	1.4	0.0	51	0.00
	Mizoram	105	0	1.5	0.8	-0.1	4	0.00
	Nagaland	150	0	2.4	2.1	0.0	23	0.00
	Tripura	253	0	4.6	3.9	-0.3	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.7	9.8	-24.7
Day Peak (MW)	2037.0	373.0	-1048.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	343.2	-109.0	-68.1	-155.6	-10.4	0.0
Actual(MU)	331.3	-100.0	-72.8	-156.6	-10.2	-8.3
O/D/U/D(MU)	-11.8	9.0	-4.7	-0.9	0.2	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4292	14171	6368	1370	309	26509	41
State Sector	6220	17856	9992	3600	178	37845	59
Total	10512	32027	16360	4970	486	64354	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	743	1022	437	538	14	2754	63
Lignite	28	8	54	0	0	91	2
Hvdro	364	110	180	150	30	824	19
Nuclear	21	40	42	0	0	103	2
Gas, Naptha & Diesel	18	3	9	0	29	58	1
RES (Wind, Solar, Biomass & Others)	139	106	314	4	1	564	13
Total	1313	1282	1036	692	73	4394	100
Share of RES in total generation (%)	10.68	8.24	30.27	0.60	0.78	12.83	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.49	19.90	51.71	22.26	41.41	33.94	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.007
Based on State Max Demands	1.047

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: 14-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	1001	0.0	22.7	-22.7	
2	HVDC	PUSAULI B/B	2	0	346	0.0	8.2	-8.2	
3	765 kV	GAYA-VARANASI	2	0	715	0.0	9.2	-9.2	
4	765 kV	SASARAM-FATEHPUR	1	0	505	0.0	8.4	-8.4	
5	765 kV	GAYA-BALIA	1	0	696	0.0	11.5	-11.5	
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	217	0.0	4.3	-4.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1183	0.0	22.3	-22.3	
9	400 kV	PATNA-BALIA	2	0	673	0.0	11.4	-11.4	
10	400 kV	NAUBATPUR-BALIA	2	0	726	0.0	12.0	-12.0	
11	400 kV	BIHARSHARIFF-BALIA	2	0	680	0.0	9.2	-9.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	577	0.0	10.0	-10.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	306	0.0	4.4	-4.4	
14	220 kV	SAHUPUR-KARMANASA	1	14	120	0.0	1.6	-1.6	
15	132 kV	NAGARUNTARI-RIHAND	1	25	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	15	0	0.2	0.0	0.2	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.2	139.2	-139.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	577	1156	0.6	0.0	0.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	862	377	11.6	0.0	11.6	
3	765 kV	JHARSUGUDA-DURG	2	0	422	0.0	5.0	-5.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	573	0.0	7.7	-7.7	
5	400 kV	RANCHI-SIPAT	2	129	169	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	92	55	0.6	0.0	0.6	
						ER-WR	13.8	14.5	-0.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	697	441	13.4	0.0	13.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	30.2	-30.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2613	0.0	41.9	-41.9	
4	400 kV	TALCHER-J/C	2	1036	232	10.3	0.0	10.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	13.4	72.1	-58.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	47	253	0.0	3.0	-3.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	191	218	0.0	1.3	-1.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	4	91	0.0	1.2	-1.2	
						ER-NER	0.0	5.4	-5.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.8	-16.8	
						NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4028	0.0	56.4	-56.4	
2	HVDC	VINDHYACHAL-B/B	2	362	0	9.7	0.0	9.7	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1016	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	0	1462	0.0	24.6	-24.6	
5	765 kV	GWALIOR-PHAGI	2	0	2199	0.0	33.0	-33.0	
6	765 kV	JABALPUR-ORAI	2	0	1117	0.0	37.4	-37.4	
7	765 kV	GWALIOR-ORAI	1	611	0	9.5	0.0	9.5	
8	765 kV	SATNA-ORAI	1	0	1188	0.0	23.2	-23.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1280	0	19.5	0.0	19.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2743	0.0	48.1	-48.1	
11	400 kV	ZERDA-KANKROLI	1	222	15	2.8	0.0	2.8	
12	400 kV	ZERDA-BHINMAL	1	450	84	4.9	0.0	4.9	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.3	0.0	21.3	
14	400 kV	RAPP-SHULALPUR	2	10	821	0.0	10.0	-10.0	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3	
17	220 kV	MEHGAON-AURAIYA	1	75	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	76	1	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	69.8	258.2	-188.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	21.7	0.0	21.7	
2	HVDC	RAIGARH-PUGALUR	2	2876	0	53.5	0.0	53.5	
3	765 kV	SOJAPUR-RAICHUR	2	1972	1366	10.3	6.1	4.2	
4	765 kV	WARDHA-NIZAMABAD	2	679	2201	0.8	20.9	-20.1	
5	400 kV	KOLHAPUR-KUDCI	2	1563	0	26.5	0.0	26.5	
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	XELDDEM-AMBEWADI	1	0	97	1.8	0.0	1.8	
						WR-SR	114.6	27.0	87.6
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)	720	692	701	16.8			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1077	0	1029	24.7			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	218	0	188	4.5			
	NER	132kV GELEPHU-SALAKATI	18	9	28	0.7			
	NER	132kV MOTANGA-RANGIA	46	18	33	0.8			
NEPAL	NR	132kV MAHENDRANAGAR-TANAPUR(NHPC)	-46	0	-13	-0.3			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	419	225	419	10.1			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-926	-914	-923	-22.2			
BANGLADESH	NER	132kV COMILLA-SURAJMANNAGAR 1&2	-122	0	-108	-2.6			