



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: 19th 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 18.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	61066	47895	39392	24213	3247	175813
Peak Shortage (MW)	598	0	0	286	0	884
Energy Met (MU)	1344	1114	990	517	62	4026
Hydro Gen (MU)	342	115	178	148	31	815
Wind Gen (MU)	11	49	128	-	-	188
Solar Gen (MU)*	119.01	50.02	108.18	4.53	0.76	283
Energy Shortage (MU)	2.78	0.00	0.00	1.77	0.00	4.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62386	50405	47035	24624	3315	177663
Time Of Maximum Demand Met (From NLDC SCADA)	22:47	19:20	11:54	20:26	18:24	19:39

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	0.031	0.17	1.06	4.68	5.91	86.62	7.46

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	11779	0	264.1	159.0	-0.4	152	0.00
	Haryana	9026	150	190.1	125.4	0.6	215	1.93
	Rajasthan	13576	0	288.7	106.9	1.9	385	0.00
	Delhi	5094	0	99.3	89.3	-2.3	48	0.00
	UP	20606	0	378.5	141.2	2.1	832	0.00
	Uttarakhand	1746	0	36.1	9.9	0.2	98	0.15
	HP	1567	0	32.7	-0.1	0.6	93	0.00
	J&K(UT) & Ladakh(UT)	2517	200	49.6	27.5	0.8	280	0.70
	Chandigarh	265	0	5.1	5.0	0.1	29	0.00
	Chhattisgarh	4553	0	106.7	53.9	0.3	309	0.00
WR	Gujarat	14730	0	327.5	224.9	-4.7	383	0.00
	MP	9911	0	206.6	88.0	-3.3	263	0.00
	Maharashtra	19695	0	421.9	150.2	-4.8	565	0.00
	Goa	557	0	11.3	10.8	-0.1	62	0.00
	DNHDDPDCL	1128	0	26.3	26.2	0.1	41	0.00
AMNSIL	612	0	13.7	7.9	-0.3	206	0.00	
SR	Andhra Pradesh	10391	0	208.5	57.7	0.2	696	0.00
	Telangana	11841	0	214.8	65.2	-0.6	800	0.00
	Karnataka	9162	0	172.0	44.6	-1.2	816	0.00
	Kerala	3432	0	71.1	31.5	-0.7	189	0.00
	Tamil Nadu	13780	0	314.8	136.4	-2.0	539	0.00
	Puducherry	372	0	8.6	8.0	-0.1	40	0.00
ER	Bihar	6216	0	114.7	104.1	-0.1	289	0.54
	DVC	3382	0	71.4	-15.9	1.6	311	0.00
	Jharkhand	1540	170	31.5	21.0	-0.5	168	1.23
	Odisha	6350	0	137.5	58.8	-0.6	479	0.00
	West Bengal	8464	0	160.6	31.2	1.8	539	0.00
Sikkim	92	0	1.0	1.2	-0.2	24	0.00	
NER	Arunachal Pradesh	145	0	2.4	2.3	-0.2	21	0.00
	Assam	2225	0	41.7	33.2	1.2	130	0.00
	Manipur	181	0	2.6	2.6	0.0	18	0.00
	Meghalaya	322	0	6.0	1.8	-0.1	48	0.00
	Mizoram	92	0	1.6	0.9	0.1	18	0.00
	Nagaland	153	0	2.9	2.5	0.0	11	0.00
	Tripura	302	0	5.0	5.6	0.0	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.5	7.9	-25.2
Day Peak (MW)	2034.0	-458.0	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	201.0	-111.7	33.6	-115.8	-7.2	0.0
Actual(MU)	193.8	-105.1	34.1	-119.0	-4.5	-0.6
O/D/U/D(MU)	-7.2	6.6	0.5	-3.1	2.7	-0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5485	16516	8828	2420	309	33557	45
State Sector	5950	21141	9662	4130	197	41080	55
Total	11435	37657	18490	6550	506	74637	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	689	987	424	516	13	2628	62
Lignite	28	8	59	0	0	94	2
Hydro	342	115	179	148	31	815	19
Nuclear	19	33	42	0	0	94	2
Gas, Naptha & Diesel	16	2	3	0	29	55	1
RES (Wind, Solar, Biomass & Others)	148	100	286	5	1	539	13
Total	1242	1244	998	668	73	4225	100

Share of RES in total generation (%)	12.01	8.03	28.65	0.68	1.04	12.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.52	19.91	50.79	22.87	42.88	34.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.102

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: 19-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	1000	0.0	19.6	-19.6	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.5	-8.5	
3	765 kV	GAYALYARANASI	2	532	393	1.3	0.0	1.3	
4	765 kV	SASARAM-FATEHPUR	1	80	273	0.0	2.1	-2.1	
5	765 kV	GAYA-BALIA	1	0	471	0.0	6.9	-6.9	
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	5.1	-5.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	190	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	528	0.0	13.3	-13.3	
9	400 kV	PATNA-BALIA	2	0	592	0.0	10.1	-10.1	
10	400 kV	NAUBATPUR-BALIA	2	0	631	0.0	10.6	-10.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	393	0.0	5.8	-5.8	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	401	0.0	6.5	-6.5	
13	400 kV	BIHARSHARIFF-VARANASI	2	211	149	1.0	0.0	1.0	
14	220 kV	SINPUR-BIKRAMNASHA	1	25	96	0.0	0.8	-0.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.4	0.4	
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	2.7	92.6	-89.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	729	586	0.0	0.0	0.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	926	21145	8.5	0.0	8.5	
3	765 kV	JHARSUGUDA-DURG	2	1	387	0.0	4.5	-4.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	437	0.0	6.5	-6.5	
5	400 kV	RANCHI-SIPAT	2	195	187	0.8	0.0	0.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	35	62	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	214	0	3.2	0.0	3.2	
						ER-WR	12.5	11.4	1.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	33.1	-33.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1472	0.0	21.6	-21.6	
4	400 kV	TALCHER-I/C	2	708	917	7.6	0.0	7.6	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	67.2	-67.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	294	0.0	4.6	-4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	88	417	0.0	5.2	-5.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	63	0.0	1.1	-1.1	
						ER-NER	0.0	10.9	-10.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	700	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	1519	0.0	36.3	-36.3	
2	HVDC	VINDHYACHAL B/B	-	227	0	5.4	0.0	5.4	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	24	1096	0.0	15.5	-15.5	
5	765 kV	GWALIOR-PHAGI	2	69	1832	0.0	26.9	-26.9	
6	765 kV	JABALPUR-ORAI	2	0	678	0.0	20.3	-20.3	
7	765 kV	GWALIOR-ORAI	1	872	0	15.6	0.0	15.6	
8	765 kV	SATNA-ORAI	1	0	785	0.0	16.1	-16.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1577	0	27.0	0.0	27.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2655	0.0	47.6	-47.6	
11	400 kV	ZERDA-KANKROLI	1	256	0	4.2	0.0	4.2	
12	400 kV	ZERDA-JBHINMAL	1	501	0	6.4	0.0	6.4	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHULIAPUR	2	174	623	0.0	6.8	-6.8	
15	220 kV	BHANUPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPURA-MORAK	1	0	30	0.0	1.2	-1.2	
17	220 kV	MEHGAON-AURAIYA	1	127	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.6	0.0	1.6	
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	83.0	178.1	-95.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	19.1	-19.1	
2	HVDC	RAIGARH-PUGALUR	2	0	2006	0.0	28.2	-28.2	
3	765 kV	SOLAPUR-RAICHUR	2	1824	226	23.0	0.0	23.0	
4	765 kV	WARDHA-NIZAMABAD	2	668	1877	3.2	13.5	-10.3	
5	400 kV	KOLHAPUR-KUDCI	2	1271	0	24.0	0.0	24.0	
6	220 kV	KOLHAPUR-CHIKODI	1	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	93	1.8	0.0	1.8	
						WR-SR	52.0	60.8	-8.9
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)	691	0	639	15.3			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1083	0	1057	25.4			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	217	0	194	4.7			
	NER	132kV GELEPHU-SALAKATI	22	10	17	0.4			
	NER	132kV MOTANGA-RANGIA	45	25	36	0.9			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.2			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-406	-253	335	8.1			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-914	-911	-911	-21.9			
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-156	0	-137	-3.3			