



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: 02nd 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 01.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	64407	53875	40363	25295	3160	187100
Peak Shortage (MW)	2479	184	0	1693	0	4356
Energy Met (MU)	1604	1225	934	566	60	4390
Hydro Gen (MU)	376	107	181	149	33	846
Wind Gen (MU)	22	28	27	-	-	77
Solar Gen (MU)*	119.86	35.01	140.53	5.19	0.49	301
Energy Shortage (MU)	17.60	0.87	0.00	16.61	0.00	35.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72143	54746	44463	26297	3196	196229
Time Of Maximum Demand Met (From NLDC SCADA)	12:53	19:01	11:56	23:23	18:39	11:42

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	0.034	0.35	0.86	5.69	6.90	82.13	10.97

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	13322	0	290.6	170.7	-1.2	66	0.00
	Haryana	11951	0	251.0	172.6	0.9	195	3.24
	Rajasthan	14004	0	286.2	120.3	1.2	330	8.01
	Delhi	6479	0	132.8	121.8	-1.9	115	0.00
	UP	24678	250	499.7	227.7	-1.3	344	6.07
	Uttarakhand	2153	0	48.4	22.8	0.1	124	0.17
	HP	1593	0	33.7	-5.7	0.0	65	0.00
	J&K(UT) & Ladakh(UT)	2651	0	54.1	28.4	1.8	219	0.11
	Chandigarh	374	0	7.3	7.1	0.2	55	0.00
	Chhattisgarh	4798	0	113.6	69.2	0.3	357	0.87
WR	Gujarat	17415	0	373.2	233.2	-10.1	777	0.00
	MP	10034	0	223.5	118.3	0.0	908	0.00
	Maharashtra	21600	0	463.3	187.6	-1.8	797	0.00
	Goa	489	0	10.1	10.1	-0.4	97	0.00
	DNHDDPDCL	1149	0	25.5	25.8	-0.3	68	0.00
	AMNSIL	752	0	15.9	10.7	-0.7	254	0.00
SR	Andhra Pradesh	9602	0	199.9	71.3	2.1	1035	0.00
	Telangana	11813	0	215.3	65.4	1.1	920	0.00
	Karnataka	8335	0	164.3	34.4	-3.0	617	0.00
	Kerala	3483	0	70.9	27.0	-1.3	208	0.00
	Tamil Nadu	13535	0	275.8	149.6	-0.5	766	0.00
	Puducherry	368	0	8.3	8.0	-0.4	29	0.00
ER	Bihar	6003	1490	121.2	114.0	1.0	764	15.25
	DVC	3300	0	72.6	-27.4	1.4	405	0.00
	Jharkhand	1404	0	32.3	21.7	-0.3	183	1.35
	Odisha	6434	0	137.1	60.6	-0.6	419	0.00
	West Bengal	9724	0	201.6	84.0	0.1	414	0.00
	Sikkim	101	0	1.4	1.4	0.0	17	0.00
NER	Arunachal Pradesh	130	0	2.6	2.4	-0.2	38	0.00
	Assam	2051	0	38.2	31.4	0.6	109	0.00
	Manipur	203	0	2.7	2.7	0.1	42	0.00
	Meghalaya	331	0	5.9	3.2	-0.1	48	0.00
	Mizoram	112	0	1.8	0.7	-0.1	21	0.00
	Nagaland	144	0	2.9	2.7	0.0	23	0.00
	Tripura	296	0	5.9	6.0	0.0	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.7	8.4	-25.4
Day Peak (MW)	2088.0	322.3	-1089.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.7	-161.3	-24.8	-112.9	-10.7	0.0
Actual(MU)	306.7	-164.9	-28.5	-107.0	-12.2	-5.9
O/D/U/D(MU)	-2.9	-3.6	-3.7	5.9	-1.6	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3522	10871	5798	2530	309	23029	37
State Sector	9495	17946	7322	4690	162	39614	63
Total	13017	28817	13120	7220	470	62643	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	769	1204	557	551	17	3098	67
Lignite	31	5	53	0	0	89	2
Hydro	378	107	181	149	33	848	18
Nuclear	32	40	47	0	0	119	3
Gas, Naptha & Diesel	20	4	7	0	29	60	1
RES (Wind, Solar, Biomass & Others)	161	64	214	5	0.5	444	9
Total	1392	1425	1059	705	79	4659	100

Share of RES in total generation (%)	11.56	4.50	20.17	0.73	0.62	9.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.09	14.85	41.72	21.86	41.59	29.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.074

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: 02-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	24.9	-24.9	
2	HVDC	PUSAULI B/B	2	0	348	0.0	8.3	-8.3	
3	765 kV	GAYALYANASI	2	315	280	0.0	0.0	0.4	
4	765 kV	SASARAM-FATEHPUR	1	0	319	0.0	4.5	-4.5	
5	765 kV	GAYA-BALIA	1	0	737	0.0	13.1	-13.1	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	197	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	931	0.0	15.1	-15.1	
9	400 kV	PATNA-BALIA	2	0	533	0.0	11.1	-11.1	
10	400 kV	NAUBATPUR-BALIA	2	0	627	0.0	11.0	-11.0	
11	400 kV	BIHARSHARIFF-BALIA	2	0	617	0.0	10.0	-10.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	210	0.0	6.1	-6.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	70	162	0.0	1.5	-1.5	
14	220 kV	SAHUPUR-KARMANASA	1	2	144	0.0	2.0	-2.0	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	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	0.8	115.5	-114.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1232	0	17.9	0.0	17.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1777	0	27.2	0.0	27.2	
3	765 kV	JHARSUGUDA-DURG	2	79	166	0.0	1.3	-1.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	383	0.0	5.1	-5.1	
5	400 kV	RANCHI-SIPAT	2	355	0	6.2	0.0	6.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	49	47	0.2	0.0	0.2	
						ER-WR	51.5	8.6	42.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	437	0.0	7.7	-7.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1667	0.0	32.7	-32.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2392	0.0	40.9	-40.9	
4	400 kV	TALCHER-I/C	2	715	0	0.0	12.2	12.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	81.3	-81.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	27	340	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	165	379	0.0	1.8	-1.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	3	93	0.0	1.1	-1.1	
						ER-NER	0.0	6.0	-6.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	801	0.0	19.2	-19.2	
						NER-NR	0.0	19.2	-19.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4007	0.0	61.0	-61.0	
2	HVDC	VINDHYACHAL B/B	2	271	0	6.6	0.0	6.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	814	0.0	19.4	-19.4	
4	765 kV	GWALIOR-AGRA	2	0	1363	0.1	20.2	-20.1	
5	765 kV	GWALIOR-PHAGI	2	0	1968	0.0	32.6	-32.6	
6	765 kV	JABALPUR-ORAI	2	0	1083	0.0	33.8	-33.8	
7	765 kV	GWALIOR-ORAI	1	532	0	9.8	0.0	9.8	
8	765 kV	SATNA-ORAI	1	0	1011	0.0	20.7	-20.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1646	64	20.5	0.0	20.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3599	0.0	62.8	-62.8	
11	400 kV	ZERDA-KANKROLI	1	340	0	4.5	0.0	4.5	
12	400 kV	ZERDA-JBHINMAL	1	654	0	8.4	0.0	8.4	
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHULIAPUR	2	122	553	0.0	5.4	-5.4	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	2.4	-2.4	
17	220 kV	MEHGAON-AURAIYA	1	97	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	57	6	1.5	0.0	1.5	
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	74.0	258.3	-184.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2871	0	49.5	0.0	49.5	
3	765 kV	SOLAPUR-RAICHUR	2	822	1371	0.0	2.8	-2.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2529	0.0	36.7	-36.7	
5	400 kV	KOLHAPUR-KUDCI	2	1433	0	27.3	0.0	27.3	
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	1	75	1.3	0.0	1.3	
						WR-SR	102.1	39.5	62.6
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)	704	690	704	16.9			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1139	1026	1038	24.9			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	236	0	195	4.7			
	NER	132KV GELEPHU-SALAKATI	20	8	15	0.4			
	NER	132KV MOTANGA-RANGIA	42	6	28	0.7			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-17	-0.4			
	ER	NEPAL IMPORT (FROM BIHAR)	-8	0	-1	0.0			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	401	288	367	8.8			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-920	-821	-898	-21.5			
	NER	132KV COMILLA-SURAJMANNAGAR 1&2	-169	0	-160	-3.8			