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: 04th 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., 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 03.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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:** **04-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)	67816	54200	43021	24872	2943	192852
Peak Shortage (MW)	1660	0	0	205	0	1865
Energy Met (MU)	1630	1307	992	554	59	4543
Hydro Gen (MU)	364	111	182	151	31	839
Wind Gen (MU)	44	41	42	-	-	127
Solar Gen (MU)*	127.87	46.75	109.33	4.56	0.66	289
Energy Shortage (MU)	8.09	0.00	0.00	2.75	0.00	10.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72729	57201	45878	25933	3001	198603
Time Of Maximum Demand Met (From NLDC SCADA)	23:13	14:55	10:56	00:24	18:57	12:00

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	0.021	0.00	0.00	3.40	3.40	86.18	10.42

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	14023	0	312.4	189.3	-1.2	104	0.00
	Haryana	11705	0	255.3	171.8	0.6	172	0.00
	Rajasthan	14056	0	298.5	93.8	-0.8	259	0.00
	Delhi	6298	0	128.5	117.7	-1.2	161	0.00
	UP	24417	110	500.0	239.4	-0.8	423	7.54
	Uttarakhand	2153	0	46.5	21.5	0.2	156	0.33
	HP	1592	0	32.8	-5.9	-0.4	70	0.02
	J&K(UT) & Ladakh(UT)	2889	0	49.9	25.6	0.4	653	0.20
	Chandigarh	308	0	6.5	6.7	-0.2	11	0.00
WR	Chhattisgarh	4915	0	112.2	65.5	-0.4	271	0.00
	Gujarat	19340	0	401.1	233.7	-2.7	552	0.00
	MP	10263	0	229.8	120.0	0.0	482	0.00
	Maharashtra	22550	0	507.0	189.5	0.6	783	0.00
	Goa	552	0	11.8	11.7	-0.2	38	0.00
	DNHDDPDCL	1201	0	27.8	27.7	0.1	112	0.00
	AMNSIL	814	0	17.7	10.9	0.5	266	0.00
SR	Andhra Pradesh	9773	0	206.4	79.5	1.7	766	0.00
	Telangana	12973	0	236.1	77.4	2.2	995	0.00
	Karnataka	9052	0	179.9	44.8	-1.1	597	0.00
	Kerala	3604	0	73.5	29.8	-1.5	199	0.00
	Tamil Nadu	14122	0	287.2	138.5	-0.9	820	0.00
	Puducherry	398	0	8.8	8.1	0.0	45	0.00
ER	Bihar	6194	0	122.3	113.4	1.0	315	1.14
	DVC	3351	0	74.0	-29.5	0.0	273	0.00
	Jharkhand	1382	0	30.3	21.2	-2.1	174	1.61
	Odisha	6396	0	134.8	50.3	-0.6	327	0.00
	West Bengal	9309	0	191.4	74.7	-1.0	213	0.00
	Sikkim	85	0	1.4	1.5	-0.1	12	0.00
NER	Arunachal Pradesh	119	0	2.2	2.0	-0.1	62	0.00
	Assam	1925	0	38.7	32.2	-0.2	110	0.00
	Manipur	195	0	2.7	2.6	0.1	45	0.00
	Meghalaya	325	0	5.9	1.9	-0.1	58	0.00
	Mizoram	110	0	1.8	0.9	-0.1	9	0.00
	Nagaland	161	0	2.7	2.4	-0.1	7	0.00
	Tripura	279	0	5.4	5.1	0.0	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.2	9.5	-25.3
Day Peak (MW)	2044.0	408.0	-1064.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	318.2	-161.0	-4.8	-144.0	-8.4	0.0
Actual(MU)	309.6	-156.2	-5.6	-145.1	-9.7	-7.0
O/D/U/D(MU)	-8.5	4.8	-0.8	-1.2	-1.3	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3562	10282	6298	1710	309	22161	39
State Sector	6915	16453	7322	3240	162	34091	61
Total	10477	26735	13620	4950	470	56252	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	778	1236	568	577	15	3174	66
Lignite	31	5	52	0	0	88	2
Hydro	366	111	182	151	31	841	18
Nuclear	33	40	47	0	0	119	3
Gas, Naptha & Diesel	19	8	7	0	29	63	1
RES (Wind, Solar, Biomass & Others)	191	89	202	5	1	487	10
Total	1419	1488	1059	733	76	4774	100

Share of RES in total generation (%)	13.47	5.99	19.09	0.62	0.87	10.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.56	16.10	40.74	21.28	42.07	30.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.092

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: 04-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	23.5	-23.5
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	61	554	0.0	5.0	-5.0
4	765 kV	SASARAM-FATEHPUR	1	0	408	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	736	0.0	13.0	-13.0
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	226	0.0	4.2	-4.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1072	0.0	21.1	-21.1
9	400 kV	PATNA-BALIA	2	0	755	0.0	15.4	-15.4
10	400 kV	NAUBATPUR-BALIA	2	0	779	0.0	16.6	-16.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	709	0.0	11.1	-11.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	210	0.0	10.8	-10.8
13	400 kV	BIHARSHARIFF-VARANASI	2	11	257	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	129	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.1	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.3	0.1
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	0.6	145.7	-145.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1465	5	20.8	0.0	20.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1807	0	22.8	0.0	22.8
3	765 kV	JHARSUGUDA-DURG	2	166	351	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	438	0.0	5.6	-5.6
5	400 kV	RANCHI-SIPAT	2	354	100	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	2	136	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	93	21	1.0	0.0	1.0
					ER-WR	48.2	9.4	38.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	32.9	-32.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2817	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	713	0	12.1	0.0	12.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	90.4	-90.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	89	158	0.2	1.3	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	268	127	1.2	0.0	1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	16	57	0.0	0.7	-0.7
					ER-NER	1.4	1.9	-0.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	452	0.0	10.9	-10.9
					NER-NR	0.0	10.9	-10.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3020	0.0	43.1	-43.1
2	HVDC	VINDHYACHAL B/B	-	448	0	6.5	0.0	6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	815	0.0	16.5	-16.5
4	765 kV	GWALIOR-AGRA	2	0	1624	0.1	23.9	-23.7
5	765 kV	GWALIOR-PHAGI	2	0	1985	0.0	27.3	-27.3
6	765 kV	JABALPUR-ORAI	2	0	1210	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	583	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	1079	0.0	21.5	-21.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1570	306	15.8	0.3	15.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3480	0.0	58.6	-58.6
11	400 kV	ZERDA-KANKROLI	1	359	4	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	665	0	8.9	0.0	8.9
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	296	595	1.3	4.5	-3.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	99	0	0.4	0.1	0.4
18	220 kV	MALANPUR-AURAIYA	1	61	22	1.2	0.0	1.2
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	69.1	233.0	-163.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	19.3	0.0	19.3
2	HVDC	RAIGARH-PUGALUR	2	2879	0	48.0	0.0	48.0
3	765 kV	SOLAPUR-RAICHUR	2	1003	1945	3.6	10.8	-7.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3087	0.0	42.3	-42.3
5	400 kV	KOLHAPUR-KUDGI	2	1559	0	26.8	0.0	26.8
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	0	88	1.8	0.0	1.8
					WR-SR	99.5	53.1	46.5

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)	721	0	654	15.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1080	0	1034	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	201	184	194	4.7
	NER	132kV GELEPHU-SALAKATI	-22	-10	-12	-0.3
	NER	132kV MOTANGA-RANGIA	-41	-16	-29	-0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-17	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	425	326	395	9.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	-913	-915	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-147	0	-139	-3.3