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: 03rd 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 02.09.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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: 03-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)	64931	54335	42432	26094	3203	190995
Peak Shortage (MW)	3676	0	0	223	0	3899
Energy Met (MU)	1600	1272	959	575	61	4468
Hydro Gen (MU)	372	115	182	151	30	850
Wind Gen (MU)	18	17	30	-	-	65
Solar Gen (MU)*	120.45	44.36	102.31	4.82	0.60	273
Energy Shortage (MU)	24.04	0.00	0.00	11.84	0.00	35.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71024	56749	44666	26240	3206	195565
Time Of Maximum Demand Met (From NLDC SCADA)	12:15	19:28	07:34	20:06	20:00	11:45

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	0.051	1.33	0.96	5.27	7.56	85.00	7.44

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	14038	0	305.3	182.0	-1.2	53	0.00
	Haryana	11792	0	251.6	169.0	-0.3	167	4.32
	Rajasthan	13840	25	287.9	124.0	0.6	349	5.34
	Delhi	6440	0	133.9	122.7	-1.4	177	0.00
	UP	22996	0	481.8	217.0	-0.6	407	13.19
	Uttarakhand	2169	0	46.5	21.2	0.2	117	0.07
	HP	1668	0	34.0	-5.0	-0.1	89	0.00
	J&K(UT) & Ladakh(UT)	2589	320	52.1	28.4	0.2	353	1.12
	Chandigarh	366	0	7.2	7.2	-0.1	38	0.00
WR	Chhattisgarh	4895	0	117.1	73.2	0.3	262	0.00
	Gujarat	18195	0	387.5	235.5	-2.0	686	0.00
	MP	10066	0	221.7	117.5	0.0	349	0.00
	Maharashtra	22470	0	489.8	183.0	0.7	866	0.00
	Goa	560	0	11.5	11.1	0.0	102	0.00
	DNHDDPDCL	1197	0	27.4	27.3	0.1	143	0.00
	AMNSIL	818	0	17.2	11.3	-0.2	267	0.00
SR	Andhra Pradesh	9040	0	198.6	75.0	-0.4	524	0.00
	Telangana	12302	0	226.5	70.0	0.9	1133	0.00
	Karnataka	8620	0	172.6	39.2	-2.8	525	0.00
	Kerala	3540	0	71.3	28.9	-1.5	164	0.00
	Tamil Nadu	13888	0	282.0	141.6	-0.2	806	0.00
	Puducherry	382	0	8.3	8.2	-0.4	42	0.00
ER	Bihar	6202	0	125.6	120.4	0.3	296	9.47
	DVC	3348	0	73.3	-27.7	1.4	340	0.00
	Jharkhand	1410	223	31.4	21.3	-0.3	229	2.37
	Odisha	6592	0	143.4	58.2	-0.9	322	0.00
	West Bengal	9501	0	199.7	82.1	-0.6	422	0.00
	Sikkim	100	0	1.6	1.5	0.1	24	0.00
NER	Arunachal Pradesh	133	0	2.6	2.2	0.0	38	0.00
	Assam	2099	0	39.6	32.5	0.3	110	0.00
	Manipur	201	0	2.8	2.8	0.1	26	0.00
	Meghalaya	324	0	6.0	2.7	0.1	48	0.00
	Mizoram	108	0	1.8	0.8	0.0	5	0.00
	Nagaland	158	0	2.9	2.4	0.0	34	0.00
	Tripura	299	0	5.5	5.2	-0.1	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.2	8.8	-25.3
Day Peak (MW)	2006.0	386.0	-1078.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.7	-168.1	-21.0	-123.8	-7.8	0.0
Actual(MU)	315.9	-161.7	-31.9	-117.9	-8.7	-4.3
O/D/U/D(MU)	-4.8	6.4	-10.9	5.9	-0.9	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3462	10571	5798	1710	309	21849	37
State Sector	8235	17178	7322	4690	162	37586	63
Total	11697	27749	13120	6400	470	59435	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	768	1235	567	569	17	3155	67
Lignite	31	5	53	0	0	90	2
Hydro	375	115	182	151	30	852	18
Nuclear	33	40	47	0	0	120	3
Gas, Naptha & Diesel	20	5	7	0	29	61	1
RES (Wind, Solar, Biomass & Others)	158	62	182	5	1	408	9
Total	1384	1462	1039	725	77	4683	100

Share of RES in total generation (%)	11.41	4.26	17.53	0.67	0.78	8.71
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.73	14.83	39.61	21.51	39.84	29.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.086

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: 03-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	24.7	-24.7
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	122	394	0.0	1.0	-1.0
4	765 kV	SASARAM-FATEHPUR	1	0	371	0.0	5.2	-5.2
5	765 kV	GAYA-BALIA	1	0	711	0.0	13.2	-13.2
6	400 kV	PUSAULI-VARANASI	1	0	206	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	216	0.0	4.2	-4.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	880	0.0	18.0	-18.0
9	400 kV	PATNA-BALIA	2	0	901	0.0	14.5	-14.5
10	400 kV	NAUBATPUR-BALIA	2	0	718	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	751	0.0	10.7	-10.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	210	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	231	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	135	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	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	0.5	122.1	-121.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1257	0	17.8	0.0	17.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1854	0	28.4	0.0	28.4
3	765 kV	JHARSUGUDA-DURG	2	125	306	0.0	2.0	-2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	14	356	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	391	0	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	108	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	55	56	0.3	0.0	0.3
					ER-WR	49.7	8.3	41.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	9.7	-9.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	34.8	-34.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2629	0.0	41.9	-41.9
4	400 kV	TALCHER-I/C	2	716	152	10.2	0.0	10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	86.4	-86.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	29	264	0.0	2.2	-2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	179	282	0.0	0.4	-0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	1	85	0.0	0.9	-0.9
					ER-NER	0.0	3.6	-3.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	801	0.0	13.0	-13.0
					NER-NR	0.0	13.0	-13.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4022	0.0	60.4	-60.4
2	HVDC	VINDHYACHAL B/B	-	226	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	814	0.0	19.4	-19.4
4	765 kV	GWALIOR-AGRA	2	0	1438	0.0	22.2	-22.2
5	765 kV	GWALIOR-PHAGI	2	0	1984	0.0	35.7	-35.7
6	765 kV	JABALPUR-ORAI	2	0	1096	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	607	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	1030	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1565	0	21.6	0.0	21.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3544	0.0	61.5	-61.5
11	400 kV	ZERDA-KANKROLI	1	322	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	541	0	7.5	0.0	7.5
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	97	580	0.0	6.0	-6.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	92	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	53	14	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	74.1	264.1	-190.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	20.5	0.0	20.5
2	HVDC	RAIGARH-PUGALUR	2	2876	0	58.0	0.0	58.0
3	765 kV	SOLAPUR-RAICHUR	2	987	1719	0.0	1.8	-1.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2940	0.0	35.6	-35.6
5	400 kV	KOLHAPUR-KUDGI	2	1589	0	27.7	0.0	27.7
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	97	1.7	0.0	1.7
					WR-SR	107.8	37.4	70.4

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)	700	0	681	16.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1095	0	998	23.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	225	0	202	4.9
	NER	132kV GELEPHU-SALAKATI	22	7	13	0.3
	NER	132kV MOTANGA-RANGIA	41	19	32	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-28	0	-6	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	414	0	372	8.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-920	-845	-917	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-138	-3.3