

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22nd Jul 2020

To,

- 1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता ७०००३३ 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., २९ , रेस कोर्स क्रॉस रोड, बंगलुरु –५६०००९ Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 21.07.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 21th July 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day
A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	47566	43935	36528	20154	2575	150758
Peak Shortage (MW)	662	0	0	0	152	814
Energy Met (MU)	1090	1047	836	435	46	3454
Hydro Gen (MU)	344	23	111	137	30	645
Wind Gen (MU)	54	74	26	-	-	154
Solar Gen (MU)*	24.70	21.60	79.16	4.17	0.02	130
Energy Shortage (MU)	9.3	0.0	0.0	0.0	4.0	13.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52090	45439	38819	20541	2634	150357
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	10:11	12:27	00:00	19:14	11:50

B. Frequency Profile (%) FVI 49.9 - 50.05 Region < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 > 50.05 0.032 0.00 0.62 4.95 5.58 81.18 All India 13.24

C. Power Suppl	y Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
		day(MW)	Demand(MW)	` ´	(MU)			(MU)
	Punjab	7396	0	160.9	113.2	-2.2	65	0.0
	Haryana	6408	0	132.7	105.3	-4.8	158	0.0
	Rajasthan	11453	0	244.6	78.1	-2.4	225	0.0
	Delhi	4485	0	88.6	78.1	-2.0	144	0.1
NR	UP	18895	0	356.7	173.4	-2.3	438	0.4
	Uttarakhand	1689	0	36.8	16.9	-0.7	172	0.0
	HP	1343	0	27.4	-3.7	-1.9	118	0.0
	J&K(UT) & Ladakh(UT)	2101	525	36.8	13.7	0.1	364	8.8
	Chandigarh	240	0	5.1	5.8	-0.7	0	0.0
	Chhattisgarh	4066	0	98.3	37.6	-0.4	199	0.0
	Gujarat	14193	0	307.4	98.7	5.2	605	0.0
	MP	9315	0	208.4	110.2	-1.7	336	0.0
WR	Maharashtra	17485	0	386.1	159.2	0.4	677	0.0
	Goa	417	0	8.9	8.4	0.0	40	0.0
	DD	248	0	5.4	5.2	0.2	26	0.0
	DNH	631	0	14.4	14.3	0.1	34	0.0
	AMNSIL	806	0	17.6	5.3	0.0	250	0.0
	Andhra Pradesh	7286	0	153.0	63.5	0.7	793	0.0
	Telangana	9317	0	187.6	84.1	0.2	774	0.0
SR	Karnataka	7336	0	146.2	60.1	0.2	443	0.0
	Kerala	3113	0	64.1	45.9	0.7	187	0.0
	Tamil Nadu	12846	0	277.6	118.8	1.5	790	0.0
	Puducherry	362	0	7.8	7.9	-0.1	37	0.0
	Bihar	4995	0	96.7	93.2	-2.3	660	0.0
	DVC	2804	0	63.3	-27.1	0.1	287	0.0
	Jharkhand	1245	0	25.5	18.8	-1.6	159	0.0
ER	Odisha	4436	0	96.0	14.4	0.0	365	0.0
	West Bengal	7419	0	152.8	47.2	0.7	446	0.0
	Sikkim	80	0	1.1	1.3	-0.2	18	0.0
	Arunachal Pradesh	88	1	1.7	1.6	0.2	14	0.0
	Assam	1705	30	28.4	25.2	0.4	120	4.0
	Manipur	184	1	2.7	2.5	0.2	23	0.0
NER	Meghalaya	306	0	5.2	-0.4	0.1	30	0.0
. =-	Mizoram	99	1	1.7	1.2	0.2	20	0.0
	Nagaland	123	2	2.4	2.3	-0.1	7	0.0
	Tripura	230	2	3.7	5.4	-1.0	45	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.0	-1.3	-25.2
Day Peak (MW)	2314.0	-171.1	-1081.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	204.3	-214.9	112.0	-96.7	-4.6	0.0
Actual(MU)	154.9	-216.0	148.6	-92.2	-5.5	-10.1
O/D/U/D(MU)	-49.4	-1,1	36.7	4.5	-0.9	-10.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4639	16547	11612	2150	893	35841
State Sector	11169	20633	13765	5742	47	51356
Total	15808	37180	25377	7892	940	87197

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	455	1027	363	408	3	2255
Lignite	17	15	26	0	0	59
Hydro	344	23	111	137	30	645
Nuclear	27	33	33	0	0	92
Gas, Naptha & Diesel	21	49	17	0	23	109
RES (Wind, Solar, Biomass & Others)	100	118	150	4	0	371
Total	963	1264	699	549	56	3532
Chave of DEC in total consection (0/)	10.25	0.22	21.20	0.77	0.04	10.52
Share of RES in total generation (%)	10.35	9.33	21.38	0.77	0.04	10.52
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	48.86	13.76	41.99	25.68	53.65	31.41

H. All India	Demand	Diversity	Factor

11. All findia Demand Diversity Pactor	
Based on Regional Max Demands	1.061
Based on State Max Demands	1.098

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.

ce: 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: 22-Jul-2020

Description Company	C)	т ,		1	1	1		Date of Reporting:	22-Jul-2020
	Sl	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1		ort/Export of ER (\)	With NR)		_	_		_	
1	1	HVDC	ALIPURDUAR-AGRA	D/C					-29.1
1				.	-				-9.6
1									-2.1 3.0
Color Colo					•				-4.7
Bank				S/C	•				-6.8
1									-2.9
BO BOOK BELLASELERTE ALLA D.C. 0 272 9.0 5.0 5.0 5.1									-9.8
1									-9.6 -3.9
12 100 AV BILLIANTICARENT SARANSIS DC 119 107 0.5 0.0 0.0 0.1					-				-4.0
DESIGN PASALLAMENTED SCC					Ü				0.3
15 15 15 15 15 15 15 15	13			S/C			0.0	2.0	-2.0
10 15 12 12 12 12 12 12 12									0.0
17 1914 SARMANAMACHANDALII S.C. 0 0 0.0									0.4
									0.0
	1/	132 KV	AANVIANASA-CHANDAULI	S/C	U				-80.8
1 10.0 10.	Impo	ort/Export of ER (V	With WR)			22.1.4.1	0.7	0 110	00.0
1 3 76 k N				Q/C	1859	0	34.1	0.0	34.1
1 3 76 k N	2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1009	0	13.3	0.0	13.3
1		765 kV	JHARSUGUDA-DURG						1.9
S 2001-XY BINDEFINANCE DIC 0.0 1.8 0.1		+ + + + + + + + + + + + + + + + + + + +							0.4
6 220 V DIDITIPARA RAGGART SC 0 124 0.0 1.8 -1	—			-					5.0
Total	-								
Description of ER (VMB SE)		_							-1.8
	7	220 KV	DUDHIYADAK-KUKBA	D/C	151				1.9
HYPIC BEYOPRE GAZIWAKA RP DPC 0 388 0.0 8.5 3.5	Impo	rt/Export of FD (With SR)			ŁK-WK	30. /	1.8	54.9
1 Dec. Trait Cupter ROLLAR BUPOLE Dec. 0 1885 0.0 48.0 4.4	1			D/C	0	368	0.0	8.5	-8.5
1	2	HVDC	TALCHER-KOLAR BIPOLE	D/C	· · · · · · · · · · · · · · · · · · ·	1855		48.0	-48.0
S 29 PATIMETA-UPPER SILEREU SC 1 0 0,0 0,0 0 0	3	765 kV	ANGUL-SRIKAKULAM	D/C		2417	0.0	47.2	-47.2
Description of PR (Vision NTR)					0				-13.4
Images I	_ 5	220 kV	BALIMELA-UPPER-SILERRU	I S/C	1 1	·			0.0
1 400 kV BBNACHR-BONCARGAON DPC 0 3.34 0.0 2.7 2.2	Imno	ort/Export of FR (With NER)			EK-SK	υ.υ	103.0	-103.6
2	1			D/C	0	334	0.0	2.7	-2.7
32 12 ALIPERDIARSMARTT DC 0 104 0.0 1.		400 kV	ALIPURDUAR-BONGAIGAON	D/C	147	325	0.0	0.8	-0.8
	3	220 kV	ALIPURDUAR-SALAKATI	D/C	0				-1.0
H WYDC BISWANTH CHARMAL-GRA DC 0 764 0.0 12.2 -1	T		(NICAL NID)			ER-NER	0.0	4.4	-4.4
ImportPepared WR (With NR)				D/C	Ι ο	704	0.0	12.2	-12.2
		пурс	DISWANATH CHARIALI-AGRA	D/C	U				-12.2
1 IVPC CHAMPA KURUSSHERA P/C 0 376 0.0 18.0 18.1	Impo	ort/Export of WR (With NR)			112K-11K	V. V	14,4	-12,2
A	1			D/C	0	376	0.0	18.0	-18.0
4 76 KV WALJOR-AGRA					451				10.6
S					·				-16.6
6									-24.8
7 765 kV GWALIOR-ORAI SIC 371 0 6-3 0.0 6-6					-				-12.2 10.0
R 765 KV SATNA-ORAI									-19.9 6.3
9 765 kV CHITORCARH-BANASKNITHA DIC 34 656 0.0 6.9									-24.4
10 400 kV ZERDA-KANNROLI									-6.9
12 400 kV VINDITYACHAL RHIAND	10			S/C	141	59			1.4
13									4.7
14 220 kV BITANPURA-RANPUR S/C 11 0 0.0 0.7 0.1 15 220 kV BITANPURA-MORAK S/C 0 87 0.0 1.1 16 220 kV BITANPURA-MORAK S/C 0 0 0.4 0.1 0 0 17 220 kV BITANPURA-MORAK S/C 97 0 0.4 0.1 0 0 18 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0 0.0 0.0 0.0 0 19 132 kV RAGIGHAT-LALIPUR D/C 0 0 0 0.0 0.0 0.0 0 19 132 kV RAGIGHAT-LALIPUR D/C 0 0 0 0.0 0.0 0 0 10 10 10 10 10 1									22.4
15 220 kV BHANPURA-MORAK S/C 0 87 0.0 1.1 -1 16 220 kV MERGAON-AURAIYA S/C 97 0 0.4 0.1 0 17 220 kV MERGAON-AURAIYA S/C 0 0 0 0.0 0.0 0.0 18 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0 0.0 0.0 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0 0.0 0.0 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0 0.0 0.0 0.0 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR S/C 0 0 0 0.0 0.0 0.0 0.0 19 132 kV RAIGHAT-LALITUR D/C 0 0 0.0 0.0 0.0 0.0 0.0 19 132 kV RAIGHAT-LALITUR D/C 0 0 0.0 0.0 0.0 0.0 0.0 19 152 kV GWALIOR-SAWAIT B/B -									0.8 -0.7
16 220 kV MERGAON-AURAIYA									-0.7
17 220 kV MALANPUR-AURAIYA									0.4
19 132 kV RAJGHAT-LALITPUR									1.0
WR-NR	18								0.0
Import/Export of WR (With SR) 1 I HVDC BHADRAWATI B/B - 0 369 0.0 20.6 -2.2 2.8 HVDC RAIGARE-PUGALUR D/C 0 0 0.0 0	19	132 kV	RAJGHAT-LALITPUR	D/C	0				0.0
Thus	_	4/E 4 CAMP /	WA CD			WR-NR	47.7	124.7	-77.0
2 HVDC RAIGARII-PUGALUR D/C 0 0 0.0 0.0 0.0 0.0				_	n	300	^^	20.6	-20.6
3 765 kV SOLAPUR-RAICHUR DJC 364 2006 0.2 25.8 -2. 4 765 kV WARDHA-NIZAMBAD DJC 0 2536 0.0 42.8 44. 5 440 kV KOLHAPUR-KUDGI DJC 562 0 5.3 0.0 5.5 6 220 kV KOLHAPUR-KUDGI DJC 0 0 0.0 0.0 0.0 7 220 kV PONDA-AMBEWADI SJC 0 91 1.66 0.0 1.0 8 220 kV XELDEM-AMBEWADI SJC 0 91 1.66 0.0 1.0 8 220 kV XELDEM-AMBEWADI SJC 0 91 1.66 0.0 1.0 9 1.66 0.0 1.1 1.66 0.0 1.0 9 1.66 0.0 0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 0 9 1.66 0.0 0 0 0 9 1.66 0.0 0 9 1.66 0.0 0 0 9 1.66 0.0 0									0.0
4 765 kV WARDHA-NIZAMABAD D/C 0 2536 0.0 42.8 -4.5 5 400 kV KOLHAPUR-KUDGI D/C 562 0 5.3 0.0 5.5 6 220 kV KOLHAPUR-CHIKODI D/C 0 0 0 0.0 0.0 0.0 7 220 kV KOLHAPUR-CHIKODI D/C 0 0 0 0.0 0.0 0.0 8 220 kV KOLHAPUR-CHIKODI D/C 0 0 0 0.0 0.0 0.0 8 220 kV KOLHAPUR-CHIKODI D/C 0 0 0 0 0.0 0.0 0.0 8 220 kV KOLHAPUR-CHIKODI S/C 0 91 1.6 0.0 0 0 8 220 kV XELDEM-AMBEWADI S/C 0 91 1.6 0.0 0 1									-25.5
S 440 kV KOLHAPUR-KUDGI D/C 502 0 5.3 0.0 5.5	4	765 kV	WARDHA-NIZAMABAD	D/C	0	2536	0.0	42.8	-42.8
Toleral Tole									5.3
S/C 0 91 1.6 0.0 1					· · · · · · · · · · · · · · · · · · ·				0.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy									0.0 1.6
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy (MW) Energy (MW)		U R ₹	THE PROPERTY OF THE PROPERTY O		<u>, </u>				-82.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy (M				INTER	RNATIONAL EXCHA				
ER		04-4-	ъ .				7 A - /2 A	4 /2 ====	Energy Exchange
BHUTAN ER		State	Region	Line	name	Max (MW)	Min (MW)	Avg (MW)	(MU)
BHUTAN ER			ED.	DAGACHII (2 * 62	<u> </u>	<u> </u>		Λ	0.0
BHUTAN ER MANGDECHHU (4 x 180) 770 763 740 17			EV	2.10/10110 (2 · 03	,	U	U	U	U.U
BHUTAN ER MANGDECHHU (4 x 180) 770 763 740 17			ER	CHUKA (4 * 84) B	SIRPARA RECEIPT	361	347	330	7.9
BHUTAN ER				, , , , ,					
ER		BHUTAN	ER	,	<i>'</i>	770	763	740	17.8
NER			TID.			1074	1073	4084	25.0
NER 132KV-RANGIA - DEOTHANG 63 0 55 1	Ī		EK	1ALA (6 * 170) BI	INAGUKI KECEIPI	1064	1063	1074	25.8
NER			NER	132KV-SALAKATI	- GELEPHU	62	0	52.	1.2
NR			11231				.		1.2
NR	NER		NER	132KV-RANGIA - I	DEOTHANG	63	0	55	1.3
NEPAL ER 132KV-BIHAR - NEPAL -67 -67 -16 -0	-			132KV-Tanaknur/N	VH) -				
NEPAL ER 132KV-BIHAR - NEPAL -67 -67 -16 -0		NR		• '	*	-60	0	-31	-0.8
ER 220KV-MUZAFFARPUR - DHALKEBAR DC -44 -2 -5 -0 ER Bheramara HVDC(Bangladesh) -956 -938 -944 -2 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 63 0 -59 -1 132KV-SURA IMANI NAGAR - COMILLA(BANGLADESH)-1 132KV-SURA IMANI NAGAR - COMILLA(BANGLADESH)-1 -59 -1						·-	~ =	1.	
ER DHALKEBAR DC -44 -2 -5 -0 ER Bheramara HVDC(Bangladesh) -956 -938 -944 -2 BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 63 0 -59 -1 132KV-SURA IMANI NAGAR - COMILLA(BANGLADESH)-1 132KV-SURA IMANI NAGAR - COMILLA(BANGLADESH)-1 -1 -59 -1		NEPAL	ER_			-6 7	-6 7	-16	-0.4
DHALKEBAR DC			ED		RPUR -	11	2		Λ1
BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 63 0 -59 -1			ĽК	DHALKEBAR DC		-44	- 2	-5	-0.1
BANGLADESH NER 132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1 63 0 -59 -1			ER		Bangladesh)	-956	_038	-944	-22.7
BANGLADESH NER COMILLA(BANGLADESH)-1 63 0 -59 -1			24	,	,	/50			,
COMILLA(BANGLADESH)-1 132KV-SURA IMANI NAGAR -	BA	ANGLADESH	NER			63	0	-59	-1.4
NED TOTAL DOMEST DOMESTICATION - CO A AO A	Ī								
NER COMILLA(BANGLADESH)-2 62 0 -48 -1	Ī		NER			62	0	-48	-1.2