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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th May 2020

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 29.05.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-मई-2020 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 29th May 2020, 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: 30-May-2020**

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)	43544	42672	37268	18138	2454	144076
Peak Shortage (MW)	508	0	0	0	2	510
Energy Met (MU)	1026	1115	945	361	41	3488
Hydro Gen (MU)	284	22	74	95	21	497
Wind Gen (MU)	55	156	86	-	-	297
Solar Gen (MU)*	38.43	28.10	80.27	4.87	0.04	152
Energy Shortage (MU)	10.5	0.0	0.0	0.0	0.0	10.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44949	49866	44632	18870	2541	156567
Time Of Maximum Demand Met (From NLDC SCADA)	15:21	15:30	14:58	21:31	19:38	15:25

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	0.039	0.00	0.27	6.92	7.19	73.49	19.33

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	6532	0	134.0	107.1	-3.4	101	0.0
	Haryana	5495	0	109.0	95.6	0.2	467	0.0
	Rajasthan	11745	0	250.1	57.0	9.3	1259	0.0
	Delhi	4381	0	88.4	75.8	-3.3	121	0.0
	UP	16793	0	337.1	159.5	0.4	582	0.0
	Uttarakhand	1523	0	33.8	16.0	0.2	155	0.0
	HP	1294	0	24.7	2.1	0.7	230	0.0
	J&K(UT) & Ladakh(UT)	2166	542	44.1	18.3	2.7	422	10.5
	Chandigarh	204	0	4.3	5.3	-1.0	0	0.0
WR	Chhattisgarh	3532	0	82.5	33.0	-1.4	239	0.0
	Gujarat	15461	0	323.9	77.2	3.5	570	0.0
	MP	9120	0	203.7	91.5	-3.2	407	0.0
	Maharashtra	21463	0	462.6	139.5	-0.2	1851	0.0
	Goa	491	0	10.9	10.5	-0.1	33	0.0
	DD	225	0	4.8	4.6	0.2	141	0.0
	DNH	383	0	8.9	8.9	0.0	226	0.0
	AMNSIL	769	0	17.4	2.4	0.3	247	0.0
SR	Andhra Pradesh	9880	0	193.3	98.0	-0.5	396	0.0
	Telangana	9114	0	182.4	73.5	0.6	394	0.0
	Karnataka	10249	0	192.8	61.0	0.0	515	0.0
	Kerala	3452	0	69.8	46.1	0.6	223	0.0
	Tamil Nadu	13815	0	298.8	149.9	-2.4	475	0.0
	Puducherry	381	0	7.9	8.3	-0.4	30	0.0
ER	Bihar	5006	0	95.5	90.0	-0.1	256	0.0
	DVC	2621	0	53.7	-30.9	0.7	274	0.0
	Jharkhand	1398	0	23.4	16.8	-2.1	176	0.0
	Odisha	3867	0	73.6	7.9	0.1	194	0.0
	West Bengal	6363	0	113.9	39.2	3.9	520	0.0
	Sikkim	92	0	1.2	1.4	-0.2	19	0.0
NER	Arunachal Pradesh	112	0	1.9	1.6	0.3	50	0.0
	Assam	1546	12	24.0	20.4	0.5	105	0.0
	Manipur	179	0	2.5	2.3	0.2	33	0.0
	Meghalaya	331	1	5.2	0.5	-0.1	65	0.0
	Mizoram	91	0	1.4	1.4	-0.1	9	0.0
	Nagaland	122	0	2.1	1.9	-0.1	14	0.0
	Tripura	250	4	3.7	3.9	-0.7	32	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.4	-0.7	-17.3
Day Peak (MW)	1612.2	-135.4	-986.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.2	-222.8	132.2	-95.5	-6.2	0.1
Actual(MU)	180.4	-210.9	139.3	-85.3	-8.0	15.5
O/D/U/D(MU)	-11.9	11.9	7.1	10.2	-1.9	15.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4968	19884	7762	2510	594	35718
State Sector	15600	19386	11328	5856	11	52181
Total	20568	39270	19090	8366	605	87899

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	382	990	429	380	6	2187
Lignite	19	15	37	0	0	71
Hydro	284	22	74	95	21	497
Nuclear	27	36	55	0	0	118
Gas, Naptha & Diesel	30	65	15	0	26	136
RES (Wind, Solar, Biomass & Others)	118	212	209	5	0	544
Total	860	1340	820	480	54	3554
Share of RES in total generation (%)	13.72	15.79	25.52	1.03	0.07	15.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	49.92	20.15	41.26	20.86	39.61	32.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.089

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: 30-May-2020

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	-	0	703	0.0	9.7	-9.7
2	HVDC	PUSAULI B/B	S/C	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	D/C	69	395	0.0	3.3	-3.3
4	765 kV	SASARAM-FATEHPUR	S/C	313	128	1.1	0.0	1.1
5	765 kV	GAYA-BALIA	S/C	0	329	0.0	4.7	-4.7
6	400 kV	PUSAULI-VARANASI	S/C	0	231	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	94	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	659	0.0	9.7	-9.7
9	400 kV	PATNA-BALIA	Q/C	0	700	0.0	10.7	-10.7
10	400 kV	BIHARSHARIFF-BALIA	D/C	34	297	0.0	3.6	-3.6
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	292	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	D/C	254	106	0.7	0.0	0.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	173	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	2.2	61.0	-58.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1653	0	31.2	0.0	31.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	898	175	6.6	0.0	6.6
3	765 kV	JHARSUGUDA-DURG	D/C	120	113	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	152	154	0.2	0.0	0.2
5	400 kV	RANCHI-SIPAT	D/C	336	43	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	18	110	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	D/C	192	0	2.2	0.0	2.2
					ER-WR	43.6	1.1	42.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	437	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2003	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2593	0.0	52.7	-52.7
4	400 kV	TALCHER-I/C	D/C	0	1009	0.0	9.1	-9.1
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
					ER-SR	0.0	110.7	-110.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	D/C	155	408	0.0	0.7	-0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	375	530	0.0	0.6	-0.6
3	220 kV	ALIPURDUAR-SALAKATI	D/C	40	119	0.0	0.5	-0.5
					ER-NER	0.0	1.7	-1.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	704	0.0	11.9	-11.9
					NER-NR	0.0	11.9	-11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	999	0.0	21.1	-21.1
2	HVDC	V'CHAL B/B	D/C	0	507	0.0	11.8	-11.8
3	HVDC	APL -MHG	D/C	0	1915	0.0	36.9	-36.9
4	765 kV	GWALIOR-AGRA	D/C	0	1151	0.0	13.3	-13.3
5	765 kV	PHAGI-GWALIOR	D/C	8	869	0.0	8.4	-8.4
6	765 kV	JABALPUR-ORAI	D/C	0	664	0.0	16.4	-16.4
7	765 kV	GWALIOR-ORAI	S/C	287	321	2.4	0.0	2.4
8	765 kV	SATNA-ORAI	S/C	0	1109	0.0	14.9	-14.9
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	632	0.0	5.5	-5.5
10	400 kV	ZERDA-KANKROLI	S/C	158	0	1.8	0.0	1.8
11	400 kV	ZERDA -BHINMAL	S/C	366	0	4.6	0.0	4.6
12	400 kV	V'CHAL -RIHAND	S/C	951	35	14.4	0.0	14.4
13	400 kV	RAPP-SHUJALPUR	D/C	207	0	2.7	0.0	2.7
14	220 kV	BHANPURA-RANPUR	S/C	65	2	1.0	1.9	-0.9
15	220 kV	BHANPURA-MORAK	S/C	0	73	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	S/C	139	0	0.0	0.0	0.0
17	220 kV	MALANPUR-AURAIYA	S/C	0	0	0.0	0.0	0.0
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0
					WR-NR	26.8	130.2	-103.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	12.2	-12.2
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
4	765 kV	SOLAPUR-RAICHUR	D/C	0	1660	0.0	18.4	-18.4
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2216	0.0	43.6	-43.6
6	400 kV	KOLHAPUR-KUDGI	D/C	508	47	6.2	0.0	6.2
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	97	2.0	0.0	2.0
					WR-SR	8.3	74.3	-66.0

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU (2 * 63)	0	0	0	0.0
	ER	CHUKA (4 * 84) BIRPARA RECEIPT	204	179	169	4.1
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	535	394	408	9.8
	ER	TALA (6 * 170) BINAGURI RECEIPT	717	627	601	14.4
	NER	132KV-SALAKATI - GELEPHU	0	0	22	0.5
	NER	132KV-RANGIA - DEOTHANG	3	0	43	1.0
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.3
	ER	132KV-BIHAR - NEPAL	-19	-1	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-88	-2	-10	-0.2
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-858	-462	-615	-14.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	64	0	-53	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	64	0	-53	-1.3