



.Kreate

Daily Power Market Report

Wednesday, July 21, 2021

Kreate Energy (I) Pvt. Ltd | Formerly known as Mittal Processors Pvt. Ltd
1002, 1004, Antriksh Bhawan, 22 KG Marg, New Delhi-110001 India

CONTENTS

Section-1 Analysis of DAM Power Transaction at Exchange

- 1.1 Average Price and Volume Comparison at IEX
- 1.2 Buy Bid, Sell Bid (MWh) and MCP (INR/MWh)
- 1.3 Weekly Y-o-Y Comparison w.r.t last year (In %)
- 1.4 Maximum, Minimum and Average Price Comparison w.r.t last year
- 1.5 MCP (Avg., Peak, Non-Peak, Morning, Night Hours)
- 1.6 Block Wise MCP Comparison w.r.t Previous Day and Last Year (Rs./MWh)
- 1.7 Region-Wise Top Buyer, Seller and Generator on Exchange

Section-2 Analysis of RTM Vs DAM Power Transaction at Exchange

- 2.1 MCP and its Comparison w.r.t. Previous Day
- 2.2 MCV and % change w.r.t. Previous Day and % of RTM w.r.t DAM of the Same Day
- 2.3 Buy & Sell Volume and its comparison w.r.t. Previous Day
- 2.4 RTM MCP (Avg., Peak, Non-Peak, Morning, Night Hours)
- 2.5 Block Wise MCP Comparison (Rs./MWh)
- 2.6 Region-Wise Top Buyer, Seller and Generator on Exchange

Section-3 DSM Price Comparison with IEX Price

Section-4 Power Supply Position of State

- 4.1 State Wise Maximum Demand Met & Time
- 4.2 State Wise Drawal Schedule, Actual Drawl and OD/UD (+)/(-)
- 4.3 Actual Scheduled in LTOA, MTOA, STOA and PXs
- 4.4 Region-Wise Top Seller* (IPP, SOLAR, NON-SOLAR)
- 4.5 State Wise Renewable Solar & Non-Solar Wind Generation* and % Change w.r.t Previous Day
- 4.6 Generating Outage Summary (In MW)

Section-5 Transmission Corridor Availability and Power Flow (Scheduled)

- 5.1 Inter-Regional
- 5.2 Cross Country Power Flow (Actual)

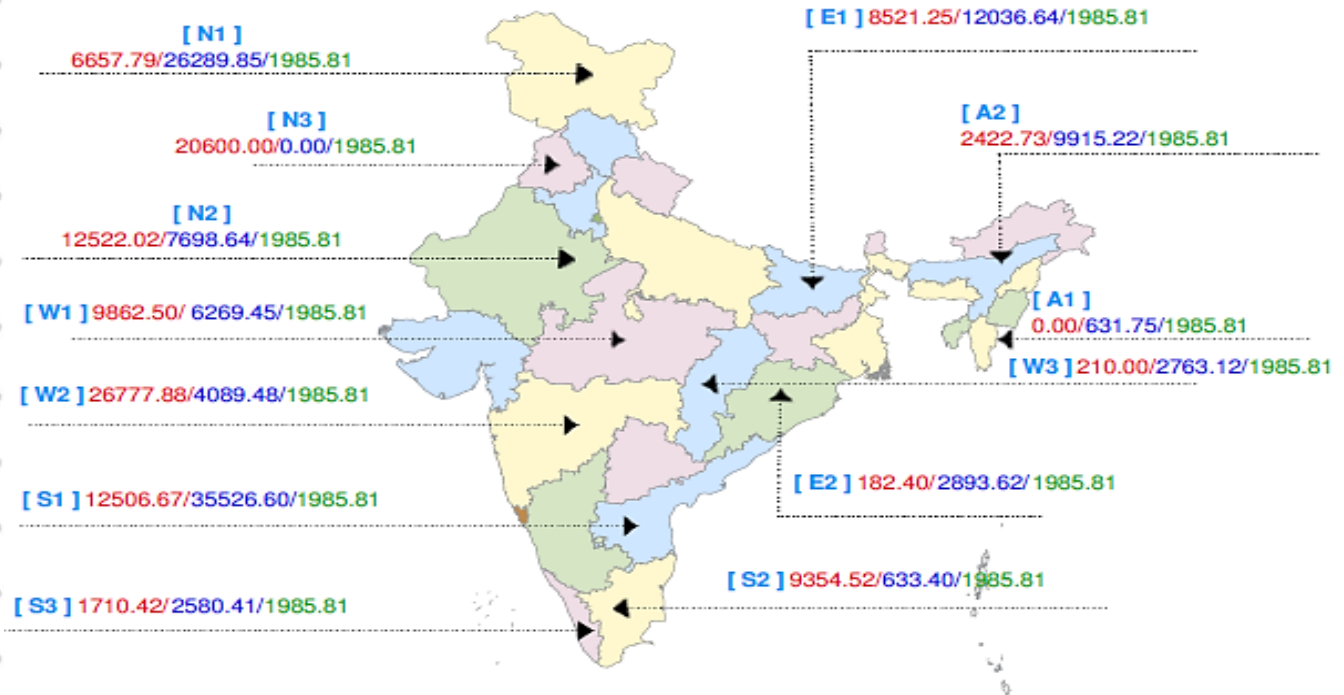
Section-6 Power Sector, Weather News, Industry and Regulation Update

- 6.1 Power Sector
- 6.2 Weather News

SECTION-1 ANALYSIS OF POWER TRANSECTION AT EXCHANGE

1.1 Average Price and Volume comparison at IEX

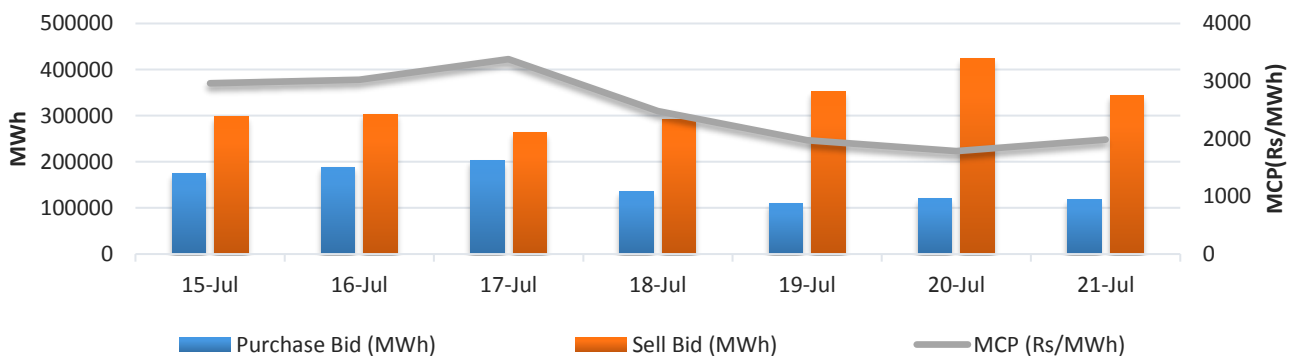
Buy Bid (MWh)/Sell Bid (MWh)/Avg.Price (INR/MWh)



NO Congestion has been reported by NLDC for DD 21.07.2021

1.2 Buy Bid, Sell Bid (MWh) and MCP (INR/MWh)

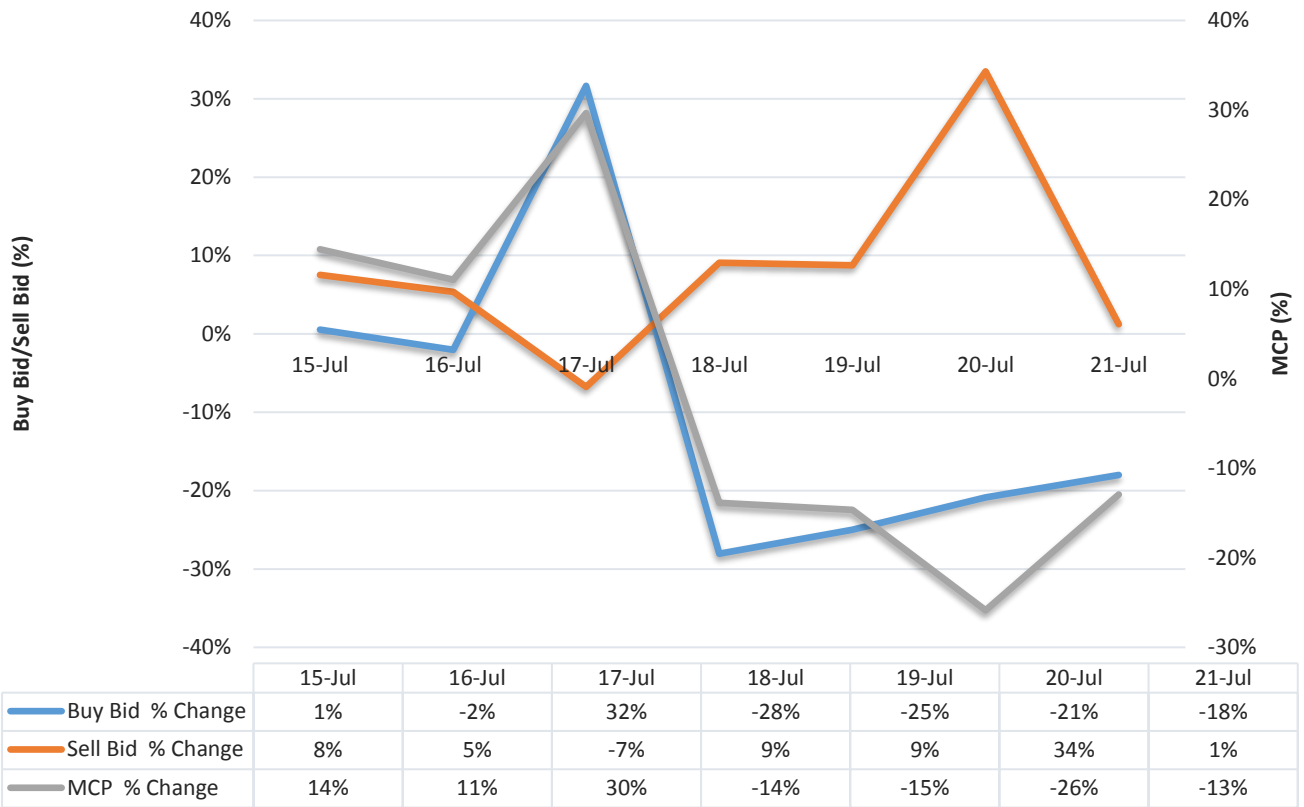
Weekly Buy/Sell bid Comparison w.r.t. MCP



MCP Rs/MWh	2960.72	3022.32	3381.02	2480.03	1975.99	1785.71	1985.81
---------------	---------	---------	---------	---------	---------	---------	---------

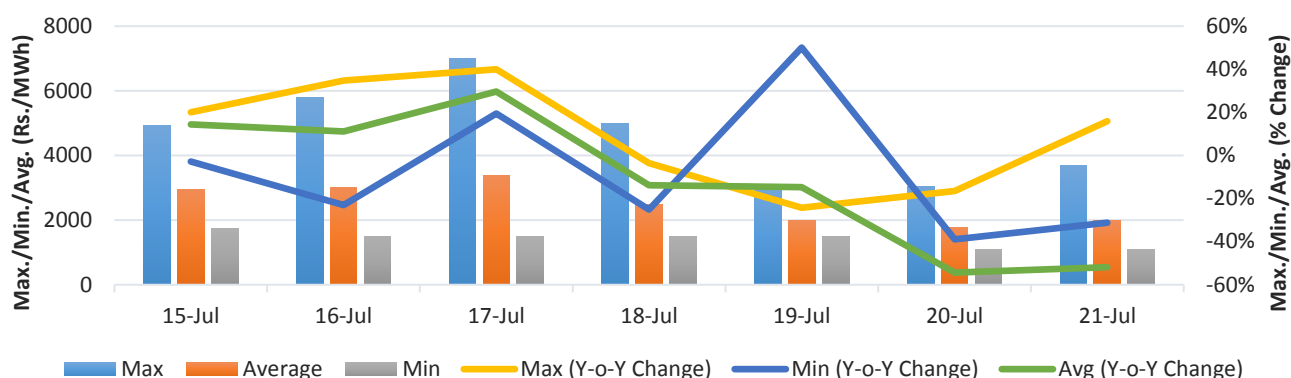
1.3 Weekly Y-o-Y comparison w.r.t last year (In %)

Y-o-Y % Change in Buy Bid Sell Bid and MCP



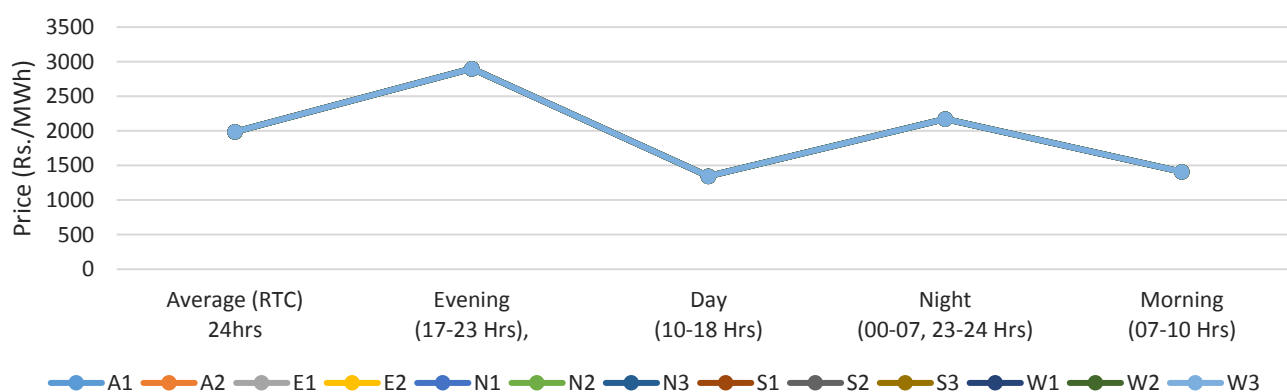
Date	Buy Bid (MWh)			Sell Bid (MWh)			MCP (Rs/MWh)		
	2021	2020	% Change	2021	2020	% Change	2021	2020	% Change
15-Jul	174516.6	173604.4	1%	298945.94	278051.6	8%	2960.72	2587.34	14%
16-Jul	188655.1	192546.1	-2%	303745.36	288233.7	5%	3022.32	2721.13	11%
17-Jul	202365.5	153709.5	32%	262644.82	281697.2	-7%	3381.02	2607.6	30%
18-Jul	134756.9	187294.1	-28%	292426.48	268079.2	9%	2480.03	2879.39	-14%
19-Jul	108725.6	144986.4	-25%	351573.28	323234.8	9%	1975.99	2314.97	-15%
20-Jul	119760.7	151325.5	-21%	424434.85	317926.7	34%	1785.71	2408.68	-26%
21-Jul	119340.9	145520.7	-18%	344139.91	339953.1	1%	1985.81	2280.47	-13%
Average	149731.6	164141.0	-9%	325415.806	299596.6	8%	2513.08571	2542.797	-2%

1.3 Maximum, Minimum and Average Price Comparison w.r.t last year



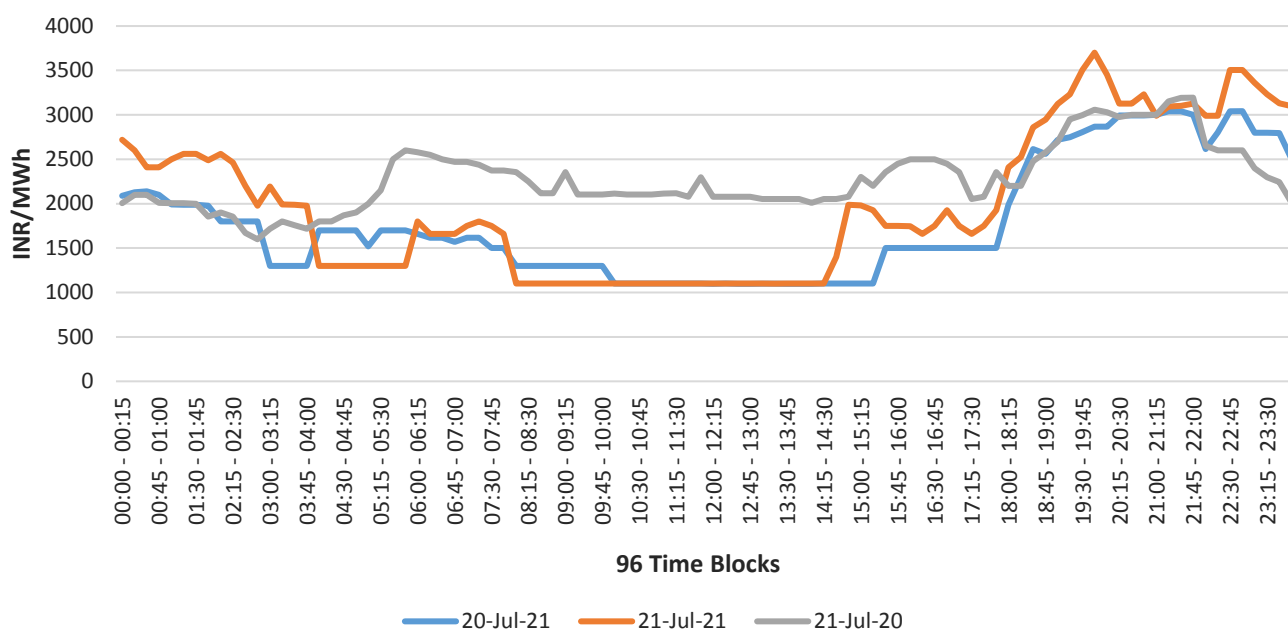
*() = -ve

1.5. MCP Avg., Evening, Morning, Night Hours on 21-07-2021



* Value is same for all the Regions i.e. if there is any congestion the curve will be plotted w.r.t their coloured area line for more Refer to table.

1.6 Block Wise Price Comparison w.r.t Previous Day and Last Year (Rs./MWh)

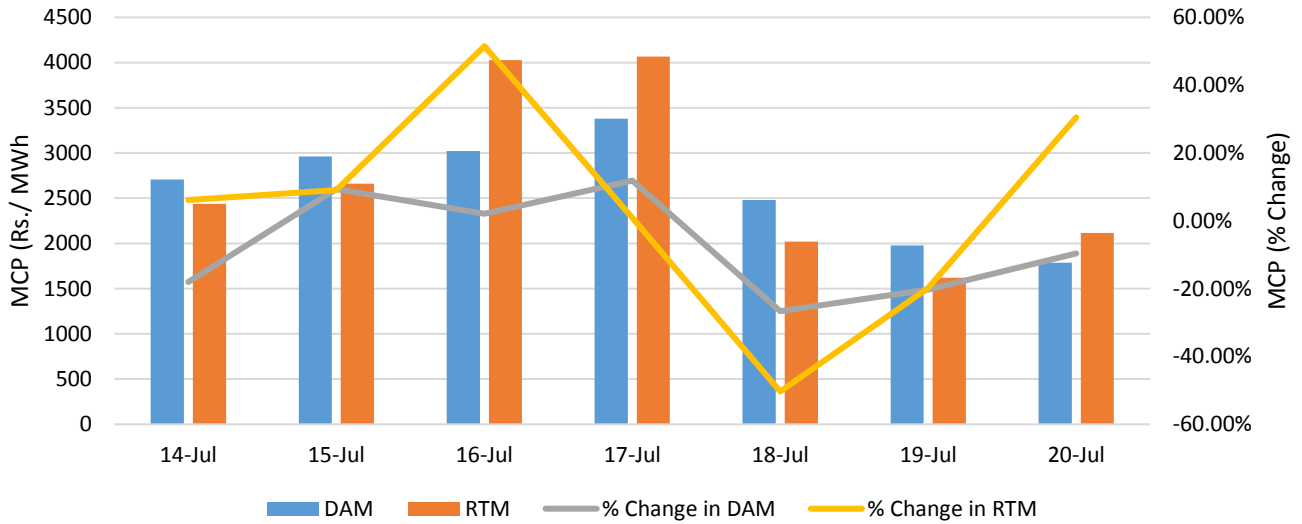


1.7 Region-Wise Top Buyer, Seller and Generator on Exchange

Region	21-Jul-21					
	UTILITY WISE				GENERATOR	
	Seller		Buyer			
	Name	MUs	Name	Mus	Name	MUs
NR	HP	12.80	PUNJAB	20.60	SAINJ	2.34
	JK&LADAKH	6.26	UPPCL	5.80	SINGOLI	2.09
	UPPCL	3.97	HARYANA	5.42	ADHPL	1.90
WR	MSEB	2.10	MSEB	14.18	ESSARMPL	3.14
	MPSEB	0.90	GEB	10.64	MBMP	1.17
	GOA	0.87	MPSEB	9.86	GMR WARORA	1.04
ER	ODISHA	2.16	BSPHCL	7.40	TEESTA III	5.63
	SIKKIM	0.21	JHARKHAND	0.35	THEP	2.20
	JHARKHAND	0.02	ODISHA	0.18	JLHEP	2.12
SR	KPTCL	25.55	TNEB	9.35	SEIL P2	3.05
	TSTRANSCO	4.37	TSTRANSCO	6.03	SEIL	1.09
	KSEB	2.58	APTRANSCO	4.24	TALST 2	0.52
NER	ASSAM	2.04	ASSAM	2.29	KAMENG	6.00
	MEGHALAYA	0.97	MEGHALAYA	0.13	PALATANA GAS	0.56
	ARUNACHAL	0.85	-	-	BGTPP	0.05

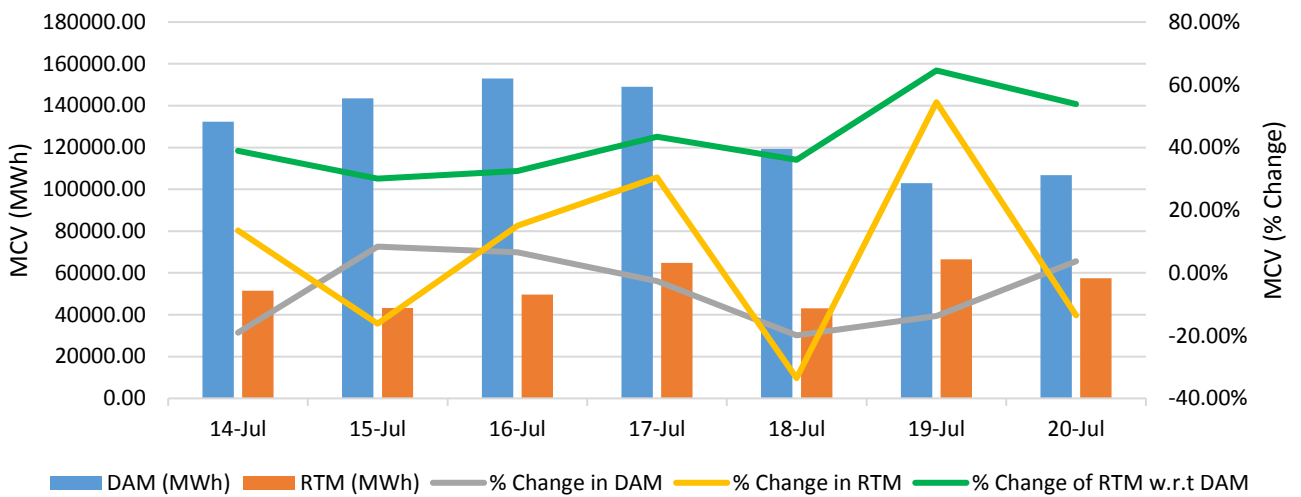
SECTION-2 ANALYSIS OF RTM Vs DAM POWER TRANSECTION AT EXCHANGE

2.1 MCP and its Comparison w.r.t. Previous Day



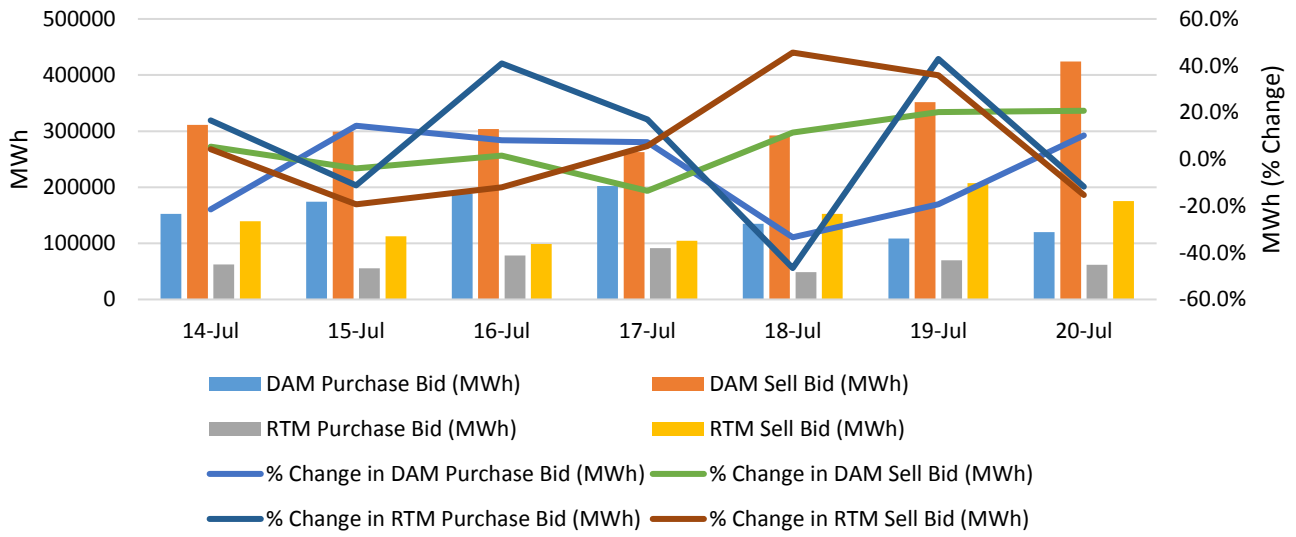
Date	DAM	RTM	% Change in DAM	% Change in RTM
14-Jul	2707.01	2437.3	-18.01%	6.11%
15-Jul	2960.72	2659.57	9.37%	9.12%
16-Jul	3022.32	4029.31	2.08%	51.50%
17-Jul	3381.02	4065.77	11.87%	0.90%
18-Jul	2480.03	2020.04	-26.65%	-50.32%
19-Jul	1975.99	1620.07	-20.32%	-19.80%
20-Jul	1785.71	2114.9	-9.63%	30.54%
Average	2616.11	2706.71	-7.33%	4.01%

2.2 MCV and % change w.r.t. Previous Day and % of RTM w.r.t DAM of the Same Day



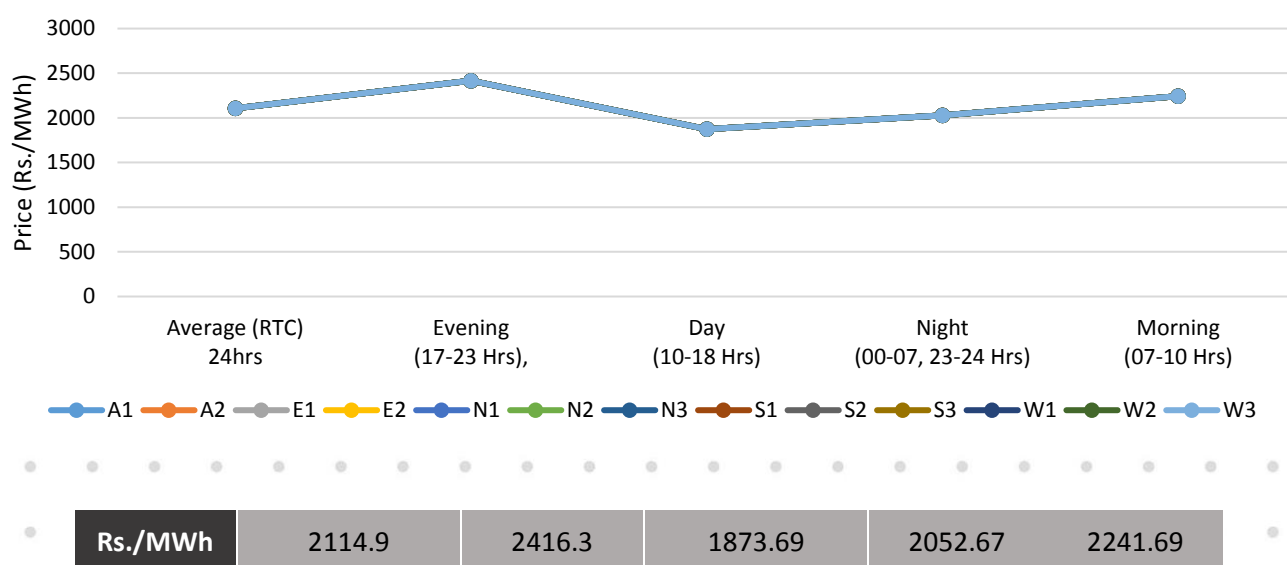
Date	DAM (MWh)	RTM (MWh)	% of DAM (Trend)
14-Jul	132371.58	51478.18	38.89%
15-Jul	143479.19	43148.78	30.07%
16-Jul	152962.33	49660.45	32.47%
17-Jul	149034.41	64784.94	43.47%
18-Jul	119370.67	43057.29	36.07%
19-Jul	103003.32	66493.86	64.56%
20-Jul	106828.57	57487.89	53.81%
Average	129578.58	53730.20	42.76%

2.3 Buy & Sell Volume and its comparison w.r.t. Previous Day



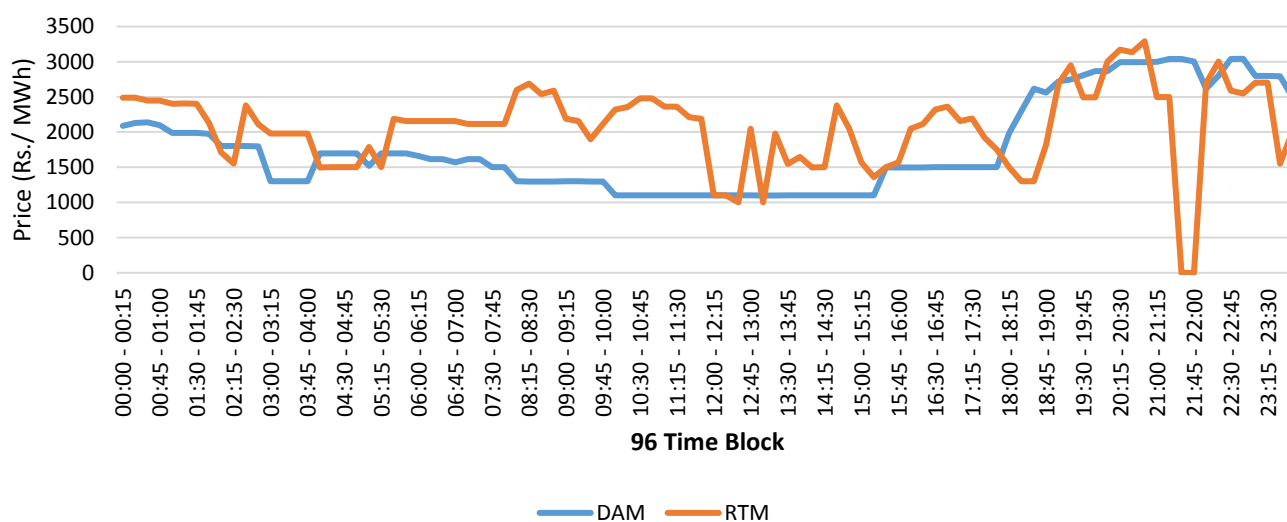
Date	DAM		RTM		% Change in DAM		% Change in RTM	
	Purchase Bid (MWh)	Sell Bid (MWh)	Purchase Bid (MWh)	Sell Bid (MWh)	Purchase Bid (MWh)	Sell Bid (MWh)	Purchase Bid (MWh)	Sell Bid (MWh)
14-Jul	152655.7	311264.50	62553.03	139466.50	-21.5%	5.36%	16.65%	4.26%
15-Jul	174516.63	298945.94	55516.25	112552.45	14.3%	-3.96%	-11.25%	-19.30%
16-Jul	188655.09	303745.36	78284.63	99088.70	8.1%	1.61%	41.01%	-11.96%
17-Jul	202365.54	262644.82	91603.58	104715.93	7.3%	-13.53%	17.01%	5.68%
18-Jul	134756.85	292426.48	48938.53	152495.08	-33.4%	11.34%	-46.58%	45.63%
19-Jul	108725.56	351573.28	69929.88	207275.18	-19.3%	20.23%	42.89%	35.92%
20-Jul	119760.69	424434.85	61718.93	175617.28	10.1%	20.72%	-11.74%	-15.27%
Average	154490.87	320719.32	66934.98	141601.59	-4.91%	5.97%	6.86%	6.42%

2.4 RTM MCP (Avg., Evening, Day, Morning, Night Hours) on 20-07-2021



* Value is same for all the Regions i.e. if there is any congestion the curve will be plotted w.r.t their coloured area line for more Refer to table.

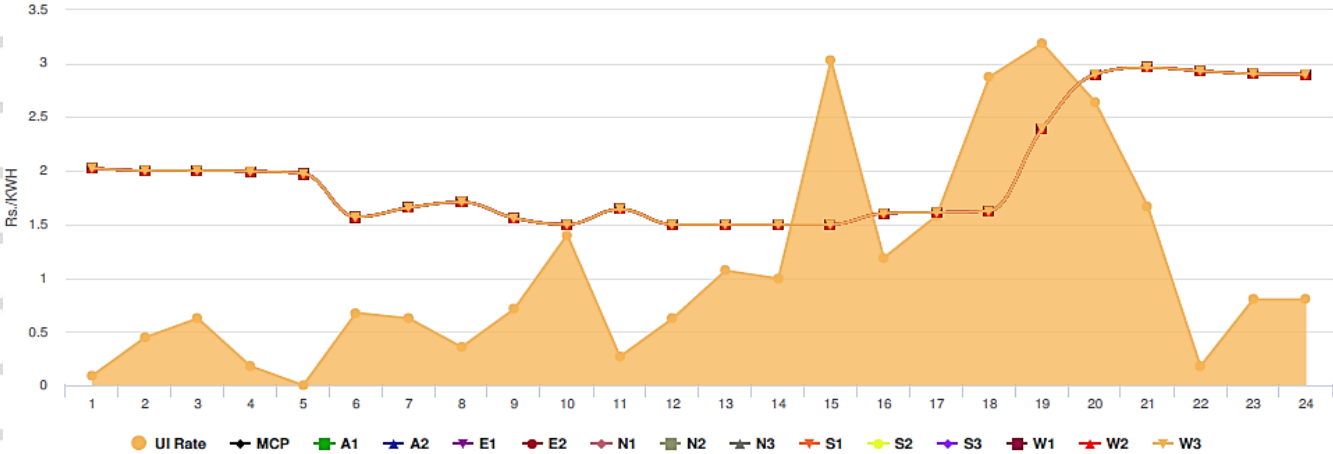
2.5 Block Wise MCP Comparison on 20.07.2021 (Rs./MWh)



2.6 Region-Wise Top Buyer, Seller and Generator on Exchange

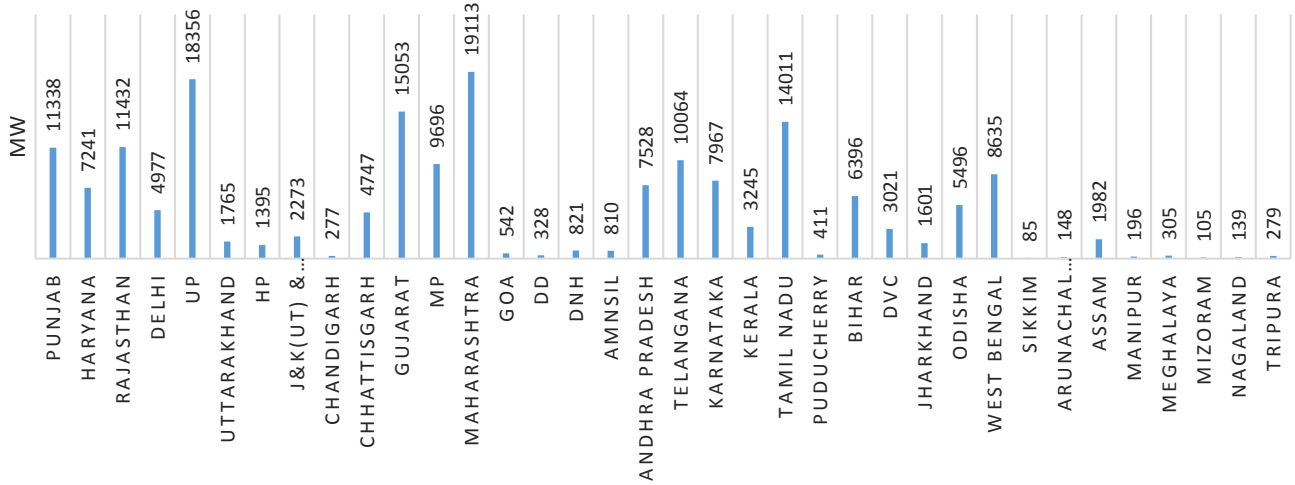
Region	20-Jul-21					
	UTILITY WISE				GENERATOR	
	Seller		Buyer			
	Name	MUs	Name	Mus	Name	MUs
NR	JK&LADAKH	8.34	UPPCL	3.76	-	-
	DELHI	4.26	RAJASTHAN	3.52	-	-
	UPPCL	4.03	PUNJAB	0.75	-	-
WR	CSEB	0.40	MSEB	3.87	SASAN	7.76
	GEB	0.06	MPSEB	0.45	MBMP	1.07
	MPSEB	0.05	-	-	MCCPL	0.15
ER	ODISHA	2.60	WBSETCL	12.63	GMRKEL	0.26
	WBSETCL	0.10	BSPHCL	6.22	JLHEP	0.02
	SIKKIM	0.01	JHARKHAND	0.59	TEESTA III	0.02
SR	KPTCL	8.53	TSTRANSCO	20.19	NNTPP	2.00
	KSEB	2.47	APTRANSCO	0.93	NLCIIST 2	1.75
	TSTRANSCO	0.49	TNEB	0.49	NLCIIST 1	1.71
NER	ARUNACHAL	0.61	ASSAM	1.53	KAMENG	1.98
	MANIPUR	0.58	MEGHALAYA	0.10	PALATANA-GAS	0.12
	TRIPURA	0.06	TRIPURA	0.04	AGBPP-GAS	0.03

SECTION-3 DSM PRICE COMPARISON WITH IEX PRICE



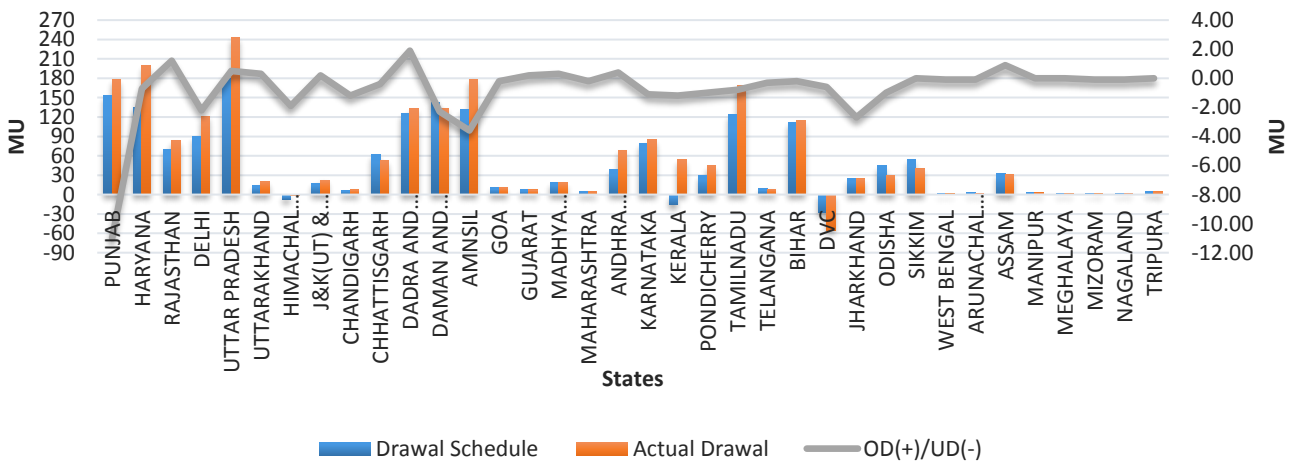
SECTION-4 POWER SUPPLY POSITION OF STATE

4.1 State Wise Maximum Demand Met on 20-07-2021



4.2 State Wise Drawal Schedule, Actual Drawal and OD/UD (+)/(-) on 20-07-2021

Over Drawal and Under Drawal Position (In MU)



4.3 Actual Scheduled in LTOA, MTOA, STOA and PXs on 20.07.2021

%age change w.r.t Previous Day

Region	States	Allocation*	LTOA	MTOA	STOA (MUs)		PX (MUs)	
			(MUs)	(MUs)	20-Jul	Previous Day % Change	20-Jul	Previous Day % Change
NR	PUNJAB	2824.2	12.39	0.00	67.15	-2%	17.06	56%
	HARYANA	2441.9	28.34	0.00	53.84	0%	4.56	23%
	RAJASTHAN	2237.1	12.77	-1.39	0.55	-46%	-1.61	-
	DELHI	4561.7	14.69	0.00	36.42	-1%	0.70	-61%
	UTTAR PRADESH	7187.2	33.77	1.16	15.54	-1%	1.89	-
	UTTARAKHAND	950.1	2.47	0.00	-6.32	-6%	1.98	158%
	HIMACHAL PRADESH	1466.5	-0.59	0.00	-25.71	3%	-12.43	3%
	J&K(UT) & Ladakh(UT)	1742.3	1.30	0.00	-7.95	3%	-9.38	-
	CHANDIGARH	167	0.16	0.00	0.00	-	-0.74	-
WR	CHHATTISGARH	2545.3	3.83	0.00	3.06	-4%	-0.05	-118%
	DADRA AND NAGAR HAVELI	158.6	0.00	0.00	1.57	-	0.31	-
	DAMAN AND DIU	105.8	0.00	0.00	0.19	-	0.39	-
	AMNSIL	-	0.00	0.00	5.00	68%	0.00	-
	GOA	520.3	0.10	0.00	0.55	0%	-0.70	-27%
	GUJARAT	5102.6	-3.50	0.00	15.56	0%	20.43	-
	MADHYA PRADESH	5138.4	16.19	1.35	-13.53	3%	7.55	17%
	MAHARASHTRA	5792	4.51	0.00	1.91	-31%	10.85	-7%
SR	ANDHRA PRADESH	1854.3	3.91	0.00	-0.35	-13%	3.84	-20%
	KARNATAKA	4047.7	3.89	0.00	-26.63	-15%	-24.97	38%
	KERALA	1687.5	15.06	0.00	-1.18	-	0.20	-78%
	PONDICHERRY	338.6	0.00	0.00	0.00	-	0.00	-
	TAMILNADU	5990.6	37.25	0.32	-10.91	3%	9.61	13%
	TELANGANA	2166.3	22.23	0.00	-1.32	-	4.99	9%
ER	BIHAR	3697	11.40	0.00	5.11	-48%	2.74	-1%
	DVC	3734.2	-24.94	0.00	-6.82	7%	0.00	-
	JHARKHAND	1478.5	0.02	0.00	3.48	17%	0.18	-70%
	ODISHA	1642.1	0.23	0.00	18.86	9%	-0.53	-13%
	SIKKIM	91.3	0.23	0.00	-0.76	6%	-0.31	-
	WEST BENGAL	2048.3	6.91	1.28	9.57	11%	1.48	-
NER	ARUNACHAL PRADESH	284.5	0.00	-1.20	-0.05	0%	-0.60	57%
	MANIPUR	215	0.11	0.00	-0.46	0%	0.00	-
	ASSAM	1390.5	0.10	0.00	0.34	-39%	-0.28	-117%
	MIZORAM	170.4	0.11	0.00	0.00	-	-0.13	-5%
	MEGHALAYA	250.3	0.00	0.00	-0.93	0%	-1.07	36%
	TRIPURA	464.8	-0.23	0.00	0.00	-	0.00	-
	NAGALAND	148.3	0.00	0.00	-0.05	-	-0.02	102%

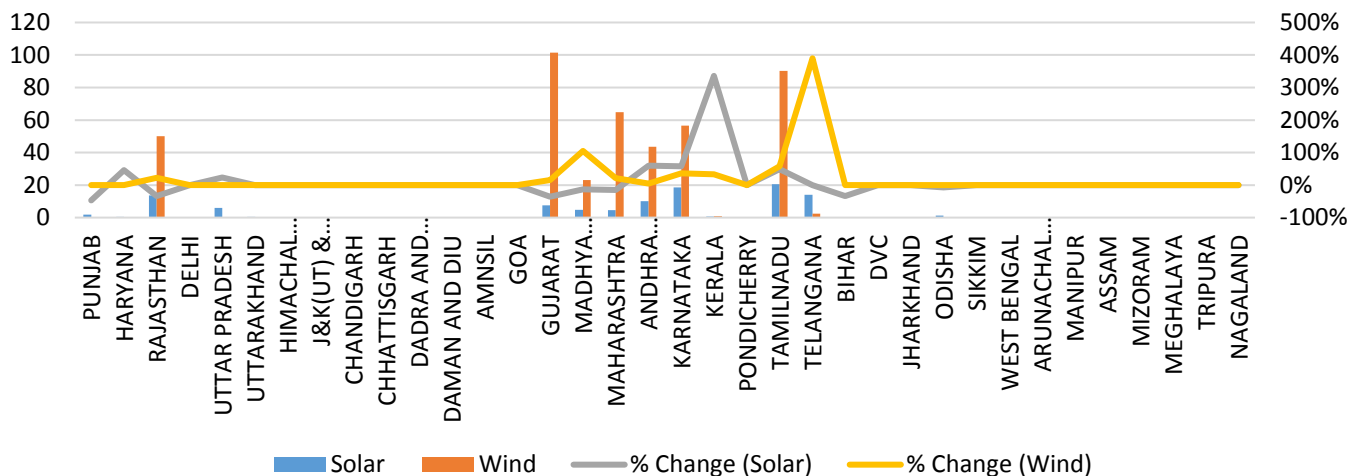
***As on 30.04.2021**

4.4 Region-Wise Top Seller* (IPP, SOLAR, NON-SOLAR) on 20-07-2021

Region	IPP		Solar		Non-Solar	
	Name	MUs	Name	Mus	Name	MUs
NR	KARCHAM WANGTOO	27.64	SB ENERGY SIX PRIVATE LIMITED	2.10	-	-
	ADHPL	5.42	CLEAN SOLAR POWER (BHADLA) PVT LTD	1.68	-	-
	SAINJ HEP	2.6	AZURE POWER FORTY THREE PRIVATE LIMITED	1.64	-	-
SR	SEIL P1	25.74	PVG_TATA RENEWABLES	2.08	PGLR_SREPL	5.09
	SEIL P2	18.44	ANP_SBG ENERGY	1.38	GREEN INFRA	4.61
	IL&FS	8.67	PVG_FORTUM SOLAR	1.29	BEETAM	3.89
ER	TEESTA STG III HEP	30.07	TALCHER_SOLAR	0.04	-	-
	CHUZACHEN	2.88	-	-	-	-
	TASHIDING	2.63	-	-	-	-
WR	KSK MAHANADI	28.27	MAHINDRA SOLAR	0.94	AWEK1L	9.48
	REL	26.74	ACME SOLAR	0.93	RENEW AP2 WIND (GHADSISA)	6.37
	JP NIGRIE	22.38	ARINSUN SOLAR	0.89	GIWEL II WIND	5.59
NER	-	-	-	-	-	-

* CTU Connected

4.5 State Wise Renewable Solar & Non-Solar Wind Generation* on 20-07-2021 and % Change w.r.t Previous Day



4.6 Generating Outage Summary for 20-07-2021 (In MW)

Region	Central Sector	State Sector	Sub Total	Previous
NR	7,092.00	11,500.00	18,592.00	16,192.00
WR	16,908.00	22,077.00	38,985.00	36,455.00
SR	9,732.00	10,095.00	19,827.00	18,517.00
ER	660.00	5,075.00	5,735.00	5,825.00
NER	647.00	95.00	742.00	633.00
Total	35,039.00	48,842.00	83,881.00	77,622.00

SECTION-5 TRANSMISSION CORRIDOR AVAILABILITY AND POWER FLOW **(SCHEDULED)**

5.1 Inter-Regional

Region	Available Corridor (MW) (21-07-2021)		Scheduled Power (MW) (20-07-2021)		Corridor Constraints
	Max.ATC	Max.STOA	MW	MU	
NR to ER (Import)	1800	1607	559	6.8	-
ER to NR (Export)	6450	2170	4096	70.3	• a) Reversal in HVDC APD-Agra power flow • b) Commissioning of 765kV Ajmer-Phagi D/C and 765kV G.Noida-Fatehabad S/C • Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in MW in NR Import (19th July 2021 to 31st July 2021)
WR-ER (Import)	No limit is being specified	No limit is being specified.	3728	62.5	-
ER-WR (Export)	No limit is being specified.	No limit is being specified.	979	8.3	-
SR to ER (Import)	No limit is being Specified.	No limit is being Specified.	709	7.3	-
ER to SR (Export)	5400	2727	4760	65.6	-
NER to ER (Import)	2855	3272	135	0	-
ER to NER (Export)	1805	831	845	8.4	Revised TTC/ATC due to shutdown of 400 kV Misa - Balipara I (22nd & 23rd July 2021)
NR to WR (Import)	2000	1747	2456	38.3	-
WR to NR (Export)	17450	6440	11828	217	• Revised STOA margin due to change in LTA allocations • 1) Revised STOA margin due to increase in LTA allocations by 13 MW (77 MW to 90 MW) from AWEK1L to UPPCL. • 2) Revised STOA margin due to LTA allocations of 13 MW from AWEK1L to Chandigarh. • a) Reversal in HVDC APD-Agra power flow • b) Commissioning of 765kV Ajmer-Phagi D/C and 765kV G.Noida-Fatehabad S/C • a) Revised STOA margin due to decrease in LTA allocations by 5 MW (90 MW to 85 MW) from AWEK1L to UPPCL • b) Revised STOA margin due to increase in LTA allocations by 21 MW (19 MW to 40 MW) from AWEK1L to Chandigarh • Revised Reliability Margin (TRM) considering 2% of the total anticipated peak demand met in MW in NR Import (19th July 2021 to 31st July 2021)
SR to WR (Import)	5600	4831	5852	80.6	• Revised STOA margin due to change in LTA allocations • Revised STOA margin due to decrease in LTA allocation by 38 MW (100 MW to 62 MW) from BETAM to UP (NR) • Revised STOA margin due to increase in LTA allocation by 4 MW (62 MW to 68 MW) from BETAM to UP (NR)
WR to SR (Export)	8700	4804	2784	18.4	• Revised STOA margin due to change in LTA allocations • Revised STOA margin due to increase in LTA allocations by 10 MW (65 MW to 75 MW) from AWEKTL-WR to KSEB

5.2 Cross Country Power Flow (Actual) on 20-07-2021

Country	Region	Energy Exchange* Net MU
BHUTAN	ER	19.70
	NER	1.70
NEPAL	NR	-1.20
	ER	-1.90
BANGLADESH	ER	-19.70
	NER	-2.60

***Import=(+ve) /Export =(-ve)**

SECTION-6 POWER SECTOR, WEATHER NEWS INDUSTRY AND REGULATION UPDATE

6.1 Power Sector

Power

- OPINION: Understanding India's latest record in peak power demand. [Read more](#)
- 350 EV charging stations installed under FAME India Scheme. [Read more](#)
- Ola Electric signs pact to raise \$100 mn in long-term debt. [Read more](#)

Renewable Energy

- Andhra Pradesh HC stays PPA signing between states, RE developers. [Read more](#)
- BSES signs 510-MW solar, hybrid power agreement with SECI for Delhi. [Read more](#)
- India wants rich countries to pay more for green energy shift. [Read more](#)

Weather News

- Heavy to Very Heavy Rainfall at a few places with Extremely Heavy Falls at isolated places very likely over Konkan & Goa; Heavy to Very Heavy Rainfall with Extremely heavy falls at isolated places over Ghat Areas of Madhya Maharashtra; Heavy to Very Heavy Rainfall at isolated places over Odisha and Coastal Andhra Pradesh & Yanam and Heavy rainfall at isolated places over Himachal Pradesh, Uttarkhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Gujarat region, Telangana, Coastal & South Interior Karnataka and Kerala & Mahe.
- Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh, Chhattisgarh, Bihar, Jharkhand, West Bengal & Sikkim, Andaman & Nicobar Islands, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Rayalaseema, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.
- Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest & Westcentral Arabian Sea; North Arabian Sea and along & off GujaratMaharashtra-Goa coasts; Southeast Arabian Sea and along & off Karnataka-Kerala coasts & Lakshadweep area; South & adjoining Central Bay of Bengal & south Andaman Sea, Gulf of Mannar and Tamil Nadu-south Andhra Pradesh coasts. Fishermen are advised not to venture into these areas

DISCLAIMER: Kreate Energy (I) Pvt. Ltd. has taken due care and caution in compilation and reporting of data as has been obtained from various sources including which it considers reliable and first hand. However, Kreate Energy (I) Pvt. Ltd. does not guarantee the accuracy, adequacy or completeness of any information and it not responsible for errors or omissions or for the results obtained from the use of such information and especially states that it has no financial liability whatsoever to the users of this report. This research and information does not constitute recommendation or advice for trading or investment purposes and therefore Kreate Energy (I) Pvt. Ltd. will not be liable for any loss accrued as a result of a trading/investment activity that is undertaken on the basis of information contained in this report.

© Kreate Energy (I) Pvt. Ltd. | All rights reserved

Thank You