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विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



Monthly Renewable Energy Generation Report
मासिक नवीकरणीय ऊर्जा उत्पादन
June , 2020

नवीकरणीय ऊर्जा परियोजना प्रबोधन प्रभाग
Renewable Energy Project Monitoring Division

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Table of Contents

Summary of report for the month of June ,2020	1
Highlights of RE generation during June , 2020.....	3
All India Summary of Renewable Generation	4
Renewable Energy Curtailment During June 2020.....	27
Renewable Energy To Transport Sector :.....	46

Table List :

Table 1 All India Summary of Renewable Energy Generation	4
Table 2 State Wise Renewable Energy Generation	9
Table 3 State Wise wind Power Generation	10
Table 4 State Wise Solar Power Generation	12
Table 5 State Wise Biomass Power Generation	14
Table 6 State Wise bagasse Power Generation	16
Table 7 State Wise Small Hydro Generation	18
Table 8 State Wise Other (Waste Heat etc) Power Generation	20
Table 9: Renewable Energy Generation by ISGS Stations	22
Table 10 Renewable Energy Generation by CPSU Owned stations	24
Table 11 RE Curtailment Data as available from SLDCs	26
Table 12 Deviation Data for ISGS	41
Table 13 Fossil and Non Fossil Generation	42
Table 14 Renewable Energy as % of Total Electricity Generated	44
Table 15 REWA Solar To Delhi Metro	46

List of Figures:

Figure 1 Renewable Energy Generation	1
Figure 2 RE capacity added during the Month	1
Figure 3 Installed Capacity in India as on 30.06.2020	2
Figure 4: Addition in RE Installed Capacity	2
Figure 5 Additional RE Generation during June ,20,	4
Figure 6 Month Wise Growth of RE Generation	5
Figure 7 Year Wise RE Generation	6
Figure 8 Month Wise RE Generation	6
Figure 9 Source wise breakup of Monthly RE Generation	7
Figure 10 Source wise breakup of Cumulative RE Generation	7
Figure 11 Monthly Energy Generation in India and RE Share	8
Figure 12 Cumulative Energy Generation in India and RE Share	8
Figure 13 Month Wise Wind Power Generation	11
Figure 14 Month wise Solar Power Generation	13
Figure 15 Month Wise Biomass Power Generation	15
Figure 16 Month wise bagasse Power Generation	17
Figure 17 Month wise Small Hydro Power Generation	19
Figure 18 Month Other RE (Waste Heat etc) Power Generation	21
Figure 19 Daily Solar and wind Power Generation trend	47

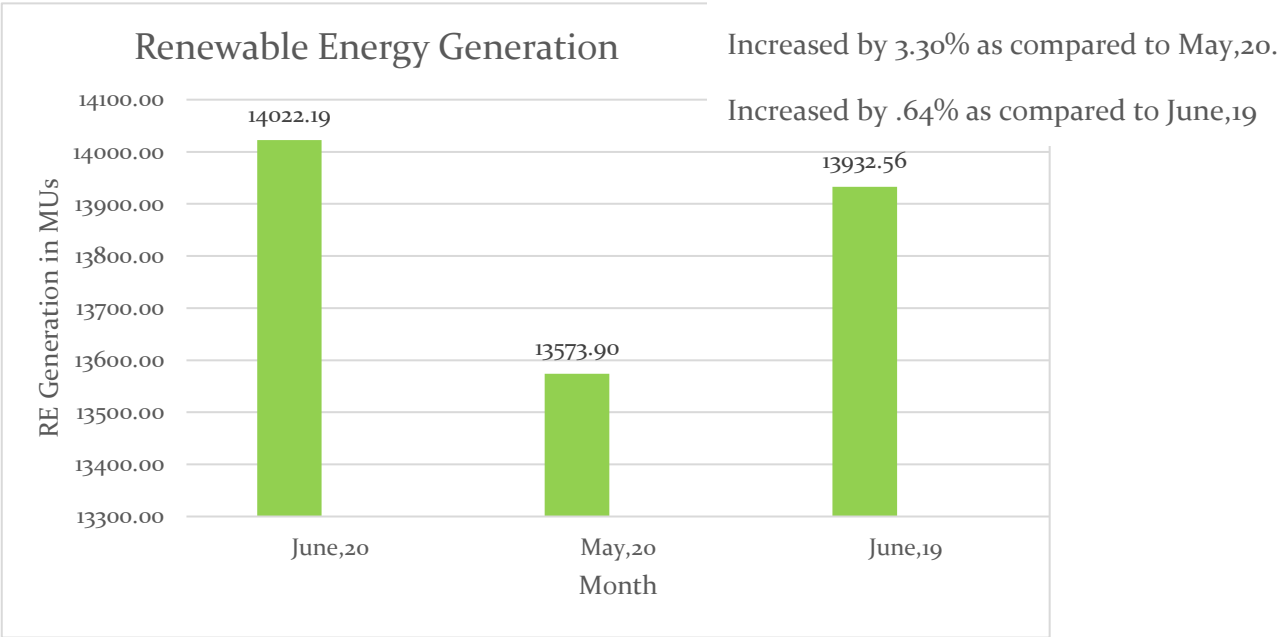


Figure 1 Renewable Energy Generation

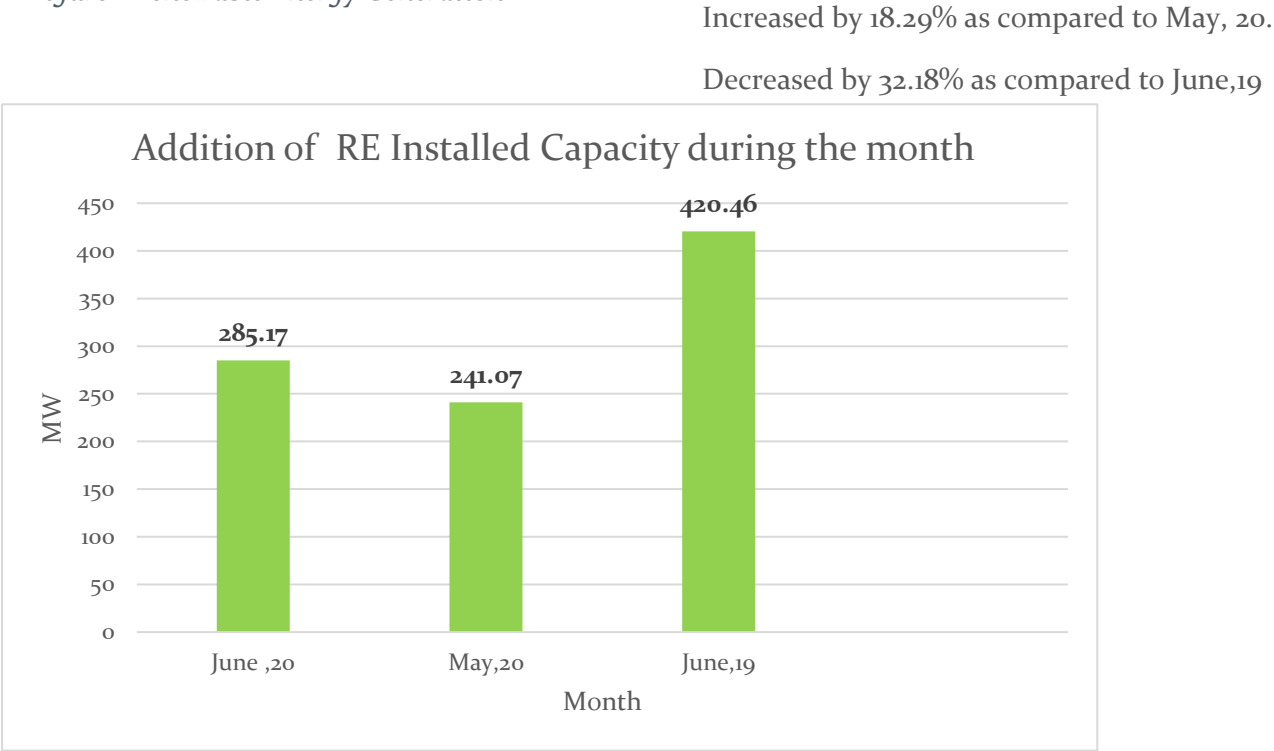


Figure 2 RE capacity added during the Month

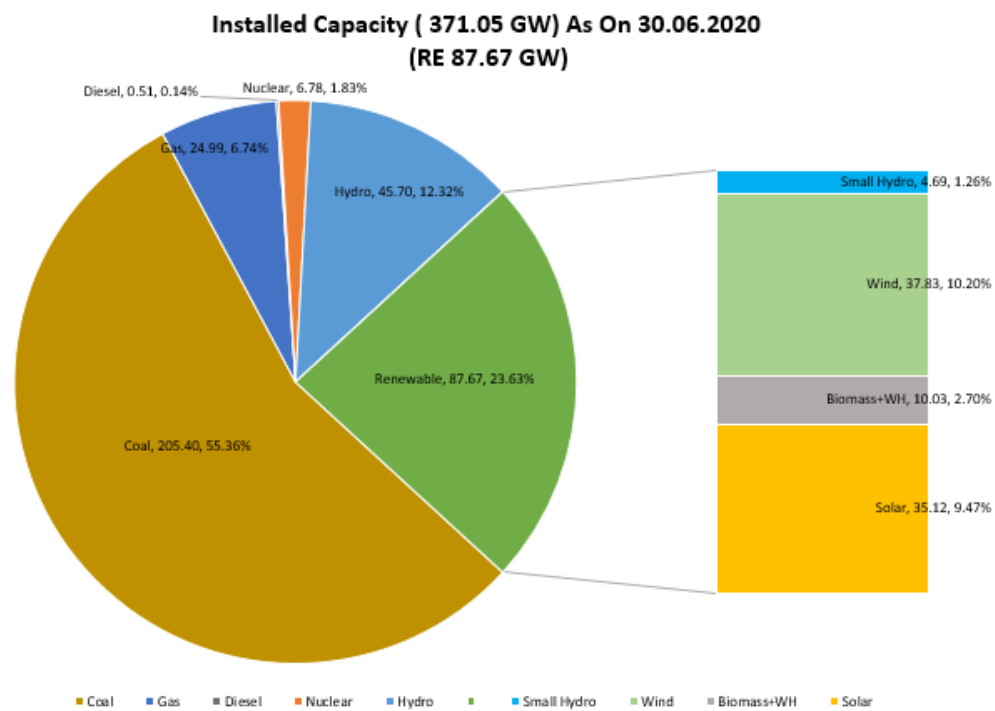


Figure 3 Installed Capacity in India as on 30.06.2020

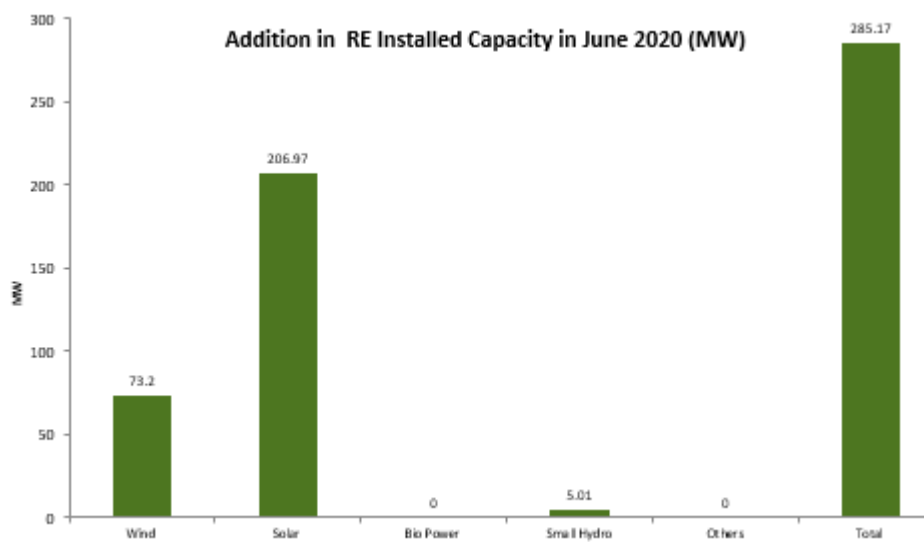


Figure 4: Addition in RE Installed Capacity in June 20.

HIGHLIGHTS OF RE GENERATION DURING JUNE, 2020

1. RE generation, grow by 0.64% in June 2020 as compare to June 2019.
2. Wind Power generation during the month of June , 2020 increased in Rajasthan and decreased in Gujarat, Madhya Pradesh ,Maharashtra , Tamil Nadu ,Andhra Pradesh and Karnataka as compared to June, 2019.
3. Daily wind generation decreases by 10.08 % as compared to June 2019 and increased by 30.79 % as compared to May, 2020.
4. Solar Power generation during the month of June 2020 increased in Rajasthan, Gujarat, Karnataka, Madhya Pradesh and Tamil Nadu and decreased in Punjab, Maharashtra, Andhra Pradesh and Telangana as compared to June , 2019.
5. Daily solar generation increased by 19.70% as compared to June 2019 and decreased by 13.26 % as compared to May , 2020.
6. Generation from Bagasse is not at the past year levels and lower in June 2020 in Punjab, Maharashtra, and West Bengal as compared to June 2019.

ALL INDIA SUMMARY OF RENEWABLE GENERATION

Table 1 All India Summary of Renewable Energy Generation

Source	Installed Capacity as on 30.6.2020(MW)	RE Generation(MU) June'2020	RE Generation(MU) June'2019	% of Last Year (2/3)	RE Generation (MU) April'2020-June 2020	RE Generation (MU) April'2019-June 2019	% Of Last Year (5/6)
	1	2	3	4	5	6	7
Wind	37829.55	7895.79	8781.15	89.92	17607.54	19092.38	92.22
Solar	35122.33	4706.21	3931.59	119.70	15666.54	12455.39	125.78
Biomass	9880.31	298.11	202.27	147.38	880.05	666.31	132.08
Bagasse		181.33	313.76	57.79	1681.06	2147.82	78.27
Small Hydro	4688.16	817.30	665.56	122.80	2280.03	1776.06	128.38
Others	148.84	123.46	38.23	322.89	193.19	106.38	181.61
Total	87669.19	14022.19	13932.56	100.64	38308.42	36244.34	105.69

Additional RE generation in June,20 as comparison to June ,19

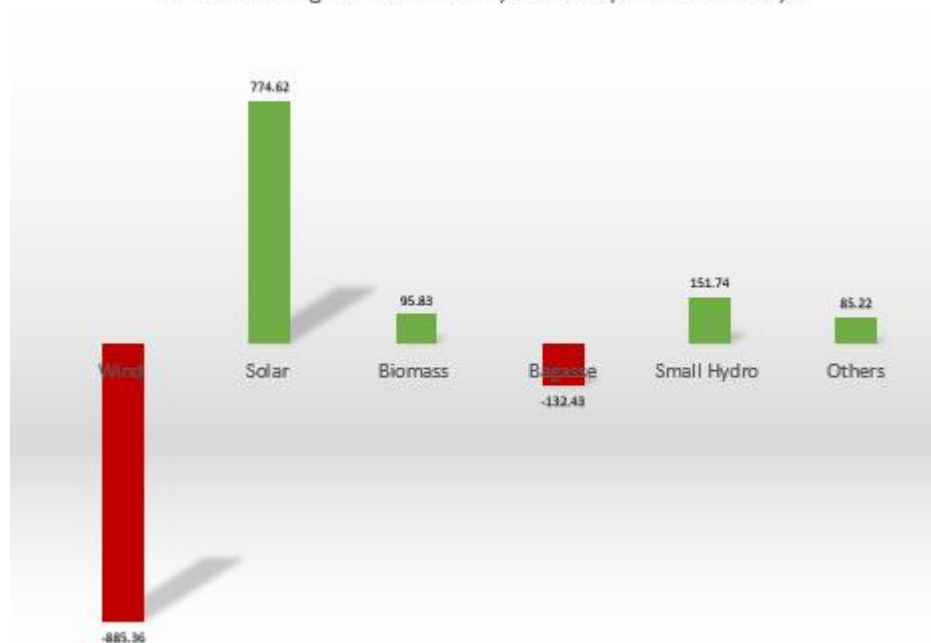


Figure 5 Additional RE Generation in June 20

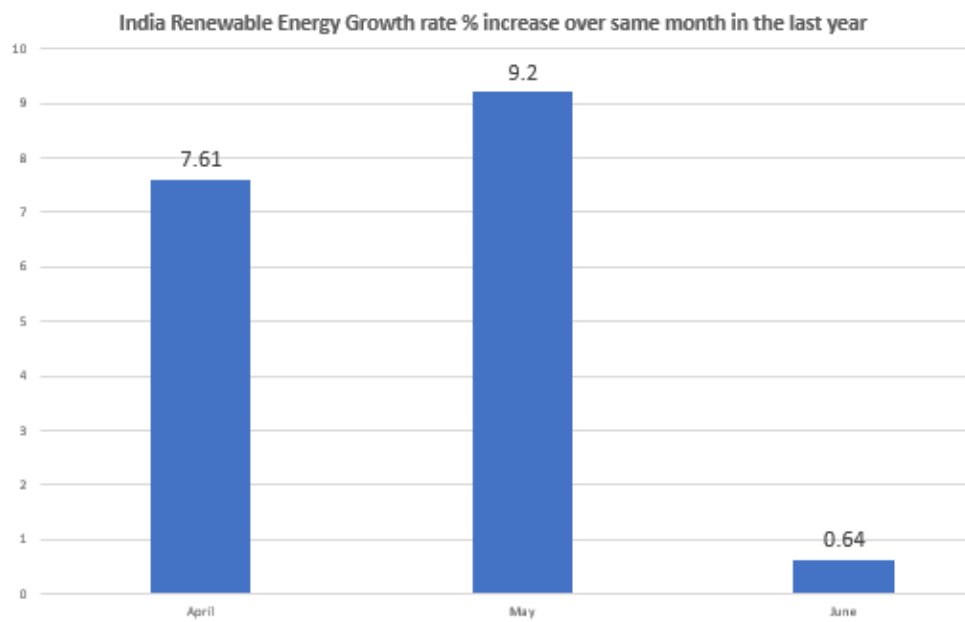


Figure 6 Month Wise Growth of RE Generation

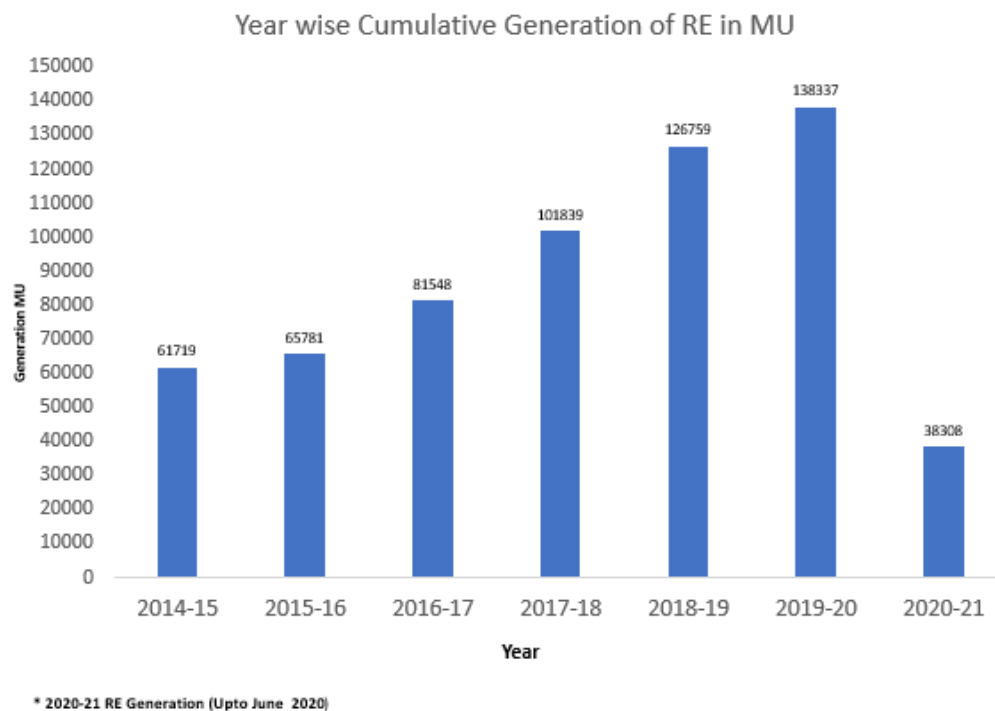


Figure 7 Year Wise RE Generation

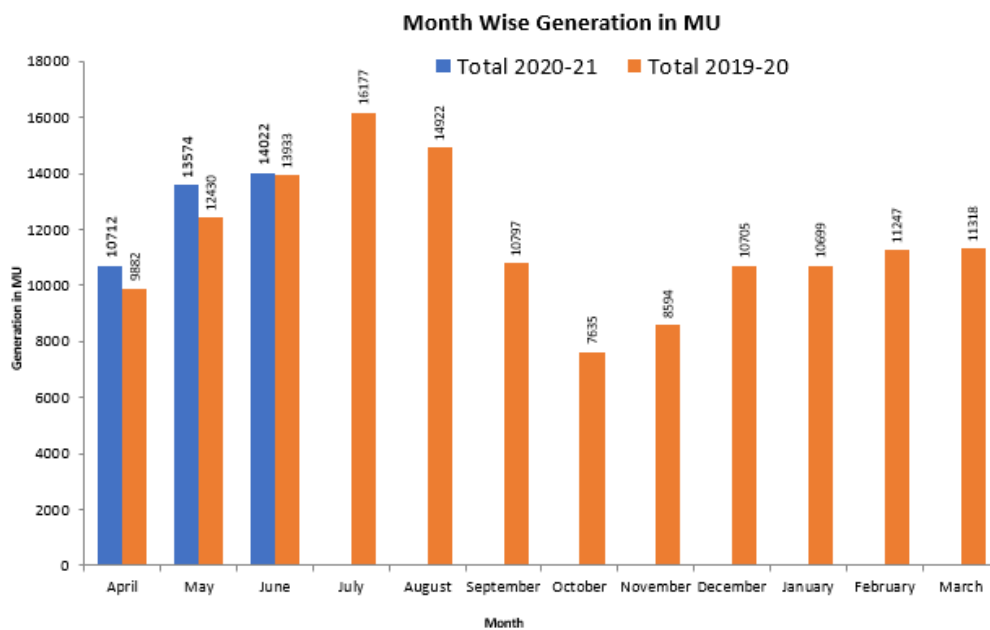


Figure 8 Month Wise RE Generation

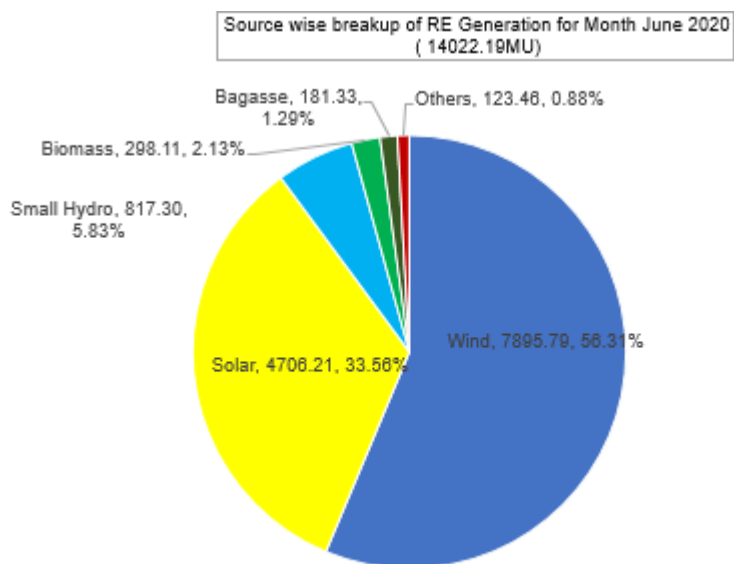


Figure 9 Source wise breakup of Monthly of RE Generation

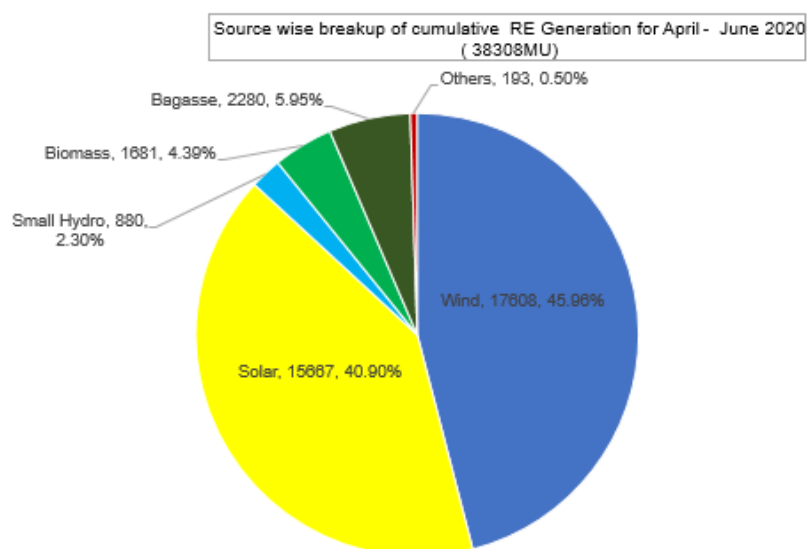


Figure 10 Source wise breakup of Cumulative of RE Generation

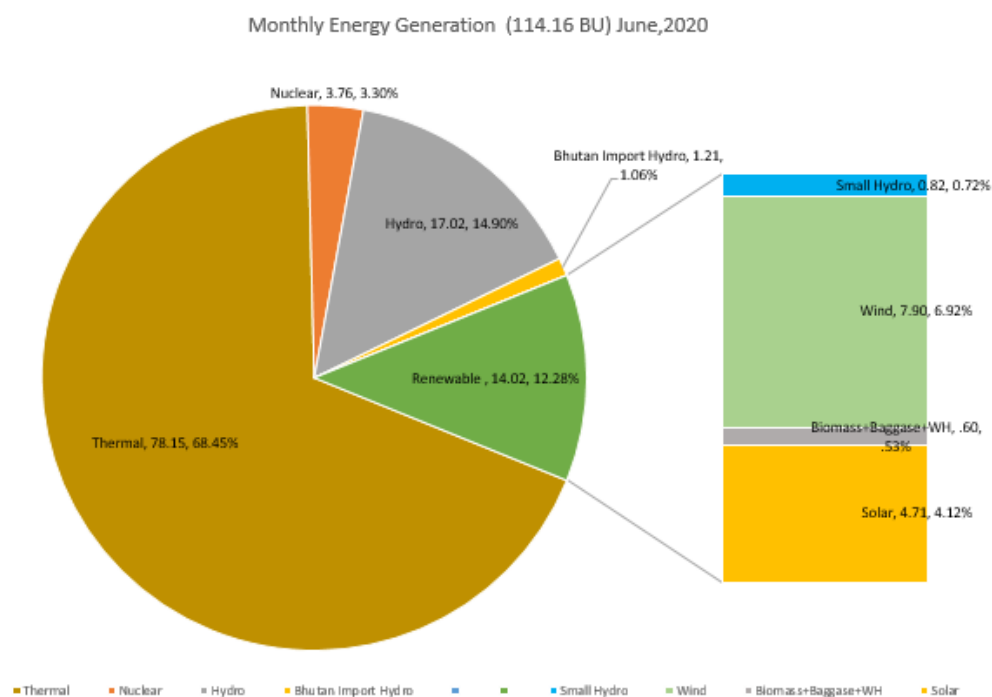


Figure 11 Monthly Energy Generation In India and RE Share

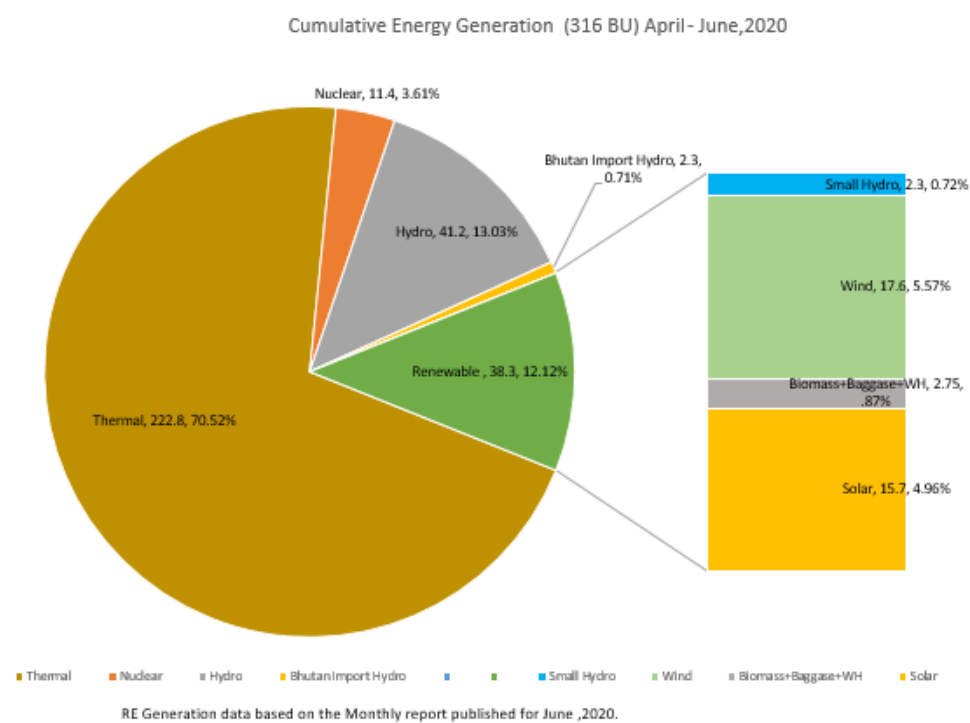


Figure 12 Cumulative Energy Generation In India and RE Share

Table 2 State Wise Renewable Energy Generation

Renewable Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	1.96	2.21	4.84	4.87
Delhi #	45.11	39.59	121.39	120.95
Haryana	55.85	52.64	190.99	166.71
HP	276.64	233.32	792.62	627.14
J & K	56.90	117.31	167.31	202.08
Ladakh	0.00	0.00	0.00	0.00
Punjab	260.84	288.72	745.83	803.60
Rajasthan	1780.50	1362.28	4861.65	3581.54
Uttar Pradesh	182.10	224.85	1359.86	1315.25
Uttarakhand	116.52	105.32	364.15	320.22
Northern Region	2776.41	2426.24	8608.65	7142.36
Chhattisgarh	139.30	54.98	410.72	183.60
Gujarat	1397.13	1776.75	5174.37	4851.13
Madhya Pradesh	771.27	843.14	2558.25	2565.79
Maharashtra	1100.79	1272.77	3217.62	3635.02
Dadra and Nagar Haveli	0.45	0.49	1.77	1.85
Daman & Diu	2.05	1.35	6.86	5.59
Goa	0.09	0.00	0.39	0.00
Western Region	3411.08	3949.48	11369.98	11242.97
Andhra Pradesh	1436.17	1687.68	3700.86	3951.03
Telangana	552.53	575.59	1844.69	1849.80
Karnataka	2490.66	1994.38	6376.23	5237.04
Kerala	70.98	47.41	202.49	141.33
Tamil Nadu	3090.09	2984.24	5631.77	5897.01
Lakshadweep	0.03	0.06	0.14	0.19
Puducherry *	0.37	0.27	1.11	0.81
Southern Region	7640.82	7289.62	17757.29	17077.21
Andaman Nicobar	1.69	1.22	3.88	5.57
Bihar *	16.97	21.15	50.89	73.67
Jharkhand	1.23	1.51	4.08	4.94
Orissa	54.13	83.43	189.02	243.22
Sikkim	5.80	5.34	11.66	11.57
West Bengal	95.72	137.86	266.94	395.20
DVC	0.00	0.00	0.00	0.01
Eastern Region	175.54	250.51	526.47	734.17
Arunachal Pradesh*	0.19	0.07	0.60	0.45
Assam	3.77	3.73	6.88	8.65
Manipur	0.48	0.00	1.35	0.35
Meghalaya *	3.03	3.11	9.09	11.00
Mizoram	3.37	3.38	6.89	10.97
Nagaland	7.17	5.04	16.08	8.44
Tripura	0.32	1.39	5.14	7.77
North Eastern Region	18.34	16.71	46.03	47.63
All India Total	14022.19	13932.56	38308.42	36244.34

Table 3 State Wise wind Power Generation

Wind Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	0.00	0.00	0.00	0.00
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	14.36	0.00	16.90
Rajasthan	842.58	723.94	1992.04	1738.18
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	842.58	738.30	1992.04	1755.08
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	1030.61	1487.12	3913.05	3888.41
Madhya Pradesh	450.60	536.45	1403.74	1558.17
Maharashtra	794.96	996.23	1909.20	2281.42
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	2276.17	3019.80	7225.99	7728.00
Andhra Pradesh	891.15	1133.54	1826.96	2216.90
Telangana	25.34	24.95	54.07	43.09
Karnataka	1342.06	1273.47	2539.69	2675.13
Kerala	18.23	16.29	34.36	34.93
Tamil Nadu	2500.27	2555.63	3934.42	4584.57
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	4777.04	5003.87	8389.51	9554.63
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	19.17	0.00	54.66
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	0.00	19.17	0.00	54.66
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	7895.79	8781.15	17607.54	19092.38

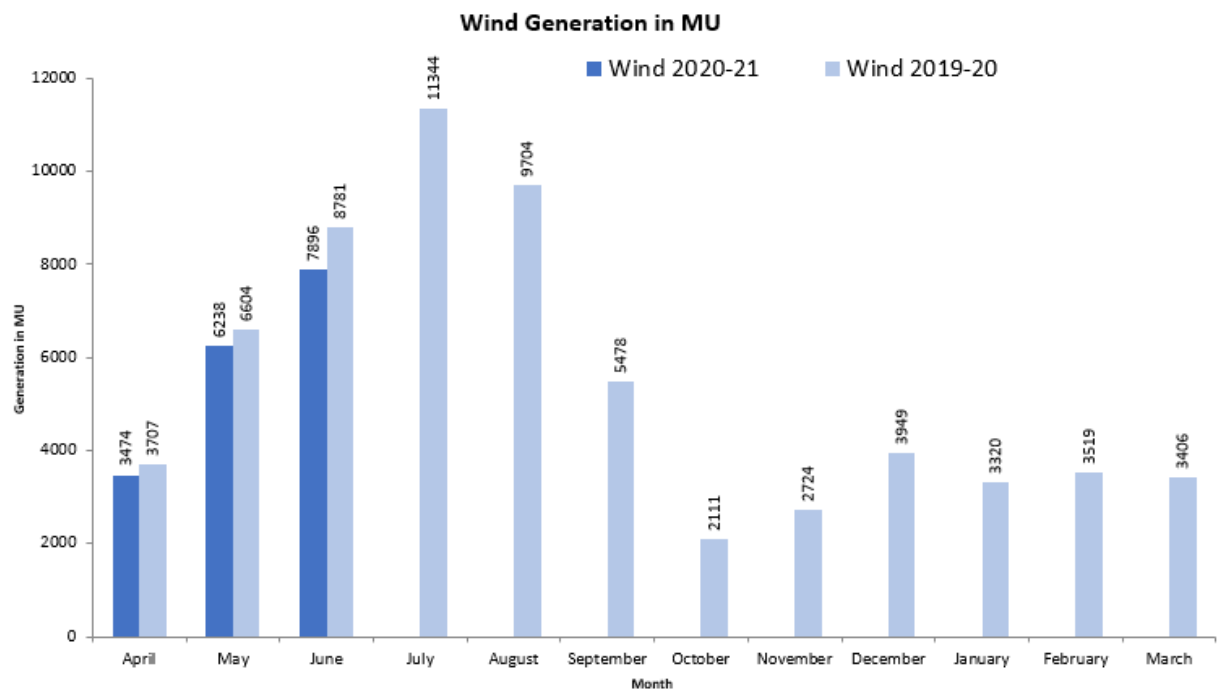


Figure 13 Month Wise Wind Power Generation

Table 4 State Wise Solar Power Generation

Solar Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	1.96	2.21	4.84	4.87
Delhi	21.79	14.42	50.99	43.98
Haryana	5.84	6.40	18.06	21.23
HP	3.12	0.00	9.56	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	128.87	145.13	402.09	439.06
Rajasthan	905.55	609.74	2767.34	1746.89
Uttar Pradesh	127.57	131.06	451.71	400.82
Uttarakhand	34.03	36.90	105.39	99.53
Northern Region	1228.73	945.86	3809.98	2756.38
Chhattisgarh	24.91	30.86	93.24	77.30
Gujarat	341.17	264.17	1186.43	896.63
Madhya Pradesh	303.74	299.11	1107.78	962.50
Maharashtra	189.68	191.49	689.08	673.85
Dadra and Nagar Haveli	0.45	0.49	1.77	1.85
Daman & Diu	1.78	1.35	6.60	5.59
Goa	0.09	0.00	0.39	0.00
Western Region	861.82	787.48	3085.28	2617.72
Andhra Pradesh	519.57	532.35	1791.76	1659.55
Telangana	502.21	540.91	1720.57	1770.34
Karnataka	1014.00	667.29	3477.42	2281.06
Kerala	11.10	9.18	40.09	31.92
Tamil Nadu	512.30	386.05	1548.76	1153.87
Lakshadweep	0.03	0.06	0.14	0.19
Puducherry	0.37	0.27	1.11	0.81
Southern Region	2559.59	2136.10	8579.85	6897.74
Andaman Nicobar	1.01	1.17	2.80	4.76
Bihar	16.26	17.36	48.78	37.94
Jharkhand	1.23	1.51	4.08	4.94
Orissa	31.80	35.71	113.93	114.11
Sikkim	0.00	0.00	0.00	0.00
West Bengal	4.39	5.38	17.59	17.99
DVC	0.00	0.00	0.00	0.01
Eastern Region	54.69	61.13	187.16	179.76
Arunachal Pradesh	0.15	0.02	0.46	0.22
Assam	0.41	0.43	1.13	1.29
Manipur	0.48	0.00	1.35	0.35
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.02	0.03	0.08	0.11
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.32	0.54	1.26	1.82
North Eastern Region	1.37	1.02	4.27	3.79
All India Total	4706.21	3931.59	15666.54	12455.39

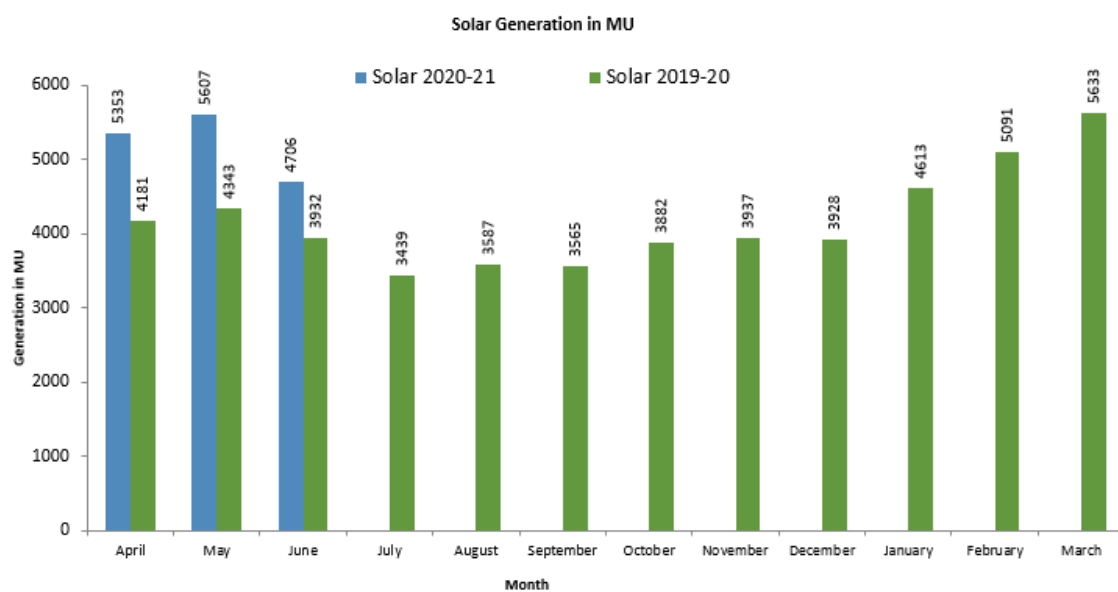


Figure 14 Month wise Solar Power Generation

Table 5 State Wise Biomass Power Generation

Biomass Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	14.16	16.27	42.85	48.07
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	47.46	30.62	138.20	89.88
Rajasthan	32.15	28.44	101.84	96.29
Uttar Pradesh	5.07	6.97	50.80	28.86
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	98.83	82.30	333.68	263.10
Chhattisgarh	101.36	20.55	285.91	97.05
Gujarat	10.76	8.15	29.48	27.28
Madhya Pradesh	0.00	0.14	0.00	0.57
Maharashtra	27.32	33.53	70.21	105.07
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.26	0.00	0.26	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	139.71	62.37	385.86	229.96
Andhra Pradesh	10.25	14.83	30.54	42.86
Telangana	13.35	8.63	43.00	28.74
Karnataka	18.14	16.39	43.75	47.52
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	15.87	10.40	28.59	29.41
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	57.60	50.25	145.88	148.53
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.71	1.56	2.12	4.64
Jharkhand	0.00	0.00	0.00	0.00
Orissa	1.26	5.80	12.51	20.08
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	1.97	7.36	14.63	24.72
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	298.11	202.27	880.05	666.31

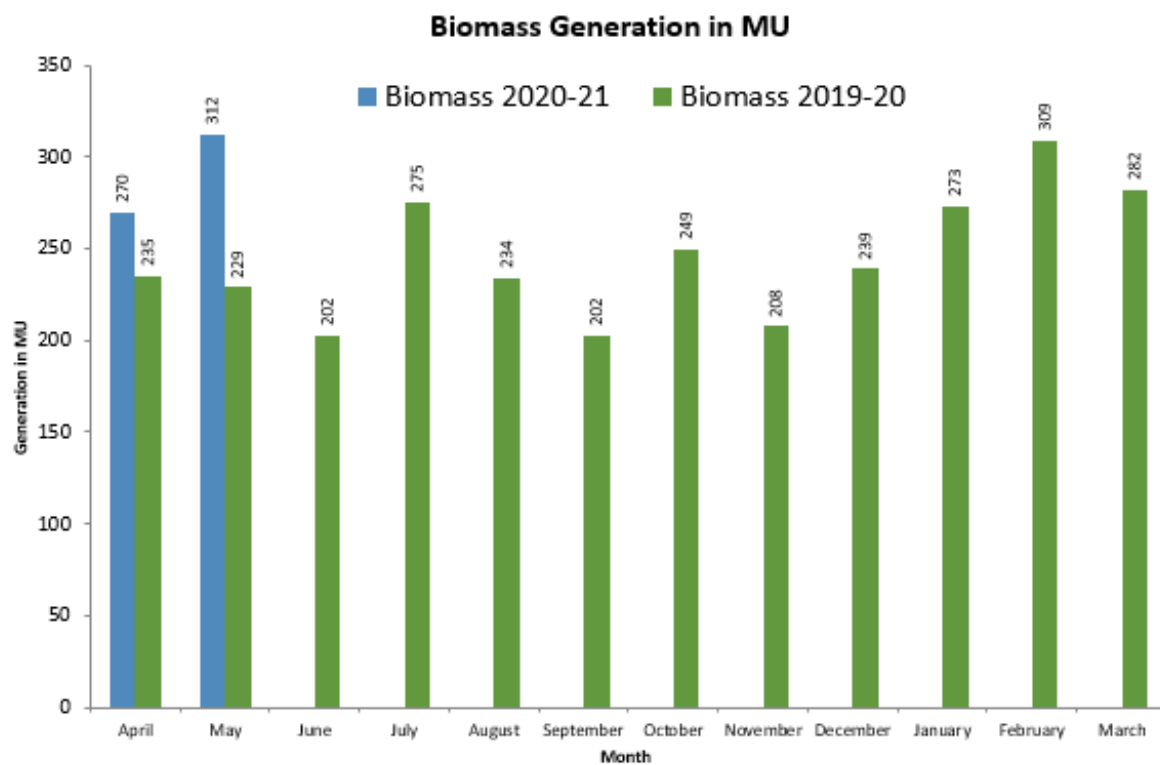


Figure 15 Month Wise Biomass Power Generation

Table 6 State Wise bagasse Power Generation

Bagasse Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	6.47	0.00	39.78	16.06
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	6.95	21.70	21.19	84.65
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	42.53	83.49	836.97	873.61
Uttarakhand	0.00	0.00	29.23	13.88
Northern Region	55.95	105.19	927.16	988.19
Chhattisgarh	0.18	0.00	5.08	0.00
Gujarat	0.00	0.00	2.39	3.19
Madhya Pradesh	0.00	0.00	0.00	10.68
Maharashtra	36.84	40.91	342.20	480.46
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	37.01	40.91	349.67	494.34
Andhra Pradesh	1.65	2.43	7.79	14.95
Telangana	0.00	0.00	0.00	4.12
Karnataka	22.99	6.72	132.76	131.30
Kerala	4.19	0.00	10.00	0.00
Tamil Nadu	59.55	31.00	104.94	121.84
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	88.37	40.15	255.49	272.21
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	2.23	0.00	31.09
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	125.28	148.73	362.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	0.00	127.51	148.73	393.09
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	181.33	313.76	1681.06	2147.82

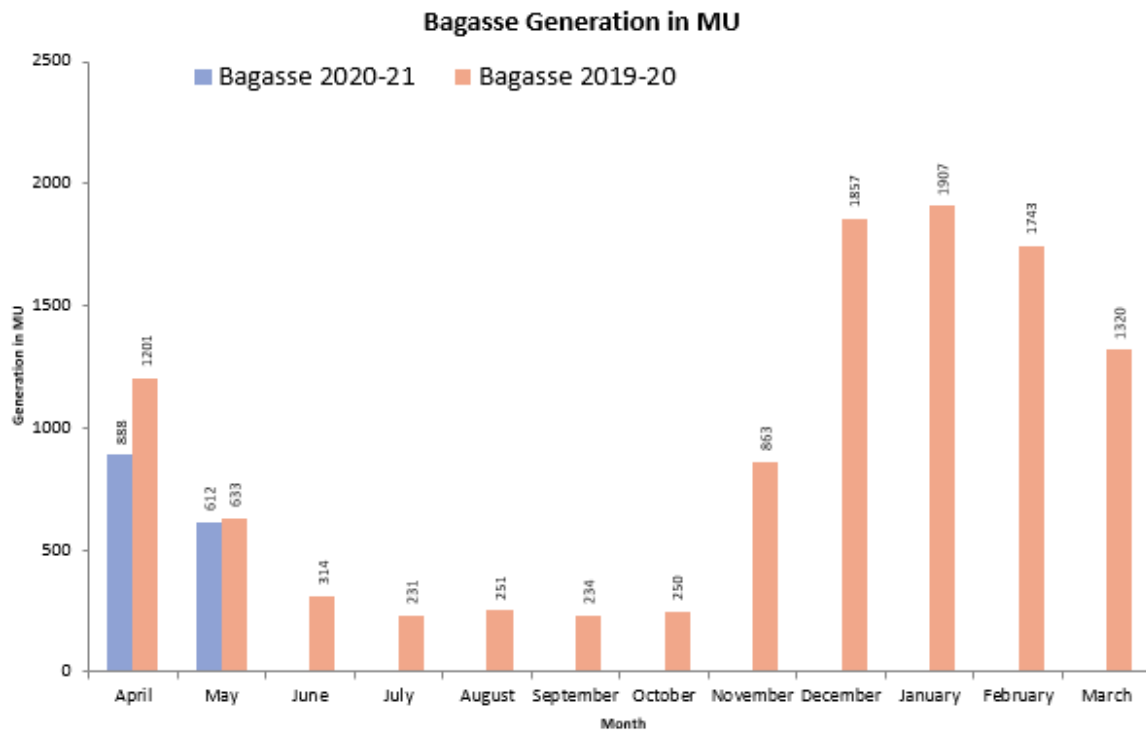


Figure 16 Month wise bagasse Power Generation

Table 7 State Wise Small Hydro Generation

Small Hydro Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	29.39	29.97	90.31	81.36
HP	273.53	233.32	783.06	627.14
J & K	56.90	117.31	167.31	202.08
Ladakh	0.00	0.00	0.00	0.00
Punjab	77.56	76.89	184.34	173.09
Rajasthan	0.22	0.16	0.43	0.17
Uttar Pradesh	6.92	3.33	20.39	11.97
Uttarakhand	82.49	68.42	229.53	206.81
Northern Region	527.01	529.40	1475.37	1302.61
Chhattisgarh	12.85	3.57	26.49	9.25
Gujarat	11.90	9.00	37.04	19.54
Madhya Pradesh	14.33	4.51	38.46	25.73
Maharashtra	51.98	10.47	206.89	93.83
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	91.06	27.55	308.89	148.34
Andhra Pradesh	13.23	3.96	43.05	15.01
Telangana	3.27	0.00	5.47	0.49
Karnataka	93.47	30.51	182.60	102.03
Kerala	37.46	21.94	118.04	74.47
Tamil Nadu	2.10	1.16	15.06	7.32
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	149.54	57.57	364.23	199.32
Andaman Nicobar	0.68	0.04	1.08	0.81
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	21.07	22.75	62.59	54.37
Sikkim	5.80	5.34	11.66	11.57
West Bengal	5.17	7.21	14.47	15.21
DVC	0.00	0.00	0.00	0.00
Eastern Region	32.72	35.35	89.80	81.95
Arunachal Pradesh	0.04	0.05	0.14	0.22
Assam	3.37	3.30	5.75	7.36
Manipur	0.00	0.00	0.00	0.00
Meghalaya	3.03	3.11	9.09	11.00
Mizoram	3.35	3.34	6.81	10.86
Nagaland	7.17	5.04	16.08	8.44
Tripura	0.00	0.85	3.88	5.95
North Eastern Region	16.97	15.69	41.75	43.83
All India Total	817.30	665.56	2280.03	1776.06

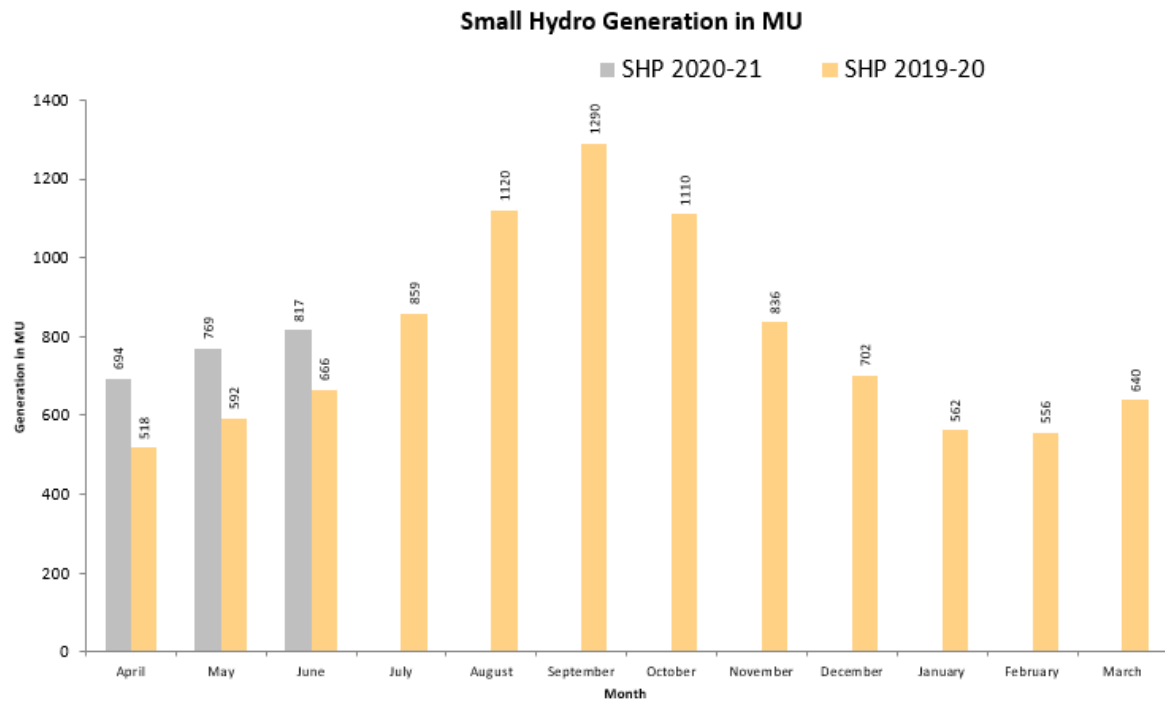


Figure 17 Month wise Small Hydro Power Generation

Table 8 State Wise Other (Waste Heat etc) Power Generation

Other Energy Generation (State Wise) for the month of June ,2020				
State	June,2020	June,2019	April 2020 - June, 2020	April, 2019- June, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	23.32	25.18	70.40	76.97
Haryana	0.00	0.00	0.00	0.00
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	0.02	0.01	0.02
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	23.32	25.20	70.41	76.99
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	2.70	8.31	5.99	16.07
Madhya Pradesh	2.60	2.92	8.27	8.14
Maharashtra	0.01	0.13	0.03	0.39
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	5.31	11.37	14.29	24.60
Andhra Pradesh	0.32	0.56	0.76	1.77
Telangana	8.36	1.11	21.58	3.02
Karnataka	0.00	0.00	0.00	0.00
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	8.68	1.67	22.34	4.78
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
West Bengal	86.15	0.00	86.15	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	86.15	0.00	86.15	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	123.46	38.23	193.19	106.38

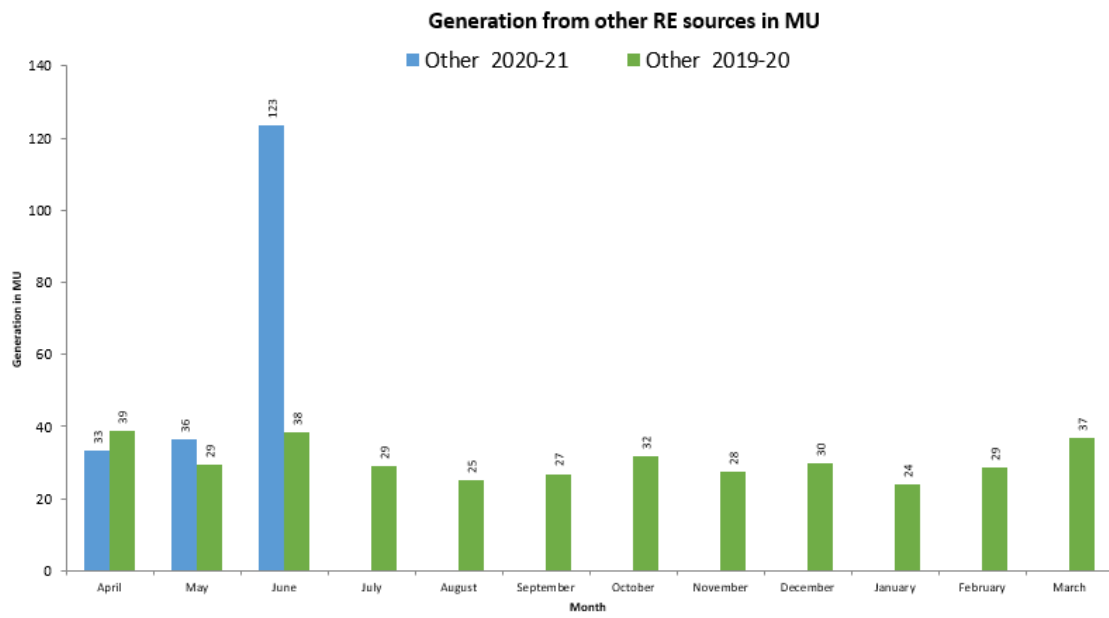


Figure 18 Month Other RE (Waste Heat etc) Power Generation

Table 9: Renewable Energy Generation by ISGS Stations

Monthly RE generation from Inter state Generating Station (ISGS) for June , 2020							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF
DADRI SOLAR	Uttar Pradesh	Central	NTPC	Solar	5	0.60	17%
SINGRAULI SOLAR	Uttar Pradesh	Central	NTPC	Solar	15	1.45	13%
UNCHAHAHAR SOLAR	Uttar Pradesh	Central	NTPC	Solar	10	1.06	15%
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Rajasthan	Private		IPP	50	11.00	31%
MAHOBA SOLAR (UP) PRIVATE LTD	Rajasthan		IPP	Solar	200	44.83	31%
ACME CHITTORGARH ENERGY PVT LTD	Rajasthan	Private	IPP	Solar	250	44.42	25%
AZURE POWER INDIA PVT LTD	Rajasthan	Private	IPP	Solar	200	40.18	28%
AZURE POWER THIRTY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	130	29.26	31%
CLEAN SOLAR POWER (BHADLA) PVT LDT	Rajasthan	Private	IPP	Solar	300	68.17	32%
RENEW SOLAR POWER PVT LTD	Rajasthan	Private	IPP	Solar	50	11.72	33%
RENEW SOLAR POWER PVT LTD. BIKANER	Rajasthan	Private	IPP	Solar	250	51.07	28%
SB ENERGY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	200	42.93	30%
TATA POWER RENEWABLE ENERGY LTD	Rajasthan	Private	IPP	Solar	150	31.79	29%
Northern Region*					1810	378.48	31%
ACME SOLAR (RAMNAGAR)	Madhya Pradesh	Private	IPP	Solar	250	33.97	19%
ARINSUN SOLAR (BARSAITADESH)	Madhya Pradesh	Private	IPP	Solar	250	34.62	19%
MAHINDRA SOLAR (BADWAR)	Madhya Pradesh	Private	IPP	Solar	250	36.06	20%
RENEW SOLAR (BHUVAD)	Gujarat	Private	IPP	Solar	250	45.31	25%
GIWEL-II WIND (VADVA)	Gujarat	Private	IPP	Wind	250	46.53	26%
GIWEL-III WIND (NARANPAR)	Gujarat	Private	IPP	Wind	300	55.64	26%
ADANI GREEN ENERGY MP LTD(DAYAPAR)	Gujarat	Private	IPP	Wind	176.6	40.81	32%
IWISL WIND (DAYAPAR)	Gujarat	Private	IPP	Wind	250	30.00	17%
OSTRO WIND (KUTCH)	Gujarat	Private	IPP	Wind	250	50.27	28%

Western Region					2226.6	373.21	
GREEN INFRA	Tamil Nadu	Private	IPP	Wind	250	93.84	52%
ORANGE	Tamil Nadu	Private	IPP	Wind	200	76.94	53%
MYTRA	Tamil Nadu	Private	IPP	Wind	250	60.82	34%
BEETAM (TITUCORIN)	Tamil Nadu	Private	IPP	Wind	50	21.78	61%
Southern Region					750	253.38	
Total					4786.6	1005.07	

Table 10 Renewable Energy Generation by CPSU Owned stations

Renewable Energy Generation Data (CPSU Wise) for June 2020						
CPSU	State	Installed Capacity (MW)	Source	Actual Generation (MU)	Cumulative Generation (MU)	Monthly CUF(%)
				June ,2020	April 2020 to June 2020	
NTPC						
NTPC Faridabad_Solar	Haryana	5	Solar	0.60	1.95	16.67
NTPC Bhadla	Rajasthan	260	Solar	40.35	119.92	21.55
NTPC Dadri_Solar	Uttar Pradesh	5	Solar	0.60	1.92	16.67
NTPC Unchahar_Solar	Uttar Pradesh	10	Solar	1.06	3.99	14.72
NTPC Singrauli_Solar	Uttar Pradesh	15	Solar	1.45	5.77	13.43
NTPC Singrauli_SH	Uttar Pradesh	8	Small Hydro	3.06	8.09	53.13
NTPC Rojmal	Gujarat	50	Wind	5.02	20.24	13.94
NTPC Rajgarh_Solar	Madhya Pradesh	50	Solar	6.06	21.33	16.83
NTPC Mandsaur	Madhya Pradesh	250	Solar	31.95	108.15	17.75
NTPC Anantapuram	Andhra Pradesh	250	Solar	29.08	103.23	16.16
NTPC Ramagundam	Telangana	10	Solar	1.13	4.24	15.69
NTPC Andaman Nicobar	Andaman Nicobar	5	Solar	0.37	1.18	10.28
NTPC Talchar_Solar	Orissa	10	Solar	0.99	3.65	13.75
Total NTPC		928		121.72	403.67	
THDC						
THDC Patan Wind Power Project	Gujarat	50	Wind	8.13	23.56	22.58
THDC Devbhumi Dwarka Wind Power Project	Gujarat	63	Wind	10.33	35.40	22.77
THDC Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24	Small Hydro	0.29	7.81	1.68
Total THDC		137		18.75	58.96	
NHPC						
NHPC Wind Power Project	Rajasthan	50	Wind	8.21	18.01	
NHPC Solar Power Project	Tamil Nadu	50	Solar	8.46	27.01	23.49
Total NHPC		100		16.67	45.01	
ONGC						
ONGC Wind, Bhuj	Gujarat	51	Wind	5.53	20.80	15.06
ONGC Wind, Jaisalmer	Rajasthan	102	Wind	20.49	44.56	27.90
ONGC Solar, Goa	Goa	1	Solar	0.09	0.38	12.50
ONGC Solar, Hazira	Gujarat	10	Solar	1.15	4.18	15.96
ONGC Solar, Ankleshwar	Gujarat	5	Solar	0.68	2.24	18.86

ONGC Solar,Rajahmundry	Andhra Pradesh	1	Solar	0.10	0.35	13.33
ONGC Solar, Rooftop (RTS) Gujarat	Gujarat	4.232	Solar	0.37	1.20	12.01
ONGC Solar, Assam (RTS)	Assam	1.645	Solar	0.14	0.45	11.82
ONGC Solar, Uttarakhand (RTS)	Uttarkhand	1.236	Solar	0.12	0.41	13.93
ONGC Solar, Agartala asset	Tripura	0.247	Solar	0.02	0.27	9.56
ONGC Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.285	Solar	0.003	0.01	1.46
ONGC Solar, Cauvery Assest Karaikal	Maharashtra	0.015	Solar	0.0003	0.00	2.78
ONGC Solar,DDU Bhawan, (Under Maintenance)	Goa	0.25	Solar	0.00	0.00	0.00
Total ONGC		177.91		28.68	74.85	
SJVN Limited						
Khirvire Wind Power	Maharashtra	47.6	Wind	5.99	15.70	17.49
Sadla Wind Power	Gujarat	50	Solar	7.38	19.80	20.49
Charanka Solar Power	Gujarat	5.6	Solar	0.67	2.31	16.57
Total SJVN		103.2		14.04	37.81	
Oil India Ltd						
Oil India Ltd	Rajasthan	14	Solar	2.22	6.58	22.02
Oil India Ltd	Rajasthan	67.6	Wind	9.33	21.00	19.17
Oil India Ltd	Gujarat	43.3	Wind	7.71	19.41	24.73
Oil India Ltd	Madhya Pradesh	63.2	Wind	12.06	42.33	26.50
Total Oil India Ltd		188.1		31.32	89.32	
NEEPCO	Tripura	5	Solar	0.30	1.30	
All India		1615.21		231.48	710.92	
Generation of CPSU owned RE generating stations is shown in respective state according to physical location so their generation should not be considered additional generation.						

RENEWABLE ENERGY CURTAILMENT DURING JUNE 2020,

(As Available on SLDCs web site or informed by respective SLDC)

Table 11 RE Curtailment Data as available from SLDCs

Renewable Energy Curtailment for the month of June-2020			
S.No	States	Curtailment (MU)	Source
1.	Andhra Pradesh	*	APTRANSCO Website- http://apps.aptransco.co.in/sldcreports/forms/BackDownWind.aspx
2.	Telangana	0	Information furnished by SLDC, TSTransco through email.
3.	Tamil Nadu	-	No information is available on website.
4.	Karnataka	0	SLDC, KPTCL Website- http://kptclslcd.com/recurtail.aspx
5.	Maharashtra	-	No information is available on website.
6.	Gujarat	-	No information is available on website.
7.	Rajasthan	0	SLDC, RRVPNL Website- https://slcd.rajasthan.gov.in/mis/monthlyReDsmReports
8.	Madhya Pradesh	0	SLDC, MP Power Transmission Corporation Ltd.- http://223.31.122.117/mpslcd/RE_DATA

*Curtailment detail of Andhra Pradesh given in MW is enclosed below:

Solar Power curtailment of Andhra Pradesh as given below:

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
01-06-2020	54	13:28:00	300	300	1795	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
01-06-2020	58	14:25:00	-300	0	1570	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	38	09:28:00	150	150	1423	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	40	09:55:00	200	350	1615	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	40	09:56:00	100	100	1614	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-06-2020	43	10:34:00	-100	0	1368	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-06-2020	44	10:47:00	-150	200	1433	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	44	10:52:00	-200	0	1564	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	54	13:28:00	200	200	1810	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	55	13:31:00	100	100	1900	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-06-2020	55	13:31:00	100	100	1900	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
03-06-2020	57	14:13:00	100	300	1383	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	59	14:42:00	-200	100	1032	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-06-2020	59	14:43:00	-100	0	1042	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-06-2020	59	14:44:00	-100	0	1050	Released to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
03-06-2020	60	14:50:00	-100	0	1011	Released to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	34	08:22:00	200	200	1089	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	34	08:25:00	100	100	1122	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
04-06-2020	36	08:58:00	-100	0	1029	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
04-06-2020	38	09:16:00	-100	100	1285	Released to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	41	10:00:00	100	200	1678	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	41	10:01:00	100	100	1698	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
04-06-2020	42	10:15:00	50	50	1641	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
04-06-2020	42	10:16:00	100	100	1540	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
04-06-2020	45	11:09:00	200	400	1399	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	53	13:10:00	-200	200	1048	Released to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	53	13:13:00	-100	0	1044	Released to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
04-06-2020	56	13:57:00	-100	0	1267	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
04-06-2020	57	14:06:00	-200	0	1089	Released to maintain grid security as per IEGC regulation (At Ghani SS)

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
04-06-2020	57	14:08:00	-50	0	1165	Released to maintain grid security as per IEGC regulation (At distributed Solar in percentage)
04-06-2020	59	14:40:00	200	200	1562	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
04-06-2020	65	16:07:00	-200	0	830	Released to maintain grid security as per IEGC regulation(At Ghani SS)
07-06-2020	32	07:55:00	200	200	740	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
07-06-2020	38	09:21:00	100	300	1258	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
07-06-2020	45	11:06:00	-100	200	1420	Released to maintain grid security as per IEGC regulation(At Ghani SS)
07-06-2020	46	11:29:00	100	300	1676	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
07-06-2020	47	11:34:00	100	400	1640	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
07-06-2020	47	11:38:00	100	100	1542	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
07-06-2020	51	12:38:00	-100	0	1263	Released to maintain grid security as per IEGC regulation(At Talaricheruvu SS)
07-06-2020	52	12:49:00	50	50	1452	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
07-06-2020	52	13:00:00	-200	200	1353	Released to maintain grid security as per IEGC regulation(At Ghani SS)
07-06-2020	53	13:10:00	-100	100	1405	Released to maintain grid security as per IEGC regulation(At Ghani SS)
07-06-2020	56	13:51:00	-100	0	1436	Released to maintain grid security as per IEGC regulation(At Ghani SS)
07-06-2020	60	14:48:00	-50	0	1430	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
11-06-2020	47	11:32:00	200	200	1265	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-06-2020	47	11:33:00	100	100	1264	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-06-2020	48	11:54:00	-100	100	798	Released to maintain grid security as per IEGC regulation (At Ghani SS)
11-06-2020	48	11:54:00	-100	0	798	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-06-2020	49	12:01:00	-100	0	790	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	41	10:02:00	200	200	931	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	42	10:20:00	-200	0	1313	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	46	11:20:00	200	200	1003	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	46	11:21:00	100	100	998	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-06-2020	53	13:04:00	200	400	1109	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	53	13:04:00	150	150	1105	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
12-06-2020	55	13:30:00	-100	300	775	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	56	13:59:00	200	500	875	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	58	14:17:00	-300	200	706	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-06-2020	58	14:24:00	-100	0	718	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-06-2020	58	14:28:00	-150	0	713	Released to maintain grid security as per IEGC regulation(At Talaricheruvu SS)

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
12-06-2020	59	14:30:00	-200	0	680	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	32	07:50:00	200	200	670	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	34	08:25:00	100	100	760	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-06-2020	34	08:25:00	100	100	760	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
13-06-2020	35	08:30:00	50	50	777	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
13-06-2020	36	08:48:00	200	400	695	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	40	09:48:00	-100	300	670	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	42	10:26:00	300	600	916	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	42	10:26:00	100	200	916	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
13-06-2020	43	10:30:00	50	100	965	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
13-06-2020	48	11:53:00	-100	500	473	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	49	12:10:00	-300	200	456	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	52	12:55:00	-100	100	733	Released to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
13-06-2020	52	12:58:00	-100	0	700	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-06-2020	55	13:35:00	-50	50	1014	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
13-06-2020	55	13:42:00	-200	0	885	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-06-2020	55	13:42:00	-100	0	885	Released to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
13-06-2020	56	13:50:00	-50	0	843	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
14-06-2020	47	11:33:00	200	200	1536	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
14-06-2020	47	11:37:00	50	50	1577	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
14-06-2020	58	14:18:00	-200	0	1033	Released to maintain grid security as per IEGC regulation (At Ghani SS)
14-06-2020	61	15:12:00	-50	0	1035	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
17-06-2020	50	12:29:00	200	200	1393	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
17-06-2020	51	12:37:00	100	300	1418	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
17-06-2020	58	14:22:00	-300	0	1155	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	41	10:00:00	300	300	1772	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	41	10:01:00	200	200	1779	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
20-06-2020	41	10:01:00	150	150	1779	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
20-06-2020	41	10:02:00	50	50	1788	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
20-06-2020	41	10:12:00	200	500	1522	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	44	10:47:00	200	700	1009	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	44	10:48:00	100	300	1011	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
20-06-2020	48	11:48:00	-100	200	766	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
20-06-2020	48	11:49:00	-150	0	752	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
20-06-2020	49	12:11:00	-200	0	983	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
20-06-2020	50	12:21:00	-100	600	1063	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	53	13:07:00	-200	400	1140	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	54	13:26:00	-200	200	1244	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	56	13:49:00	-100	100	1593	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	56	13:56:00	-100	0	1612	Released to maintain grid security as per IEGC regulation (At Ghani SS)
20-06-2020	56	13:57:00	-50	0	1603	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
21-06-2020	41	10:02:00	200	200	1542	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
21-06-2020	41	10:02:00	100	100	1542	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
21-06-2020	44	10:55:00	-200	0	1232	Released to maintain grid security as per IEGC regulation (At Ghani SS)
21-06-2020	44	10:55:00	-100	0	1232	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
21-06-2020	51	12:40:00	200	200	1287	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
21-06-2020	53	13:01:00	100	100	1190	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
21-06-2020	53	13:01:00	100	100	1190	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
21-06-2020	53	13:01:00	50	50	1190	Curtailed to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
21-06-2020	56	13:54:00	-200	0	831	Released to maintain grid security as per IEGC regulation (At Ghani SS)
21-06-2020	56	13:54:00	-100	0	831	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
21-06-2020	56	13:54:00	-100	0	831	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
21-06-2020	56	13:54:00	-50	0	831	Released to maintain grid security or safety as per IEGC regulation (at Distributed stations in percentage)
30-06-2020	39	09:36:00	200	200	1540	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
30-06-2020	39	09:36:00	100	100	1540	Curtailed to maintain grid security as per IEGC regulation (At Thalaricheruvu SS)
30-06-2020	42	10:19:00	-200	0	1265	Released to maintain grid security as per IEGC regulation (At Ghani SS)
30-06-2020	42	10:19:00	-100	0	1265	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)

Wind Power Curtailment detail of Andhra Pradesh:

Date	Bloc k No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
01-06-2020	78	19:17:00	20	20	992	Curtailed to maintain grid security as per IEGC regulation (in percentage)
01-06-2020	80	19:57:00	-20	0	802	Released to maintain grid security as per IEGC regulation (in percentage)
01-06-2020	82	20:18:00	10	10	1211	Curtailed to maintain grid security as per IEGC regulation (in percentage)
01-06-2020	83	20:40:00	-10	0	834	Released to maintain grid security as per IEGC regulation (in percentage)
02-06-2020	88	21:46:00	20	20	1078	Curtailed to maintain grid security as per IEGC regulation (in percentage)
02-06-2020	89	22:01:00	-20	0	839	Released to maintain grid security as per IEGC regulation (in percentage)
02-06-2020	93	23:06:00	20	20	1015	Curtailed to maintain grid security as per IEGC regulation (in percentage)
02-06-2020	94	23:29:00	30	50	908	Curtailed to maintain grid security as per IEGC regulation (in percentage)
02-06-2020	94	23:29:00	-30	20	696	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	1	00:12:00	-20	0	798	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	40	09:57:00	20	20	948	Curtailed to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	45	11:12:00	-10	10	979	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	46	11:18:00	-10	0	976	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	56	13:50:00	20	20	1154	Curtailed to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	60	14:50:00	-20	0	1022	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	73	18:10:00	20	20	1526	Curtailed to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	74	18:21:00	20	40	1415	Curtailed to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	76	18:49:00	-10	30	1161	Released to maintain grid security as per IEGC regulation (in percentage)
03-06-2020	76	18:54:00	-30	0	1109	Released to maintain grid security as per IEGC regulation (in percentage)
04-06-2020	41	10:02:00	20	20	1285	Curtailed to maintain grid security as per IEGC regulation (in percentage)
04-06-2020	45	11:03:00	10	30	1324	Curtailed to maintain grid security as per IEGC regulation (in percentage)
04-06-2020	58	14:22:00	-20	10	1441	Released to maintain grid security as per IEGC regulation (in percentage)
04-06-2020	59	14:30:00	-10	0	1577	Released to maintain grid security as per IEGC regulation (in percentage)
04-06-2020	73	18:07:00	20	20	2132	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
04-06-2020	75	18:31:00	-20	0	1867	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	8	01:47:00	50	50	1507	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	10	02:18:00	-50	0	1452	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	68	16:50:00	30	30	1226	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	69	17:03:00	20	50	1115	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	76	18:55:00	-20	30	1051	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	77	19:07:00	-30	0	1062	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	85	21:01:00	20	20	1975	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	85	21:13:00	20	40	1869	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	86	21:26:00	20	60	1638	Curtailed to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	90	22:22:00	-20	40	1282	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	91	22:30:00	-20	20	1483	Released to maintain grid security as per IEGC regulation (in percentage)
05-06-2020	91	22:38:00	-20	0	1661	Released to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	68	16:47:00	20	20	1438	Curtailed to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	69	17:06:00	20	40	1330	Curtailed to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	70	17:29:00	-20	20	1212	Released to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	73	18:05:00	-20	0	1252	Released to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	86	21:17:00	20	20	2189	Curtailed to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	87	21:39:00	20	40	2040	Curtailed to maintain grid security as per IEGC regulation (in percentage)
06-06-2020	89	22:14:00	-40	0	1862	Released to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	31	07:36:00	20	20	1554	Curtailed to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	38	09:21:00	30	50	1740	Curtailed to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	58	14:30:00	-10	40	1170	Released to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	59	14:41:00	-20	20	1117	Released to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	60	14:48:00	-20	0	1154	Released to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	68	16:49:00	30	30	1233	Curtailed to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	73	18:09:00	-20	10	1116	Released to maintain grid security as per IEGC regulation (in percentage)
07-06-2020	75	18:39:00	-10	0	1313	Released to maintain grid security as per IEGC regulation (in percentage)
09-06-2020	66	16:23:00	50	50	1489	Curtailed to maintain grid security as per IEGC regulation (in percentage)
09-06-2020	69	17:12:00	-50	0	1701	Released to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
09-06-2020	74	18:18:00	20	20	1663	Curtailed to maintain grid security as per IEGC regulation (in percentage)
09-06-2020	76	18:49:00	10	30	1438	Curtailed to maintain grid security as per IEGC regulation (in percentage)
09-06-2020	78	19:25:00	-15	15	1428	Released to maintain grid security as per IEGC regulation (in percentage)
09-06-2020	79	19:33:00	-15	0	1485	Released to maintain grid security as per IEGC regulation (in percentage)
10-06-2020	74	18:27:00	20	20	1124	Curtailed to maintain grid security as per IEGC regulation (in percentage)
10-06-2020	79	19:34:00	-20	0	1546	Released to maintain grid security as per IEGC regulation (in percentage)
11-06-2020	19	04:34:00	20	20	2166	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11-06-2020	20	04:57:00	20	40	1955	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11-06-2020	28	06:51:00	-20	20	1640	Released to maintain grid security as per IEGC regulation (in percentage)
11-06-2020	35	08:41:00	-20	0	1810	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	40	9:58:00	20	20	2235	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	41	10:06:00	20	40	2216	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	42	10:25:00	20	60	1178	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	43	10:37:00	20	80	1629	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	45	11:13:00	-20	60	1351	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	49	12:05:00	-20	40	1573	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	57	14:04:00	20	60	1641	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	60	14:47:00	-20	40	1152	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	60	14:56:00	-40	0	1138	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	72	17:54:00	30	30	2110	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	76	18:55:00	-30	0	1672	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	84	20:47:00	30	30	2099	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	84	20:56:00	30	60	1937	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	88	21:52:00	-20	40	1394	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	90	22:17:00	-20	20	1672	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	90	22:25:00	-20	0	1835	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	93	23:02:00	30	30	2246	Curtailed to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	95	23:35:00	-10	20	1881	Released to maintain grid security as per IEGC regulation (in percentage)
11/6/2020	96	23:57:00	30	50	2056	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	12	2:47:00	10	60	1737	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	14	3:29:00	10	70	1623	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	23	5:35:00	-10	60	1638	Released to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
12/6/2020	24	5:48:00	-20	40	1635	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	26	6:22:00	-10	30	1845	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	29	7:13:00	-10	20	1895	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	32	7:59:00	-20	0	1949	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	36	8:55:00	20	20	2202	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	37	9:03:00	20	40	2232	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	39	9:41:00	20	60	1852	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	41	10:04:00	20	80	1612	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	43	10:40:00	-10	70	1203	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	50	12:17:00	20	90	1379	Curtailed to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	59	14:37:00	-20	70	1114	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	67	16:35:00	-20	50	1565	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	76	18:51:00	-25	25	1755	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	76	19:00:00	-25	0	1853	Released to maintain grid security as per IEGC regulation (in percentage)
12/6/2020	91	22:43:00	20	20	2547	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	6	1:20:00	20	40	2306	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	9	2:02:00	-10	30	1779	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	9	2:11:00	-30	0	1708	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	16	3:55:00	30	30	1866	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	20	4:57:00	-30	0	1657	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	32	7:53:00	30	30	1534	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	34	8:21:00	20	50	1497	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	36	8:52:00	30	80	1560	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	51	12:35:00	-20	60	1171	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	52	12:45:00	-10	50	1494	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	58	14:15:00	-10	40	1683	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	59	14:30:00	-20	20	1771	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	59	14:40:00	-20	0	1938	Released to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	74	18:28:00	20	20	2667	Curtailed to maintain grid security as per IEGC regulation (in percentage)
13/6/2020	79	19:37:00	-20	0	2381	Released to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	32	7:48:00	20	20	1481	Curtailed to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	35	8:34:00	30	50	1682	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
14/6/2020	62	15:21:00	-20	30	1708	Released to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	67	16:37:00	-20	10	1925	Released to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	72	17:50:00	30	40	2300	Curtailed to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	74	18:18:00	20	60	1946	Curtailed to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	75	18:38:00	-20	40	1598	Released to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	76	18:52:00	-20	20	1787	Released to maintain grid security as per IEGC regulation (in percentage)
14/6/2020	77	19:07:00	-20	0	2003	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	31	7:39:00	20	20	1904	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	32	7:50:00	20	40	1951	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	33	8:15:00	-10	30	1759	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	41	10:05:00	10	40	2094	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	47	11:45:00	10	50	1990	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	53	13:08:00	10	60	1790	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	56	13:52:00	-10	50	1700	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	58	14:16:00	-20	30	1830	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	59	14:36:00	-20	10	2020	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	60	14:50:00	-10	0	2270	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	69	17:02:00	30	30	2730	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	74	18:20:00	10	40	2220	Curtailed to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	76	18:45:00	-20	20	2020	Released to maintain grid security as per IEGC regulation (in percentage)
15/6/2020	78	19:17:00	-20	0	2305	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	34	8:25:00	20	20	2137	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	37	9:02:00	30	50	2038	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	42	10:20:00	30	80	1753	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	44	10:50:00	-10	70	1220	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	48	11:47:00	-10	60	1378	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	57	14:09:00	20	80	1542	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	60	14:57:00	-20	60	1330	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	64	15:46:00	-20	40	1606	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	67	16:32:00	20	60	1951	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	69	17:01:00	30	90	1684	Curtailed to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	74	18:27:00	-20	70	1011	Released to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
16/6/2020	76	18:55:00	-30	40	1296	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	85	21:01:00	-20	20	1750	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	89	22:07:00	-10	10	1904	Released to maintain grid security as per IEGC regulation (in percentage)
16/6/2020	90	22:20:00	-10	0	1892	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	1	0:01:00	20	20	1670	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	2	0:15:00	20	40	1755	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	3	0:38:00	10	50	1472	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	9	2:13:00	20	70	1415	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	11	2:39:00	10	80	1244	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	17	4:02:00	10	90	1150	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	19	4:36:00	-10	80	963	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	28	6:47:00	10	90	1193	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	34	8:18:00	-10	80	994	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	41	10:11:00	10	90	1224	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	45	11:00:00	10	100	1198	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	59	14:37:00	-10	90	775	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	60	14:54:00	-10	80	855	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	61	15:06:00	-10	70	963	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	68	16:50:00	20	90	1337	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	71	17:41:00	10	100	1134	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	76	18:53:00	-20	80	690	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	78	19:16:00	-20	60	835	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	84	21:00:00	-30	30	1192	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	86	21:20:00	-10	20	1436	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	88	21:50:00	-10	10	1469	Released to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	93	23:08:00	20	30	1401	Curtailed to maintain grid security as per IEGC regulation (in percentage)
17/6/2020	94	23:22:00	20	50	1424	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	1	0:05:00	30	80	1186	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	13	3:04:00	10	90	789	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	29	7:07:00	-20	70	520	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	37	9:03:00	-10	60	1141	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	40	9:54:00	10	70	1200	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
18/6/2020	42	10:24:00	10	80	1007	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	42	10:30:00	20	100	1080	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	46	11:17:00	-10	90	529	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	52	12:50:00	10	100	744	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	57	14:12:00	-10	90	500	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	58	14:25:00	-10	80	565	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	60	14:52:00	-10	70	794	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	68	16:57:00	15	85	1105	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	72	17:52:00	15	100	930	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	75	18:43:00	-15	85	570	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	77	19:10:00	-20	65	794	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	83	20:37:00	-25	40	1216	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	85	21:05:00	-10	30	1592	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	85	21:13:00	-20	10	1661	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	87	21:38:00	-10	0	1812	Released to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	91	22:38:00	20	20	2247	Curtailed to maintain grid security as per IEGC regulation (in percentage)
18/6/2020	93	23:02:00	30	50	2051	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	1	0:02:00	20	70	1662	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	8	1:50:00	10	80	1125	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	9	2:03:00	10	90	1069	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	20	5:00:00	-10	80	610	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	22	5:18:00	-10	70	734	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	28	6:51:00	10	80	890	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	34	8:20:00	10	90	908	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	40	9:50:00	10	100	776	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	52	12:50:00	-20	80	472	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	55	13:35:00	10	90	888	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	59	14:31:00	-10	80	710	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	59	14:38:00	-20	60	794	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	64	15:49:00	-10	50	1180	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	69	17:04:00	20	70	1502	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	72	17:59:00	10	80	1210	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
19/6/2020	76	18:47:00	10	90	1082	Curtailed to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	78	19:30:00	-10	80	941	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	80	19:47:00	-10	70	1042	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	80	19:56:00	-20	50	1129	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	83	20:43:00	-10	40	1547	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	85	21:03:00	-20	20	1682	Released to maintain grid security as per IEGC regulation (in percentage)
19/6/2020	86	21:15:00	-20	0	1875	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	1	0:07:00	30	30	1985	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	6	1:15:00	10	40	1742	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	7	1:44:00	20	60	1633	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	13	3:02:00	20	80	1448	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	16	3:45:00	-10	70	1129	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	22	5:24:00	-10	60	1283	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	29	7:00:00	20	80	1170	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	30	7:25:00	20	100	997	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	58	14:25:00	-20	80	622	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	63	15:38:00	-20	60	927	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	68	16:51:00	20	80	1235	Curtailed to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	75	18:40:00	-30	50	876	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	78	19:17:00	-20	30	1434	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	83	20:36:00	-20	10	1552	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	84	20:57:00	-10	0	1741	Released to maintain grid security as per IEGC regulation (in percentage)
20/6/2020	96	23:47:00	20	20	2158	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	5	1:03:00	20	40	1905	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	8	1:52:00	20	60	1611	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	13	3:03:00	10	70	1295	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	24	5:58:00	10	80	1185	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	30	7:21:00	20	100	932	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	33	8:05:00	-10	90	670	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	36	8:55:00	10	100	890	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	58	14:26:00	-10	90	561	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	69	17:07:00	10	100	796	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
21/6/2020	78	19:16:00	-20	80	482	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	79	19:42:00	-10	70	847	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	84	20:55:00	-20	50	1047	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	85	21:09:00	-20	30	1158	Released to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	91	22:40:00	20	50	1700	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	93	23:14:00	20	70	1523	Curtailed to maintain grid security as per IEGC regulation (in percentage)
21/6/2020	96	23:49:00	20	90	1312	Curtailed to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	23	5:33:00	-10	80	910	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	38	9:25:00	20	100	1124	Curtailed to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	52	12:52:00	-10	90	642	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	54	13:24:00	-20	70	788	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	60	14:56:00	-20	50	1130	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	68	16:57:00	20	70	1271	Curtailed to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	72	17:55:00	20	90	1149	Curtailed to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	74	18:18:00	-20	70	860	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	78	19:24:00	-20	50	1290	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	80	19:50:00	-20	30	1540	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	82	20:16:00	-20	10	1430	Released to maintain grid security as per IEGC regulation (in percentage)
22/6/2020	82	20:27:00	-10	0	1494	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	5	1:01:00	20	20	2165	Curtailed to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	11	2:33:00	-10	10	1652	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	12	2:46:00	-10	0	1668	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	30	7:29:00	20	20	1408	Curtailed to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	37	9:10:00	40	60	1368	Curtailed to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	41	10:05:00	20	80	1005	Curtailed to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	43	10:43:00	15	95	914	Curtailed to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	48	11:57:00	-15	80	654	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	49	12:15:00	-20	60	632	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	51	12:33:00	-20	40	715	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	54	13:21:00	-20	20	833	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	55	13:34:00	-20	0	860	Released to maintain grid security as per IEGC regulation (in percentage)
23/6/2020	73	18:02:00	30	30	1175	Curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	wind curtailment MW	Total wind Curtailment MW	wind generation MW	Reasons for Backing down
23/6/2020	74	18:29:00	-30	0	921	Released to maintain grid security as per IEGC regulation (in percentage)
27/6/2020	65	16:03:00	20	20	568	Curtailed to maintain grid security as per IEGC regulation (in percentage)
27/6/2020	65	16:07:00	20	40	648	Curtailed to maintain grid security as per IEGC regulation (in percentage)
27/6/2020	70	17:20:00	-20	20	535	Released to maintain grid security as per IEGC regulation (in percentage)
27/6/2020	70	17:26:00	-20	0	475	Released to maintain grid security as per IEGC regulation (in percentage)
27/6/2020	95	23:41:00	10	10	850	Curtailed to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	3	0:35:00	20	30	865	Curtailed to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	3	0:44:00	-10	20	792	Released to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	6	1:27:00	-20	0	930	Released to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	89	22:05:00	30	30	916	Curtailed to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	89	22:14:00	20	50	1097	Curtailed to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	93	23:14:00	20	70	1001	Curtailed to maintain grid security as per IEGC regulation (in percentage)
28/6/2020	96	23:55:00	-10	60	703	Released to maintain grid security as per IEGC regulation (in percentage)
29/6/2020	1	0:14:00	-20	40	626	Released to maintain grid security as per IEGC regulation (in percentage)
29/6/2020	3	0:34:00	-40	0	509	Released to maintain grid security as per IEGC regulation (in percentage)
29/6/2020	91	22:43:00	25	25	1017	Curtailed to maintain grid security as per IEGC regulation (in percentage)
29/6/2020	93	23:00:00	25	50	1048	Curtailed to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	4	0:46:00	-25	25	886	Released to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	5	1:09:00	-25	0	851	Released to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	34	8:26:00	20	20	687	Curtailed to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	35	8:36:00	30	30	700	Curtailed to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	36	8:56:00	20	70	577	Curtailed to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	43	10:40:00	-20	50	502	Released to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	46	11:20:00	-30	20	533	Released to maintain grid security as per IEGC regulation (in percentage)
30/6/2020	51	12:33:00	-20	0	637	Released to maintain grid security as per IEGC regulation (in percentage)

Table 12 Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of June, 2020				
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.
Northern Region				
ACME CHITTORGARH ENERGY PVT LTD	Solar	42.44	44.42	1.98
AZURE SOLAR	Solar	36.51	40.18	3.67
AZURE SOLAR THIRTY FOUR	Solar	26.99	29.26	2.26
CLEAN SOLAR POWER(BHADLA) PVT LTD.	Solar	62.44	68.17	5.73
DADRI SOLAR	Solar	0.67	0.60	-0.07
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Solar	10.60	11.00	0.39
MAHOBHA SOLAR	Solar	40.72	44.83	4.11
RENEW SOLAR	Solar	11.10	11.72	0.62
RENEW SOLAR POWER LTD PVT BIKANER	Solar	49.05	51.07	2.01
SB ENERGY	Solar	44.24	42.93	-1.31
SINGRAULI SOLAR	Solar	1.54	1.38	-0.16
TATA POWER RENEWABLE	Solar	30.19	31.79	1.60
UNCHAHAH SOLAR	Solar	1.17	1.05	-0.13
Western Region				
ACME SOLAR (RAMNAGAR)	Solar	33.83	33.97	0.13
ADANI GREEN ENERGY MP,LTD	Wind	42.22	40.81	-1.41
ARINSUN SOLAR (BARSITADESH)	Solar	34.71	34.62	-0.09
GREEN INFRA WIND ENERGY LIMITED SECI 2	Wind	50.62	46.53	-4.09
GREEN INFRA WIND ENERGY LIMITED SECI 3	Wind	56.78	55.64	-1.14
INOX WIND	Wind	30.67	30.00	-0.67
MAHINDRA SOLAR (BADWAR)	Solar	36.13	36.06	-0.07
OSTRO -KUTCH	Wind	53.83	50.27	-3.56
RENEW POWER	Solar	47.55	45.31	-2.24
Southern Region				
BEETAM	Wind	20.42	21.78	1.36
GIREL	Wind	93.94	93.84	-0.11
MYTRAH	Wind	59.55	60.82	1.27
ORANGE	Wind	74.09	76.94	2.84

+ve Deviation Means Actual generation is greater than Schedule Generation.

Table 13 Fossil and Non Fossil Generation

Fossil and Non Fossil (State Wise) Electricity Generation for the Month of June ,2020							
State/UT	Fossil		Non Fossil			Grand Total	Non Fossil as % of Total Generation
	Thermal	Gas	Nuclear	Hydro (Large)	Renewable Energy		
Chandigarh	0.00	0.00	0.00	0.00	1.96	1.96	100.00
Delhi	0.00	483.79	0.00	0.00	45.11	528.90	8.53
Haryana	1030.63	224.00	0.00	0.00	55.85	1310.48	4.26
HP	0.00	0.00	0.00	5378.11	276.64	5654.75	100.00
J & K	0.00	0.00	0.00	2252.48	56.90	2309.38	100.00
Ladakh	0.00	0.00	0.00	55.77	0.00	55.77	100.00
Punjab	2028.21	0.00	0.00	565.81	260.84	2854.86	28.96
Rajasthan	3339.47	75.94	729.33	0.91	1780.50	5926.15	42.37
Uttar Pradesh	9757.00	422.28	293.37	158.87	182.10	10813.62	5.87
Uttarakhand	0.00	0.00	0.00	1778.27	116.52	1894.79	100.00
Northern Region	16155.31	1206.01	1022.70	10190.22	2776.41	31350.65	44.62
Chhattisgarh	10387.56	0.00	0.00	21.58	139.30	10548.44	1.53
Gujarat	5637.51	2147.53	311.98	489.26	1397.13	9983.41	22.02
Madhya Pradesh	8740.41	0.00	0.00	632.35	771.27	10144.03	13.84
Maharashtra	5636.37	420.94	892.68	426.62	1100.79	8477.40	28.55
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.45	0.45	100.00
Daman & Diu	0.00	0.00	0.00	0.00	2.05	2.05	100.00
Goa	0.00	0.00	0.00	0.00	0.09	0.09	100.00
Western Region	30401.85	2568.47	1204.66	1569.81	3411.08	39155.87	15.80
Andhra Pradesh	3543.21	287.54	0.00	128.65	1436.17	5395.57	29.00
Telangana	2910.43	0.00	0.00	10.98	552.53	3473.94	16.22
Karnataka	601.78	0.00	650.66	1163.66	2490.66	4906.76	87.74
Kerala	0.00	0.00	0.00	488.31	70.98	559.29	100.00
Tamil Nadu	4447.80	223.68	886.71	305.53	3090.09	8953.81	47.83
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	20.56	0.00	0.00	0.37	20.93	1.77
Southern Region	11503.22	531.78	1537.37	2097.13	7640.82	23310.32	48.37
Andaman Nicobar	10.80	0.00	0.00	0.00	1.69	12.49	13.56
Bihar	2759.09	0.00	0.00	0.00	16.97	2776.06	0.61
Jharkhand	2155.57	0.00	0.00	17.09	1.23	2173.89	0.84
Orissa	4359.25	0.00	0.00	579.15	54.13	4992.53	12.68
Sikkim	0.00	0.00	0.00	1584.34	5.80	1590.14	100.00
West Bengal	5435.71	0.00	0.00	335.98	95.72	5867.41	7.36
DVC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eastern Region	14720.42	0.00	0.00	2516.56	175.54	17412.52	15.46
Arunachal Pradesh	0.00	0.00	0.00	400.33	0.19	400.52	100.00
Assam	285.31	217.96	0.00	35.55	3.77	542.59	7.25
Manipur	0.00	0.00	0.00	34.21	0.48	34.69	100.00

Meghalaya	0.00	0.00	0.00	142.38	3.03	145.41	100.00
Mizoram	0.00	0.00	0.00	9.54	3.37	12.91	100.00
Nagaland	0.00	0.00	0.00	20.09	7.17	27.26	100.00
Tripura	0.00	556.84	0.00	0.00	0.32	557.16	0.06
North Eastern Region	285.31	774.80	0.00	642.10	18.34	1720.55	38.39
All India Total	73066.11	5081.06	3764.73	17015.82	14022.19	112949.91	30.81

Table 14 Renewable Energy as % of Total Electricity Generated

Re Generation as proportion of Total Electricity generation -Physical location wise. (State Wise) for the Month of June ,2020							
State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Chandigarh	0.00	0.00	0.00	0.00	1.96	1.96	100.00
Delhi	0.00	483.79	0.00	0.00	45.11	528.90	8.53
Haryana	1030.63	224.00	0.00	0.00	55.85	1310.48	4.26
HP	0.00	0.00	0.00	5378.11	276.64	5654.75	4.89
J & K	0.00	0.00	0.00	2252.48	56.90	2309.38	2.46
Ladakh	0.00	0.00	0.00	55.77	0.00	55.77	0.00
Punjab	2028.21	0.00	0.00	565.81	260.84	2854.86	9.14
Rajasthan	3339.47	75.94	729.33	0.91	1780.50	5926.15	30.04
Uttar Pradesh	9757.00	422.28	293.37	158.87	182.10	10813.62	1.68
Uttarakhand	0.00	0.00	0.00	1778.27	116.52	1894.79	6.15
Northern Region	16155.31	1206.01	1022.70	10190.22	2776.41	31350.65	8.86
Chhattisgarh	10387.56	0.00	0.00	21.58	139.30	10548.44	1.32
Gujarat	5637.51	2147.53	311.98	489.26	1397.13	9983.41	13.99
Madhya Pradesh	8740.41	0.00	0.00	632.35	771.27	10144.03	7.60
Maharashtra	5636.37	420.94	892.68	426.62	1100.79	8477.40	12.98
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.45	0.45	100.00
Daman & Diu	0.00	0.00	0.00	0.00	2.05	2.05	100.00
Goa	0.00	0.00	0.00	0.00	0.09	0.09	100.00
Western Region	30401.85	2568.47	1204.66	1569.81	3411.08	39155.87	8.71
Andhra Pradesh	3543.21	287.54	0.00	128.65	1436.17	5395.57	26.62
Telangana	2910.43	0.00	0.00	10.98	552.53	3473.94	15.91
Karnataka	601.78	0.00	650.66	1163.66	2490.66	4906.76	50.76
Kerala	0.00	0.00	0.00	488.31	70.98	559.29	12.69
Tamil Nadu	4447.80	223.68	886.71	305.53	3090.09	8953.81	34.51
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	20.56	0.00	0.00	0.37	20.93	1.77
Southern Region	11503.22	531.78	1537.37	2097.13	7640.82	23310.32	32.78
Andaman Nicobar	10.80	0.00	0.00	0.00	1.69	12.49	13.56
Bihar	2759.09	0.00	0.00	0.00	16.97	2776.06	0.61
Jharkhand	2155.57	0.00	0.00	17.09	1.23	2173.89	0.06
Orissa	4359.25	0.00	0.00	579.15	54.13	4992.53	1.08
Sikkim	0.00	0.00	0.00	1584.34	5.80	1590.14	0.36
West Bengal	5435.71	0.00	0.00	335.98	95.72	5867.41	1.63
DVC	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eastern Region	14720.42	0.00	0.00	2516.56	175.54	17412.52	1.01
Arunachal Pradesh	0.00	0.00	0.00	400.33	0.19	400.52	0.05
Assam	285.31	217.96	0.00	35.55	3.77	542.59	0.70

**Re Generation as proportion of Total Electricity generation -Physical location wise. (State Wise)
for the Month of June ,2020**

State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Manipur	0.00	0.00	0.00	34.21	0.48	34.69	1.39
Meghalaya	0.00	0.00	0.00	142.38	3.03	145.41	2.08
Mizoram	0.00	0.00	0.00	9.54	3.37	12.91	26.11
Nagaland	0.00	0.00	0.00	20.09	7.17	27.26	26.31
Tripura	0.00	556.84	0.00	0.00	0.32	557.16	0.06
North Eastern Region	285.31	774.80	0.00	642.10	18.34	1720.55	1.07
All India Total	73066.11	5081.06	3764.73	17015.82	14022.19	112949.91	12.41

RENEWABLE ENERGY TO TRANSPORT SECTOR :

Table 15 REWA Solar To Delhi Metro

From Rewa Solar Park (MP) to DMRC				
	Delhi Discoms			
Month	BRPL	BYPL	TPDDL	Total (MUs)
April ,2020	1.51	0.60	0.54	2.65
May ,2020	1.55	0.46	0.29	2.29
June ,2020	1.40	0.73	0.48	2.60
All figures at Delhi PP in MUs				
DMRC : Delhi Metro Rail Corporation				

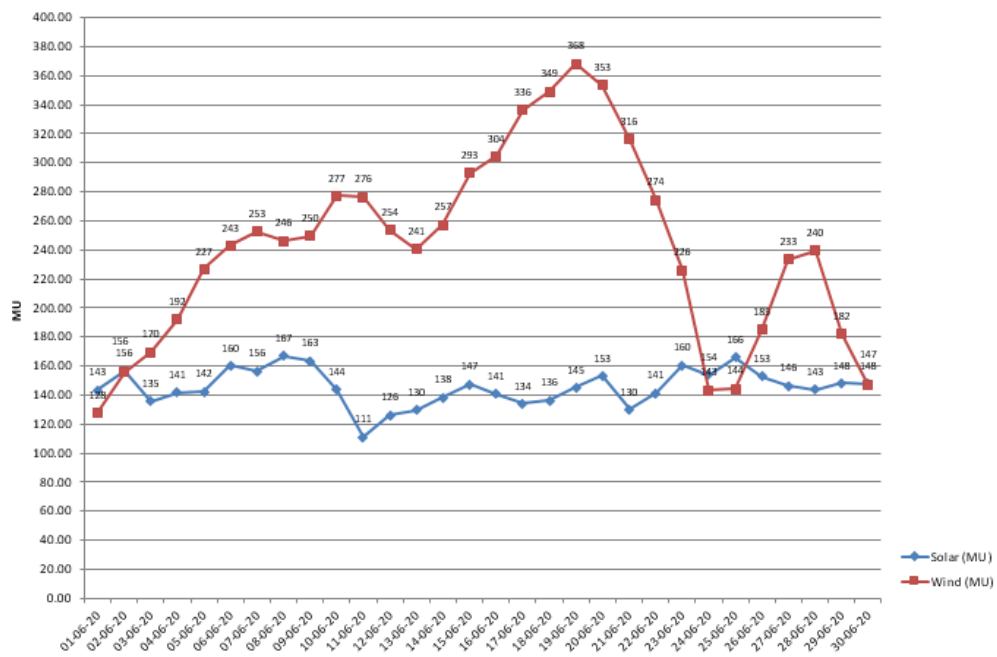


Figure 19 Daily Solar and wind Power Generation trend



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