

BEFORE THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION

Quorum

1. Hon'ble Sri Raj Pratap Singh, Chairman
2. Hon'ble Sri Suresh Kumar Agarwal, Member
3. Hon'ble Sri Kaushal Kishore Sharma, Member

In the matter of:

Suo-Moto Proceedings regarding meeting RPO targets by obligated entities.

Respondents

1. Managing Director, UP Power Corporation Ltd. 7th Floor, Shakti bhawan, 14, Ashok Marg, Lucknow
2. Managing Director, Madhyanchal Vidyut Vitran Nigam Ltd., 4 Gokhale Marg, Lucknow
3. Managing Director, Purvanchal Vidyut Vitran Nigam Ltd., Purvanchal Vidyut Bhawan, P.O. Vidyut Nagar, DLW, Varanasi.
4. Managing Director, Paschimanchal Vidyut Vitran Nigam Ltd., Victoria Park, Meerut
5. Managing Director, Dakshinanchal Vidyut Vitran Nigam Ltd., Urja Bhawan, 220, KV Up-Sansthan Bypass Road, Agra-282007
6. Managing Director, Kanpur Electricity Supply Co. Ltd., 14/71, Civil Lines, KESA House, Kanpur
7. Managing Director & CEO, Noida Power Company Ltd., Commercial Complex H-Block, Alpha Sector II Greater Noida-201 308
8. The Director, Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA), Vibhuti Khand, Gomti Nagar, Lucknow.

Present in the hearing:

1. Shri Rajiv Srivastava, Advocate, UPPCL
2. Shri Arvind Mittal CE (PPA), UPPCL
3. Shri S. K. Sinha, SE (PPA), UPPCL
4. Shri Mahendra Singh, SE (PPA), UPPCL
5. Shri Manoj Jain, NPCL
6. Shri Sanjiv K. Goel, NPCL
7. Shri A. K. Arora, Resident Manager, NPCL
8. Shri N. kahre, UPNEDA
9. Shri Saurabh Srivastava

ORDER

(Date of Hearing 25.04.2019)

The Commission had initiated Suo-Moto proceedings to review the fulfillment of RPO targets by obligated entities as per UPERC (Promotion of Green Energy through renewable



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purchase obligations) Regulation 2010. As per this Regulation the obligated entities have to procure specified percentage of power from renewable sources, classified as Solar and Non-solar.

The Commission had directed UPPCL and NPCL to submit the road map showing as to how they plan to meet the back log of RPO and further obligations in coming years upto FY 2020-21 and 2021-22.

While NPCL submitted the roadmap stating that the Company is likely to fulfil its RPO backlog till FY' 2017-18 by the end of March, 2019. The Commission accepted the submission of NPCL and directed NPCL to submit its achievements against RPO on quarterly basis to the Commission.

UPPCL submitted the roadmap for fulfilling the RPO Targets upto FY 2021-22 as follows: -

Expected Non-Solar Capacity (in MW)

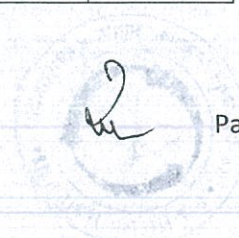
S. No.	As on 31 st October, 18	2018-19	2019-20	2020-21	2021-22	Sources
1	2.00	37.00	37.00	46.00	46.00	MSW
2	33.00	32.00	65.00	65.00	65.00	Biomass
3	0	440.00	640.00	1340.00	1340.00	Wind
4	1285.10	1396.30	1396.30	1396.30	1396.30	Bagasse
5	0	0	26.95	26.95	26.95	SHP
Total	1320.10	1905.3	2165.25	2874.25	2874.25	

Grid Connected Solar Capacity (in MW)

S.No.	As on 31 st October, 18	2018-19	2019-20	2020-21	2021-22
Addition in the FY	872.00	225.00	1300.00	1632.00	NA
Total	872.00	1097.00	2397.00	4029.00	4029.00



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Rooftop Solar Capacity (in MW)

S. No.	As on 31 st October, 18	2018-19	2019-20	2020-21	2021-22
Total in the FY	904	1753	2602	345	NA

However, based on the capacity tied up now, UPPCL is very well poised to achieve the targets during the upcoming years as depicted below:

Year	Net Energy Requirement for RPO Quantum computation (MU) Excluding Hydro Energy	RPO Targets prescribed by UPERC		RPO Quantum for UP (MU)		Total RPO Achievement		Year wise shortfall (-)/ surplus(+)			% of Surplus Solar (MU) to the Net Energy Requirement for RPO Quantum computation (MU)
		Solar (%)	Non-Solar (%)	Solar (MU)	Non-Solar (MU)	Solar (MU)	Non Solar (MU)	Non Solar (MU)	Solar (MU)	Non-Solar (MW) considering Additional Capacity Addition from other Sources	
2019-20	1,04,881	1.00%	5.00%	1,049	5,244	2908	Not mentioned	Not mentioned	+1859	-320	1.77%
2020-21	1,13,178	1.00%	5.00%	1,132	5,659	5347	Not mentioned	Not mentioned	+4215	-423	3.73%
2021-22	1,21,863	1.00%	5.00%	1,219	6,093	6706	Not mentioned	Not mentioned	+5487	-474	4.50%

Table excludes solar roof top capacity addition.

The Commission finds that the achievement of renewable purchase obligation of the State Discoms is as follows: -




Non-solar

Status of RPO-Fulfilment					
Financial Year	Renewable Energy Purchased (MU)	Total Energy Purchased (MU)	Target as per Regulations (%)	RPO Achieved (A/B*100) (%)	RPO (under[-]/Over[+] Achieved (MU)
2010-11	2978.77	65375.42	3.75%	21.50%	527.19
2011-12	5152.37	74479.61	4.50%	53.73%	1800.79
2012-13	3619.98	77707.16	5.00%	-6.83%	-265.38
2013-14	3318.20	84251.84	5.00%	-21.23%	-894.39
2014-15	2883.61	86431.18	5.00%	-33.27%	-1437.95
2015-16	3281.42	76677.43	5%	-14.41%	-552.45
2016-17	3585.41	87356.84	5%	-17.91%	-782.43
2017-18	4149.59	99774.85	5%	-16.82%	-839.15
2018-19 (Till Nov)	1955.63	82825.55	5%	-48.15%	-1815.74
Cumulative Short Fall					-4259.52

Solar

Status of RPO-Fulfilment					
Financial Year	Renewable Energy Purchased (MU)	Total Energy Purchased (MU)	Target as per Regulation (%)	RPO Achieved (A/B*100) (%)	RPO (under[-]/Over[+] Achieved (MU)
2010-11	0	65375.42	0.25%	-100%	-163.44
2011-12	0	74479.61	0.50%	-100%	-372.40
2012-13	11.04	77707.16	1.00%	-98.58%	-766.03
2013-14	82.29	84251.84	1.00%	-90.23%	-760.23
2014-15	141.82	86431.18	1.00%	-83.59%	-722.49
2015-16	230.94	76677.43	1%	-69.88%	-535.83
2016-17	375.09	87356.84	1%	-57.06%	-498.48
2017-18	825.27	99774.85	1%	-17.29%	-172.48
2018-19 (till Nov)	751.96	82825.55	1%	-0.31%	-2.31
Cumulative Short Fall					-3.993.69



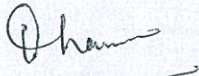
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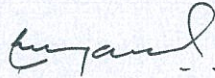
Commission's Analysis:

1. The Commission finds that the cumulative short fall (till November, 2018-19) for Solar is 3993.69 MU and for Non – Solar it is 4259.52 MU.
2. The Commission finds that the quantum of Non-solar energy to be purchased in terms of MU has not been mentioned in the Working Submissions from FY 2019-20 onwards. So, the Licensees are directed to submit the same. UPPCL is directed to submit the plan to achieve the short fall made in the previous years in terms of Commission's Order dated 18.12.2017.
3. Commission further finds that no submission has been made by UPPCL and NPCL in terms of long-term growth trajectory of renewable purchase obligations (RPOs) for Solar and Non-solar for period of FY 2019-20 to 2021-22 as provided in the Order dated 14.6.2018 issued by Ministry of Power, Govt. Of India. The desired information shall be submitted by UPPCL in three weeks.

List in July, 2019.



(Kaushal Kishore Sharma)
Member



(Suresh Kumar Agarwal)
Member



(Raj Pratap Singh)
Chairman

Place: Lucknow

Dated: 30.5.2019



