



Suo-motu hearing on
implementation of various Energy Efficiency measures in the State of UP

BEFORE

THE UTTAR PRADESH ELECTRICITY REGULATORY COMMISSION

LUCKNOW

Date of Order: 11.02.2016

PRESENT:

1. Hon'ble Sri Desh Deepak Verma, Chairman
2. Hon'ble Sri Indu Bhushan Pandey, Member
3. Hon'ble, Sri S. K. Agarwal, Member

IN THE MATTER OF: Implementation of various Energy Efficiency measures in the State of UP

IN THE MATTER OF

1. Chairman, U. P. Power Corporation Ltd., Shakti Bhawan, 14 –Ashok Marg, Lucknow.
2. Sri. Ajay Mathur, Director General, Bureau of Energy Efficiency, Government of India, Ministry of Power 4thFloor,SEWA Bhawan R. K.Puram, New Delhi - 110 066 (INDIA)
3. Director UPNEDA (State Designated Agency) Vibhuti Khand Gomtinagar Lucknow
4. Sri. Saurabh Kumar, MD, Energy Efficiency Services Limited, 4th Floor, IWAI Building, A-13, Sector-1, Noida – 201301, U.P
5. Managing Director, Madhyanchal Vidyut Vitran Nigam Limited, 4 – Gokhale Marg, Lucknow.
6. Managing Director, Dakshinanchal Vidyut Vitran Nigam Limited, Urja Bhawan 220 KV Sub-Station, Bypass Road, Agra – 282007
7. Managing Director, Paschimanchal Vidyut Vitran Nigam Limited, Victoria Park, Meerut.
8. Managing Director, Purvanchal Vidyut Vitran Nigam Limited, Vidyut Bhawan, DLW, Varanasi.
9. Managing Director, Kanpur Electricity Supply Company Limited, 14/71, Civil Lines, KESA House Kanpur.
10. Managing Director/CEO, Noida Power Company Ltd., Commercial Complex, H-Block, Alpha-II Sector, Greater Noida-201308

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The following were present:

1. Sri Ajay Mathur, DG BEE
2. Sri R.K. Sharma, ED UPPCL
3. Sri Yogesh Hajela, CE KESCO
4. Smt Varalika Dubey, SE UPPCL
5. Sri V.K. Kaushik, PVVNL
6. Smt. Namrata Kalra, UPNEDA
7. Representatives from EESL
8. Sri Rajiv Goyal, NPCL
9. Sri A.K. Arora, NPCL

Order

(Date of Hearing 15.01.2016)

1. In continuation to earlier hearing which was held on 10.03.2015 and vide order dated 18.03.2015 the Commission directed DISCOMs to undertake the distribution of 7W LED bulbs in all the districts of U.P. initially at least given 22 given districts of U.P. and subsequently seeing the overwhelming response of the consumers, the Commission felt that the scope should be broaden and hence the hearing is called.
2. Sri Ajay Mathur, DG BEE thanked the Commission for its proactive approach that led to successful implementation of LED scheme. He submitted that so far around 70 lacs LEDs have been distribute in the state of U.P. in the distribution areas of PuVVNL, KESCO and MVVNL that has resulted in reduction of load by almost 50 MW. This not only helped in mitigating the shortages of power as ultimately one unit saved avoids the requirement of additional two units, but also facilitated environment protection.

Further, he drew attention of the Commission to the fact that Air Conditioners (ACs) are area of great concern with very high potential of energy saving. It is estimated that annual consumption for inverter AC stands to be around 950 units, for 5 star AC around 1250 units whereas for 3 star AC it is around 1400 units. Despite of this, owing to high upfront cost consumers shy from buying inverter AC and 5 star AC.

He further added that energy efficient fans have been developed which consume 40-50 W of electricity against 70 W in available fans. Considering the number of fans in every household and their running hours, it is also need of the hour to take-up the program for energy efficient fans. Sri Mathur submitted that the cost difference between normal and energy efficient fans is to the tune of Rs. 300-400.

3. In the hearing the Commission expressed its displeasure with UPPCL/DISCOMs for their lacking approach in implementation of LED program covering entire area under DISCOM and for failing to come up with DSM program as required under DSM Regulations. The Commission again directed UPPCL/DISCOMs that its earlier order dated 18.03.2015 has to be implemented across the state on priority. Further, The Commission directed UPPCL to conduct impact study of LED program in all state DISCOMs and submit its findings to the Commission in 3 months.

Regarding DSM issue, the Commission expressed its annoyance over the fact that either DSM cell is not formed or not operational under any DISCOM and directed all DISCOMs to immediately form DSM cell and make them function in line with the provisions of DSM Regulations. The Commission decided that a separate hearing shall soon be held in this matter.

4. PVVNL submitted that they have floated a tender for distribution of 70 lacs LED out of which 20 lacs LEDs are planned to be distributed in next 6 months. As an initial measure PVVNL has borrowed 1 lac LEDs from DVVNL for distribution.
5. KESCO submitted that so far around 12 lacs LEDs have been distributed. Further, they are planning to implement scheme in respect of super-efficient fans with the facility of recovering cost through monthly bills of the consumer. It is estimated that each fan shall result in saving of 20 W load viz-a-viz normal fan.

The Commission opines that for success of this scheme it is imperative that less efficient products are removed from grid. Hence this scheme must also have provision for buyback of inefficient fan.

6. UPNEDA submitted that they have initiated process for installing Automatic Power Factor Corrector (APFC) in Government buildings. For this 5 buildings are earmarked in each district, whereas in Lucknow 19 buildings have been earmarked for the same. It was also submitted that for implementation of above scheme fund of Rs. 12 Crores have been made available to UPNEDA.
 7. NPCL submitted that they have so far distributed around 25,000 LEDs. Of late, they have adopted practice of approaching Resident Welfare Society (RWA) in their area to comprehensively change normal lights to LED based bulbs and tube lights. Further, they submitted that considering low failure rate of LED and in order to bring down cost of LED bulb they have made provision under their contract with LED supplier for repairing of LEDs instead of replacing it. NPCL also informed that Greater Noida authority have initiated a program on LED based street lights.
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8. On the basis of the deliberations held in the hearing, the Commission hereby directs all the DISCOMs to:-

- i. Implement scheme for LED bulbs and tube light across all districts as well as rural areas on same payment terms (in respect of upfront payment and installments payment) as per order dated 18.03.2015. The LED should be of varying wattage, namely 3W, 5W, 9W AND 11W so that's people can buy LED bulbs as per their requirement.
- ii. Enhance the limit for number of LED to domestic consumers under the scheme to 10 LEDs for consumers of upto 2 kw load and 20 LEDs for consumers above 2 kw load.
- iii. Besides domestic consumers institutions are also to be brought under the ambit of LED scheme.
- iv. All DISCOMs are directed to ensure that all commercial and industrial consumers invariably shift to LED lights in next three months.
- v. All the facilities/ sub-stations owned by DISCOMs to be brought on LED lights within 3 months.
- vi. All DISCOMs to ensure that LED lights distributed under the scheme must carry the power factor and lumen ratings on them.
- vii. On the similar line of LED, scheme for super-efficient fans must be launched by all DISCOMs in their area. The scheme must have the provisions for payment in upto 10 installments maximum and for buyback of old fan. Director General, BEE assured to file a petition in this regard.
- viii. Consumers to be made aware of the latest available energy saving technologies like inverter AC and 5 star AC. Further, scheme for efficient ACs must also be launched which must have the provisions for payment in upto 18 installments maximum and for buyback of old AC. Director General, BEE assured to file a petition in this regard.
- ix. UPPCL is directed to submit their comments in 1 month on offering financial incentives to consumers for using high efficiency product as it is presently done for consumers having solar heaters.



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- x. Use of halogen lamps must be discouraged as these lamps are highly inefficient.
 - xi. To chalk out plan for replacing streetlight with LED. DISCOMs to approach municipal administrator in their respective area.
 - xii. DISCOMs to submit DSM plans within 3 months.
9. The matter is disposed of with directions as contained in this order.

(S.K.Agarwal)
Member

(Indu Bhushan Pandey)
Member

(Desh Deepak Verma)
Chairman

Place: Lucknow
Dated: 11.02.2016