

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:756
ANSWERED ON:25.11.2011
DISTRIBUTION OF POWER
Lal Shri Kirodi

Will the Minister of POWER be pleased to state:

- (a) whether the revenue earning of the Power Utilities underwent any significant change in the aftermath of private sector participation in the distribution of power;
- (b) if so, the details of revenue earned by Power Utilities during each of the last three years and the current year, State/UT-wise;
- (c) whether the Government also proposes to bring improvement in the technology being used in the power sector, particularly in the distribution of power; and
- (d) if so, the details thereof?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL)

(a): As per the ` Report on Performance of State Power Utilities ` published by PFC(Power Finance Corporation) for the years 2007-08 to 2009-10, the average revenue realized (without subsidy) increased from Rs.2.39/kwh in 2007-08 to Rs.2.62/kwh in 2008-09 and further to Rs.2.68/kwh in 2009-10, but the increase is not entirely attributable to private sector participation. It is inter-alia reduction in losses and revision in tariff.

(b): PFC in its report compiles the average revenue realized on input energy basis. The details of average revenue realized (without subsidy) by utilities selling directly to consumers during the years 2007-08 to 2009-10 are given at Annex.

(c) & (d): Yes, Madam. The Restructured-Accelerated Power Development and Reforms Programme (R-APDRP) was launched by the Ministry of Power in July 2008 as a Central Sector Scheme for improving the urban power distribution sector in the country. The focus of R-APDRP Scheme is on actual demonstrable performance by utilities in terms of sustained Aggregate Technical & Commercial (AT&C) loss reduction. The projects under the scheme are taken up in two parts: Part-A & Part-B.

Part-A of the scheme is dedicated to the establishment of an IT enabled system for achieving reliable & verifiable baseline data that shall enable evaluation of exact & verifiable AT&C losses in towns where the scheme is being implemented. Part-B of the scheme is for actual up-gradation and strengthening of the sub-transmission and distribution system.

The IT applications to be implemented are establishment of Base- line data for the project area covering Consumer Indexing, GIS Mapping, Metering of Distribution Transformers and Feeders, and Automatic Data Logging for all Distribution Transformers and Feeders. It would also include Asset Mapping of the entire distribution network at and below the level of 11kV transformers and shall include the Distribution Transformers and Feeders, Low Tension lines, poles and other distribution network equipment. It will also include adoption of IT applications for meter reading, billing & collection; energy accounting and auditing; MIS; redressal of consumer grievances; establishment of IT enabled consumer service centers etc.

The real time monitoring & control of the distribution system through state-of-the art SCADA/DMS system encompassing all distribution Sub- stations & 11 KV network would help in achieving the objective of R-APDRP.

The SCADA/DMS System will provide-

Real time monitoring & control,

Fault Management & System Restoration

Loss minimization/load balancing

Improvement in voltage/VAR profiles etc.

It would also facilitate proper handling of loads while load shedding & restoration, efficient planning of network for future growth by using proven power system planning tools. All software applications & RTUs/FRTUs including system sizing requirements for the same shall be considered in the SCADA/DMS system being procured under Part – A of R-APDRP.

Under the R-APDRP Scheme, following high technology interventions are proposed to be used to aid in technical & commercial loss reduction:

Use of High Voltage Distribution System (HVDS) in dense areas

Use of Aerial Bunched Conductoring in dense areas

Replacement of electromechanical energy meters with tamper proof electronic energy meters

Installation of Capacitor banks

Installation of mobile service centers

Use of amorphous transformers.