

INTRODUCING SINGLE-PHASE DISTRIBUTION SYSTEM

**By
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0. ABSTRACT

The author conducted a study to analyze the causes of interruption in the WAPDA Distribution System and tried to find out least cost solution to the problem. According to the analysis 70% of the interruption are visible faults due to poor maintenance and workmanship which mostly constitute loose jumpers and connections, improper conductors clearances, loose binding of conductor to insulator, improper line sag and imbalance load on the transformers etc. In the opinion of the author WAPDA has unnecessarily extended three-phase system to all the domestic consumers which in his opinion should be changed to single-phase system. Single-phase system is not only 30% to 40% cheaper but will also improve power supply by reducing interruptions drastically. The author has strongly advocated his view point supported by calculations and reasons.

1. BASIC CONCEPT

An electric power system can be defined to consist of a generation, a transmission and a distribution system. The distribution system called primary and secondary system is spread throughout the entire load area serving each individual consumer load. The primary and secondary system can be of overhead or underground construction. Throughout residential, rural, commercial and industrial areas, three-phase overhead system predominates. In developed countries underground system is used to feed downtown areas and heavy commercial loads which is quite expensive. Due to its high cost WAPDA has not adopted underground system although it is more reliable than overhead system.

2. WAPDA DISTRIBUTION SYSTEM

- 2.1 In developed countries distribution system, on national average, is roughly equal in capital investment to generation facilities and constitute 40% to 50% of total investment in power system. Thus distribution system rates high in economic investment that makes careful engineering, planning, design, construction and operation. In WAPDA, Distribution System has the lowest priority, while more importance is given to higher voltages. The distribution cost in WAPDA is about 10% of total investment.
- 2.2 99% of WAPDA Distribution System is three-phase overhead and radial. The overhead radial system cannot be free from outages, caused by lightning, hanging tree limbs, wire, strings, kites, winds and dust storms, vehicle accidents, pollution etc, but WAPDA has worsen the situation due to poor workmanship, lack of maintenance and non compliance to their own standards. The system is being expanded without taking into account loading and voltage drop, in addition to poor standard of construction resulting in damage to equipment, high level losses and poor standard of supply delivered

Wapda Distribution Store Manual

RD Boyd



Wapda Distribution Store Manual:

WAPDA Annual Report Pakistan. Water and Power Development Authority,1993

Economic Review ,1980 *Handelsbelangen* ,

Pakistan Labour Cases ,2006

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