

## THE SYSTEM OF AUTOMATIC CONTROL OF REACTIVE POWER SOURCES OF THE TELECOMMUNICATIONS

**Дехконов Ойбек Равшанович / Dekhkonov Oybek Ravshanovich**

Assistant, Department of Energy Supply System

Tashkent university of information technologies, Tashkent, Uzbekistan

The most common sources of voltage unbalance in power supply systems of communication and telecommunication devices are those electricity consumers, symmetric multi-phase or the execution of which is impossible or impractical to techno - economic reasons. Such communication devices include special telecommunications and single-phase loads, lighting installations and others. [1,2].

Supply voltage unbalance of communication and telecommunication devices is as follows:

- Coefficient of voltage unbalance on the reverse sequence;
- Coefficient of voltage unbalance on the zero-sequence.

Existing methods aimed at balancing the phase currents in the electrical distribution network of 0.38 kV communication and telecommunication devices, leading to lower losses and further improve the quality of electric power can be divided into the following groups:

- 1) Periodic alignment phase three-phase network single-phase loads (redistribution of single-phase loads - communication devices and telecommunications).
  
- 2) Reduction of the residual resistance of individual elements charging mains (transformers and power lines).
  
- 3) Use of enclosed and semi-circuits.
  
- 4) Cross-reactive power compensation.

Consider these methods in more detail.

...

*Полный текст во вложении*