

Question

What are the expectations of electric power utilities from the virtual and augmented reality technologies? Are they going to be used only for engineering staff training or there are other promising applications?

Answer

It is expected to be used mainly for training purposes for young people. In addition, it is expected to be used to assist engineers from remote areas.

1. MR HMD can display 3D graphics of inspection procedures and play training videos.

By displaying not only the real world equipment and virtual world equipment superimposed as a hologram, but also displaying the inspection procedure together as a guide, it is possible to learn the inspection procedure while checking the actual equipment. This method eliminates the need to create paper manuals. In addition, even technicians without knowledge can easily perform inspections.

2. MR HMD can work with web conferencing applications.

In some cases, it is not possible to proceed with the placement of parts or procedures according to the manual. By integrating with a web application, the problem can be solved by sharing the image seen from the technician's point of view in real time with other employees in the remote location or with other employees. This allows the technician's point of view to be shared in real time with other employees in remote locations. Annotations such as arrows and ink can be written in the virtual space from a remote location, enabling smooth communication.