



Abstract Format

Technologies reshaping the electricity supply industry
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R&D of energy Internet of Things in Korea

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Abstract

A huge wave of '4th Industrial Revolution' is coming to the electric power industry. If the first industrial revolution was the era of 'mechanization' centered on railways and steam engines, the second industrial revolution is the era of 'mass production' centered on electricity and assembly lines, and the third industrial revolution is the era of computer-based 'automation'. The 4th Industrial Revolution means "intelligent" and "super connect" era based on ICT technologies, and the magnitude and speed of this change is characterized by the fact that it is unimaginably fast and rapid. KEPCO is preparing 'KEPCO 4.0'. 'KEPCO 4.0' refers to the next-generation utility that pursues Digital KEPCO, Open KEPCO, and Connected KEPCO. The key technologies are Digitalization, IoT(Internet of Things), Big Data, AI(Artificial Intelligence), Robotics, and so on. KEPCO will build an IoT infrastructure that maximizes data collection by attaching sensors to power facilities. Progresses on R&D of IoT technology and standardization will be presented.