

Research on FTTH technology and its deployment application for Thai Nguyen City

Nguyen Van Thang

Abstract: In the context of information and communication technology (ICT) development in Vietnam, research on Fiber To The Home (FTTH) technology aims to solve the problem of high-speed and stable internet connectivity. This topic focuses on identifying technical requirements and appropriate FTTH deployment strategies for Thai Nguyen City to upgrade the telecommunications network infrastructure, meeting the increasing demand for information technology services among residents. The research methodology includes network planning analysis, system performance evaluation, and local field surveys. Expected results will provide a comprehensive deployment solution for FTTH, while contributing to enhancing the competitiveness of the city's telecommunications market.

Keywords: FTTH, Thai Nguyen City, Network infrastructure upgrade, Technology application deployment