

Energy-Saving Selection Guide for Island-Grade Passive Optical Networks

This article introduces the technologies that contribute to low latency and power saving of optical access networks being researched and developed by the Optical Access System Project at NTT ...

To the best of our knowledge, to date, this article is the first most comprehensive survey on energy saving research and standardization on PON.

This article dives into the technical aspects of energy efficient fiber modules, guiding network engineers and managers to optimize optical transceiver power consumption without ...

Energy Conservation in Passive Optical Networks A Tutorial and Survey. This article provides a comprehensive survey on energy conservation in Passive Optical Networks (PON), discussing the ...

This paper presents a comprehensive review of methods aimed at improving the energy efficiency (EE) of wired access passive optical networks (PONs) and active optical networks (AONs).

In this paper, energy-efficient traffic data aggregation and energy-aware routing are presented to increase the network lifetime of the system. The traffic data aggregation reduces ...

We present a comprehensive survey of the energy conservation research efforts in PON starting from conventional PON to SDN based PON leveraging virtual and physical network functions.

This paper introduces a passive optical network design with 2-tier cascaded Arrayed Waveguide Grating Routers (AWGRs) to connect groups of racks (i.e. cells) within a data center.

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