Making green communication base station equipment power saving

What is a base station equipment?The base station equipment consists of two parts. BBU performs baseband processing. RU converts baseband signals to radio signals or vice versa for transmission or reception over antennas. Table 2.1 shows a comparison of energy consumption between BBUs and RUs of various types of equipment used by SK Telecom. What is a suitable energy saving strategy?The suitable energy saving strategy combined with different energy saving functions, include an initial relative threshold to the scenario and an executable energy saving time schedule. This will be enabled for the sites that are expected to have energy saving effects. What is intelligent base station edge decision-making?Intelligent Base Station Edge decision-making boosts performance 03 Information flow moves from terminals - air interface - AAU/RRU/BBU - transmission network -core network to Internet. As the central part of information flow, base stations also known as gNBs are widely distributed. What is a base station (GNB)?As the central part of information flow, base stations also known as gNBs are widely distributed. Located the nearest to end users, gNBs have more real-time data that can be used to balance network requirements and energy consumption. Can network energy saving technologies reduce 5th generation energy consumption?This Technical Report explores how network energy saving technologies that have emerged since the 4th generation of wireless networks (4G) era, such as carrier shutdown, channel shutdown, symbol shutdown, etc., can be leveraged to mitigate 5th generation of wireless networks (5G) energy consumption. What energy saving technologies will be introduced during the 4G era?Some energy saving technologies since the 4G era will be explained in detail while artificial intelligence (AI) and big data technology will be introduced in response to the requirement of an intelligent and self-adaptive energy saving solution. Various approaches have been proposed to reduce the energy consumption of an RBS, for instance, passive cooling techniques, energy-efficient backhaul solutions, and distributed base station design by using a remote radio head (RRH). Optimal energy-saving operation strategy of 5G base station To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching Remake Green 5G Nov 10, &#; The Ministry of Industry and Information Technology issued the " Action Plan for Green and Low-Carbon Development of the Information and Communication Industry (Toward Green Network: An Expanding of Base Station Energy-Saving Aug 4, &#; Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the NEC's Energy Efficient Technologies Development for 5G Oct 12, &#; NEC's Energy Efficient Technologies Development for 5G and Beyond Base Stations toward Green Society Millimeter-wave Beamforming IC and Antenna Modules with Bi Final draft of deliverable D.WG3-02-Smart Energy Saving Oct 4, &#; For hardware energy saving, it is mainly achieved by base station equipment architecture design optimization, the increase of chip integration like baseband processing, 9 Introduction The rapid growth of mobile communications comes with the prominent energyconsumption challenge. It has become

so critical that, without being dealt with in Energy-Efficient Base Stations Sleep Mode Techniques in May 4, &#; Abstract--Due to global climate change as well as economic concern of network operators, energy consumption of the infras-tructure of cellular networks, or "Green Cellular Minimizing base stations carbon footprint Jun 1, &#; In an equipment room, only 60% of the power used is for the main communications equipment, with the remaining 40% used for heat dissipation. Simplifying these sites by Two-Time Scale Energy-Saving Scheme with Base Station Jul 25, &#; Green communications (GC) is an urgent need for 5G and 6G. How to realize GC with guaranteed quality of service is still a challenging problem. This paper investigates the Green Mobile Network: Energy Saving Efforts by SK Feb 21, &#; SK Telecom and NTT DOCOMO believe that reducing energy consumption and introducing effective energy saving technologies in the mobile communication networks are Optimal energy-saving operation strategy of 5G base station To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching Green Mobile Network: Energy Saving Efforts by SK Feb 21, &#; SK Telecom and NTT DOCOMO believe that reducing energy consumption and introducing effective energy saving technologies in the mobile communication networks are

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