

June 24, 2021

## **China Unicom announced its 14<sup>th</sup> Five-Year Plan on “Peak Carbon-emission & Carbon-neutrality”**

With the aim for green, low-carbon, and circular development, China Unicom will comprehensively, systematically and thoroughly push forward energy-saving and carbon-reduction work, clearly implementing the "3+5+1+1" plan, and continuously improve the level of green communication network infrastructure, fuelling the green, low-carbon, and high-quality development of the industry to reach to a new level.

"3" refers to the establishment of three major carbon management systems, namely carbon data management system, carbon footprint management system, and energy trading management system, based on the development of low-carbon and circular development. Through the establishment and improvement of three major systems, energy indicators will be strengthened, carbon footprint of key energy-consuming equipment will be mapped, and participation in the carbon emission trading market will be made in orderly manner.

"5" refers to the focuses on five green development directions. Firstly, it will promote the low-carbon operation of mobile base stations, and advocate ultra-simple site construction and tidal energy conservation and other technologies, while orderly increasing the proportion of clean energy. Secondly, it will build a green and low-carbon data center by improving the energy efficiency of the system via reducing power supply loss and simplifying distribution, as well as using natural cooling sources for air-conditioning. Thirdly, it will further promote the green and low-carbon reconstruction of various communication equipment rooms. Fourthly, it will accelerate network streamlining and optimization, decommissioning of old and wore equipment. And, the fifth direction is to enhance the level of smart energy management.

"1" refers to the deepening and expansion of “co-build co-share” by further advancing the “co-build co-share” of industry fundamental infrastructure resources, and expanding the scope of cooperation partners in pilot projects.



The last "1" refers to digital empowerment of industry applications, helping numerous industries to save energy and reduce carbon emissions. For example, China Unicom facilitates highway video cloud-networking projects to achieve centralized and unified storage of videos on cloud; it leverages technologies like 5G, vehicle-road collaboration, and precise positioning to help more than ten ports such as Qingdao Port, Ningbo Port and Huanghua Port to reduce costs and increase efficiency; it provides scrap steel intelligent classification and other applications for scrap steel processing at distribution centers and major steel mills to enhance the reuse of steel-type renewable resources.

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