

# GREEN AND ENVIRONMENTAL-FRIENDLY DEVELOPMENT

Green development is the cornerstone to build a “beautiful China”. China Unicom views environmental protection and green low-carbon initiatives as important step in our corporate development with an aim to build an environmental-friendly enterprise. In 2016, we continued our efforts to build green network, advance green operation, strengthen green management, implement energy conservation and emission reduction, and carry out green charitable campaigns to promote green philosophies, thus contributing to the coordinated development of economy, society and nature.

## Measures adopted in 2016

- Designated RMB200 million for energy-saving and emission reduction, mainly used in energy-saving renovation and application of energy-saving technology; the coverage rate of energy-saving technology in the access network room and communication room reached 64% and 72%, respectively.
- Special projects including strengthening energy-saving management, promoting network downsizing and optical fibre reconstruction; carrying out publicity campaigns on energy-saving and emission reduction, to realise ceaseless reduction of energy consumption for unit information flow.
- Implemented green actions, built haze-detection network, launched “mobile phone trade-in” service, and pushed forward green transportation.

## Actions in 2017

- Further strengthen energy-saving management, promote energy-saving technology, carry out publicity campaign of energy-saving, enhance cyclic utilisation of materials, deepen co-build and co-share with associated companies, and promote harmonious coexistence between the Company and the environment.
- Further deepen the integration of green concepts into operation and production, and extensively carry out green practices.

Upholding the philosophy of green “information life”, China Unicom endeavored to cut down on energy consumption in its operation, reduce greenhouse gas emissions and enhance sewage and waste emission management in an effort to minimise its impact on the environment. The Company strengthened management on energy conservation and emission reduction and infiltrated such practices into its various operations ranging from equipment procurement to engineering, equipment maintenance, marketing and administration. By setting up and improving the energy conservation and emission reduction management framework, including encompassing system and standards, statistic indicators, appraisal and incentives, energy-saving technology and organisational structure, it would ensure effective implementation of the standards for energy saving and emission reduction. In 2016, the Company designated about RMB200 million for energy-saving and emission reduction, mainly used in energy-saving renovation and application of energy-saving technology. The coverage rate of energy-saving technology in the access network room and communication room reached 64% and 72%, respectively. Through other special programmes such as network optimisation, fibre network upgrade, as well as carrying out publicity campaigns on energy-saving and emission reduction, the Company saved energy equivalent to 156,500 tonnes of standard coal during the year.

COVERAGE RATE OF  
ENERGY-SAVING  
TECHNOLOGY IN  
ACCESS NETWORK ROOM

64%

COVERAGE RATE OF  
ENERGY-SAVING  
TECHNOLOGY IN  
COMMUNICATION ROOM

72%

China Unicom Head Office Building realised reutilisation of reclaimed water, producing about 800m<sup>3</sup> of reclaimed water every year. By water balance measurement, the Company met as a qualified water-saving company, recognised rainwater-sewage separation and obtained the License for the Discharge of Urban Sewage into the Drainage Network.

## BUILD GREEN NETWORK

### Insist on green procurement

The Company actively promotes the procurement of energy-saving and emission reduction equipment, and implements green and safe procurement in terms of equipment model selection; specifies clearly on energy consumption standards and energy-saving requirements for equipment, and takes energy consumption, energy-saving product certification and radiation indicator of equipment as important procurement indicators for evaluation; promotes centralised procurement of efficient and energy-saving equipment. In 2016, the Company completed group procurement of energy-saving air conditioning system with direct current system, efficient module and intelligent double-circulation, which will safeguard the implementation of subsequent energy-saving construction plan.

### Energy-saving technology application

The Company runs existing network tests on three new energy-saving technologies, including 336V high voltage direct current system, high magnification discharge battery, and aluminum alloy cable. The “AC main power supply +336V high voltage direct current” power supply mode is used to verify the energy-saving effect of the new two-circuit power supply mode; high magnification discharge battery is used to verify the high current discharge performance of new battery and the effect of battery with low configuration; aluminum alloy cable is to verify the performance of new cable and evaluate its effects under environment and construction requirements, as well as the cost-saving effects for the investment.

Note: Currently the amounts of hazardous waste discharge, non-hazardous waste discharge and the total amount of packaging materials used in manufactured products have not been calculated and we will establish a statistical system for such data as soon as possible.