Green ICT, Lighting up the Green Future

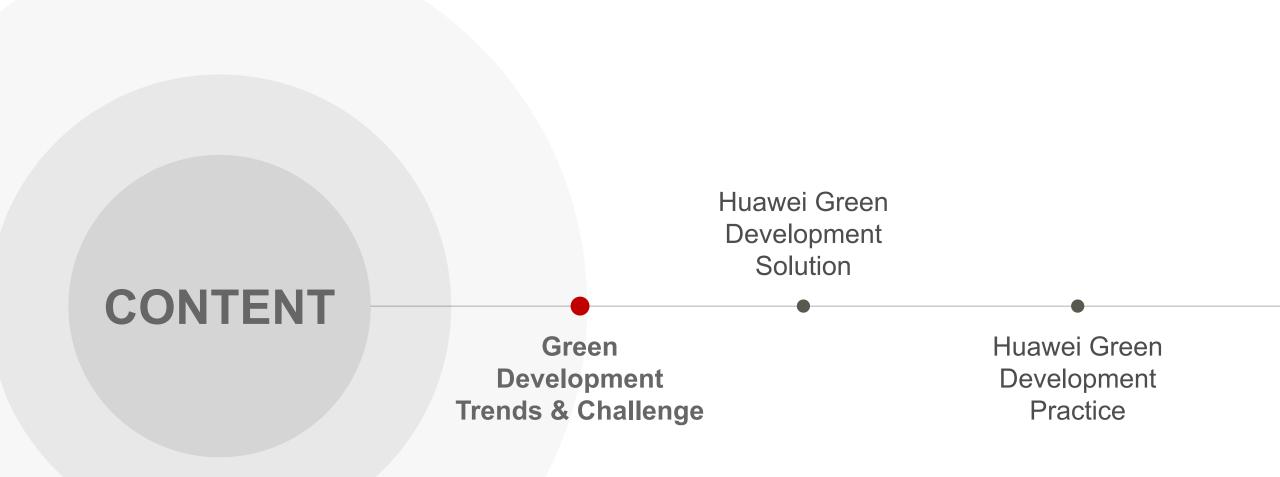
Trendek és lehetőségek a távközlés minimál karbonkibocsátására

Kiefer Tamás

Key Account Director







"Green Development" Has Become Global Consensus



192 counties committed 68% of countries carbon Net Zero in 2050

Government Publishing Policies

EU: "Green Deal", Carbon Net Zero by 2050



The European Green Deal is our new growth strategy. It will help us cut emissions while creating jobs.

Ursula von der Leyen, President of the European Commission

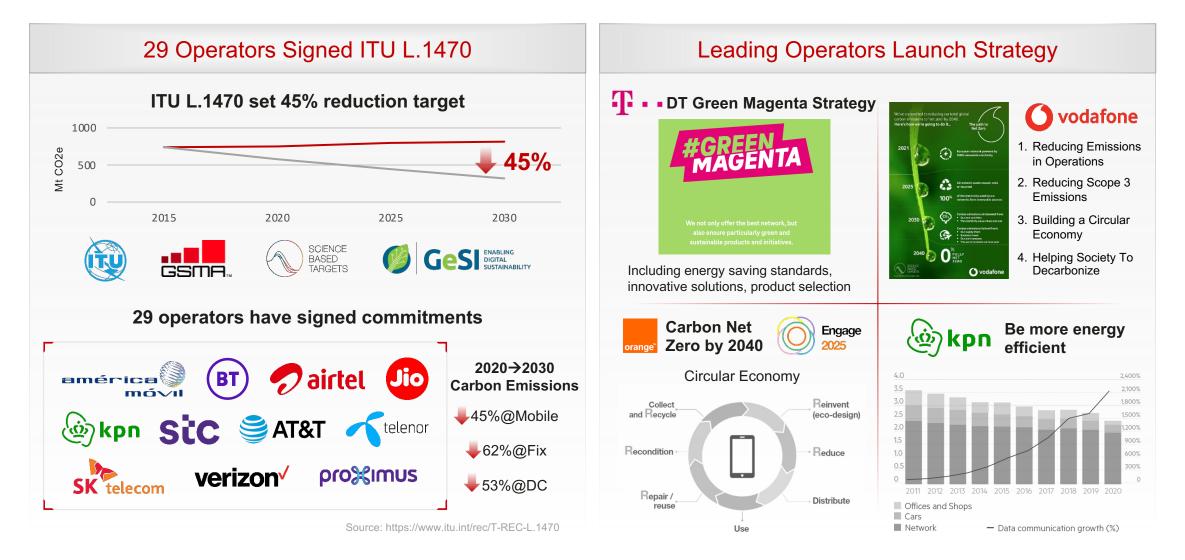
China: Emission Peak 2030, Carbon Net Zero 2060



China proposed at the 75th United Nations General Assembly: China will increase its nationally determined contribution and adopt more powerful policies and measures. Emission Peak by 2030 and Carbon Net Zero by 2060



ICT Setting Target of 45% Emission Reduction by 2030



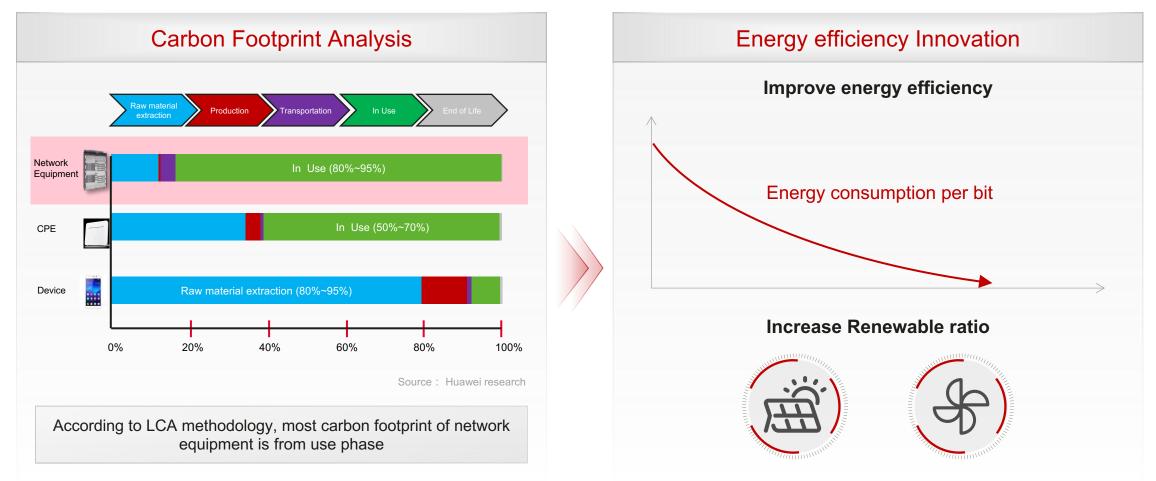


Challenge: Explosive Digital Business Brings More Energy Consumption



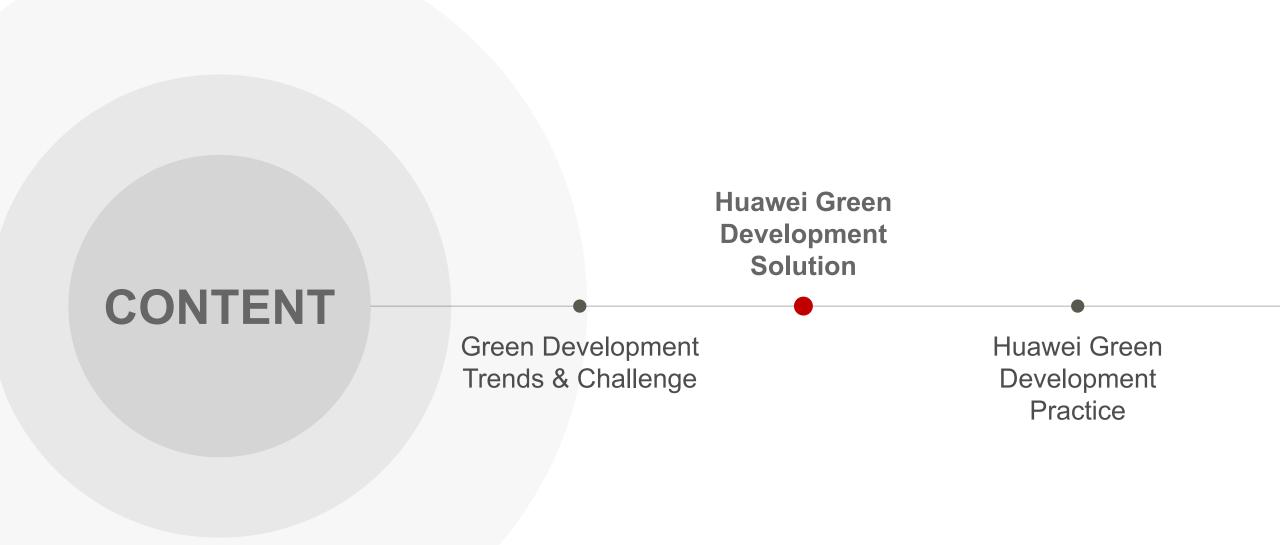


Most Energy Consumption Comes From Use Phase of Network

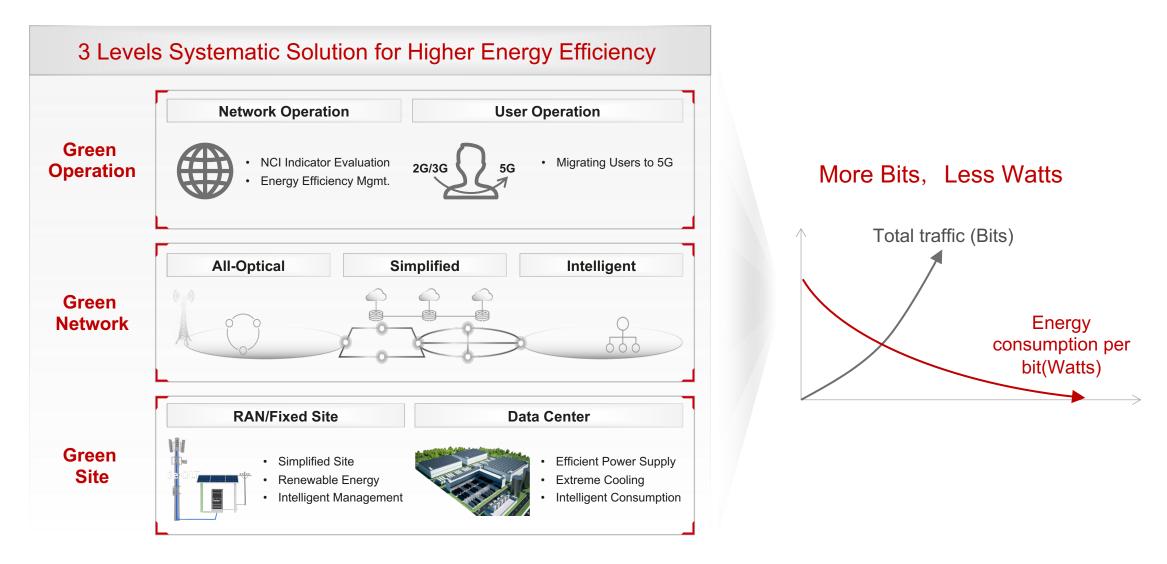


Energy efficiency improvement has become a major topic to cope with green development strategy.





Huawei Green Development Solution: More Bits, Less Watts





Green Operation

Green Site: Simplified, Renewable & Intelligent

Intelligent management system

Traditional Site

Green Site

Simplified Site

- All-in-one ANT: Multiple ANT > Single ANT, coverage 20% ↑
- High Integration RF: one-frq RF -> multi-frq combination, power 20% ↓
- Blade OLT: OLT on tower, power 85% ↓
- Indoor-to-outdoor: Shelter -> Cabinet, power 15% -25% ↓

Maximizing Renewable Energy

• Solar Access: D.G. + Grid - > Solar + Grid, mains power 15% ~ 25%↓

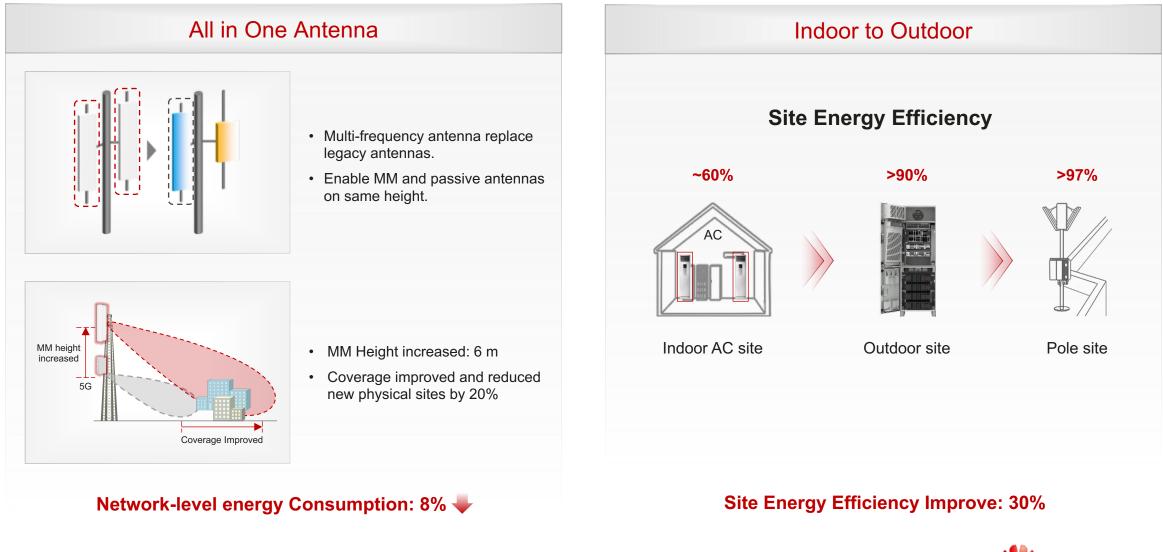
Intelligent Energy Management

• PowerStar: Intelligent management, power 10% ↓

Note: There have been 100+ countries deployed...



Simplified Site and Highly Integrated Module





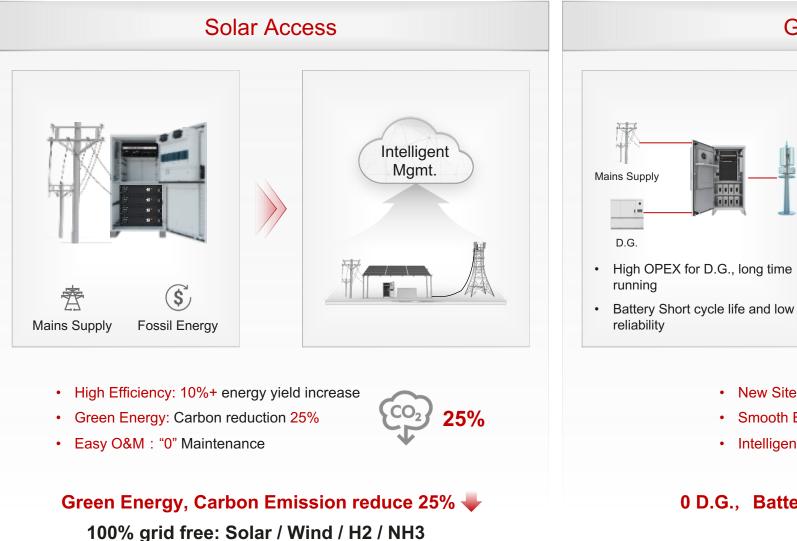
Green Network

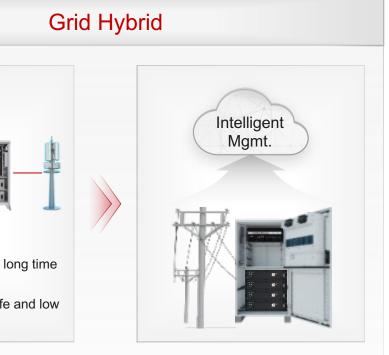
Fixed Network Site Efficiency





Renewable Energy for Green Development





Green Network

- New Site : "0" D.G.@16h blackout
- Smooth Evolution: 1 site 1 cabinet
- Intelligent: Environment Friendly



Time(hours)

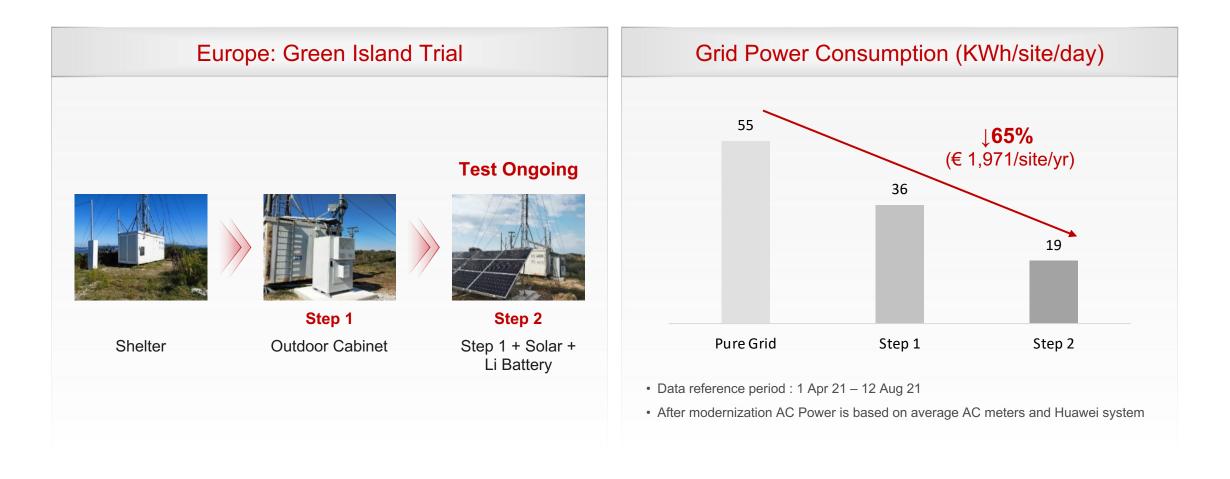
Huawei: solar synergy with storage,

0 D.G., Battery Life increase 3%-5%



Green Operation

Case2: Green Island in Europe, 65% Power Consumption Saving



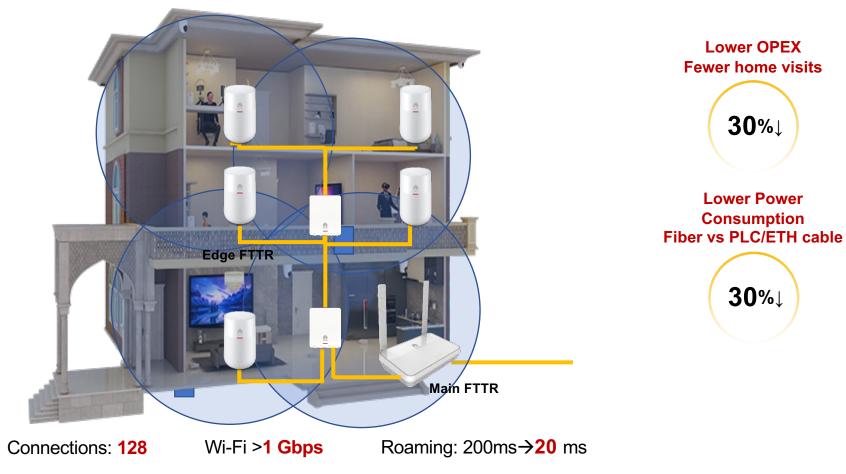


Green Network

Energy Saving At Home

Huawei FTTR (Fiber To The Room) Solution

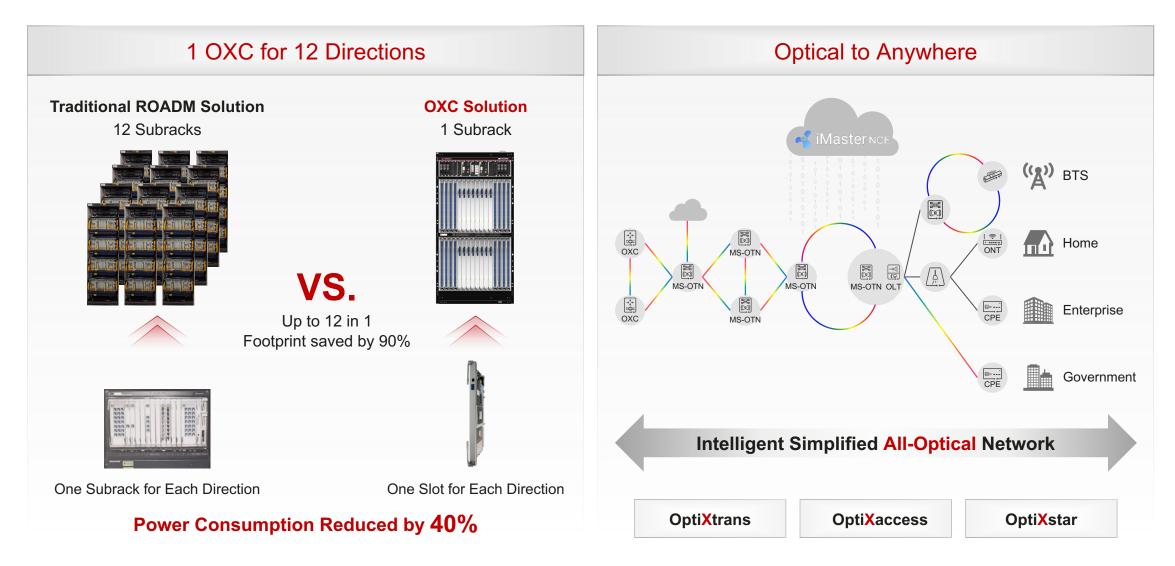
GIGA Wi-Fi Everywhere, Extreme Experience





Green Operation

All-Optical: ROADM to OXC, Bring All Optical to Anywhere



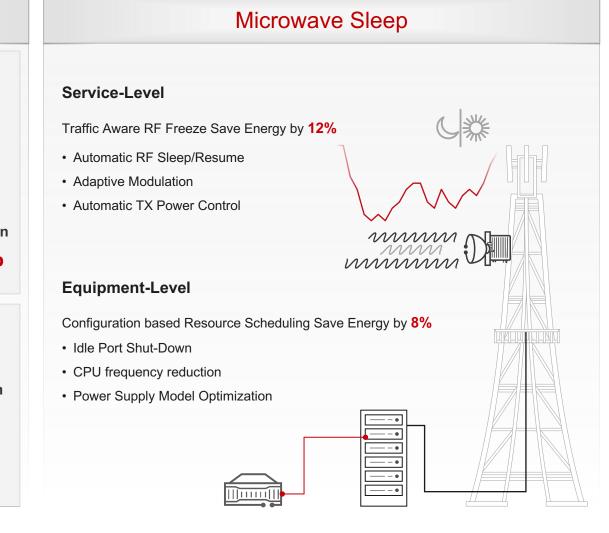


Intelligent: Partitioned Management & Intelligent Adjustment

Router Sleep		
Resource Partitioned Management		
Components Hibernating PIC 0 NP TM	Partition1 (Hibernating)	
Components Working PIC 1	Partition2 (Working)	
Components Hibernating PIC 2 NP TM	Partition3 (Hibernating)	Power Consumption
Components Working PIC 3 NP TM	Partition4 (Working)	Reduce by 20%
Dynamic Adjustment		
~IP Traffic — Energy Consumption		Power Consumption Reduce by 20%

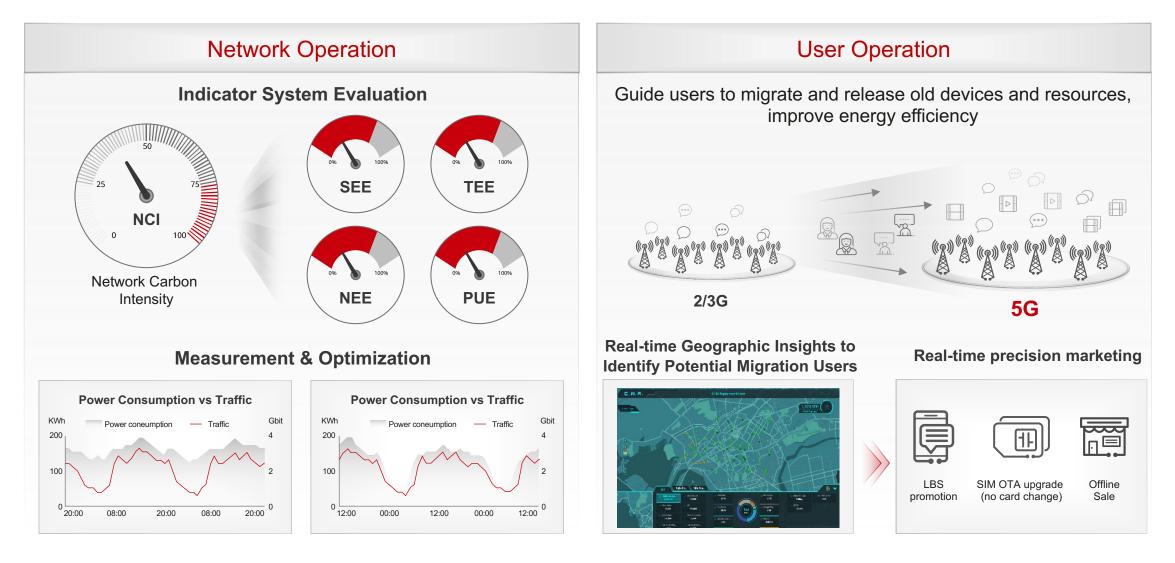


16

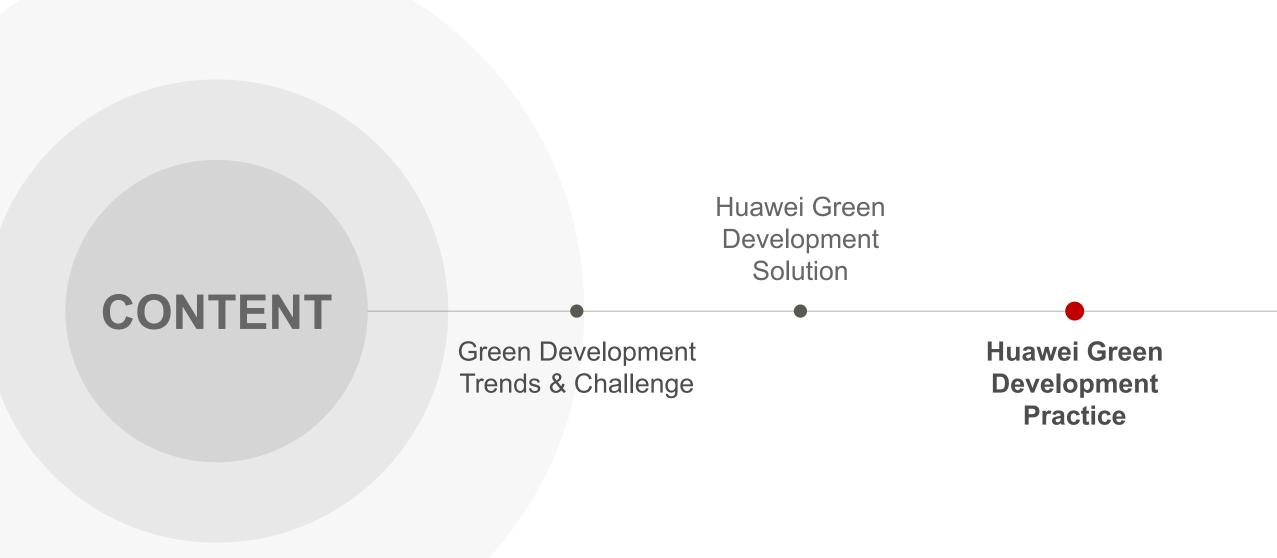




Green Operation: Accurate Energy Efficiency Improvement







Huawei Protecting The Environment with Technological Innovations



2025 Goals

Commitment

reduction in carbon emissions per million CNY of revenue compared with 2019

16%

2.7x

gain in average energy efficiency of main products compared with 2019

Top 100

suppliers have set carbon emission reduction targets

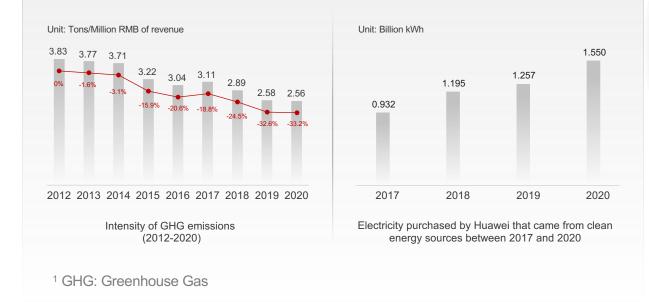


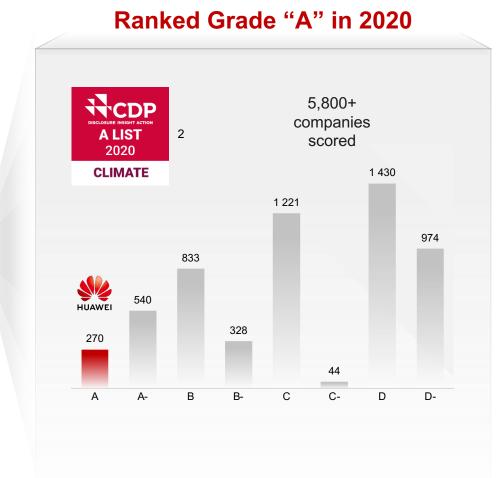


Huawei Constantly Reducing The GHG Emissions Intensity

Key Achievements in 2020

- Intensity of GHG¹ emissions reduced by 33.2% from 3.83 ton /mn¥ in 2012 to 2.56 ton/mn¥ in 2020.
- 1.55 bn kWh of clean source electricity used, equivalent to CO₂ reduction by 620,000 tons.





² CDP: Carbon Disclosure Project, a not-for-profit charity that runs the global disclosure system.



Thank you.

把数字世界带入每个人、每个家庭、 每个组织,构建万物互联的智能世界。 Bring digital to every person, home and organization for a fully connected, intelligent world.

Copyright©2022 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

