Green for ICT, ICT for Green

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Building a Fully Connected, Intelligent World



Major economies are prioritizing sustainable investment

Carbon neutrality is a global mission





88% Carbon emissions







85% population

Source: https://zerotracker.net/

Green industries are crucial for carbon neutrality



European Green Deal 1 trillion euros in 10 years



Long-Term Strategy for Net-Zero Emissions by 2050 US\$2 trillion



Japan

Green Growth Strategy 2 trillion yen in 10 years



Operators are Concerned about Energy Efficiency, RER and Monitoring System

Global accelerated CO2e reduction action

Challenges for operators

Targets & actions taken by operators

- **T** •
- Double energy efficiency





Emission reduction / year: 3.3% ->7.6% for 1.5°C target



Four Initiatives Accelerate Green Development

"A sustainable society is one that operates to ensure that future generations can enjoy **Energy Efficiency f** (@ active) Energy Initiative 1 living standards at least as ample as those Efficiency + Energy Consumption √(@ idle) of today ... -- "The Spirit of Green", by William D. Nordhaus (Nobel Prize in Economics in 2018) **Deployment Scaling** Renewable Initiative 2 **Energy Ratio** + Intelligent Scheduling Energy (by Intelligent awareness) Efficiency **Guaranteed KPI** Green Initiative 3 Experience + Guaranteed UX (enable by data-driven) **Development** Renewable **Standardized Green Indicator** User Green Initiative 4 Energy Experience Indicator Ratio + Visible Management System



Green for ICT, ICT for Green





All-scenario Green Development Indicator System Helping Carriers Achieve Carbon Neutrality





Expert-driven to Data-driven, Optimize Energy Efficiency for Each Bit

4G/5G user migration greatly improves energy efficiency



Energy efficiency visible, manageable, and optimizable





PowerStar: RAN Energy Saving From Expert-Driven to Data-Driven, Achieving Optimal Performance and Energy Efficiency





All-Optical & Intelligent Boost Energy Efficiency







Intelligent Awareness, Dynamic Scheduling and Super Deep Dormancy for Optimal Energy Efficiency and Energy Consumption





Power Domain: Intelligent-based Inter-Site Power Optimization





Next-Generation Data Centers Lead to Zero Emissions





DESIRE to Green Target Network



Going Green Future Togethe

Green Operation, Green Network, Green Site

