



GWFF

GEOSPATIAL WORLD FORUM

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5G^v

Building Sustainable Digital Public Infrastructure

Bharadwaj Pulugundla, MBA

5G & Edge Innovation
Verizon Business

May, 2024



<https://www.youtube.com/watch?v=ZlgDRqLzJ5s>



Climate Action – Big Picture in Numbers

ICE SHEETS

↓ 140

billion metric tons per year since 2002

CARBON DIOXIDE

↑ 425

Parts per million

GLOBAL TEMPERATURE

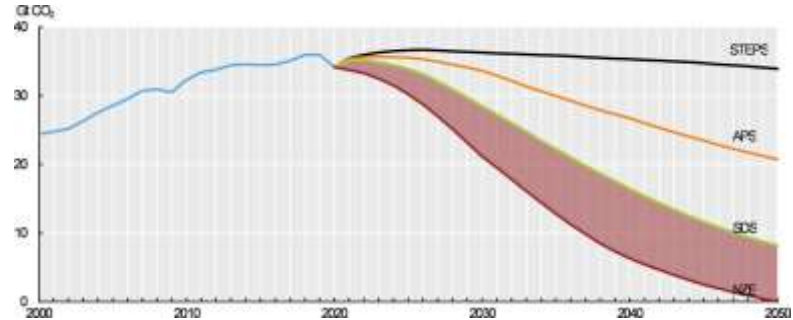
↑ 1.4°C

Parts per million

METHANE

↑ 1932

Parts per billion



Energy-related and industrial process CO2 emissions in the IEA World Energy Outlook 2021 scenarios

- The Stated Policies Scenario (STEPS)
- Announced Pledges Scenario (APS)
- Sustainable Development Scenario (SDS)
- Net Zero Emissions (NZE)



Utilities Decarbonization



Renewable
Energy Sources



Energy
Storage



Grid
Modernization



Electrification



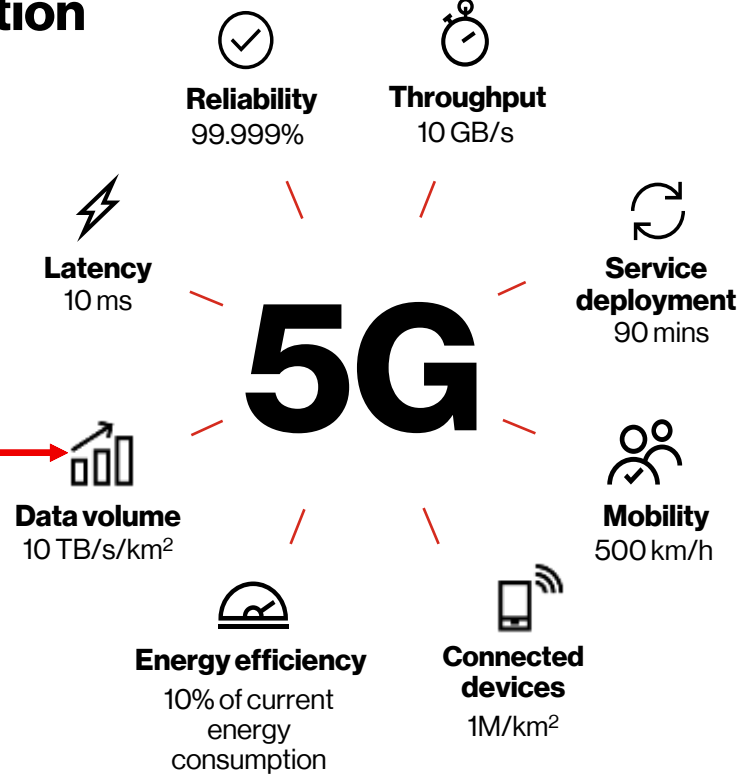
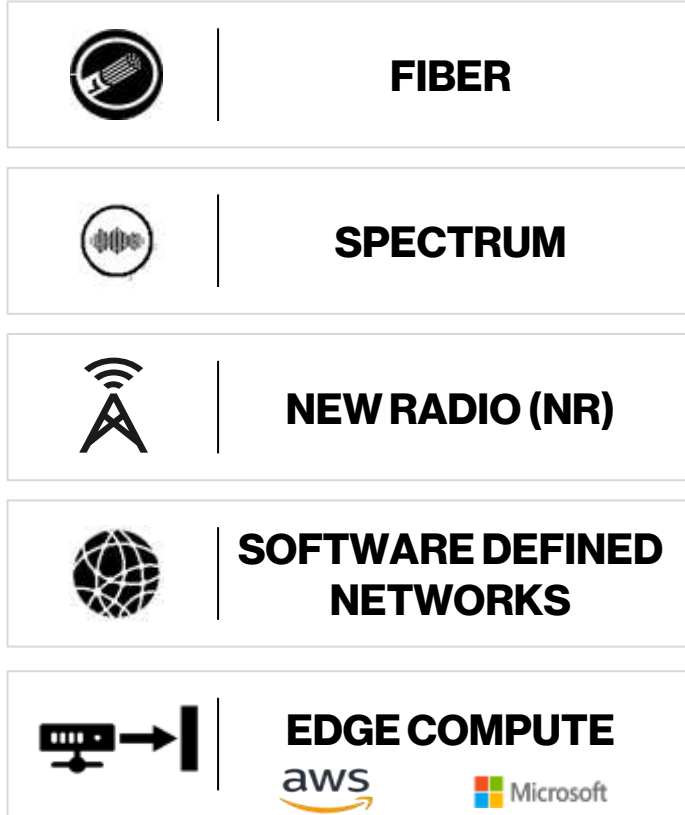
Energy
Efficiency



Carbon Capture
& Storage



Telecoms infrastructure for Decarbonization



Telcos and utilities collaboration for decarbonization



Grid
Management



EV Charging
Network



Data Sharing &
Interoperability



Realtime
Analysis



Cybersecurity
& Privacy



Energy Efficiency
Management



Climate Action – Verizon Initiatives



~3.6 GW of anticipated renewable energy under contract* ~ 13%

Target: 100% by 2030, 50% by 2025



\$6 billion in green bonds issued*



23.3% (against 53% target by 2030) reduction in scopes 1 and 2 emissions

15.1% (against net zero by 2035) reduction in scope 3 emissions (2019 – 2022)



20+ million trees planted since 2009*

*as of February 2024

<https://www.verizon.com/about/sites/default/files/Verizon-2023-ESG-Report.pdf>



Key Takeaways



Need more collaboration,
joint R&D



Business Opportunity



Telcos are enablers for global
green innovation



Implement Green policies and
practices



Climate Action – Resources



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