

Juniper's Framework for Network Sustainability

A powerful framework for sustainable networking deployment



Juniper and STL Partners crafted an in-depth report on the importance of implementing a comprehensive approach to sustainable networking

Telecom is focused on driving sustainability initiatives

73% of Tier-1 and Tier-2 telecom operators have committed to net zero emissions between 2040 and 2050



But traffic growth driven by data-intensive apps puts these initiatives at risk



Annual traffic rates are currently growing up to

40% 
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01010
00110

Maintaining pace with this growing demand threatens global net-zero emissions goals

How can you reduce energy consumption without sacrificing end user experience?

Juniper's end-to-end sustainability framework offers hope

Juniper's innovative framework focuses on leveraging the right silicon, systems, and operations—including the right automation, analytics, and AI—to create a solid foundation for more sustainable, scalable networks



Silicon



Juniper's Express 5 silicon powers Juniper PTX Series routers, leveraging

7nm silicon technology

to deliver faster switching, higher density, and an energy efficient

28.8 Tbps at 0.05 W/Gbps

CORA delivers efficiency and savings with a

45% TCO savings 

77% lower power consumption with Cloud Metro 

Systems



Operations



Juniper Paragon

Automation helps reduces TCO up to

27%

Juniper Mist

helps reduce truck rolls by up to

85%

Together we can take decisive action to execute meaningful sustainability initiatives across your entire network

Learn more about how Juniper Networks and our partners are leading the way

[Read the full report](#)

[Learn more](#)

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