



# Designing Green Networks and Network Operations: Saving Run-the-Engine Costs

By Daniel Minoli



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In recent years, socio-political trends toward environmental responsibility and the pressing need to reduce Run-the-Engine (RTE) costs have resulted in the concept of Green IT. Although a significant amount of energy is used to operate routing, switching, and transmission equipment, comparatively less attention has been paid to Green Networking. A clear and concise introduction to green networks and green network operations, **Designing Green Networks and Network Operations: Saving Run-the-Engine Costs** guides you through the techniques available to achieve efficiency goals for corporate and carrier networks, including deploying more efficient hardware, blade form-factor routers and switches, and pursuing consolidation, virtualization, and network and cloud computing.

The book:

- Delineates techniques to minimize network power, cooling, floor space, and online storage while optimizing service performance, capacity, and availability
- Discusses virtualization, network computing, and Web services as approaches for green data centers and networks
- Emphasizes best practices and compliance with international standards for green operations
- Extends the green data center techniques to the networking environment
- Incorporates green principles in the intranet, extranet, and the entire IT infrastructures
- Reviews networking, power management, HVAC and CRAC basics
- Presents methodical steps toward a seamless migration to Green IT and Green Networking



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**Designing Green Networks and Network Operations: Saving Run-the-Engine Costs** By Daniel Minoli  
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Review

*"This overview should appeal to operational personnel who want to estimate cost and investment impacts or consider systems engineering options affecting the latter. ... the book is a time saver, and it may help contributors to greener designs see their specific work in a broader context."*

? *Computing Reviews*, June 2012

### About the Author

Daniel Minoli is one of the most popular authors on the telecom and networking technology shelf, with more than a dozen well-received guides to his credit. The newly appointed CTO of a startup wi-fi ISP, he is the former President and CEO of InfoPort Communications Group; former Director of Engineering and Development at cable giant Teleport Communications Group, now part of AT&T; and a former Senior Member of the Technical Staff at AT&T. His books include the first handbook in the industry, "Telecommunications Technology Handbook." Among his recent works are the highly rated "Web Commerce Technology Handbook; SONET-Based Metro Area Networks;" and "Ethernet-Based Metro Area Networks, " written with Peter Johnson.

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