

Networked Sustainability

David Hsieh

Vice President, Emerging Technologies

The Cisco Vision

changing the way we work, live, play, and learn...



in a more sustainable way.

"By deploying innovative information technology and using the network as a platform for 21st century environmental management, we believe we can significantly alter our greenhouse gas footprint and help our customers meet their sustainability goals."



John Chambers Chairman and CEO

SMART 2020: ICT Climate Change Solutions



SMART 2020: Enabling the low carbon economy in the information age



 According to the SMART 2020 Report, ICT could reduce global emissions up to 15% by 2020; five times its own footprint in 2020.

Key requirements to capture opportunity:

New Business Models Energy Efficiency R&D Investments New Ecosystems New Regulatory Models Active Carbon Markets

Vision



REDUCE

If it's Connected to the Internet, it can be Greener

- Electricity use in offices
- Appliances in homes
- Traffic flows in cities

Cisco's Commitment To Reduce 25% Reduction in GHG Emissions by 2012

Labs and data centers
Cisco connected workspace
Collaboration technologies

AGENC

UNITED .

TAL PRO

STATES

Differentiated Strategy

EcoBoard:

Set vision, accountable to Cisco Operating Committee

Green Task Force:

Execute vision of EcoBoard via long-term programs and initiatives

Green Engineering Task Force:

Deliver thought leadership & product solutions focused on climate change

Global Green Working Teams:

Execute near-term initiatives, all initiatives and programs reported under ISO 14001

Cisco's Sustainable Business Practices

Collaborating across organizations to build new models for dealing with environmental issues, for both Cisco and our customers



Sustainable Company Operations

- Understanding our carbon footprint and helping others understand theirs.
- Lowering energy consumption and business air travel, and using technology to reduce our overall GhG emissions.
- Energy efficiency and responsible use of scarce resources in our labs, data centers and office buildings.
- Strategic procurement of green energy in our operations.
- Involving employees in all aspects of the company's environmental efforts.







Customers Green Goals



Optimize Business Operations



Reduce GhG Emissions

Reduce Energy Consumption and Costs

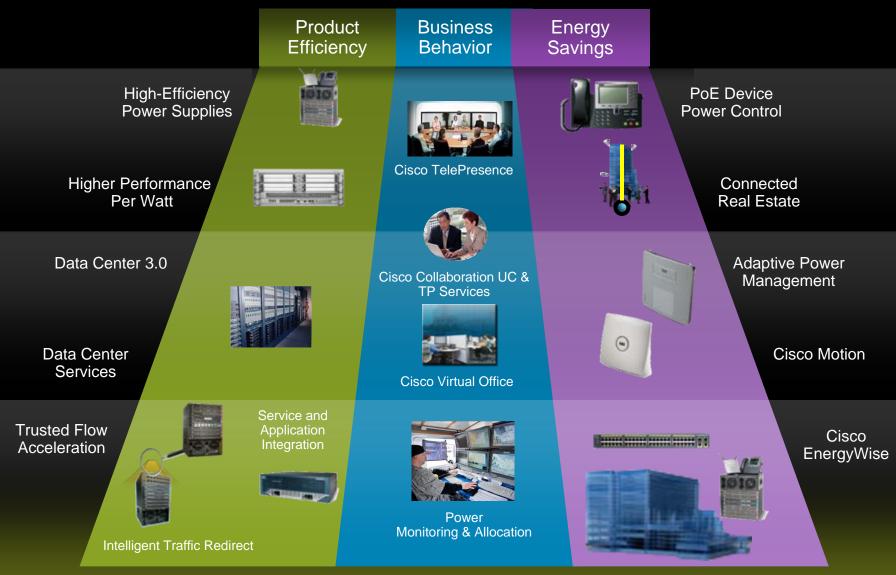


Comply With Government Directives

Create Competitive Differentiation



Continuum of Sustainable Innovations



Cisco's Sustainable Solutions



Smart+Connected Transportation



Smart+Connected Safety and Security



Smart+Connected Utilities



Smart+Connected Real Estate & Communities



Smart+Connected Education



Smart+Connected Health



Smart+Connected Government

Cisco Working With Smart+ Connected Communities Worldwide



Smart Connected Energy Roadmap

Phase 2 : Smart Connected Buildings July 2009

Phase 1 : EnergyWise February 2009

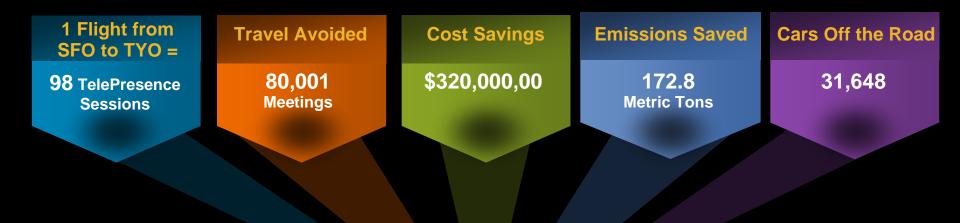
Energy management for IT Systems and Devices

Energy management for building Systems and Devices

Phase 3 : Smart Grid 2010

Energy management across the Grid

Sustainable Solutions: TelePresence





Changing the Way We Work, Live, Play and Learn

Source: Cisco TelePresence Executive Metrics Dashboard Time Frame: 153 Weeks

Cisco and Climate Change

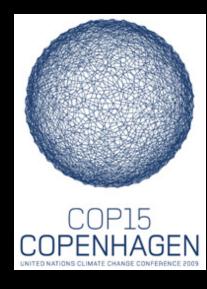
Official Telepresence sponsor of COP15

Systems in Copenhagen connected to 70+ cities globally

- UN hosted "Global Climate Change Meeting Platform"
- Global connectivity for climate change community of interest:
 - Governments
 - NGOs and IGOs
 - Press

UN deployments in Geneva, New York, Bonn and Nairobi





Telepresence in the Healthcare industry

Telepresence with John D. Halamka, MD, MS

- Chief Information Officer of Beth Israel Deaconess Medical Center
- Chief Information Officer of Harvard Medical School
- Chairman of the New England Healthcare Exchange Network
- Chair of the US Healthcare Information Technology Standards Panel
- Co-Chair of the HIT Standards Committee
- Practicing Emergency Physician

Environmental Concerns

Climate Change is a High Political Priority

- U.S. Goal 83% emissions reduction by 2050
- Japan announced "Cool Earth 50" to cut GhG emissions in half by 2050
- California set GhG emission cap to 1990 levels by 2020
- EU "20-20-20" reduces GhG by 20%, use 20% renewable energy by 2020

GhG emission projections pose climate changing threat

metric tons in 2005 to 42 3B metric tons in 2030 "	Energy Information Administration
"Commercial buildings are third- fastest growing CO ₂ emissions source."	IEA, Emissions by Sector