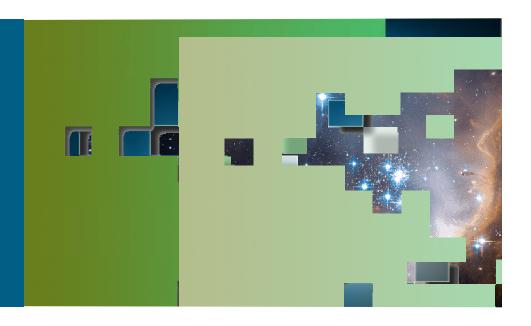


Cisco's Green Story

Danish Expo

5th March, 2008



Welcome to a brand new day



The Issue

If no action is taken on emissions, there is more than a 75% chance of global temperatures rising between two and three degrees Celsius over the next 50 years

Stern Review (commissioned by the UK Government) Source: http://www.hm-treasury.gov.uk

Melting glaciers will increase flood risk

Crop yields will decline, particularly in Africa

Rising sea levels could leave 200 million people permanently displaced

Up to 40% of species could face extinction

There will be more examples of extreme weather and could reduce global gross domestic product (GDP) by up to 1%

Temperature rises by 5°C, would reduce up to 10% of global output.

The poorest countries would lose more than 10% of their output

In the worst case scenario global consumption per head would fall 20%

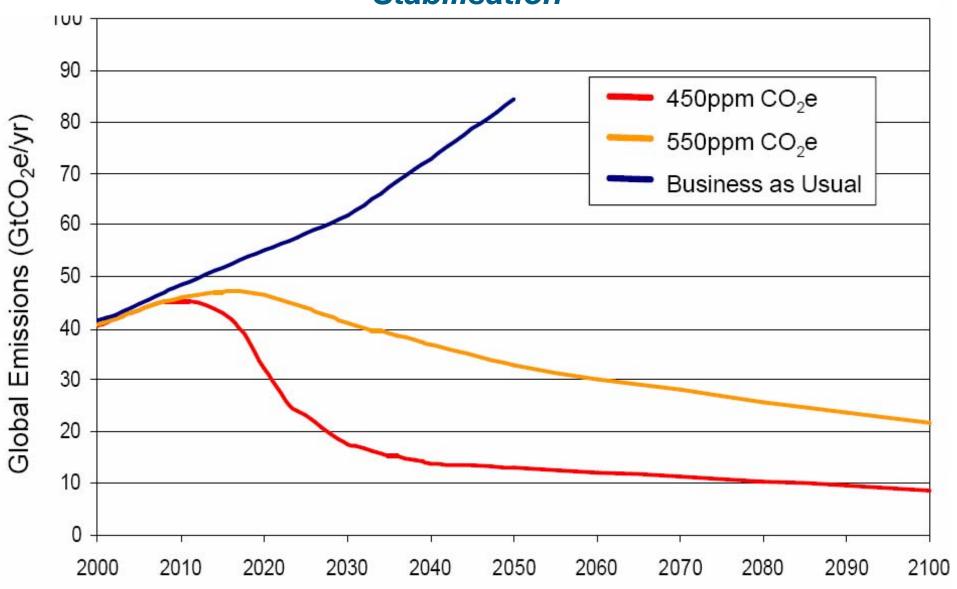
Stern Review (commissioned by the UK Government) Source: http://www.hm-treasury.gov.uk/



Examples: What does 1t CO₂ represent?

		1t CO ₂ is
Saloon Car	200g/km	5,000km (3,125 miles)
Sports Car	400g/km	2,500km (1,563 miles)
Short Haul Flight (per person)	150g/km	6,667km (4,167 miles)
Medium Haul Flight (per person)	120g/km	8,333km (5,208 miles)
Long Haul Flight (per person)	110g/km	9,091km (5,682 miles)
Single Aircraft Flight	162t CO ₂	39km (24 miles)
2-Way Telepresence Call	16kW	134h (13 Bus. Days)
C6500 w/ FWM, ACE	1,380W	1,552h (65 Days)
C6500 w/ 384 7971G IP Phones	3,837W	558h (23 Days)
Average UK Data Centre	£5.3M/yr	17 minutes
All US Data Centres Servers	45B kWh	1.2 seconds

How many tons make an impact? - Emissions Paths to Stabilisation



Shareholder Concerns

Investors are increasingly aware that environmental policies and regulations can affect shareholder value

CARBON DISCLOSURE PROJECT

The CDP4 information request was signed by 211 institutional investors with assets of more than \$31 trillion; six times more than 2003. CDP points to a continued elevation of climate change as a critical shareholder value issue in the minds of investors and corporations alike.



Enterprises and Governments Are Making Bold Statements on CO₂



May 8, 2007

Citi Targets \$50 Billion Over 10 Years to Address Global Climate Change

News Corporation

May 9, 2007

News Corporation Commits to becoming Carbon Neutral by 2010

Abu Dhabi Launches World's First Zero-**Carbon City** May 8, 2007

September 22, 2006

Virgin Founder Richard **Branson Pledges \$3 Billion** to Fight Global Warming

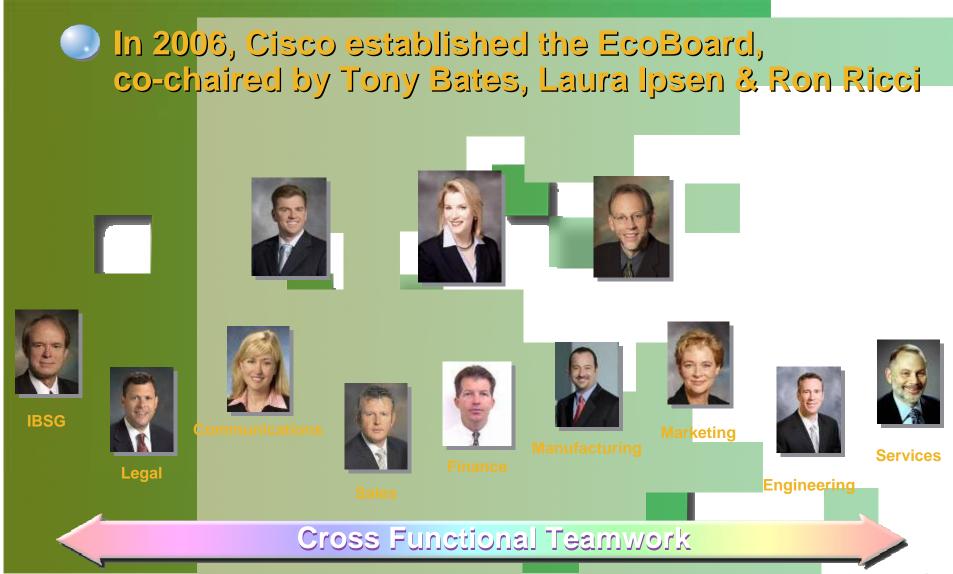


Sustainability

Sustainability can be described as each of us doing our part to build the kind of world -economically, environmentally and sociallythat we want to live in, and one that we want our children and grandchildren to inherit.

It means becoming aware of all interconnections -visible and invisible- in which our day-to-day choices affect the intricate balance of social, economic and ecological systems.

Cisco is a Leader in Greening the Way



Cisco's Architectural Network Effect

Products

Evolve the culture within Cisco to pride itself on the management and reduction of climate changing Carbon Emissions

"what we do"

Design products that help customer's meet their corporate sustainability and energy commitments

"Our products"

Operational

Network

Fifect

Using Cisco's Network

Architecture customers

could extend CO2

frugality

measures beyond

normal expectations

"How customers use our technology"

Greening Our Products

- Sustainable Product Design
- Responsible Supply Chain Management
- Commitment to Standards
- Product Energy Efficiencies



Sustainable Product Design

- Easily recycled or reused
- Modular and scalable, so the product can be upgraded instead of having to be completely replaced
- Complementary with standard chassis dimensions, so customers can use their existing equipment racks
- Compatible with previous and future versions of Cisco processing cards, so obsolescence is kept to a minimum

The Value of Router Integration

Overlay Appliances

Router Switch

Wireless LAN

WAN/App Optimization

Security Appliance
Voice Appliance

Integrated Services Router



Cisco® ISR 3845 with integrated voice, wireless, video, WAN optimization, and switch

Service Interoperability

- Consistency
- Interoperability
- Tested
- High availability

System Support

- Vendor accountability: network partner
- Fewer maintenance contracts

Operational Efficiency

- Fewer devices, management systems, user interfaces
- Simplified troubleshooting

Investment Protection

Flexibility to evolve through system modularity

"From Carbon to Collaboration"

Clinton Global Initiative (CGI)

In FY2007, Cisco committed at the CGI to reducing carbon emissions from corporate air travel by 10% and committed \$20 million in collaboration technologies (TelePresence, Unified Communications, and Cisco Shared Workspace).

FACTS

In FY2007, Cisco successfully decoupled revenue/headcount growth from carbon emission growth and reduced carbon emissions from travel by 10% per employee.

Accomplished through the use of TelePresence and Unified Communications. In FY2007, Cisco installed about 110 TelePresence units in more than 20 countries and almost 60 cities worldwide.

In FY2007, Cisco held nearly 25,000 meetings via TelePresence (98 TelePresence meetings = 1 cross country flight.)

CLINTON GLOBAL INITIATIVE

Connected Urban Development initiative

The Connected Urban Development initiative, in partnership with several leading cities, will create an urban communications infrastructure that increases the efficiency of traffic flow, which in turn dramatically enhances how people experience life in and around cities.

And clearly, if traffic flows more efficiently, then by definition, emissions are lower from vehicles or other transportation systems.

Cisco Carbon to Collaboration initiative

The Carbon to Collaboration initiative is a \$20 million investment in collaborative technologies that will reduce the need for physical travel at Cisco.

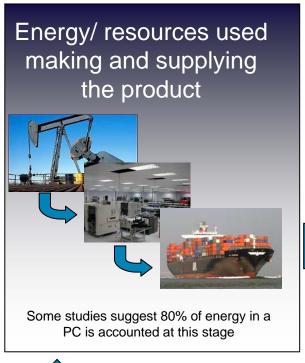
With this initiative, we combine Cisco Unified Communications technologies, which include voice and data with a rich media and video experience to virtualize our high level of interaction across distances-without compromising the human-to-human expectations of communicating and collaborating. So, people located across the country and around the globe will be able to work together as effectively as if they were sitting in the same room.

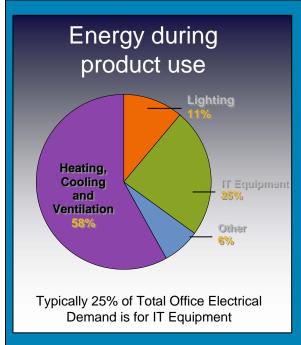
Greening Cisco's Operations

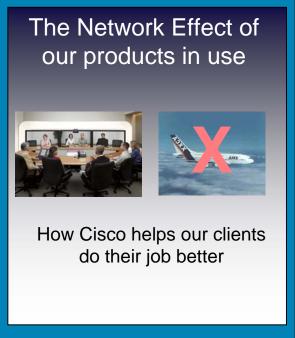
- Reducing energy use across the company
- Limiting the greenhouse gas emissions implicated in global warming
- Closely managing water use
- Monitoring and properly disposing of hazardous materials



What are the carbon issues?

















It's the Responsibility of Every Industry to be Greener...

The Opportunity for ICT is to Reduce the 2% while disproportionately Impacting the other 98%.

IT's CO₂-Reduction Impact Is 10x greater than its direct CO₂ Production

Direct and Indirect Effects of IT on the Environment

First Order Direct result of its existence (Increasing CO₂)

- Energy consumption
- Greenhouse gas emissions
- Use of non-renewable resources
- E-waste & hazardous material



Second Order

Impact of applications (Lowering CO₂)

- E-government, e-business
- Transportation optimization
- Energy optimization
- Building optimization



Third Order Long-term, socio-economic changes (Lowering CO₂)

- Workplace Design
- Social inclusion, education & health
- Economic development
- Urban design & development

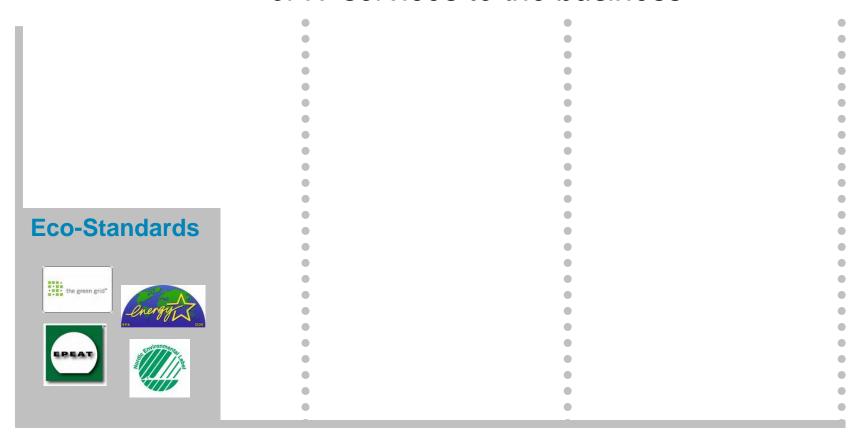


IT's Direct Annual Impact in $CO_2 = +4.73M$ tons Possible Annual CO₂ Replacement = - 48.37M tons

Sources: Gartner Group, April 2007; "Saving the Climate at the Speed of Light," WWF and ETNO, 2007 Note: CO2 estimates are for Europe Only

The Green IT Vision

Enabling the Greener Enterprise by the efficient delivery of IT services to the business



Cisco TelePresence is helping us to become "Green"



- Cisco cutting annual air travel by 20% = 1 billion miles
- Reducing overall company carbon emissions by 10%
- Better customer service, improved quality of life

Why extra focus on the DataCentre really matters





3.2Gw generation

5-10% distribution loss

15-30% Server and Storage utilisation

60% Lost through chimney

10% DC power conversion loss

Questions or Feedback?



Please email me: Neil Harris

neiharri@cisco.com

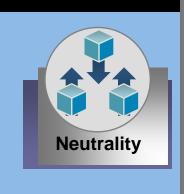
Why The Network as the Platform?

The network is uniquely pervasive



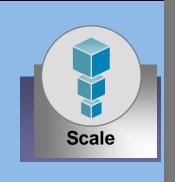
- Shared location for Services
- Ultimate location for Policy Enforcement
- "Single View" point into the Business

The network is uniquely neutral



- Vendor- and Device-Agnostic
- Transparent, Non-Invasive to Endpoints
- Standards based,
 Simpler Integration

The network is uniquely scalable



- Vertical Scaling (Performance)
- Horizontal Scaling (# nodes, Distance)
- Service Scaling (Virtualization)



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