

A high-angle, long-exposure photograph of a busy pedestrian street in Tianjin, China. The image shows many people walking, with some figures blurred due to motion. The ground is paved with light-colored stone tiles. The overall scene is bright and active.

Clean Technology Innovation & Climate Change: A Private Sector Perspective

Tianjin, China
October, 2010

Heading toward COP 16 – Cancun...

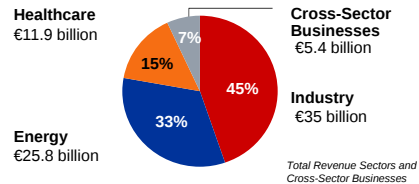
“Success at climate change talks in Mexico may depend on Companies such as Siemens AG and Wal-Mart Stores, Inc. prodding governments into action...”

Christiana Figueres, UNFCCC Executive Secretary (Bloomberg, Sept. 20, 2010)

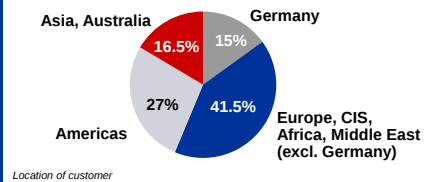
Siemens is a major global player in the Energy, Healthcare and Industrial markets

SIEMENS

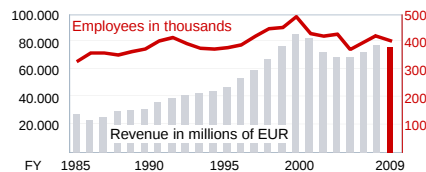
Revenue by Sector



Revenue by region



Revenue and employees



Key figures

Continuing operations (in millions of Euros)	FY 2008	FY 2009
Revenue	77,327	76,651
New orders	93,495	78,991
Income	1,859	2,457
Free cash flow	5,739	3,786
Employees	427,000	405,000

Why we care... Innovation is our lifeblood

SIEMENS

Major R&D investments

- €3.9 billion in fiscal 2009, or 5.1% of revenue
- 31,800 R&D employees worldwide
- 17,000 software engineers
- 176 R&D locations in over 30 countries around the world
- 7,700 inventions in FY2009
- More than 56,000 active patents



Major innovations

Our patent position in fiscal 2009:

- Germany: No. 2
- Europe: No. 2
- USA: No. 12

Innovation examples:

- Efficient power transmission (HVDC)
- Coconut shell power plants
- PROTOS vegetable oil stove

Our innovations make a major contribution to environmental protection...

SIEMENS

Siemens Environmental Portfolio

- Nearly one quarter of our revenue is generated by products and solutions that make a direct, quantifiable contribution to environment and climate protection* (~ €19 billion).
- By 2011, income from our environmental portfolio should grow to €25 billion.
- In fiscal 2008, energy-efficient products and solutions in our environmental portfolio saved about 148 million tons of CO₂ for our customers...
 - ...which equals the total CO₂ emitted by New York, London and Hong Kong

* Status in fiscal 2008, reviewed by PwC

Page 5

October 2010



IP drives the private investment critical to "clean tech" innovation

SIEMENS

- **Private sector involvement is key to the development and deployment of cleaner, more energy efficient and lower emissions technologies**
 - For example, Yvo de Boer, former Executive Secretary of the UNFCCC, noted that "[E]stimates are that 85 percent of [required] investment capital will come from the private sector..."
- **IP Rights are critical to:**
 - Encouraging innovation and the deployment and dissemination of technologies
 - Enabling developing countries to pursue their own economic value creation and sustainable development (China, India and Brazil are key examples)
- **IP Rights are properly dealt with at global level:**
 - TRIPS Agreement (administered by WTO)
 - Paris Convention (administered by WIPO)
 - Other multilateral and bilateral arrangements
- **IP Rights need not be further regulated in climate change or other int'l agreements**

Page 6

October 2010



Alliance for Clean Technology Innovation

Members











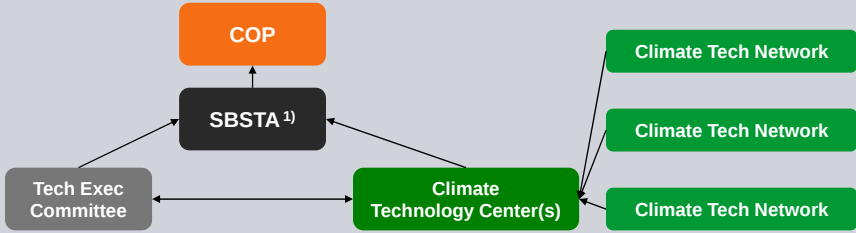

Mission

- 1 Support clean technology RDD+D particularly in developing countries
- 2 Support intellectual property rights as critical to innovation

Page 7
October 2010



Framework and function of "Technology Innovation Center(s)"



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graph TD
    COP[COP] --> SBSTA[SBSTA 1)]
    SBSTA --> TechExec[Tech Exec Committee]
    SBSTA --> CTC[Climate Technology Center(s)]
    CTC --> CTN1[Climate Tech Network]
    CTC --> CTN2[Climate Tech Network]
    CTC --> CTN3[Climate Tech Network]
    TechExec <--> CTC
    
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The Technology Center(s) and Network(s) play a facilitative and supportive role:

- Assist countries in carrying out Technology Needs Assessments (TNAs)
- Assist parties in identifying existing and available technologies based on TNAs
- Assist with capacity building
- Assist parties with regulatory and market upgrades where needed
- Assist in establishing research collaborations
- Facilitate exchange of information about ongoing research or projects
- Assist with identifying sources of funding for projects
- Draw on network of experts to provide advice and assistance
- Report to SBSTA, independent of the TEC

Page 8
October 2010
1) Subsidiary Body on Scientific and Technological Advice