



# GreenTouch™



## What is GreenTouch

Launched in 2010, GreenTouch is a global research consortium with the goal to deliver the architectures, specifications and technologies – and demonstrate key components – needed to increase network energy efficiency by a factor of 1000 compared to 2010 levels. GreenTouch members and the global community will benefit from:

- Reinventing today's telecommunications networks
- Collaborating with leading experts around the world
- Participating in fundamental research in exciting new areas
- Accessing network models and studies on key energy issues
- Network power consumption, traffic growth, and energy trends

View the GreenTouch video:

[www.greentouch.org/index.php?page=green-meter-research](http://www.greentouch.org/index.php?page=green-meter-research)

## Who is involved

GreenTouch brings together more than 50 leading organizations from 23 countries from industry, academia and research institutes to invent and deliver radical new approaches to energy efficiency that will be at the heart of sustainable networks in the decades to come. Membership is open to all interested organizations and individuals.

[www.greentouch.org/index.php?page=member-structure](http://www.greentouch.org/index.php?page=member-structure)

## Potential for scale

Recent GreenTouch research indicates that there is a significant opportunity to increase the energy efficiency in today's communication and data networks, to improve the network performance and support the projected traffic growth. The GreenTouch-led effort offers a roadmap of technology assets for a sustainable Internet, while also enabling efficient solutions to lower the carbon footprint of all other industry sectors touched directly and indirectly by ICT. This private sector-academic global research consortium offers the most potential for breakthroughs in network energy efficiency.

## Impact to date

GreenTouch has built a research portfolio around five major themes: wireline access, mobile communications, switching and routing, optical networking, and services, applications and trends. Among the large set of projects involving more than 350 participants are the Large Scale Antenna System (LSAS) and the Bit Interleaved Passive Optical Networks (Bi-PON) projects. View technology demonstrations at:

[www.greentouch.org/index.php?page=videos](http://www.greentouch.org/index.php?page=videos)

## Recent news

GreenTouch members participate and present their research findings globally at a wide range industry and academic conferences, events and tradeshows.

- **GreenTouch Green Meter Research Announcement.** GreenTouch announced the findings of their Green Meter Research via live webcast in May 2013. This first-of-its-kind analysis demonstrates that net energy consumption in networks can be reduced by up to 90% by 2020. Register to view webcast at: <http://www.media-server.com/m/p/jcczhxay>.
- **GreenTouch Members Meeting.** In May 2013, GreenTouch members gathered for a face-to-face meeting to discuss the progress-to-date of the organization, current projects and future plans.
- **TREND Network of Excellence.** GreenTouch collaborated with TREND, an EU Network of Excellence, on a joint workshop on network energy efficiency that was held in Turin, Italy in April 2013.
- **Green ICT: What would be the cost of doing nothing?** Green ICT session organisers explored a broad range of issues focused on "the cost of doing nothing" at the Future Internet Assembly (FIA) meeting in Dublin, Ireland in May 2013.
- **GreenTouch Roadmap: Strategic Research Areas and Project Portfolio.** GreenTouch released its Strategic Research Areas and Initial Research Portfolio identifying key research directions supporting the GreenTouch mission of improving network energy efficiency by a factor 1000.
- **GreenTouch and the Global e-Sustainability Initiative (GeSI).** GreenTouch collaborated with its partner GeSI on the "ICT Sustainable Networks for Sustainable Lifestyles" workshop during the 2012 EU Sustainable Energy Week.
- **GeSI** published the SMARTer2020 Report in December 2012, of which GreenTouch is proud to be a key contributor, providing its traffic projections to the study.

**For additional information and questions:**

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