

## Experts Convene for Technology Roundtable on Future of ICT Core Networks

UCSB's Institute for Energy Efficiency hosted a two-day interactive discussion on scalability and energy efficiency of telecommunications technology



The growing demand for novel and more powerful Internet, cloud computing and other telecommunications applications is stressing the scalability and energy efficiency (i.e. energy density and total energy consumption) of future Information and Communications Technologies (ICT) core networks.

On February 7-8th, 2013, the [Institute for Energy Efficiency](#) convened 27 leading stakeholders from the private sector, academia, and government to address this challenge. Through highly interactive, facilitated discussions, the participants identified needed technological and architectural advancements in transmission, switching and routing to develop scalable, energy-efficient, next-generation core networks. A post-roundtable report is being prepared identifying the group's recommendations, which will be distributed to inform and expedite research in the field.

The roundtable was led by Rod Alferness, the Richard A. Auhll Professor and Dean of the College of Engineering at UC Santa Barbara. Participants included representatives from Juniper Networks, Ciena, Sprint, Energy Sciences Network, Verizon, Deutsche Telekom, KDDI, NTT, the Defense Information Systems Agency (DISA), Infinera, Alcatel-Lucent, Cisco, Google, Oracle, GreenTouch, Calient Technologies, Acacia Communications, Aurrion, UC San Diego, UC Davis, Columbia University, and UCSB, among others.

This [Technology Roundtable](#) was hosted by the UC Santa Barbara Institute for Energy Efficiency. Juniper Networks was the lead roundtable sponsor, and supporting sponsors were Ciena, Sprint, and the U.S. Department of Energy's Energy Sciences Network.

The Institute for Energy Efficiency's Technology Roundtables are small-group, facilitated workshops that bring together leading stakeholders from industry, government and academia to accelerate the development of a target technology driving energy efficiency.

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## Images



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