

## SESSION 1D

### BUILDING AND ENERGY EFFICIENCY

*Moderator: Paolo Bertoldi, European Commission*

#### PAPERS:

##### **Transforming a Commercial Boiler Market**

Ken H. Tiedemann, BC Hydro

##### **Assessment of Building Energy-Saving Policies and Programs in China During the 11<sup>th</sup> Five Year Plan**

Nan Zhou, Lawrence Berkeley National Laboratory

Michael McNeil, Lawrence Berkeley National Laboratory

Mark Levine, Lawrence Berkeley National Laboratory

##### **The Evaluation of the European GreenLight Programme**

Silvia Rezessy, European Commission

#### SESSION SUMMARY:

This session will report results of programs and policies designed to transform markets and common building practices. There will be presentations on equipment retrofits in existing buildings, impacts of building codes on new buildings, and modification of building operation practices.

The first paper presents results of process, marketing, and impact evaluation of an efficient boiler program. There will be reports of weather adjusted consumption data comparing program participants to a comparison group.

The second paper provides quantitative and qualitative results and information on program and policies that China has instituted to reach its goal of a 20% reduction in energy intensity. There is a comparison of building energy efficiency improvements in new buildings and retrofits and building operations in existing buildings. The paper also describes efforts in improved compliance with building codes.

The third paper describes a program to promote energy efficient lighting in buildings. There is a discussion of proper design and evaluation results. Recent advances in lighting technology and equipment cost reduction along with the broad range of retrofit opportunities provide large potential energy saving impacts.