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# ASTM International Technical Committee E44 on Solar, Geothermal and Other Alternative Energy Sources

## Scope

The promotion of knowledge, stimulation of research and the development of standard test methods, specifications, guides, practices and terminology concerned with the technology for conversion of solar and geothermal renewable energy to directly usable energy forms and the application of such technology for the public benefit.

The areas of interest shall encompass standards relating to methods and applications of solar and geothermal energy conversion. These methods and applications shall include the following: heating of domestic hot water; active and passive space heating and cooling; process heating; thermal conversion power generation; photovoltaic generation of electricity; and advanced energy conversion, including wind energy. Consideration shall be given to applicable materials components, subsystems, and systems in each of these methods and applications.

## Technical Subcommittees

- E44.01 Terminology and Editorial
- E44.05 Solar Heating and Cooling Systems and Materials
- E44.09 Photovoltaic Electric Power Conversion
- E44.15 Geothermal Field Development, Utilization and Materials
- E44.20 Optical Materials for Solar Applications
- E44.25 Heat Metering
- E44.44 Photovoltaic System Fire Safety
- E44.90 Executive
- E44.93 Government and Industry Liaison

## Key Documents

- E903 Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres
- E927 Standard Specification for Solar Simulation for Photovoltaic Testing
- E2848 Standard Test Method for Reporting Photovoltaic Non-Concentrator System Performance
- E3006 Standard Practice for Ultraviolet Conditioning of Photovoltaic Modules or Mini-Modules Using a Fluorescent Ultraviolet (UV) Lamp Apparatus

Learn more about Committee E44  
[www.astm.org/COMMIT/E44](http://www.astm.org/COMMIT/E44)



## Quick Facts

**Established** 1978  
**Number of Members** 180+  
**Number of Standards** 52  
**Global Participation**  
17 Countries represented  
**The standards are available in**  
Volume 12.02 in the *Annual Book of ASTM Standards*  
**Meetings** E44 meets twice each year, in June and November

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