



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

Visit the ASTM

Committee E44 Webpage:

<http://www.astm.org/COMMIT/E44.htm>

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Established: 1978

Number of Members: 125

Number of Standards: 49

Global Participation: 9 Countries represented

The standards are available in: Volume 12.02 in the *Annual Book of ASTM Standards*

Meetings: E44 meets once each year, in November

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.

The work of this Committee will be coordinated with other ASTM Committees and other organizations having mutual interest.

SUBCOMMITTEES:

E44.01 Terminology

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 Geothermal Utilization

E44.40 Geothermal Materials

E44.90 Executive

KEY DOCUMENTS:

- E424 Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials
- E927 Standard Specification for Solar Simulation for Terrestrial Photovoltaic Testing
- E1036 Standard Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells
- E2527 Standard Test Method for Rating Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight

