

## How You Can Contribute to Alternative Energy Standardization

### Membership in Committee E44

The committee welcomes all technical experts with an interest in solar and geothermal standardization. Our 180+ members represent more than 17 countries all over the world. Meetings are held on location twice a year, in June and November. Standards development work continues all year long through electronic tools and virtual meetings.

### Just a few of the benefits you will receive when you join ASTM:

- Network with alternative energy professionals worldwide;
- Have direct input into the development of new and revised standards;
- Participate in informational webinars;
- Receive a free volume of the *Annual Book of ASTM Standards*;
- Enjoy discounts on all ASTM publications;
- Receive free subscriptions to *ASTM*
- *Standardization News* and *ASTM eNews*; and
- Benefit from reduced attendance fees at ASTM symposia and technical workshops.

The annual fee to be an informational or participating member of ASTM International is \$75 USD. Annual membership provides access to multiple technical committees at no additional cost.

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## Committee E44

Solar, Geothermal  
and Other Alternative  
Energy Sources

[www.astm.org](http://www.astm.org)



ASTM International Committee E44 on Solar, Geothermal and Other Alternative Energy Sources develops standards that address the technology for conversion of solar and geothermal renewable energy to directly usable energy forms and the application of such technology for public benefit. This includes heating of domestic hot water; active and passive space heating and cooling; process heating; thermal conversion power generation; photovoltaic generation of electricity; glass for solar applications; and advanced energy conversion, including wind energy.



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

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## Solar Energy

As strong interest in solar energy continues to build, Committee E44 has responded to the need for standards in this area. This includes supporting the rapid expansion in the market for photovoltaic products and the growing need for best practice installation guidelines for both residential and commercial applications. We work closely with various stakeholders on standardization needs, including the National Renewable Energy Lab, Solar Energy Industries Association, Underwriters Laboratory, the Solar America Board of Codes and Standards, and the U.S. Department of Energy's project on Solar America Initiative Market Transformation.

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## Committee E44 Standards

The committee oversees more than 50 solar, geothermal and alternative energy standards, including:

- **ASTM E424**, Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials
- **ASTM E903**, Standard Test Method for Solar Absorptance, Reflectance and Transmittance of Materials Using Integrating Spheres
- **ASTM E927**, Standard Specification for Solar Simulation for Terrestrial Photovoltaic Testing
- **ASTM E948**, Standard Test Method for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight
- **ASTM E1036**, Standard Test Methods for Electrical Performance of Nonconcentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells
- **ASTM E1175**, Standard Test Method for Determining Solar or Photopic Reflectance, Transmittance, and Absorptance of Materials Using a Large Diameter Integrating Sphere
- **ASTM E2527**, Standard Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight
- **ASTM E2685**, Standard Specification for Steel Blades Used with the Photovoltaic Module Surface Cut Test
- **ASTM E2848**, Standard Test Method for Reporting Photovoltaic Non-Concentrator System Performance
- **ASTM E3006**, Practice for Ultraviolet Conditioning of Photovoltaic Modules or Mini-Modules Using a Fluorescent Ultraviolet Lamp Apparatus
- **ASTM E3010**, Practice for Installation, Commissioning, Operation and Maintenance Process of Photovoltaic Arrays

180+ technical experts from 17 countries, including Canada, China, Ethiopia, Korea, Nigeria, Slovenia and Italy, comprise E44's nine subcommittees.

