To apply for A2LA accreditation for the Sustainable Energy Testing field, each applicant must identify each applicable standard or reference document (by standard designation/number and short title) for which accreditation is sought, including internally developed test methods. **Please include the desired test types and associated methods in Table A below. Also, please identify what types of products are being tested from the Table B options below.**

Examples of the various sub-fields of testing are described in the following pages, including example scopes of accreditation which show some of the test types and test methods which relate to those sub-fields of testing. These examples are by no means all-inclusive. Applicant laboratories are encouraged to verify that they have included all applicable tests on their application form. Assessors are able to assess other methods (including internally developed test methods) which may have been forgotten on the application but doing so will add un-anticipated time to the technical portion of the assessment.

**Table A**

 Test Title/Type/Technology: Test Method Designation/Number:

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| **Please attach sheet(s) for additional tests** |

**Table B – Product Types (Select all which apply)**

|  |  |
| --- | --- |
| [ ]  EPA ENERGY STAR | [ ]  Photovoltaic / Solar |
| [ ]  Wind | [ ]  Geothermal |
| [ ]  Biomass | [ ]  Hydropower |
| [ ]  Hydrogen Fuel Cell | [ ]  Other  |

**Please submit electronically - MS Word format preferred**

|  |
| --- |
| **EPA ENERGY STAR® TESTING** |
| The United States Environmental Protection Agency (EPA) has a qualification and certification program for products which are sold bearing the “ENERGY STAR” logo, demonstrating that those marked products exhibit a specified level of energy efficiency. The EPA has recognized A2LA as an Accreditation Body for the purposes of assessing and granting accreditation to ISO/IEC 17025 for testing laboratories wishing to gain recognition by the EPA for submission of product testing data.The EPA ENERGY STAR Program maintains a listing of required test methods for each corresponding product type. As this is an externally generated and maintained listing, A2LA will consult the EPA’s product requirements listing at each assessment to ensure that the testing laboratory’s scope references the most recent version of the product guideline, as well as the correct set of test methods specified by the EPA for those product types being tested. The “[Required Test Methods for EPA-Recognized Laboratories”](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwi3iq2m1uuBAxWWEVkFHcXzDWcQFnoECBIQAQ&url=https%3A%2F%2Fwww.energystar.gov%2Fsites%2Fdefault%2Ffiles%2Fasset%2Fdocument%2FRequired_Test_Methods_for_EPA_Recognized_Laboratories.pdf&usg=AOvVaw02Zj43Gc29jhDUkGXRV2mh&opi=89978449) document can be found here. Testing laboratories are responsible for staying current with any program requirement updates from the EPA.Recognition by the EPA is not guaranteed based solely on accreditation to ISO/IEC 17025 from A2LA. The EPA [application for recognition can be found here](https://www.energystar.gov/partner_resources/products_partner_resources/third_party_cert/laboratory) for laboratories which have gained accreditation through an EPA-recognized Accreditation Body, such as A2LA. For laboratories testing certain types of products (Computers, LED and SSL lights, Displays, and Water Heaters, to name a few), the EPA has delineated specific sub-sections or characteristics of those products which are to be tested. Applicant laboratories will be responsible for identifying those product sub-types or characteristics which they will be testing. For assistance in identifying what these characteristics may be, please contact A2LA.  |
| **PHOTOVOLTAIC / SOLAR TESTING** |
| Photovoltaic (Solar) testing has numerous standards and test methods from a variety of sources which an applicant laboratory may wish to gain accreditation to perform testing. Such sources include the Solar Rating and Certification Corporation (SRCC) and Florida Solar Energy Center (FSEC), as well as the internationally recognized committees ASTM, IEC, IEEE, and UL to name a few.As with EPA ENERGY STAR testing, gaining ISO/IEC 17025 accreditation through A2LA does not guarantee recognition by SRCC and/or FSEC. More information on these two organizations can be found at the following links:[Solar Rating and Certification Corporation](http://www.solar-rating.org/)[Florida Solar Energy Center](https://energyresearch.ucf.edu/) |
| **WIND TESTING** |
| Wind testing has numerous standards and test methods from a variety of sources for which an applicant laboratory may wish to gain accreditation to perform testing. Typically wind testing is utilized to ensure performance and generation power of wind turbines. |
| **GEOTHERMAL TESTING** |
| Geothermal testing measures the performance levels of geothermal heating and cooling systems. Both national and international standards exist for measuring performance levels of various types of geothermal power sourced units. |
| **BIOMASS TESTING** |
| Biomass testing is the testing of alternative fuels (outside of petroleum-based fuel sources) used in vehicles. The United States Department of Energy (DoE) defines these alternative fuels as biodiesel, electric, ethanol, hydrogen, methanol, natural gas, and propane. Many vehicles on the road today utilize a variety of these alternative fuel sources.  |
| **HYDROPOWER TESTING** |
| Performance and safety testing of hydropower energy generating equipment. Also included is testing for the EPA WaterSense program. |
| **HYDROGEN FUEL CELL TESTING** |
| Hydrogen fuel cells have multiple international testing standards for use in determining safety and performance for hydrogen containing fuel cells and generators.  |
| **OTHER** |
| A2LA anticipates continued growth and development of standards in the Sustainable Energy testing field from regulators and international standards writing groups. As testing develops for these new technologies, A2LA will evaluate the suitability of the testing for inclusion under this field and will update this document accordingly. |

EXAMPLE

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

JOE’S TESTING LAB

123East 45th Street

Little Town, MD 99999

Joe Example Phone: (123) 456-7890

SUSTAINABLE ENERGY

Valid To: MM DD, YYYY Certificate Number: 0000.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the laboratory’s compliance with A2LA’s EPA ENERGY STAR® Accreditation Program1 requirements), accreditation is granted to this laboratory to perform the following testing:

|  |  |
| --- | --- |
| **Test Technology:** | **Test Method(s):** |
| **ENERGY STAR Testing** |  |
| ENERGY EFFICIENCY |  |
| Household Electrical Appliances – Measurement of Standby Power | IEC 62301, Ed. 1.0 |
| HOME ELECTRONICS |  |
| Televisions | ENERGY STAR Program Requirements Product Specification for Televisions Version 4.2;IEC 62087, Ed. 2.0; CEA-2037; CEA: Procedure for DAM Testing |
| **Photovoltaic Testing** |  |
| Standard Specification for Solar Simulation for Terrestrial Photovoltaic Testing | ASTM E927 |
| Technical Requirements and Test Methods for Solar Collectors | CAN/CSA F378-87 |
| Thermal Solar Systems and Components: Solar Collectors – General Requirements | EN 12975-1 |
| Thermal Solar Systems and Components: Solar Collectors – Test Methods | EN 12975-2 |
| **Wind Testing** |  |
| Wind Turbines – Part 3: Design Requirements for Offshore Turbines | IEC 61400-3 |
| Wind Turbines – Part 11: Acoustic Noise Measurement Techniques | IEC 61400-11 |
| Wind Turbines – Part 12: Power Performance Measurements of Electricity Producing Wind Turbines | IEC 61400-12 |
| Wind Turbines – Part 13: Measurement of Mechanical Loads | IEC 61400-13 |

1 A2LA provides accreditation to the U.S. EPA’s Conditions and Criteria for Recognition of

Laboratories for the ENERGY STAR Program by verifying an organization’s compliance to the related test methods listed above.

Accreditation by A2LA does not infer Recognition by the EPA for ENERGY STAR testing. Please verify this organization’s recognition status by using the EPA’s searchable database, located at <http://www.energystar.gov/index.cfm?fuseaction=recognized_bodies_list.show_RCB_search_form>

 **DOCUMENT REVISION HISTORY**

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| --- | --- |
| **Date** | **Description** |
| 11/22/23 | * Fixed hyperlink for Required Test Methods for EPA-Recognized Laboratories
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