

Certified Renewable Energy Professional

An Industry Recognized Certification for Energy Management and Sustainability Professionals

Who are Certified Renewable Energy Professionals?

- Are you an energy professional, with technical, management and communication skills, to lead, plan, coordinate and manage the installation or upgrade of power generation systems to include renewable energy generation technologies?
- Are you an energy manager responsible for a building or facility's energy use, that operates a renewable energy production or energy storage system, or is looking to upgrade an existing system?
- Are you a consultant who assesses existing systems, then specifies, and financially justifies renewable energy projects for your clients?

Renewable energy professionals are energy managers that have selected to focus on energy generation, production, storage technologies and strategies that are considered "green and clean," renewable or sustainable. These may include wind power, solar, thermal, or photovoltaic, geothermal, biopower, tidal, and hydroelectric technologies. They use their specialized knowledge to assist firms or organizations to set goals for renewable energy projects and to maximize benefits when implementing these systems at small or large scales.



What does the Certified Renewable Energy Professional (REPTM) Certification Program offer?

This program helps educate and qualify individuals involved in alternative energy sources, renewable energy technologies, and sustainable energy practices. When obtaining the REP certification, candidates gain industry and peer recognition by demonstrating their understanding of core principles, practices, and applications across a broad range of renewable energy technologies. The program raises the professional standards, both technical and ethical, of those engaged in this important area of energy management.

What is the bottom line for me or my company?

Gaining a wide-reaching and industry-recognized renewable energy certification is a personal and financial investment. Individuals report career improvements in the form of salary and responsibility increases. This certification shows that individuals have a fundamental understanding of the profession and a commitment to the highest standards of quality. Companies, organizations, and consultancies with REPs on-staff often see a higher affinity with their customers because REPs understand their customer's requirements and are trusted subject matter experts.

What functional areas does the REP™ Certification Program cover?

The certification program requires fundamental knowledge across several core principles and practices specific to renewable energy. These include:

- Environmental Impacts
 - a Driver for Using Alternative Energy
- Alternative Energy and Carbon Reduction
- Solar Energy
- Wind Energy
- Hydropower
- Geothermal Energy
- Waste-to-Energy Systems
- Fuel Cells – Example of Hydrogen Applications
- Hybrid Alternative Energy Systems
- Energy Storage Applications
- Alternative Energy Strategies for Buildings
- Transportation Systems
- Governmental Alternative Energy Programs
- Financial Approaches and Incentives for Alternative Energy
- The Future of Alternative Energy
- Biopower

How do I become eligible for AEE's REP™ certification?

Every certification program offered by AEE is defined by strict standards to ensure that each program maintains its industry-wide recognition and credibility. To that end, AEE stipulates three criteria that all REP candidates must meet. Firstly, applicants must have relevant experience or educational credentials (see below). Secondly, candidates must undergo a defined training program that aligns with the fundamental knowledge base of the program, and the principles and practices of the industry as a whole. Thirdly, candidates must pass the associated exam to demonstrate their technical knowledge, proficiency, and abilities in the areas of renewable energy and sustainability.

Experience & Education

Applicants must meet one of the following eligibility criteria:

- Hold a related* bachelor's degree OR Professional Engineer (PE) OR Registered Architect (RA) and 2+ years related* work experience.
- Hold a 2-year associate degree and 5+ years related* work experience.
- Have 10+ years related* work experience
- Be a current Certified Energy Manager (CEM™).

*Related degree includes engineering, architecture, science, business, or related and related experience includes renewable, alternative energy, biomass, biofuel, solar or related.

Why would I want to take a training program when I believe I already have the knowledge and experience required to pass an exam?

A REP training program provides more value than only preparing individuals to take the associated exam. It brings all candidates to a base level of understanding across a wide variety of renewable energy and sustainability topics.

For those entrenched in their normal daily activities, attending a training program, being away from the office, in a classroom environment can be a catalyst for improvement and change. For many, the chance to network, connect, and learn from other like-minded individuals is incredibly valuable.

I obtained my REP™ certification, where do I go next?

The REP certification can help define your status as an energy professional and help progress your career. Once complete, make sure you maintain your account and keep track of your certification on aeecenter.org. You can also keep up-to-date on energy management practices and technologies by joining your local AEE Chapter. Energy professionals continuously tell us that they become industry leaders by getting involved in their local communities.

[Find Your Local AEE Chapter](#)

Which companies and industries value an AEE certification?

You can find AEE certified professionals across markets and industry sectors, from utilities, ESCOs, major multi-national corporations, power companies, respected controls contractors, and manufacturers, to federal, state, and local governments, military, universities, and school boards. Many of these organizations require a certification as a condition of hiring or a requirement for advancement. Government organizations request certified professionals within “Requests for Proposals.” The following list is a sample of companies across a wide range of industries that have demonstrated they value AEE certified professionals.

- 3M
- 3M Canada
- Abbott Laboratories
- AK Steel
- ALCOA
- Alliance to Save Energy
- American Axle & Manufacturing
- Amgen
- Anheuser Busch
- ArcelorMittal
- Archer-Daniels-Midland
- AstraZeneca
- Atlas Copco Canada
- Baxter Healthcare
- Bayer Corporate & Business Services
- Bechtel National
- BMW Manufacturing Corporation
- Boeing
- BP North America
- Briggs & Stratton Corporation
- Bristol Myers Squibb
- Burrows Paper Corporation
- CalsonicKansei North America
- Cargill
- Carrier Corp - UTC
- Caterpillar Inc
- CEMEX, Inc.
- Chevron
- Chrysler
- Conoco Phillips
- Cummins
- Dana Holdings Corporation
- Deere & Co.
- Dell, Inc
- Delphi Corporation
- Duracell
- Eastman Chemical Company
- Eli Lilly & Company
- Eurocan Pulp and Paper
- ExxonMobil
- Fluor
- Ford Motor Company
- Freescale Semiconductor
- Frito-Lay, Inc.
- Fruit of the Loom
- GE Energy
- GE Wind Energy LLC
- General Mills Inc.
- General Motors Energy & Utilities Services Group
- General Motors of Canada
- Georgia Tech Enterprise Innovation Institute
- GlaxoSmithKline
- GM - Brazil
- Goodyear Tire & Rubber Co
- Harley-Davidson Motor Company
- Hess
- Hewlett-Packard
- Hormel Foods
- IBM
- Intel
- John Deere
- Johnson & Johnson
- Kimberly-Clark
- Kraft Foods
- La-Z-Boy Inc
- Lockheed Martin
- Lone Star Steel Company
- Masco Corporation
- McCain Food USA
- Merck
- MillerCoors, LLC
- Motorola
- Nalco Company
- Nestle Purina Pet Care.
- Nestle USA, Inc.
- Northrop Grumman
- Novartis
- Owens Corning
- Papa John’s International
- Penske Truck
- PepsiCo
- Petrobras
- Pfizer
- PPG Industries
- Pratt & Whitney
- Pratt & Whitney Canada
- Procter & Gamble Mfg. Co.
- QuikTrip Corporation
- Raytheon
- Rockwell Automation
- RR Donnelly
- Sanofi-Aventis
- Shaw Industries, Inc.
- Shell Global Solutions
- Sherwin-Williams
- Sikorsky Aircraft Corporation
- Standard Motor Products, Inc.
- Subaru of Indiana Automotive, Inc
- Sunoco, Inc.
- The Dow Chemical
- Towson University
- Toyota
- Tropicana Products, Inc.
- U.S. Steel
- Unilever
- United Technologies
- US DOE
- US EPA
- US Steel
- Vought Aircraft
- Wal-Mart
- Walt Disney
- Weyerhaeuser Company
- Whirlpool
- Wyeth
- Xerox
- Yum! Brands, Inc.

**Find A
Certified Professional
Near You**
AEE Certified Professionals Directory