

Renewable Energy for a Brighter Planet.

Accredited | Affordable | Two-Week Terms


A.A.S. in Renewable Energy

Renewable energy helps in the fight against climate change by aiding in the conservation of natural resources. The use of non-renewable resources, such as fossil fuels, hurts the environment. The world is facing unprecedented energy problems and the solution is to develop alternate energy resources. Renewable energy has rapidly become a major area of focus globally as the world seeks cleaner sources of energy. Renewable energy systems need to be maintained and designed.

Cost: \$250 per credit

Job Outcomes, & Growth*

Wind Turbine Technician

 +15%

Renewable Energy Analyst

 +7%

*Projected 10-year growth

Source: O*Net

How you will learn:

We at TIEP have taken the best features of in-person learning and online learning to create an innovative and accelerated educational experience designed to meet the demands of a modern learner. Our new facility on the Unity College campus in New Gloucester, Maine is equipped with HyFlex classrooms designed with cutting edge technology to enhance teaching and learning. Our courses meet synchronously, in-person, but allow for flexibility to remote-in on those occasions when life happens, and you are unable to get to campus. Flexibility doesn't end there; the video recording and curating technology means you can revisit a particular subject discussed by simply re-watching that section of the class on your own time and refining your notes. After viewing the recording, questions are bound to come up; for this, our Instructors and Learner Success Coordinators are available for help through both in-person and virtual support hours.



Technical Institute for
Environmental Professions

A.A.S. IN RENEWABLE ENERGY UNOFFICIAL CHECKSHEET

Student Name / Total Transfer Credits / Checksheet Date

Graduates of the A.A.S. in Renewable Energy will be able to:

- + **Demonstrate** an understanding of creating and maintaining safe working environments in the renewable energy field.
- + **Explain** the function and design of sustainable energy systems such as solar, wind, hydroelectric, and geothermal technologies.
- + **Discuss** sustainable alternatives (including smart grid) to unhealthy environmental practices.
- + **Describe** basic energy concepts and laws of energy.
- + **Describe** the challenges and benefits of implementing sustainable practices in business and society.
- + **Analyze** circuits' voltage and currents and troubleshoot control systems.
- + **Explain** how motors, generators, and battery technologies function in the renewable energy field.
- + **Demonstrate** an understanding of digital circuits, basic information technology, and Boolean logic.

Graduation Requirements

A minimum of 60 earned credit hours, a minimum of 15 credits earned at the Technical Institute, and an overall cumulative GPA of 2.0 or above.

General Education Core

- COM 100 Orientation
- COM 101 Digital Fluency and Information Literacy
- COM 102 21st Century Communication Skills
- COM 105 Research Applications
- COM 201 Write Right!
- COM 205 Focus on Sustainability
- MAT 101 Foundational Algebra
- ENS 101 Our Blue Planet
- ENS 201 World Cultures
- GIS 101 Introduction to Geographical Information Systems for Environmental Professionals

Program Core

- DAT 101 Introduction to Data Analytics
- DIG 101 Digital Devices and Digital Logic
- DIG 103 Electric Power: DC Circuits
- DIG 105 Electric Power: AC Circuits
- DIG 201 Applications of Circuits
- DIG 203 Semiconductors
- DIG 205 Digital Circuits
- ITS 101 Fundamentals of Networking
- ITS 103 Practical Applications of IoT
- ITS 201 Introduction to Robotics
- PGR 101 Fundamentals of Coding
- PHY 101 Fundamentals of Physics
- REN 101 Introduction to Renewable Energy
- REN 201 Business Applications for Renewable Energy
- REN 205 Electric Machines
- REN 290 Renewable Energy Professional Capstone I
- REN 295 Renewable Energy Professional Capstone II

Electives

6 credits of unrestricted electives