

ENERGY SYSTEMS

PATHWAY



PATHWAY OVERVIEW

The Energy Systems pathway helps students build knowledge and hands-on skills in energy systems, sustainability, power technologies, and environmental responsibility.

Through Foundations of Energy Technologies, Energy & Power Technology, and Appropriate & Alternative Energy Technologies, students prepare for postsecondary education, industry credentials, and work-based learning experiences connected to the field.



CAREER CLUSTER

Energy & Environment

COURSE SEQUENCE + WORK-BASED LEARNING

1

Foundations of Energy Technologies

Explores energy sources, power systems, efficiency, sustainability, emerging technologies, and safe technical practices.



2

Energy & Power Technology

Explores energy sources, power systems, efficiency, sustainability, emerging technologies, and safe technical practices.



3

Appropriate & Alternative Energy Technologies

Explores energy sources, power systems, efficiency, sustainability, emerging technologies, and safe technical practices.



Work-Based Learning (Capstone Experience)

Apply energy, engineering, and manufacturing skills through projects, design challenges, internships, and supervised industry experiences.

LEADERSHIP + INDUSTRY CONNECTIONS

CAREER & TECHNICAL STUDENT ORGANIZATION



COMPETITION OPPORTUNITIES

- Engineering Design
- Technology Problem Solving
- Prepared Presentation
- STEM Careers



CHAPTER ACTIVITIES

- Design challenge
- Energy audit project
- Prototype build
- Engineering notebook
- Industry mentor session
- Robotics support



CO-CURRICULAR / INDUSTRY EXPERIENCES

- Renewable-energy demonstrations
- Utility and energy industry tours

POSTSECONDARY OPPORTUNITIES



LOCAL / REGIONAL INSTITUTIONS

- Kennesaw State University
- Atlanta Technical College
- Gwinnett Technical College

DUAL ENROLLMENT



Metro-area dual enrollment options may include energy systems, electrical systems, renewable energy, utilities, mechatronics, or engineering technology; verify through Georgia Futures.

GAfutures
Explore. Plan. Succeed.

SCHOOLS OFFERING THIS PATHWAY

Global Impact Academy

CAREER OPPORTUNITIES

CAREERS

Energy Technician

Utility Operations Specialist

Solar Installer

ATLANTA-AREA EMPLOYERS

