

Defining Energy Technologies & Services

Occupational Categories · Occupational Titles

Buying & Selling Energy Products & Services

- Customer service representative
- Emissions trading analyst
- Energy broker/trader
- Financing specialist
- Purchasing agent
- Sales representative/account executive

Energy Assessment

- Energy analyst
- Energy auditor
- Energy portfolio planner
- Industrial process specialist
- Measurement and verification technician

Energy Systems Design & Construction—Utility & Distribution

- Architecture technician
- Commissioning agent
- Commissioning technician
- Construction tradesperson
- Energy systems designer/retrofitter
- Energy systems installer
- Project developer
- Warehouse clerk/manager

Exploration & Resource Acquisition

- Biomass-to-energy/waste-to-energy technician
- Coal miner
- Energy site assessment technician*
- Energy site surveyor
- Geospatial technician
- Geothermal site evaluator
- Hydropower site evaluator

- Ocean energy site evaluator
- Oil and gas field technician
- Real estate and right-of-way agent
- Solar site evaluator
- Unmanned aerial vehicle (drone) operator
- Wind site evaluator

Utility-Scale Generation**

- Boiler technician
- Coal gasification technician
- Electrical maintenance technician
- Instrument/control technician and process operator
- Mechanical maintenance technician
- Nuclear fuel enrichment/reprocessing technician
- Nuclear radiation protection technician
- Ocean power technician*
- Power plant operator/technician
- Solar photovoltaic technician
- Turbine generator maintenance technician
- Wind turbine technician

Facilities Operations & Maintenance

- Building control operator
- Building control systems technician
- Building operator/technician
- Building systems automation technician*
- Direct digital control (DDC) programmer
- Energy cost analyst
- Energy manager/specialist/consultant
- Industrial process equipment maintenance and operations specialist
- Lighting specialist
- Maintenance technician

- Performance monitoring/continuous commissioning technician
- Program/project coordinator
- Renewable energy maintenance technician
- Resource conservation/efficiency manager
- Sustainability coordinator*
- Waste management/recycling technician

What are Energy Technologies & Services?

Energy Technologies and Services is a career field that uses technology to optimize the safe and reliable production, delivery, and use of energy.

Note: This is a STEM field, i.e., encompasses science, technology, engineering, and math knowledge and skills.

What is a Technician?

A technician applies knowledge, skills, capabilities, and tools to perform scientific, technical, communication, and regulatory tasks.

Utility-Scale Generation Operations & Maintenance**

- Boiler technician
- Coal gasification technician
- Electrical maintenance technician
- Energy storage technician*
- Fuel storage technician
- Instrument/control technician
- Mechanical maintenance technician
- Nuclear radiation protection technician
- Ocean power technician*
- Power plant operator/technician
- Solar photovoltaic technician

- Turbine generator technician
- Wind turbine technician

Compliance

- Compliance specialist
- Critical infrastructure protection (CIP) specialist
- Cybersecurity specialist
- Environmental, health, and safety (EHS) specialist
- Inspector
- Laboratory/field technician
- Paralegal

- Permit coordinator/reviewer
- Training coordinator

Transmission & Distribution

- Distribution systems controller
- Distribution technician
- Gas technician
- Line mechanic (lineman)
- Meter and control technician
- Pipeline technician
- Smart grid technician*
- Substation (relay) technician
- Systems analysis technician

Alternative Fuel Vehicles (AFVS) & Infrastructure*

- AFV infrastructure technician
- AFV mechanic
- Battery repair and maintenance technician*
- Biofuels processing technician*
- Fleet manager
- Life cycle/recycling specialist

*Indicates an emerging occupational field, existing but not yet fully defined

**These categories contain many of the same job titles, but are distinct enough areas within the energy field to warrant separating into two categories.



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