

## How can I learn more?

**Minnesota Energy Careers** [www.MnEnergyCareers.org](http://www.MnEnergyCareers.org)

**ISEEK** [www.iseek.org](http://www.iseek.org)

**MnCareers** [www.iseek.org/mncareers/](http://www.iseek.org/mncareers/)

**High Energy WebBook** <http://tinyurl.com/28bp7jx>

**Minnesota's Renewable Energy Marketplace** [www.mnrem.org](http://www.mnrem.org)

**Get Into Energy** [www.getintoenergy.com](http://www.getintoenergy.com)

**Apprenticeship** [www.iseek.org/education/apprenticeships.html](http://www.iseek.org/education/apprenticeships.html)

**Career counselors**, at your school or local Minnesota WorkForce Center 1-877-348-0502 or [www.positivelyminnesota.com](http://www.positivelyminnesota.com)



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Without energy, you couldn't use the computer or watch TV. You couldn't drive a car or ride the bus. But where does energy come from? How is it delivered?

Energy is generated from a variety of traditional and renewable energy sources. It is then distributed and consumed by businesses and people. This requires a variety of workers. Consider a career that benefits millions of people every day—a career in energy.

## Would I like a career in energy?

There are a wide variety of jobs within energy. Most of these jobs include a core set of skills and abilities:

- Working on a team
- Troubleshooting and solving problems
- Making safety a priority
- Comfortable using computers
- Physical strength and stamina

If you are interested in a green career—one that promotes environmental conservation or reduces human environmental impact—then energy has a lot of options.

## What types of energy careers are there?

**Engineering.** Engineers promote sustainable and clean energy usage. In this field, you gain the professional advantages of

working in a high-tech industry and make a difference in people's energy usage.

**Installation and Repair.** Essential to the energy

industry, installation and repair workers primarily install, inspect, test, and repair electrical or mechanical equipment in businesses and homes.

**Production.** Production workers in energy are mostly employed in power plants, often combining the duties of operators and technicians.

**Construction.** Saving energy is just as important as generating it, so careers in energy-efficient construction and building operations,

like plumbers and pipelayers, are found in the energy sector.

## What industries are these careers found in?

Energy has to be generated, distributed, and then consumed. The industries needed for this system to work are:

- **Traditional Electric Utilities** to generate electricity from non-renewable sources like coal, petroleum, natural gas, and nuclear power.

- **Renewable Energy Generation** to generate electricity from wind, water, solar, geothermal, and biomass, which is used to produce

biofuels like ethanol and biodiesel.

- **Electric and Gas Distribution** to distribute energy through a system of facilities and equipment that connect energy sources to end users, which includes lines, poles, switches, and transformers.
- **Energy Efficient Building Operations** to ensure electricity is not wasted by residential and commercial consumers.

## Do I need a college degree to get a job in energy?

There are opportunities in energy at all education levels, including people with only a high school education. Apprenticeship programs are a common way to enter a number of energy careers. Many energy workers decide to go back to school to earn their associate degree once they get some experience so they can train for higher-level positions. Most energy companies will pay for employees' higher education.

## What energy jobs are in demand?

- Chemical Plant and System Operators
- Electrical Engineers
- Electrical Power-Line Installers and Repairers
- Industrial Engineering Technicians
- Industrial Machinery Mechanics
- Mechanical Engineers
- Power Distributors and Dispatchers
- Power Plant Operators
- Stationary Engineers and Boiler Operators
- Welders, Cutters, Solderers, and Brazers



Because different parts of Minnesota host different energy-related activities, career opportunities vary from region to region.