Did You Know?

Coal and Natural Gas are the leading fuels to generate electricity and account for 1/3 of the net generation

Florida's residential electricity demand is one of the highest in the U.S.

Oil and Gas deposits are located off the western coast in the Continental Shelf

Researchers are attempting to derive Ethanol from orange peel wastes

The tourist industry causes the demand for petroleum based transportation fuels to be one of the highest in the U.S.

The two major Natural Gas pipelines are the Florida Gas Transmission Line and the Gulf Stream Pipeline

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Energy Career Fields

Electric Power: The generation, transmission and distribution of electric power. It uses highly pressurized steam which is generated by burning coal or by waterfalls that spin turbine blades attached to an electric generator. Transmission lines then transport this electricity to regional and local distribution centers, where the voltage is reduced and transmitted to homes, schools, factories, and businesses.

Oil and Gas: Make up 3/5 of our energy needs, and fuel homes, workplaces, factories, and transportation systems. These are the raw materials needed to make plastics, chemicals, medicines, and synthetic fibers. The function of an Oil and Gas plant is to find, develop, and extract Oil and Gas.

Nuclear Power: Supplies about 20% of the Nation's electricity each year and is the 2nd largest source of electricity in the U.S. The future goal of Nuclear Power is to meet the energy needs without emitting harmful toxins like carbon dioxide into the air.

Evaluate Your Skills

Lineworkers: Install and repair cables, wires, and other equipment seen on electrical poles and transmission towers. This requires a high school diploma, a 2-year degree is optional, and on-the-job training is required.

Plumber, Pipefitter & Steamfitter: Helps smooth operation of both electric and gas utilities. Lay pipe for steam to help generate electricity or set gas mains.

Welder: Lay out, fit, and fabricate metal components to assemble structural forms. Use knowledge of welding techniques, metallurgy, and engineering. Install or repair equipment like lead pipes, valves, floors, and tank linings.

Maintenance & Repair Worker: Must have the skills of 2 or more maintenance or craft occupations to keep machines, equipment, and the building structure in repair. Must be able to fit pipes, install equipment, weld, know carpentry, have electrical knowledge, and be able to fix floors and stairs.

Electrician: Install, maintain, and repair electrical wiring, equipment and fixtures. Must be up-to-date with the relevant codes. Assemble, install, test, and maintain electrical or electronic wiring and equipment.

Instrumentation & Control Technician: Provides technical support and setup of instrumentation, control and electronic activity. Help engineers develop new data.

Power Plant Operator: Makes sure customers have enough electricity or gas to meet their daily needs. They operate and control the machines.

Civil Engineer: Duties include planning, designing, and overseeing cnnstruction and maintenance of building structures and facilities. Inspect project sites to check progress and ensure that the design and safety standards are followed.