

# ALTERNATIVE ENERGY SERIES



## COURSE DESCRIPTION:

This system simulates an electric power generating plant, which uses a steam turbine. The student will burn fuel or gas to generate steam, which is injected into a transparent turbine coupled to an electric generator, producing electricity. The amount of power generated is controlled by boiler pressure and/or the amount of fuel burned under the boiler.

The student will get the full benefit of operating this unit and observing all the functional components of how energy is converted from one form into another.

## Equipment and Parts List:

- Steam Turbine Generator
- Fischer Gas Burner
- Output Terminals
- Eight 1" Panel Lights
- 2 ½" Ammeter Field Current 0-3 Amps
- 2 ½" Voltmeter Output Voltage 0-25 Volts
- 2 ½" Ammeter Output Current 0-3 Amps
- 2 ½" Steam Pressure Gauge 1-100 PSI

