

# MARCCRAFT

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# HYDRO POWER TECHNOLOGY PROGRAM



**HYDRO POWER**  
GT-5000

## Alternative Energy Generation

- History of fossil fuels
- Environmental concerns
- Electric grid
- Alternative energy sources

## Energy and Power

- Types of energy
- Potential and Kinetic energy
- Voltage and current
- Electrical loads
- Electrical power consumption
- Power math
- Making electrical connections

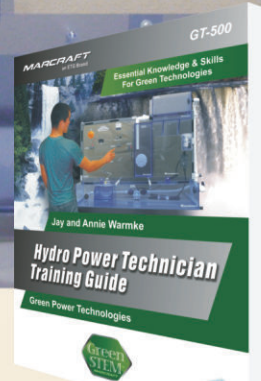
## Hydro Power

- History of hydro power
- Hydro power terms
- Measuring head and flow
- Microhydro power systems
- Turbines
- Maintenance
- Economics of microhydro power

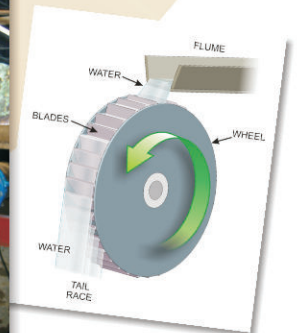
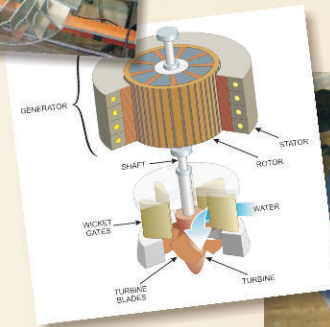
## Building Codes and Compliance

- National Electrical Codes
- International building codes
- Underwriters Laboratories
- EPA
- OSHA
- National Fire Protection Association

## Reinforced with Hands-on Labs



**HANDS-ON  
LAB GUIDE**



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