

Lecture # 9, December 8, 2011

Dams and Hydropower

1. **Role of Hydropower**
2. **Components of Hydroelectric Plants**
 - Elements to generate electricity
 - Hydraulics of turbines
 - Power systems Terms and Definitions
3. **Determining Energy potential**
 - Hydrologic data
 - Water power equations
 - Turbine characteristics and selection
 - Flow duration method
 - Sequential stream flow-routing method
 - Power rule curves
 - Multipurpose Storage Operation

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