

Lecture # 10, January 22, 2015

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 streamflow-routing method
 - Power rule curves
 - Multipurpose Storage Operation

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