

Lecture # 13, January 14, 2011

Water for Hydropower generation

- 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**

Oliver C. Saavedra V.