



CHELAN COUNTY  
www.chelanpud.org

# The Electric Power System

The Electric Power System is divided into generation, transmission, and distribution.

## 1. Hydro Project

In Chelan County, electrical power is generated at one of the PUD's three hydroelectric projects.

## 2. Transmission lines.

Transmission lines leave hydro projects and transmission switchyards.

## 3. Transmission Switchyard

Power moves across large transmission lines to a transmission switchyard where electrical voltage is reduced by transformers.

## 5. Distribution lines

Distribution lines leave local substations and may be overhead or underground depending on the location and situation.

## 4. Local Substation

The power then travels along smaller transmission lines to a local substation, where the electrical voltage is reduced to an appropriate level for residential and commercial use.

## 6. Your home or business

Finally, power travels along distribution lines and is converted to a standard voltage through transformers and into the customer's residence or business.

