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.

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.

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

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.