

FLOW OF WATER

- 1) Water flows from the lake through the penstocks.
- 2) Water then enters the turbine area through the scroll case.
- 3) The water strikes the turbine causing it to spin.
- 4) After spinning the turbine, the water leaves through the draft tube and enters Lake Taneycomo.

FLOW OF POWER

- 5) The turbine turns the generator shaft at 128.6 revolutions per minute (RPM).
- 6) The spinning generator produces electricity at 13,800 volts (50,000 kilowatts).
- 7) The electricity is routed from the powerhouse to the transformers.
- 8) It is then boosted (up to 161,000 volts) by the transformer and directed into the transmission lines.
- 9) The transmission lines carry the electricity to the consumer.

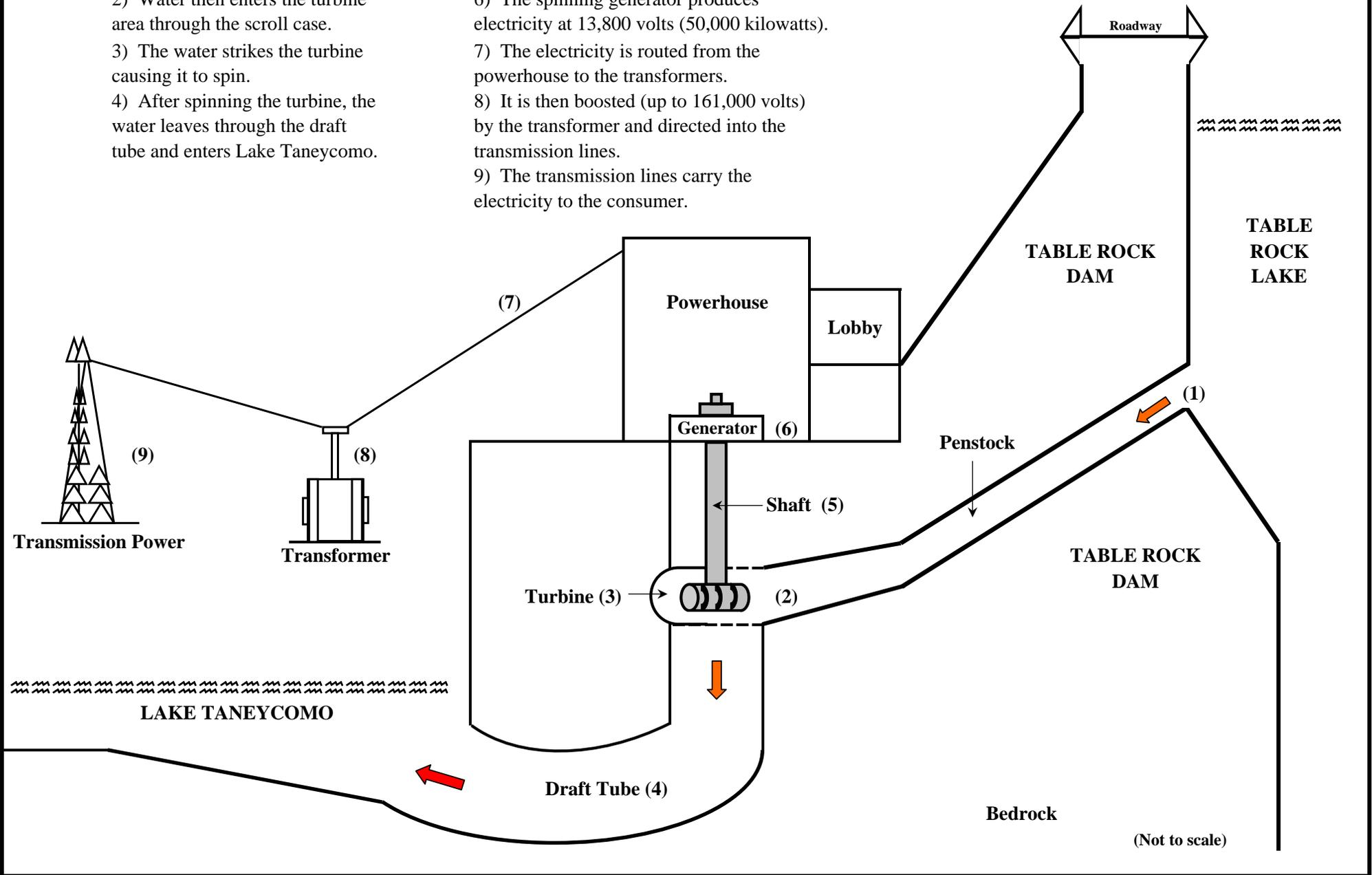


Figure 1