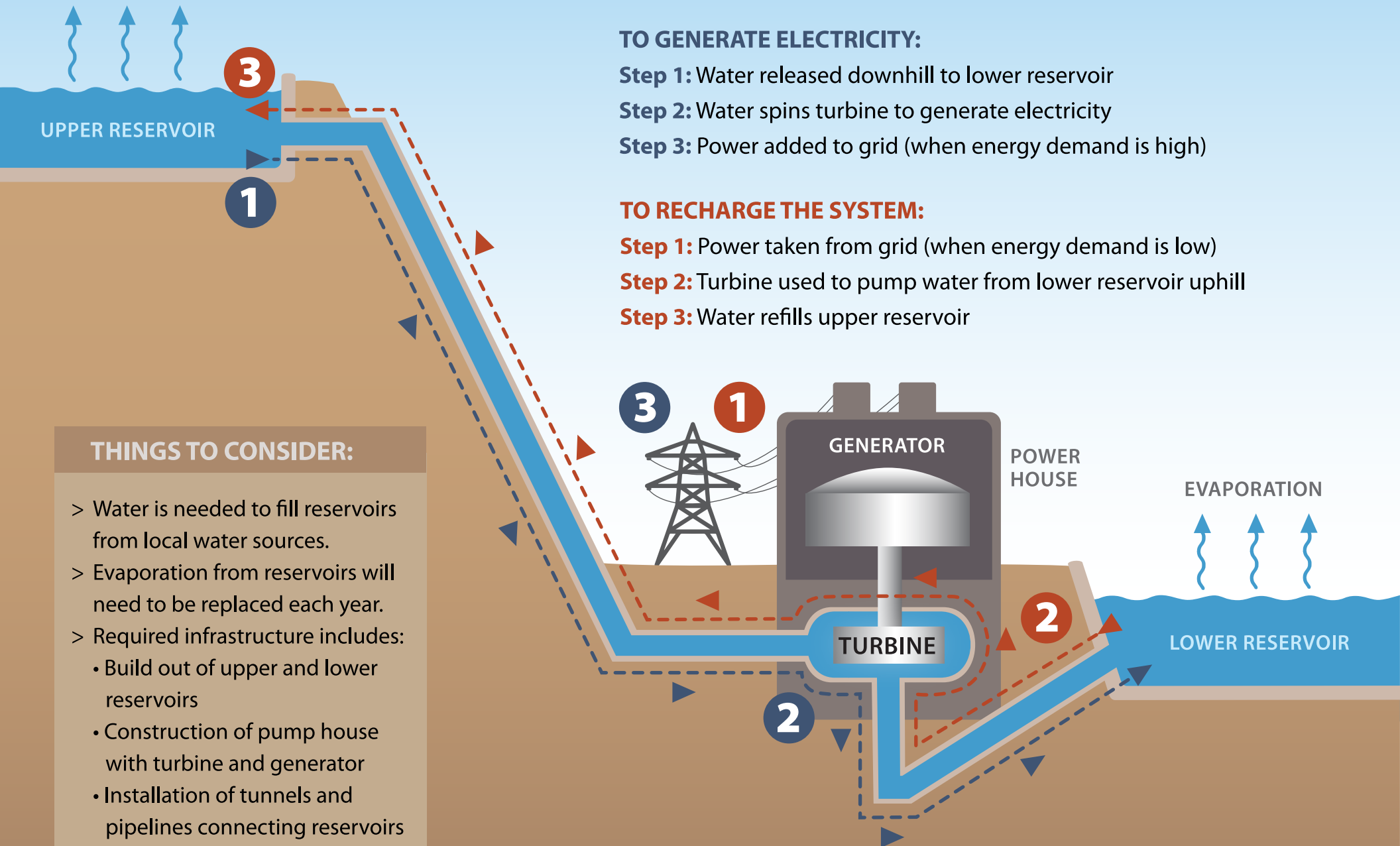


How Does Pumped Storage Hydropower Work?



TO GENERATE ELECTRICITY:

- Step 1:** Water released downhill to lower reservoir
- Step 2:** Water spins turbine to generate electricity
- Step 3:** Power added to grid (when energy demand is high)

TO RECHARGE THE SYSTEM:

- Step 1:** Power taken from grid (when energy demand is low)
- Step 2:** Turbine used to pump water from lower reservoir uphill
- Step 3:** Water refills upper reservoir

THINGS TO CONSIDER:

- > Water is needed to fill reservoirs from local water sources.
- > Evaporation from reservoirs will need to be replaced each year.
- > Required infrastructure includes:
 - Build out of upper and lower reservoirs
 - Construction of pump house with turbine and generator
 - Installation of tunnels and pipelines connecting reservoirs
 - Access to connect to power substations